2023 ANNUAL GROUNDWATER QUALITY REPORT

FOR THE

FAYETTE COUNTY SANITARY LANDFILL

33-SDP-02-83C

FAYETTE, IOWA

by:
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Certification

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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 2024 be conducted per Table 1. Bis(2-ethylhexyl)phthalate testing will continue on a semi-annual basis at MW-33. 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 2023 water quality data collected April 3, 2023 and October 16, 2023.

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, 2024	October, 2024	Most Recent Appendix II	Next Appendix II
Water Table System					
MW-12 (b-till)	Detection Monitoring	Appendix I	Appendix I		
MW-17 (b-till)	Detection Monitoring	Appendix I	Appendix I		
MW-21 (b-till)	Detection Monitoring	Appendix I	Appendix I		
MW-5	POC-CA	Appendix I(2)	Appendix I(2,3)	**10/14/2020**	
MW-7	Assessment Monitoring	Appendix I	Appendix I	**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**	
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(1)	Appendix I(1)	**10/16/2023**	**10/2028**
ACM Tile	Corrective Measure	As + App. I VOC	As + App. I VOC		
PEC-1	PECS Performance	App. I VOC	App. I VOC		
Duplicate					
Duplicate	QA/QC	Appendix I	Appendix I		

(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 3, 2023 and October 16, 2023 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 16, 2023 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 and ACM Tile are in detection monitoring. PECS-1 is utilized to confirm the performance of the Passive Engineered Conveyance Structure (PECS). MW-16 was returned to the detection monitoring system in January, 2023.

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			
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 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 2023, dated May, 2023 is included in Appendix D.1. The Groundwater Statistics Report for the Fayette County Landfill, Second Semi-Annual Monitoring Event in 2023, dated November, 2023 is included in Appendix D.2.

The Keystone Analytical Reports for the laboratory testing for the April 3, 2023 and October 16, 2023 sampling episodes are included in Appendix E.

3.1 QUALITY ASSURANCE/QUALITY CONTROL

A blind duplicate sample was collected at MW-12 during the April 3, 2023 sampling episode. A blind duplicate sample was collected at MW-18 during the October 16, 2023 sampling episode.

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

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

a) Both the original and/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 3, 2023 and October 16, 2023 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, 2023 Statistical Evaluation Report (Appendix D.2) includes a summary of the background data.

The site prediction limits established in the November, 2023 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, 2023 Statistical Evaluation Report (Appendix D.2) indicates that Antimony in the *water table system* is the only background prediction limit (6.2 ug/L) that exceeds the published IAC 567, Chapter 137 Statewide Standard (6.0 ug/L).

The GWPS should not be set lower than the Site Prediction Limit calculated from the site background data. For this report, the prediction limit for antimony (6.2 ug/L) will be utilized as the site-specific GWPS for the *water table system*, in lieu of 6.0 ug/L. For all other 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 2023.

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-6	MW-10	MW-32	MW-33
6/21/2011	*<8*	NT	NT	NT	NT	NT	NT	NT	NT	---	---
4/18/2012	*<8*	NT	NT	NT	NT	NT	NT	NT	NT	---	---
6/21/2012	NT	NT	NT	NT	NT	NT	NT	NT	NT	---	---
10/10/2012	NT	NT	NT	NT	NT	NT	NT	NT	NT	---	---
12/19/2012	NT	NT	NT	NT	NT	NT	NT	NT	NT	---	---
2/18/2013	NT	NT	NT	NT	NT	NT	NT	NT	NT	---	---
4/24/2013	NT	*<8*	NT	NT	NT	NT	NT	NT	NT	---	---
6/6/2013	NT	NT	NT	NT	NT	NT	NT	NT	NT	---	---
8/27/2013	NT	NT	NT	NT	NT	NT	NT	NT	NT	---	---
10/28/2013	NT	NT	NT	NT	NT	NT	NT	NT	NT	---	---
1/16/2014	NT	NT	NT	NT	NT	NT	NT	NT	NT	---	---
4/25/2014	NT	*<8*	NT	NT	NT	NT	NT	NT	NT	---	---
6/24/2014	NT	NT	NT	NT	NT	NT	NT	NT	NT	---	---
10/17/2014	NT	NT	NT	NT	NT	NT	NT	NT	NT	---	---
4/27/2015	NT	NT	NT	NT	NT	NT	NT	NT	NT	---	---
10/20/2015	***8.0***	*<8*	NT	NT	*<8*	NT	NT	NT	NT	---	---
4/11/2016	<8	NT	NT	NT	*<8*	NT	NT	NT	NT	---	---
7/13/2016	NT	NT	NT	NT	NT	NT	NT	NT	*<8*	---	---
10/11/2016	<8	NT	NT	NT	NT	NT	NT	NT	NT	---	---
4/13/2017	<6	NT	*<6*	NT	NT	***18.0***	NT	NT	***6.0***	---	---
10/26/2017	<6	NT	NT	*<6*	NT	<6	***12.0***	NT	<6	NT	NT
4/11/2018	<6	NT	***6.0***	*<6*	NT	*<6*	*<6*	*<6*	**7.0**	NT	NT
10/16/2018	<6	NT	<6	NT	NT	<6	<6	NT	**34.0**	NT	NT
4/17/2019	NT	NT	<6	NT	NT	<6	**7.0**	*<6*	<6	NT	NT
10/15/2019	NT	NT	**12.0**	NT	NT	<6	<6	NT	<6	NT	NT
4/6/2020	NT	NT	<6	NT	NT	<6	<6	NT	<6	NT	NT
10/13/2020	<6	<6	<6	NT	NT	<6	<6	NT	<6	NT	NT
4/12/2021	NT	NT	**6.0**	NT	***12.0***	NT	<6	NT	<6	NT	NT
10/6/2021	NT	NT	<6	NT	<6	NT	<6	NT	<6	*<6*	NT
4/14/2022	NT	NT	<6	NT	<6	NT	NT	NT	*<6*	NT	NT
10/25/2022	NT	NT	**6.0**	NT	<6	NT	NT	NT	NT	*<6*	**55.0**
4/3/2023	NT	NT	*<6*	NT	NT	***15.0***	***18.0***	NT	NT	NT	<6
1016/2023	NT	NT	NT	NT	NT	<6	<6	NT	NT	NT	*<6*

Bis(2-ethylhexyl)phthalate testing will continue on a semi-annual basis at MW-33.

Table 3b - Sulfide (ug/L)

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

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)	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	4/6/2020	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

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)	IAC 137 Statewide 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

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.

Bis(2-ethylhexyl)phthalate testing will continue on a semi-annual basis at MW-33 through 2024. Sulfide testing will continue on a semi-annual basis at MW-5.

SSL continue 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 2024.

Gas monitoring should continue in accordance with the Permit.

Figures

NOTES:
1. LIDAR CONTOURS DATED 11/27/07.
2. CONTOURS IN CELLS 1A, 1B AND 2 FROM CLOSURE PLANS DATED NOVEMBER 2009.
3. CONTOURS IN AREA OF POND AND MW 34, MW 35, MW 36, AND MW 37 FROM FIELD SURVEY DATED JANUARY 2018.

MW-17
MW-18
MW-19
MW-26
MW-16
MW-6
MW-25
MW-21
MW-20
GMW-1
PECS 1
REVETMENT STONE
POND
ACM TILE 1 (OUTLET)
CELL 2
CELL 1D
CELL 1A
CELL NEX
WASTE BOUNDARY
TRANSFER STATION
SCALE HOUSE
SCALE
ENTRANCE
KORNHILL ROAD
LPZ-10
LPZ-9
CLOSED LANDFILL
MW-37
MW-35
MW-5
MW-36
MW-34
MW-14R
GMW-2
MW-30
MW-11
MW-12
MW-7
MW-8
MW-31
MW-9
MW-10
MW-24
MW-27
POND
MW-32
MW-28
MW-33

0 200 400

FIGURE: 1

REVISION	NO.	DATE
DRAWN DRA	PROJECT NO. 6041	DATE 12-12-23

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 16, 2023			
WELL	ELEV.	WELL	ELEV.
MW-5	1106.86	MW-27	1067.62
MW-7	1067.30	MW-28	1069.50
MW-9	1058.76	MW-30	1090.27
MW-12	1082.31	MW-31	1058.02
MW-16	1082.09	MW-32	1065.66
MW-17	1078.59	MW-33	1067.02
MW-19	1068.48	MW-34	1105.46
MW-21	1090.55	MW-35	1104.37
MW-24	1061.44	MW-36	1106.94
MW-25	1082.08	LPZ-9	1097.89
MW-26	1073.48	LPZ-10	1108.11

TABLE NOTE:
WATER ELVATION FOR LPZ-9 IS THE BOTTOM OF A DRY WELL.

0 200 400

N

MW-17 MW-19 MW-26 MW-16 MW-21 MW-25 MW-7 MW-31 MW-9 MW-24 MW-27 MW-32 MW-28 MW-33 MW-30 MW-12 MW-35 MW-5 MW-36 MW-34 LPZ-10 LPZ-9

1070 1080 1090 1100 1105 1060

ENTRANCE
TRANSFER STATION
SCALE HOUSE
SCALE
WASTE BOUNDARY
CELL 2
CELL 1D
CELL 1A
CELL NEXT
CLOSED LANDFILL
POND
POND
KORNHILL ROAD

FIGURE: 2

REVISION	NO.	DATE
DRAWN DRA	PROJECT NO. 6041	DATE 12-12-23

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 Engineering Group

WATER ELEV OCTOBER 16, 2023			
WELL	ELEV.	WELL	ELEV.
MW-6	1046.45	MW-14R	1047.55
MW-8	1046.48	MW-18	1061.95
MW-10	1047.04	MW-20	1047.38
MW-11	1049.89		

MW-18
MW-20
MW-6
MW-8
MW-10
MW-11
MW-14R
1060
1055
1050
1048
1090
1100
1110
1120
1130
1140
1150
1080
1070
1060
CELL 2
CELL 1D
CELL 1A
CELL NEXT
CLOSED LANDFILL
WASTE BOUNDARY
TRANSFER STATION
SCALE HOUSE
SCALE
ENTRANCE
POND
POND
KORNHILL ROAD
N
0
200
400

FIGURE: 3

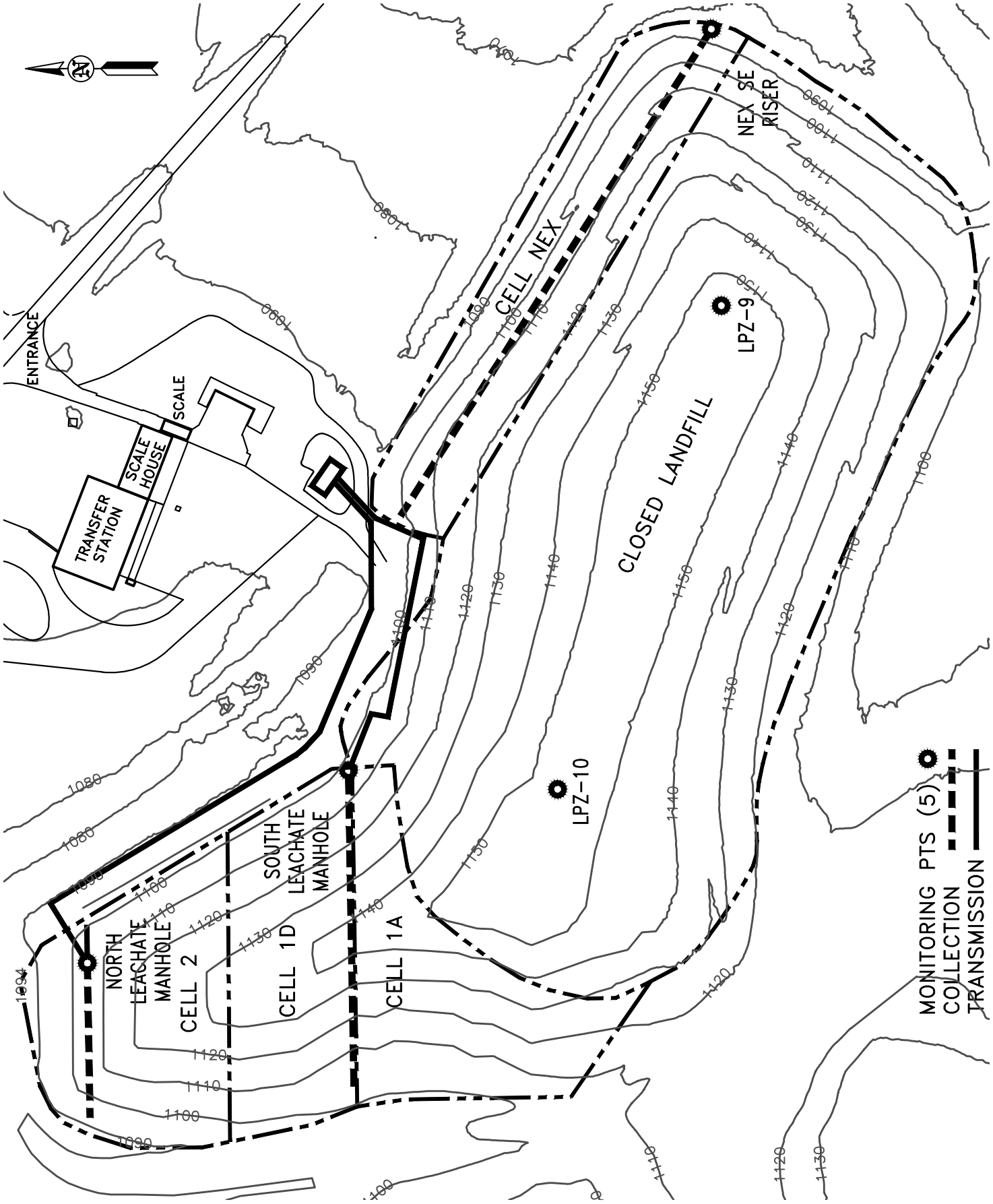
REVISION	NO.	DATE
DRAWN DRA	PROJECT NO. 6041	DATE 12-12-23

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



HLW

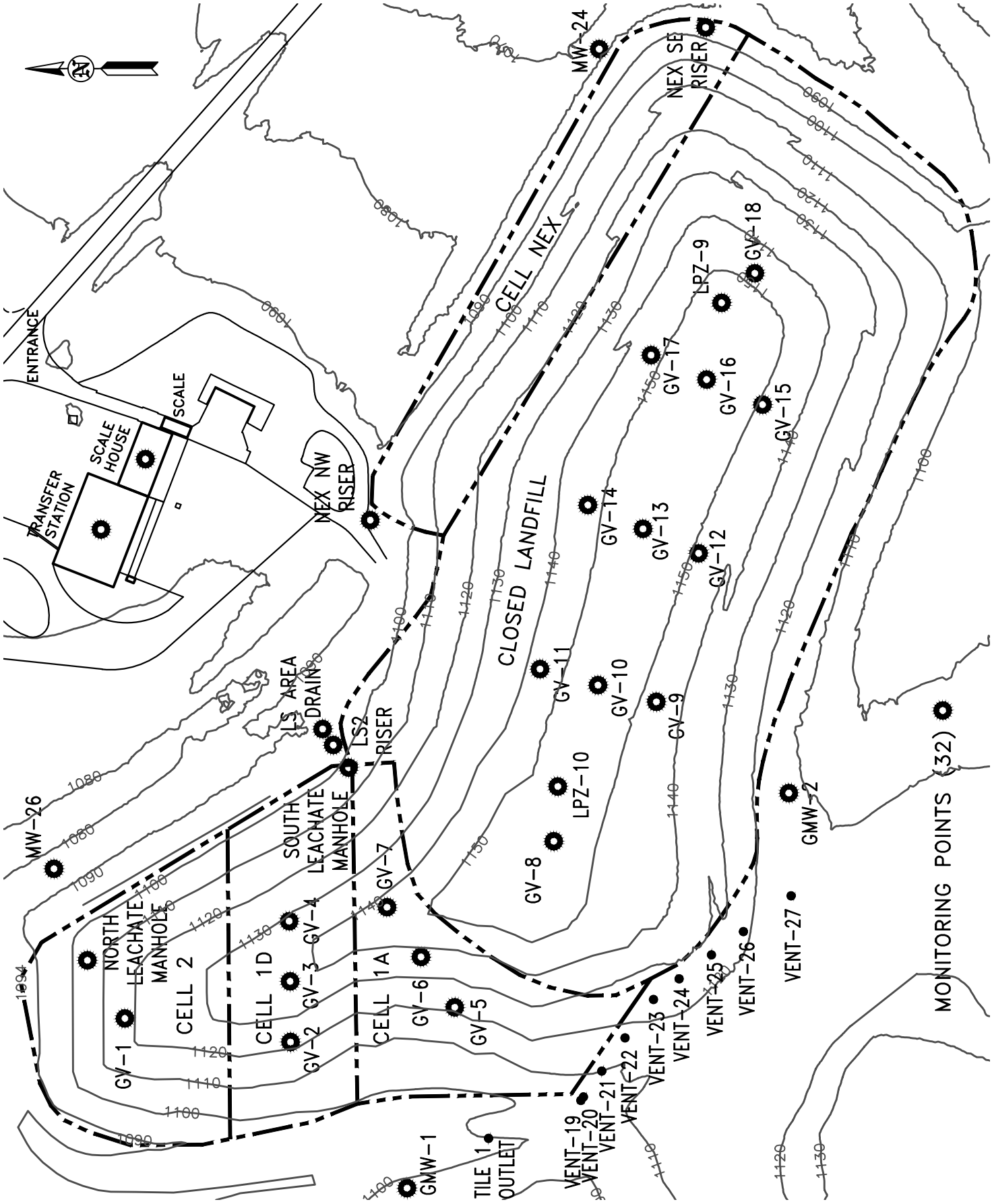
HLW Engineering Group

LEACHATE SYSTEM AND MONITORING POINTS

FAYETTE COUNTY SANITARY LANDFILL
FAYETTE, IOWA

FIGURE: 4

REVISION	NO.	DATE
DRAWN DRA	PROJECT NO. 6041	DATE 12-12-23



HLW
HLW Engineering Group

GAS MONITORING POINTS

FAYETTE COUNTY SANITARY LANDFILL
FAYETTE, IOWA

FIGURE: 5

REVISION	NO.	DATE
DRAWN DRA	PROJECT NO. 6041	DATE 12-12-23

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	O	O
High and low water levels	X	X	X	X	O	O
Six-month water levels	X	X	X	X	O	O
Well-depth measurement	X	X	X	X	O	O
Evaluation of recharge rates and chemistry	X		X		O	

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 Table 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 16, 2023 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 16, 2023.

Well Depth & Sedimentation

Well depth measurements were made on October 16, 2023. 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 15, 2022 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-7 and MW-16 require 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 2024.

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

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

4/3/2023 | Sampled by: Todd Whipple | Weather conditions: Overcast, 42-52 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)	2.75

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	12:18	3.22	1115.43	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.75
Appendix I	Metals	150	150		2.75
Appendix I	VOC	240	240		2.75
Full Appendix II	10 more containers	5620			
Supplemental	alkalinity	250			
Supplemental	Sulfide	250		250	
Supplemental	methane	120			
Total			400	250	

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

TOC	1118.65	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.10	Before purging	4/3/2023	12:18	3.22	1115.43	0	0.0	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	4/3/2023		20.00	1098.65			
						0.10	feet sedimentation		
		Before Sampling				1118.65			
		Before Sampling				1118.65			
		Recovery				1118.65			
		Recovery				1118.65			
		Recovery				1118.65			

IDNR Form 542-1322

Monitoring Well: MW-6 (ug)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1094.42
Well Depth	62.00
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1094.42
Well Depth	62.00
Top Screen	1042.42
Bottom Screen	1032.42
Bottom Well	1032.42
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	57.00
Top sample	1037.42
Bottom sample	1033.42
Turbidity(NTU)	1.90

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	10:12	45.58	1048.84	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.90
Appendix I	Metals	150	150		1.90
Appendix I	VOC	240	240		1.90
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	1094.42	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	62.00	Before purging	4/3/2023	10:12	45.58	1048.84	0	0.0	No
		After purging				1094.42			
		Top of Screen after construction				1042.42			
						52.00	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1032.42			
		Bottom of Well	4/3/2023		63.10	1031.32			
						-1.10	feet sedimentation		
		Before Sampling				1094.42			
		Before Sampling				1094.42			
		Recovery				1094.42			
		Recovery				1094.42			
		Recovery				1094.42			

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)	0.88

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	14:42	8.1	1078.26	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.88
Appendix I	Metals	150	150		0.88
Appendix I	VOC	240	240		0.88
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	1086.36	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	24.39	Before purging	4/3/2023	14:42	8.10	1078.26	0	0.0	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	4/3/2023		24.10	1062.26			
						0.03	feet sedimentation		
		Before Sampling				1086.36			
		Before Sampling				1086.36			
		Recovery				1086.36			
		Recovery				1086.36			
		Recovery				1086.36			

IDNR Form 542-1322

Monitoring Well: MW-8 (ug)

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

GENERAL INFORMATION

TOC	1083.15
Well Depth	61.18
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1083.15
Well Depth	61.18
Top Screen	1032.09
Bottom Screen	1022.07
Bottom Well	1021.95
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	57.00
Top sample	1026.15
Bottom sample	1022.15
Turbidity(NTU)	1.63

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	14:54	34.38	1048.77	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.63
Appendix I	Metals	150	150		1.63
Appendix I	VOC	240	240		1.63
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	1083.15	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	61.80	Before purging	4/3/2023	14:54	34.38	1048.77	0	0.0	No
		After purging				1083.15			
		Top of Screen after construction				1032.09			
						51.06	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1022.09			
		Bottom of Well	4/3/2023		63.75	1019.40			
						-2.69	feet sedimentation		
		Before Sampling				1083.15			
		Before Sampling				1083.15			
		Recovery				1083.15			
		Recovery				1083.15			
		Recovery				1083.15			

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)	32.28

red

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	15:33	2.27	1067.26	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		32.28
Appendix I	Metals	150	150		32.28
Appendix I	VOC	240	240		32.28
Full Appendix II	10 more containers	5620		5620	
TSS	TSS	250			
Supplemental	BEHP	250			
Supplemental		120			
Total			400	5620	

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	4/3/2023	15:33	2.27	1067.26	11	3.9	No
		After purging	4/3/2023	15:49	7.28	1062.25			
		Top of Screen after construction				1059.75			
						2.50	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1049.73			
		Bottom of Well	4/3/2023		19.80	1049.73			
						0.00	feet sedimentation		
		Before Sampling				1069.53			
		Before Sampling				1069.53			
		Recovery				1069.53			
		Recovery				1069.53			
		Recovery				1069.53			

IDNR Form 542-1322

Monitoring Well: MW-10 (ug)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1070.09
Well Depth	60.24
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	1070.09
Well Depth	60.24
Top Screen	1019.85
Bottom Screen	1009.85
Bottom Well	1009.85
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	53.00
Top sample	1017.09
Bottom sample	1013.09
Turbidity(NTU)	1.62

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	15:18	20.55	1049.54	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.62
Appendix I	Metals	150	150		1.62
Appendix I	VOC	240	240		1.62
Full Appendix II	10 more containers	5620			
TSS	TSS	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	1070.09	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	60.24	Before purging	4/3/2023	15:18	20.55	1049.54	0	0.0	No
		After purging				1070.09			
		Top of Screen after construction				1019.85			
						50.24	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1009.85			
		Bottom of Well	4/3/2023		60.00	1010.09			
						0.24	feet sedimentation		
		Before Sampling				1070.09	App I		
		Before Sampling				1070.09	App II		
		Recovery				1070.09			
		Recovery				1070.09			
		Recovery				1070.09			

IDNR Form 542-1322

Monitoring Well: MW-11 (dg)

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

GENERAL INFORMATION

TOC	1099.1
Well Depth	104.50
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	1099.1
Well Depth	104.50
Top Screen	1009.60
Bottom Screen	994.60
Bottom Well	994.50
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	95.00
Top sample	1004.10
Bottom sample	1000.10
Turbidity(NTU)	1.06

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	13:04	46.75	1052.35	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.06
Appendix I	Metals	150	150		1.06
Appendix I	VOC	240	240		1.06
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	1099.1	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	104.50	Before purging	4/3/2023	13:04	46.75	1052.35	0	0.0	No
		After purging				1099.10			
		Top of Screen after construction				1009.60			
						89.50	feet above (+) or below (-) top screen		
		Bottom of Well after construction				994.60			
		Bottom of Well	4/3/2023		104.50	994.60			
						0.00	feet sedimentation		
		Before Sampling				1099.10			
		Before Sampling				1099.10			
		Recovery				1099.10			
		Recovery				1099.10			
		Recovery				1099.10			

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	20.00
Top sample	1079.11
Bottom sample	1075.11
Turbidity(NTU)	1.60

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	13:12	7.73	1091.38	

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		1.60
Appendix I	Metals	150	150		1.60
Appendix I	VOC	240	240		1.60
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	1099.11	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	24.88	Before purging	4/3/2023	13:12	7.73	1091.38	0	0.0	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	4/3/2023		24.85	1074.26			
						0.03	feet sedimentation		
		Before Sampling				1099.11			
		Before Sampling				1099.11			
		Recovery				1099.11			
		Recovery				1099.11			
		Recovery				1099.11			

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Monitoring Well: MW-14R (ug)

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

GENERAL INFORMATION

TOC	1114.32
Well Depth	99.72
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	1114.32
Well Depth	99.72
Top Screen	1024.60
Bottom Screen	1014.60
Bottom Well	1014.10
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	91.00
Top sample	1023.32
Bottom sample	1019.32
Turbidity(NTU)	98.61

red

Date	Time	Water Level	Water Elevation
4/3/2023	12:40	65.78	1048.54

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		98.61
Appendix I	Metals	150	150		98.61
Appendix I	VOC	240	240		98.61
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	1114.32	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	99.72	Before purging	4/3/2023	12:40	65.78	1048.54		0.0	no
		After purging				1099.11			
		Top of Screen after construction				1024.60			
						74.51	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1014.60			
		Bottom of Well	4/3/2023		100.60	1013.72			
						-0.88	feet sedimentation		
		Before Sampling				1099.11			
		Before Sampling				1099.11			
		Recovery				1099.11			
		Recovery				1099.11			
		Recovery				1099.11			

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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)	1.08

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	10:01	8.91	1085.36	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.08
Appendix I	Metals	150	150		1.08
Appendix I	VOC	240	240		1.08
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental	Sulfide	250			
Supplemental		120			
Total			400	0	

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

TOC	1094.27	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	29.15	Before purging	4/3/2023	10:01	8.91	1085.36	0	0.0	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	4/3/2023		30.83	1063.44			
						-1.68	feet sedimentation		
		Before Sampling				1094.27			
		Before Sampling				1094.27			
		Recovery				1094.27			
		Recovery				1094.27			
		Recovery				1094.27			

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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)	1.44

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	11:23	6.76	1079.31	

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		1.44
Appendix I	Metals	150	150		1.44
Appendix I	VOC	240	240		1.44
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	1086.07	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.85	Before purging	4/3/2023	11:23	6.76	1079.31	0	0.0	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	4/3/2023		31.00	1055.07			
						-0.15	feet sedimentation		
		Before Sampling				1086.07			
		Before Sampling				1086.07			
		Recovery				1086.07			
		Recovery				1086.07			
		Recovery				1086.07			

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Monitoring Well: MW-18 (ug)

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

GENERAL INFORMATION

TOC	1076.75
Well Depth	30.33
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1076.75
Well Depth	30.33
Top Screen	1051.42
Bottom Screen	1046.42
Bottom Well	1045.92
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	25.00
Top sample	1051.75
Bottom sample	1047.75
Turbidity(NTU)	0.73

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	11:35	12.97	1063.78	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.73
Appendix I	Metals	150	150		0.73
Appendix I	VOC	240	240		0.73
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	1076.75	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.33	Before purging	4/3/2023	11:35	12.97	1063.78	0	0.0	No
		After purging				1076.75			
		Top of Screen after construction				1051.42			
						25.33	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1046.42			
		Bottom of Well	4/3/2023		31.00	1045.75			
						-0.67	feet sedimentation		
		Before Sampling				1076.75			
		Before Sampling				1076.75			
		Recovery				1076.75			
		Recovery				1076.75			
		Recovery				1076.75			

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Monitoring Well: MW-19 (dg)

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

GENERAL INFORMATION

TOC	1076.82
Well Depth	16.90
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1076.82
Well Depth	16.90
Top Screen	1069.92
Bottom Screen	1059.92
Bottom Well	1059.42
Sampler Length (ft)	
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1076.82
Bottom sample	1076.82
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	Notes
4/3/2023		4.25	1072.57	Water Level Only

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			
Appendix I	Metals	150			
Appendix I	VOC	240			
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	1076.82	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	16.90	Before purging	4/3/2023		4.25	1072.57		0.0	No
		After purging				1076.82			
		Top of Screen after construction				1069.92			
						6.90	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1059.92			
		Bottom of Well				1076.82			
						16.90	feet sedimentation		
		Before Sampling				1076.82			
		Before Sampling				1076.82			
		Recovery				1076.82			
		Recovery				1076.82			
		Recovery				1076.82			

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Monitoring Well: MW-20 (dg)

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

GENERAL INFORMATION

TOC	1107.64
Well Depth	79.20
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1107.64
Well Depth	79.20
Top Screen	1033.44
Bottom Screen	1028.44
Bottom Well	1027.94
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	74.00
Top sample	1033.64
Bottom sample	1029.64
Turbidity(NTU)	1.10

Date	Time	Water Level	Water Elevation	Notes
4/3/2023	11:02	58.25	1049.39	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.10
Appendix I	Metals	150	150		1.10
Appendix I	VOC	240	240		1.10
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	1107.64	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	79.20	Before purging	4/3/2023	11:02	58.25	1049.39	0	0.0	No
		After purging				1107.64			
		Top of Screen after construction				1033.44			
						74.20	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1028.44			
		Bottom of Well	4/3/2023		80.30	1027.34			
						-1.10	feet sedimentation		
		Before Sampling				1107.64			
		Before Sampling				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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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	12.00
Top sample	1095.23
Bottom sample	1091.23
Turbidity(NTU)	0.91

Date	Time	Water Level	Water Elevation
4/3/2023	10:53	5.06	1102.17

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		0.91
Appendix I	Metals	150	150		0.91
Appendix I	VOC	240	240		0.91
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	1107.23	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	17.50	Before purging	4/3/2023	10:53	5.06	1102.58	0	0.0	No
		After purging				1107.64			
		Top of Screen after construction				1099.73			
						7.91	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1089.73			
		Bottom of Well	4/3/2023		17.55	1089.68			
						-0.05	feet sedimentation		
		Before Sampling				1107.64			
		Before Sampling				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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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	16.00
Top sample	1066.08
Bottom sample	1062.08
Turbidity(NTU)	5.14

Date	Time	Water Level	Water Elevation
4/3/2023	14:26	14.34	1067.74

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		5.14
Appendix I	Metals	150	150		5.14
Appendix I	VOC	240	240		5.14
Full Appendix II	10 more containers	5620			
TSS	TSS	250			
Supplemental		250			
Supplemental	Sulfide	120			
Total			400	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	4/3/2023	14:26	14.34	1067.74	0	0.0	no
		After purging				1107.64			
		Top of Screen after construction				1070.67			
						36.97	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1060.67			
		Bottom of Well	4/3/2023		21.65	1060.43			
						-0.24	feet sedimentation		
		Before Sampling				1107.64			
		Before Sampling				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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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)	0.69

Date	Time	Water Level	Water Elevation
4/3/2023	16:40	6.46	1082.54

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.69
Appendix I	Metals	150	150		0.69
Appendix I	VOC	240	240		0.69
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

TOC	1089	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.60	Before purging	4/3/2023	16:40	6.46	1082.54	8	3.7	no
		After purging	4/3/2023	17:09	18.45	1089.19			
		Top of Screen after construction				1079.40			
						9.79	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1069.40			
		Bottom of Well	4/3/2023		20.00	1069.00			
						-0.40	feet sedimentation		
		Before Sampling				1107.64	App I		
		Before Sampling				1107.64	App II		
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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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	14.50
Top sample	1072.43
Bottom sample	1068.43
Turbidity(NTU)	0.61

Date	Time	Water Level	Water Elevation
4/3/2023	16:04	9.45	1077.48

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		0.61
Appendix I	Metals	150	150		0.61
Appendix I	VOC	240	240		0.61
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	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.64	Before purging	4/3/2023	16:04	9.45	1077.48	5	3.0	no
		After purging	4/3/2023	16:20	15.4	1092.24			
		Top of Screen after construction				1077.29			
						14.95	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1067.29			
		Bottom of Well	4/3/2023		19.95	1066.98			
						-0.31	feet sedimentation		
		Before Sampling				1107.64	App I		
		Before Sampling				1107.64	App II		
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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Monitoring Well: MW-27 (dg)

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

GENERAL INFORMATION

TOC	1083.5
Well Depth	19.50
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	1083.5
Well Depth	19.70
Top Screen	1074.00
Bottom Screen	1064.00
Bottom Well	1063.00
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1083.50
Bottom sample	1079.50
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	
4/3/2023		9.18	1074.32	Water Level Only

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			
Appendix I	Metals	150			
Appendix I	VOC	240			
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	1083.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.50	Before purging	4/3/2023	0:00	9.18	1098.46		0.0	
		After purging				1107.64			
		Top of Screen after construction				1074.00			
						33.64	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1064.00			
		Bottom of Well				1083.50			
						19.50	feet sedimentation		
		Before Sampling				1107.64			
		Before Sampling				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

IDNR Form 542-1322

Monitoring Well: MW-28 (dg)

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

GENERAL INFORMATION

TOC	1083.5
Well Depth	19.50
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	1083.5
Well Depth	19.70
Top Screen	1074.00
Bottom Screen	1064.00
Bottom Well	1063.00
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1083.50
Bottom sample	1079.50
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	
4/3/2023		7.36	1076.14	Water Level Only

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.00
Appendix I	Metals	150	150		0.00
Appendix I	VOC	240	240		0.00
Full Appendix II	10 more containers	5620			
TSS	TSS	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	1083.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.50	Before purging	4/3/2023	0:00	7.36	1100.28		0.0	No
		After purging				1107.64			
		Top of Screen after construction				1074.00			
						33.64	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1064.00			
		Bottom of Well				1083.50			
						19.50	feet sedimentation		
		Before Sampling				1107.64			
		Before Sampling				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

IDNR Form 542-1322

Monitoring Well: OW-30 (dg)

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

GENERAL INFORMATION

TOC	1101.77
Well Depth	19.90
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1101.77
Well Depth	19.90
Top Screen	1091.87
Bottom Screen	1081.87
Bottom Well	1081.87
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1101.77
Bottom sample	1097.77
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	
4/3/2023			1101.77	No Record

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			
Appendix I	Metals	150			
Appendix I	VOC	240			
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	1101.77	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.90	Before purging	4/3/2023	0:00	0.00	1101.77		0.0	No
		After purging				1101.77			
		Top of Screen after construction				1091.87			
						9.90	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1081.87			
		Bottom of Well				1101.77			
						19.90	feet sedimentation		
		Before Sampling				1101.77			
		Before Sampling				1101.77			
		Recovery				1101.77			
		Recovery				1101.77			
		Recovery				1101.77			

IDNR Form 542-1322

Monitoring Well: MW-31 (dg)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1071.7
Well Depth	15.00
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1071.7
Well Depth	15.00
Top Screen	1061.70
Bottom Screen	1056.70
Bottom Well	1054.30
Sampler Length (ft)	
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1071.70
Bottom sample	1071.70
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	
4/3/2023		4.19	1067.51	Water Level Only

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			
Appendix I	Metals	150			
Appendix I	VOC	240			
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	1071.7	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	15.00	Before purging	4/3/2023	0:00	4.19	1067.51		0.0	No
		After purging				1071.70			
		Top of Screen after construction				1061.70			
						10.00	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1056.70			
		Bottom of Well				1071.70			
						15.00	feet sedimentation		
		Before Sampling				1071.70			
		Before Sampling				1071.70			
		Recovery				1071.70			
		Recovery				1071.70			
		Recovery				1071.70			

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	12.00
Top sample	1066.35
Bottom sample	1062.35
Turbidity(NTU)	115.90

red

Date	Time	Water Level	Water Elevation
4/3/2023	13:39	4.74	1073.61

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		115.9
Appendix I	Metals	150	150		115.9
Appendix I	VOC	240	240		115.9
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	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	16.80	Before purging	4/3/2023	13:39	4.74	1073.61	0	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	4/3/2023		16.80	1061.55			
						0.00	feet sedimentation		
		Before Sampling				1078.35			
		Before Sampling				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	12.00
Top sample	1070.11
Bottom sample	1066.11
Turbidity(NTU)	77.56

red

Date	Time	Water Level	Water Elevation
4/3/2023	13:58	3.19	1078.92

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		77.56
Appendix I	Metals	150	150		77.56
Appendix I	VOC	240	240		77.56
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	1082.11	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	16.50	Before purging	4/3/2023	13:58	3.19	1078.92	0	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	4/3/2023		16.50	1065.61			
						0.00	feet sedimentation		
		Before Sampling				1082.11			
		Before Sampling				1082.11			
		Recovery				1082.11			
		Recovery				1082.11			
		Recovery				1082.11			

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

10/16/2023 | Sampled by: Todd Whipple | Weather conditions: Partly Sunny , calm, 40-50 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)	14.26

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	11:59	12.08	1106.57	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		14.26
Appendix I	Metals	150	150		14.26
Appendix I	VOC	240	240		14.26
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	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.10	Before purging	10/16/2023	11:59	12.08	1106.57	0	0.0	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	10/16/2023		20.00	1098.65			
						0.10	feet sedimentation		
		Before Sampling				1118.65			
		Before Sampling				1118.65			
		Recovery				1118.65			
		Recovery				1118.65			
		Recovery				1118.65			

IDNR Form 542-1322

Monitoring Well: MW-6 (ug)

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

GENERAL INFORMATION

TOC	1094.42
Well Depth	62.00
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1094.42
Well Depth	62.00
Top Screen	1042.42
Bottom Screen	1032.42
Bottom Well	1032.42
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	57.00
Top sample	1037.42
Bottom sample	1033.42
Turbidity(NTU)	3.02

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	8:41	48.18	1046.24	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		3.02
Appendix I	Metals	150	150		3.02
Appendix I	VOC	240	240		3.02
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	1094.42	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	62.00	Before purging	10/16/2023	8:41	48.18	1046.24	0	0.0	No
		After purging				1094.42			
		Top of Screen after construction				1042.42			
						52.00	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1032.42			
		Bottom of Well	10/16/2023		63.10	1031.32			
						-1.10	feet sedimentation		
		Before Sampling				1094.42			
		Before Sampling				1094.42			
		Recovery				1094.42			
		Recovery				1094.42			
		Recovery				1094.42			

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	18.50
Top sample	1067.86
Bottom sample	1063.86
Turbidity(NTU)	5.11

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	13:26	17.2	1069.16	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		5.11
Appendix I	Metals	150	150		5.11
Appendix I	VOC	240	240		5.11
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	10/16/2023	13:26	17.20	1069.16	0	0.0	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	10/16/2023		24.10	1062.26			
						0.03	feet sedimentation		
		Before Sampling				1086.36			
		Before Sampling				1086.36			
		Recovery				1086.36			
		Recovery				1086.36			
		Recovery				1086.36			

IDNR Form 542-1322

Monitoring Well: MW-8 (ug)

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

GENERAL INFORMATION

TOC	1083.15
Well Depth	61.18
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1083.15
Well Depth	61.18
Top Screen	1032.09
Bottom Screen	1022.07
Bottom Well	1021.95
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	57.00
Top sample	1026.15
Bottom sample	1022.15
Turbidity(NTU)	2.02

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	13:16	36.89	1046.26	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.02
Appendix I	Metals	150	150		2.02
Appendix I	VOC	240	240		2.02
Full Appendix II	10 more containers	5620			
TSS	TSS	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	1083.15	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	61.80	Before purging	10/16/2023	13:16	36.89	1046.26	0	0.0	No
		After purging				1083.15			
		Top of Screen after construction				1032.09			
						51.06	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1022.09			
		Bottom of Well	10/16/2023		63.75	1019.40			
						-2.69	feet sedimentation		
		Before Sampling				1083.15			
		Before Sampling				1083.15			
		Recovery				1083.15			
		Recovery				1083.15			
		Recovery				1083.15			

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)	29.14

red

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	15:12	11.03	1058.5	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		29.14
Appendix I	Metals	150	150		29.14
Appendix I	VOC	240	240		29.14
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	10/16/2023	15:12	11.03	1058.50		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	10/16/2023		19.80	1049.73			
						0.00	feet sedimentation		
		Before Sampling				1069.53			
		Before Sampling				1069.53			
		Recovery				1069.53			
		Recovery				1069.53			
		Recovery				1069.53			

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Monitoring Well: MW-10 (ug)

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

GENERAL INFORMATION

TOC	1070.09
Well Depth	60.24
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	1070.09
Well Depth	60.24
Top Screen	1019.85
Bottom Screen	1009.85
Bottom Well	1009.85
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	54.00
Top sample	1016.09
Bottom sample	1012.09
Turbidity(NTU)	1.97

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	15:05	23.3	1046.79	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.97
Appendix I	Metals	150	150		1.97
Appendix I	VOC	240	240		1.97
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	1070.09	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	60.24	Before purging	10/16/2023	15:05	23.3	1046.79	0	0.0	No
		After purging				1070.09			
		Top of Screen after construction				1019.85			
						50.24	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1009.85			
		Bottom of Well	10/16/2023		60.00	1010.09			
						0.24	feet sedimentation		
		Before Sampling				1070.09	App I		
		Before Sampling				1070.09	App II		
		Recovery				1070.09			
		Recovery				1070.09			
		Recovery				1070.09			

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Monitoring Well: MW-11 (dg)

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

GENERAL INFORMATION

TOC	1099.1
Well Depth	104.50
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	1099.1
Well Depth	104.50
Top Screen	1009.60
Bottom Screen	994.60
Bottom Well	994.50
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	98.00
Top sample	1001.10
Bottom sample	997.10
Turbidity(NTU)	4.35

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	11:10	49.39	1049.71	

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		4.35
Appendix I	Metals	150	150		4.35
Appendix I	VOC	240	240		4.35
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	1099.1	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	104.50	Before purging	10/16/2023	11:10	49.39	1049.71	0	0.0	No
		After purging				1099.10			
		Top of Screen after construction				1009.60			
						89.50	feet above (+) or below (-) top screen		
		Bottom of Well after construction				994.60			
		Bottom of Well	10/16/2023		104.50	994.60			
						0.00	feet sedimentation		
		Before Sampling				1099.10			
		Before Sampling				1099.10			
		Recovery				1099.10			
		Recovery				1099.10			
		Recovery				1099.10			

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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)	2.70

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	10:55	17.04	1082.07	

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		2.70
Appendix I	Metals	150	150		2.70
Appendix I	VOC	240	240		2.70
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	10/16/2023	10:55	17.04	1082.07	0	0.0	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	10/16/2023		24.85	1074.26			
						0.03	feet sedimentation		
		Before Sampling				1099.11			
		Before Sampling				1099.11			
		Recovery				1099.11			
		Recovery				1099.11			
		Recovery				1099.11			

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Monitoring Well: MW-14R (ug)

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

GENERAL INFORMATION

TOC	1114.32
Well Depth	99.72
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	1114.32
Well Depth	99.72
Top Screen	1024.60
Bottom Screen	1014.60
Bottom Well	1014.10
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	94.00
Top sample	1020.32
Bottom sample	1016.32
Turbidity(NTU)	11.07

Date	Time	Water Level	Water Elevation
10/16/2023	11:31	66.77	1047.55

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		11.07
Appendix I	Metals	150	150		11.07
Appendix I	VOC	240	240		11.07
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	1114.32	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	99.72	Before purging	10/16/2023	11:31	66.77	1047.55		0.0	no
		After purging				1099.11			
		Top of Screen after construction				1024.60			
						74.51	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1014.60			
		Bottom of Well	10/16/2023		100.60	1013.72			
						-0.88	feet sedimentation		
		Before Sampling				1099.11			
		Before Sampling				1099.11			
		Recovery				1099.11			
		Recovery				1099.11			
		Recovery				1099.11			

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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)	2.07

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	8:26	12.29	1081.98	

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	10		2.07
Appendix I	Metals	150	150		2.07
Appendix I	VOC	240	240		2.07
Full Appendix II	10 more containers	5620			
TSS	TSS	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	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	29.15	Before purging	10/16/2023	8:26	12.29	1081.98	0	0.0	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	10/16/2023		30.83	1063.44			
						-1.68	feet sedimentation		
		Before Sampling				1094.27			
		Before Sampling				1094.27			
		Recovery				1094.27			
		Recovery				1094.27			
		Recovery				1094.27			

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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)	2.10

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	10:13	7.9	1078.17	

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		2.10
Appendix I	Metals	150	150		2.10
Appendix I	VOC	240	240		2.10
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	10/16/2023	10:13	7.90	1078.17	0	0.0	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	10/16/2023		31.00	1055.07			
						-0.15	feet sedimentation		
		Before Sampling				1086.07			
		Before Sampling				1086.07			
		Recovery				1086.07			
		Recovery				1086.07			
		Recovery				1086.07			

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Monitoring Well: MW-18 (ug)

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

GENERAL INFORMATION

TOC	1076.75
Well Depth	30.33
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1076.75
Well Depth	30.33
Top Screen	1051.42
Bottom Screen	1046.42
Bottom Well	1045.92
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	25.00
Top sample	1051.75
Bottom sample	1047.75
Turbidity(NTU)	3.08

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	9:35	14.95	1061.8	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		3.08
Appendix I	Metals	150	150		3.08
Appendix I	VOC	240	240		3.08
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	1076.75	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.33	Before purging	10/16/2023	9:35	14.95	1061.80	0	0.0	No
		After purging				1076.75			
		Top of Screen after construction				1051.42			
						25.33	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1046.42			
		Bottom of Well	10/16/2023		31.00	1045.75			
						-0.67	feet sedimentation		
		Before Sampling				1076.75			
		Before Sampling				1076.75			
		Recovery				1076.75			
		Recovery				1076.75			
		Recovery				1076.75			

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Monitoring Well: MW-19 (dg)

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

GENERAL INFORMATION

TOC	1076.82
Well Depth	16.90
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1076.82
Well Depth	16.90
Top Screen	1069.92
Bottom Screen	1059.92
Bottom Well	1059.42
Sampler Length (ft)	
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1076.82
Bottom sample	1076.82
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	Notes
10/16/2023		8.58	1068.24	Water Level Only

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			
Appendix I	Metals	150			
Appendix I	VOC	240			
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	1076.82	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	16.90	Before purging	10/16/2023		8.58	1068.24		0.0	No
		After purging				1076.82			
		Top of Screen after construction				1069.92			
						6.90	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1059.92			
		Bottom of Well				1076.82			
						16.90	feet sedimentation		
		Before Sampling				1076.82			
		Before Sampling				1076.82			
		Recovery				1076.82			
		Recovery				1076.82			
		Recovery				1076.82			

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Monitoring Well: MW-20 (dg)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1107.64
Well Depth	79.20
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1107.64
Well Depth	79.20
Top Screen	1033.44
Bottom Screen	1028.44
Bottom Well	1027.94
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	73.00
Top sample	1034.64
Bottom sample	1030.64
Turbidity(NTU)	2.39

Date	Time	Water Level	Water Elevation	Notes
10/16/2023	10:27	60.63	1047.01	

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		2.39
Appendix I	Metals	150	150		2.39
Appendix I	VOC	240	240		2.39
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	1107.64	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	79.20	Before purging	10/16/2023	10:27	60.63	1047.01	0	0.0	No
		After purging				1107.64			
		Top of Screen after construction				1033.44			
						74.20	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1028.44			
		Bottom of Well	10/16/2023		80.30	1027.34			
						-1.10	feet sedimentation		
		Before Sampling				1107.64			
		Before Sampling				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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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	
Top sample	1107.23
Bottom sample	1103.23
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation
10/16/2023	10:42	16.70	1090.53
	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		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	10/16/2023	10:42	16.70	1090.94	0	0.0	No
		After purging				1107.64			
		Top of Screen after construction				1099.73			
						7.91	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1089.73			
		Bottom of Well	10/16/2023		17.55	1089.68			
						-0.05	feet sedimentation		
		Before Sampling				1107.64			
		Before Sampling				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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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
10/16/2023		20.64	1061.44
	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	10/16/2023	0:00	20.64	1061.44	0	0.0	no
		After purging				1107.64			
		Top of Screen after construction				1070.67			
						36.97	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1060.67			
		Bottom of Well	10/16/2023		21.65	1060.43			
						-0.24	feet sedimentation		
		Before Sampling				1107.64			
		Before Sampling				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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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)	3.97

Date	Time	Water Level	Water Elevation
10/16/2023	12:50	6.92	1082.08

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		3.97
Appendix I	Metals	150	150		3.97
Appendix I	VOC	240	240		3.97
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	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.60	Before purging	10/16/2023	12:50	6.92	1082.08		0.0	
		After purging				1107.64			
		Top of Screen after construction				1079.40			
						28.24	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1069.40			
		Bottom of Well	10/16/2023		20.00	1069.00			
						-0.40	feet sedimentation		
		Before Sampling				1107.64	App I		
		Before Sampling				1107.64	App II		
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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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	14.50
Top sample	1072.43
Bottom sample	1068.43
Turbidity(NTU)	1.50

Date	Time	Water Level	Water Elevation
10/16/2023	8:57	13.45	1073.48

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.50
Appendix I	Metals	150	150		1.50
Appendix I	VOC	240	240		1.50
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	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.64	Before purging	10/16/2023	8:57	13.45	1073.48		0.0	
		After purging				1107.64			
		Top of Screen after construction				1077.29			
						30.35	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1067.29			
		Bottom of Well	10/16/2023		19.95	1066.98			
						-0.31	feet sedimentation		
		Before Sampling				1107.64	App I		
		Before Sampling				1107.64	App II		
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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Monitoring Well: MW-27 (dg)

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

GENERAL INFORMATION

TOC	1083.5
Well Depth	19.50
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	1083.5
Well Depth	19.70
Top Screen	1074.00
Bottom Screen	1064.00
Bottom Well	1063.00
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1083.50
Bottom sample	1079.50
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	
10/16/2023		15.88	1067.62	Water Level Only

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			
Appendix I	Metals	150			
Appendix I	VOC	240			
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	1083.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.50	Before purging	10/16/2023	0:00	15.88	1091.76		0.0	
		After purging				1107.64			
		Top of Screen after construction				1074.00			
						33.64	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1064.00			
		Bottom of Well				1083.50			
						19.50	feet sedimentation		
		Before Sampling				1107.64			
		Before Sampling				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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Monitoring Well: MW-28 (dg)

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

GENERAL INFORMATION

TOC	1083.5
Well Depth	19.50
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	1083.5
Well Depth	19.70
Top Screen	1074.00
Bottom Screen	1064.00
Bottom Well	1063.00
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1083.50
Bottom sample	1079.50
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	
10/16/2023		14	1069.5	Water Level Only

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.00
Appendix I	Metals	150	150		0.00
Appendix I	VOC	240	240		0.00
Full Appendix II	10 more containers	5620			
TSS	TSS	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	1083.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.50	Before purging	10/16/2023	0:00	14	1093.64		0.0	No
		After purging				1107.64			
		Top of Screen after construction				1074.00			
						33.64	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1064.00			
		Bottom of Well				1083.50			
						19.50	feet sedimentation		
		Before Sampling				1107.64			
		Before Sampling				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			
		Recovery				1107.64			

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Monitoring Well: OW-30 (dg)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1101.77
Well Depth	19.90
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1101.77
Well Depth	19.90
Top Screen	1091.87
Bottom Screen	1081.87
Bottom Well	1081.87
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1101.77
Bottom sample	1097.77
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation
10/16/2023		11.5	1090.27

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			
Appendix I	Metals	150			
Appendix I	VOC	240			
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	1101.77	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.90	Before purging	10/16/2023	0:00	11.50	1090.27		0.0	No
		After purging				1101.77			
		Top of Screen after construction				1091.87			
						9.90	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1081.87			
		Bottom of Well				1101.77			
						19.90	feet sedimentation		
		Before Sampling				1101.77			
		Before Sampling				1101.77			
		Recovery				1101.77			
		Recovery				1101.77			
		Recovery				1101.77			

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Monitoring Well: MW-31 (dg)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1071.7
Well Depth	15.00
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1071.7
Well Depth	15.00
Top Screen	1061.70
Bottom Screen	1056.70
Bottom Well	1054.30
Sampler Length (ft)	
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1071.70
Bottom sample	1071.70
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	
10/16/2023		13.68	1058.02	Water Level Only

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			
Appendix I	Metals	150			
Appendix I	VOC	240			
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	1071.7	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	15.00	Before purging	10/16/2023	0:00	13.68	1058.02		0.0	No
		After purging				1071.70			
		Top of Screen after construction				1061.70			
						10.00	feet above (+) or below (-) top screen		
		Bottom of Well after construction				1056.70			
		Bottom of Well				1071.70			
						15.00	feet sedimentation		
		Before Sampling				1071.70			
		Before Sampling				1071.70			
		Recovery				1071.70			
		Recovery				1071.70			
		Recovery				1071.70			

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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	12.60
Top sample	1065.75
Bottom sample	1061.75
Turbidity(NTU)	72.86

red

Date	Time	Water Level	Water Elevation
10/16/2023	14:00	12.69	1065.66

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		72.86
Appendix I	Metals	150	150		72.86
Appendix I	VOC	240	240		72.86
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	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	16.80	Before purging	10/16/2023	14:00	12.69	1065.66	0	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	10/16/2023		16.80	1061.55			
						0.00	feet sedimentation		
		Before Sampling				1078.35			
		Before Sampling				1078.35			
		Recovery				1078.35			
		Recovery				1078.35			
		Recovery				1078.35			

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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	15.00
Top sample	1067.11
Bottom sample	1063.11
Turbidity(NTU)	57.47

red

Date	Time	Water Level	Water Elevation
10/16/2023	14:17	15.09	1067.02

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		57.47
Appendix I	Metals	150	150		57.47
Appendix I	VOC	240	240		57.47
Full Appendix II	10 more containers	5620		3000	
TSS	TSS	250			
Supplemental		250			
Supplemental		120			
Total			400	3000	

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	10/16/2023	14:17	15.09	1067.02	4	17.4	yes
		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	10/16/2023		16.50	1065.61			
						0.00	feet sedimentation		
		Before Sampling				1082.11			
		Before Sampling				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
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5	<5	<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
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1
2-butanone	ug/L	<5	<5	<5	<10	<10	<10	<10
2-hexanone	ug/L	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone	ug/L	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2						
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	557						
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4						
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8						
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8						
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	4.9						
Copper, total	ug/L	<4						
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1
Iodomethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4						
Methylene chloride	ug/L	<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
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<2						
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20						
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20						

* - 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
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	99.6	129.0
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
Chloride		4.4
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	<.4000	.7000
COD, total		<20
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
Nitrogen, Ammonia		<.1
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 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
(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 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
Antimony, total	<2.000	<2.000	<2.000
Arochlor 1016			
Arochlor 1221			
Arochlor 1232			
Arochlor 1242			
Arochlor 1248			
Arochlor 1254			
Arochlor 1260			
Arsenic, total	<4.000	<4.000	<4.000
Azobenzene			
Barium, total	131.0	141.0	133.0
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			
Chloride			28.9
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	.4000	<.4000	<.4000
COD, total			<20
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			

* - 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
Heptachlor epoxide			
Hexachlorobenzene			
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	<4.0	<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
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 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
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	109.0	111.0
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
Chloride		24.1
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
COD, total		<20
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	<4.0	<4.0
Methylene chloride	<5.00	<5.00
Nickel, total	<4.000	<4.000
Nitrogen, Ammonia		<.1
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 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 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
(3 4)-methylphenol	
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
1,1-dichloropropene	
1,2,3-trichloropropane	<1.00
1,2,4,5-tetrachlorobenzene	
1,2,4-trichlorobenzene	
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
1,2-dinitrobenzene	
1,3,5-trinitrobenzene	
1,3-dichlorobenzene	
1,3-dichloropropane	
1,3-dinitrobenzene	
1,4-dichlorobenzene	<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
2-chloronaphthalene	
2-chlorophenol	
2-hexanone	<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
4-nitroaniline	
4-nitrophenol	
5-nitro-o-toluidine	
7,12-dimethylbenz [a] anthracene	
Acenaphthene	
Acenaphthylene	
Acetone	<10.00
Acetonitrile	
Acetophenone	
Acrolein	
Acrylonitrile	<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
Antimony, total	<2.000
Arochlor 1016	
Arochlor 1221	
Arochlor 1232	
Arochlor 1242	
Arochlor 1248	
Arochlor 1254	
Arochlor 1260	
Arsenic, total	<4.0
Azobenzene	
Barium, total	389
Benzene	<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
Beta-bhc	
Bis (2-chloroethoxy) methane	
Bis(2-chloroethyl) ether	
Bis(2-ethylhexyl) phthalate	
Bis[2-chloroisopropyl]ether	
Bromochloromethane	<1.00
Bromodichloromethane	<1.00
Bromoform	<1.00
Bromomethane	<1.00
Butyl benzyl phthalate	
Cadmium, total	<.800
Carbon disulfide	<1.00
Carbon tetrachloride	<1.00
Chlordane	
Chlorobenzene	<1.00
Chlorobenzilate	
Chloroethane	<1.00
Chloroform	<1.00
Chloromethane	<1.00
Chloroprene	
Chromium, total	<8.00
Chrysene	
Cis-1,2-dichloroethylene	<1.00
Cis-1,3-dichloropropene	<1.00
Cobalt, total	.80
Copper, total	<4.000
Cyanide, total	
Delta-bhc	
Diallate	
Dibenzo(a,h)anthracene	
Dibenzofuran	
Dibromochloromethane	<1.0
Dibromomethane	<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
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
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Hexachloropropene	
Indeno(1,2,3-cd)pyrene	
Iodomethane	<1.0
Isobutanol	
Isodrin	
Isophorone	
Isosafrole	
Kepone	
Lead, total	<4.0000
Mercury, total	
Methacrylonitrile	
Methapyrilene	
Methoxychlor	
Methyl methacrylate	
Methyl methanesulfonate	
Methyl parathion	
Methylene chloride	<5.00
Naphthalene	
Nickel, total	27.6
Nitrobenzene	
N-nitrosodiethylamine	
N-nitrosodimethylamine	
N-nitrosodi-n-butylamine	
N-nitroso-di-n-propylamine	
N-nitrosodiphenylamine	
N-nitrosomethylethylamine	
N-nitrosopiperidine	
N-nitrosopyrrolidine	
O,o,o-triethyl phosphorothioate	
O-toluidine	
P-(dimethylamino)azobenzene	
Parathion	
Pentachlorobenzene	
Pentachloronitrobenzene (pcnb)	
Pentachlorophenol	
Phenacetin	
Phenanthrene	
Phenol	
Phorate	
Pronamide	
Propionitrile	
Pyrene	
Safrole	
Selenium, total	<4.00
Silver, total	<4.000
Styrene	<1.0
Sulfide, total	
Tetrachloroethylene	<1.00
Thallium, total	<2.0000
Thionazin	
Tin, total	
Toluene	<1.00
Total suspended solids	
Toxaphene	
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
Vinyl acetate	<5.00
Vinyl chloride	<1.0
Xylenes, total	<2.00
Zinc, total	<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
(3 4)-methylphenol	<8	
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	
1,2,3-trichloropropane	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	<8	
1,2,4-trichlorobenzene	<1	
1,2-dibromo-3-chloropropane	<1.00	<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	<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
1,4-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
2-chloronaphthalene	<8	
2-chlorophenol	<8	
2-hexanone	<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
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
Acetonitrile	<10	
Acetophenone	<8	
Acrolein	<10	
Acrylonitrile	<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
Antimony, total	<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
Azobenzene	<8	
Barium, total	102.0	103.0
Benzene	<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
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
Bromodichloromethane	<1.00	<1.00
Bromoform	<1.00	<1.00
Bromomethane	<1.00	<1.00
Butyl benzyl phthalate	<8	
Cadmium, total	<.800	<.800
Carbon disulfide	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00
Chlordane	<.1	
Chloride		21.3
Chlorobenzene	<1.00	<1.00
Chlorobenzilate	<8	
Chloroethane	<1.00	<1.00
Chloroform	<1.00	<1.00
Chloromethane	<1.00	<1.00
Chloroprene	<1	
Chromium, total	<8.00	<8.00
Chrysene	<8	
Cis-1,2-dichloroethylene	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00
Cobalt, total	.60	<.40
COD, total		<20
Copper, total	<4.00	<4.00
Cyanide, total	<.005	
Delta-bhc	<.05	
Diallate	<8	
Dibenzo(a,h)anthracene	<8	
Dibenzofuran	<8	
Dibromochloromethane	<1.0	<1.0
Dibromomethane	<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
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
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
Isobutanol	<1	
Isodrin	<8	
Isophorone	<8	
Isosafrole	<8	
Kepone	<8	
Lead, total	<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
Naphthalene	<8	
Nickel, total	<4.0	<4.0
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
Silver, total	<4.000	<4.000
Styrene	<1.0	<1.0
Sulfide, total	<.1	
Tetrachloroethylene	<1.00	<1.00
Thallium, total	<2	<2
Thionazin	<.4	
Tin, total	<20	
Toluene	<1.00	<1.00
Total suspended solids		
Toxaphene	<.2	
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 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
(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	<5.00	<5.00	<1.00	<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	<10.00	<10.00	<5.00	<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	27.10
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 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
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	<4.000	<4.000
Azobenzene			<8	
Barium, total	32.3	41.1	27.5	46.5
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			18	<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				19.9
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	.6	.9	<.4	13.6
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 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
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
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	7.30	<4.00	9.30
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	<2.0000	<2.0000	<2.0000	<2.0000
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 14

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 14

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
(3 4)-methylphenol		<8		<8		
1,1,1,2-tetrachloroethane		<1	<1	<1	<1	<1
1,1,1-trichloroethane		<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane		<1	<1	<1	<1	<1
1,1,2-trichloroethane		<1	<1	<1	<1	<1
1,1-dichloroethane		<1	<1	<1	<1	<1
1,1-dichloroethylene		<1	<1	<1	<1	<1
1,1-dichloropropene		<1		<1		
1,2,3-trichloropropane		<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
1,2-dibromoethane		<1	<1	<1	<1	<1
1,2-dichlorobenzene		<1	<1	<1	<1	<1
1,2-dichloroethane		<1	<1	<1	<1	<1
1,2-dichloropropane		<1	<1	<1	<1	<1
1,2-dinitrobenzene		<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
1,4-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
2-chloronaphthalene		<8		<8		
2-chlorophenol		<8		<8		
2-hexanone		<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
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
Acetonitrile		<10		<10		
Acetophenone		<8		<8		
Acrolein		<10		<10		
Acrylonitrile		<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 14

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 14

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
Antimony, total		<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
Azobenzene		<8		<8		
Barium, total	219	197	206	281	344	460
Benzene		<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
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
Bromodichloromethane		<1	<1	<1	<1	<1
Bromoform		<1	<1	<1	<1	<1
Bromomethane		<1	<1	<1	<1	<1
Butyl benzyl phthalate		<8		<8		
Cadmium, total		<.8	<.8	<.8	<.8	<.8
Carbon disulfide		<1	<1	<1	<1	<1
Carbon tetrachloride		<1	<1	<1	<1	<1
Chlordane		<.1		<.1		
Chloride						26.9
Chlorobenzene		<1	<1	<1	<1	<1
Chlorobenzilate		<8		<8		
Chloroethane		<1	<1	<1	<1	<1
Chloroform		<1	<1	<1	<1	<1
Chloromethane		<1	<1	<1	<1	<1
Chloroprene		<1		<1		
Chromium, total		<8	<8	<8	<8	<8
Chrysene		<8		<8		
Cis-1,2-dichloroethylene		<1	<1	<1	<1	<1
Cis-1,3-dichloropropene		<1	<1	<1	<1	<1
Cobalt, total		<.4	.4	2.3	.6	<.4
COD, total						<20
Copper, total		<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
Dibromomethane		<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
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 14

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	<4	<4	<4	<4	<4	<4
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 14

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
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
Isobutanol		<1		<1		
Isodrin		<8		<8		
Isophorone		<8		<8		
Isosafrole		<8		<8		
Kepone		<8		<8		
Lead, total		<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
Naphthalene		<8		<8		
Nickel, total		<4	<4	<4	<4	<4
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
Silver, total		<4	<4	<4	<4	<4
Styrene		<1	<1	<1	<1	<1
Sulfide, total		<.1		<.3		
Tetrachloroethylene		<1	<1	<1	<1	<1
Thallium, total		<2	<2	<2	<2	<2
Thionazin		<.4		<.4		
Tin, total		<20		<20		
Toluene		<1	<1	<1	<1	<1
Toxaphene		<.2		<.2		
Trans-1,2-dichloroethylene		<1	<1	<1	<1	<1
Trans-1,3-dichloropropene		<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene		<5	<5	<5	<5	<5
Trichloroethylene		<1	<1	<1	<1	<1
Trichlorofluoromethane		<1	<1	<1	<1	<1
Vanadium, total		<20	<20	<20	<20	<20
Vinyl acetate		<5	<5	<5	<5	<5
Vinyl chloride		<1	<1	<1	<1	<1
Xylenes, total		<2	<2	<2	<2	<2
Zinc, total		<20	<20	<20	<20	<20

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

Table 15

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 15

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
(3 4)-methylphenol					<8		<8
1,1,1,2-tetrachloroethane	<1	<1	<1		<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1		<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1		<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1		<1	<1	<1
1,1-dichloroethane	<1	<1	<1		<1	<1	<1
1,1-dichloroethylene	<1	<1	<1		<1	<1	<1
1,1-dichloropropene					<1		<1
1,2,3-trichloropropane	<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
1,2-dibromoethane	<1	<1	<1		<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1		<1	<1	<1
1,2-dichloroethane	<1	<1	<1		<1	<1	<1
1,2-dichloropropane	<1	<1	<1		<1	<1	<1
1,2-dinitrobenzene					<8		<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
1,4-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
2-chloronaphthalene					<8		<8
2-chlorophenol					<8		<8
2-hexanone	<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
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
Acetonitrile					<10		<10
Acetophenone					<8		<8
Acrolein					<10		<10
Acrylonitrile	<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 15

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 15

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
Antimony, total	<2.0	<2.0	<2.0		<2.0	<2.0	2.8
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
Azobenzene					<8		<8
Barium, total	127	103	150		226	160	972
Benzene	<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
Beta-bhc					<.06		
Bis (2-chloroethoxy) methane					<8		<8
Bis(2-chloroethyl) ether					<8		<8
Bis(2-ethylhexyl) phthalate					55	<6	<6
Bis[2-chloroisopropyl]ether					<8		<8
Bromochloromethane	<1	<1	<1		<1	<1	<1
Bromodichloromethane	<1	<1	<1		<1	<1	<1
Bromoform	<1	<1	<1		<1	<1	<1
Bromomethane	<1	<1	<1		<1	<1	<1
Butyl benzyl phthalate					<8		<8
Cadmium, total	<.8	<.8	<.8		<.8	.9	6.5
Carbon disulfide	<1	<1	<1		<1	<1	<1
Carbon tetrachloride	<1	<1	<1		<1	<1	<1
Chlordane					<.13		
Chloride							26.1
Chlorobenzene	<1	<1	<1		<1	<1	<1
Chlorobenzilate					<8		<8
Chloroethane	<1	<1	<1		<1	<1	<1
Chloroform	<1	<1	<1		<1	<1	<1
Chloromethane	<1	<1	<1		<1	<1	<1
Chloroprene					<1		<1
Chromium, total	<8	<8	<8		<8	<8	<8
Chrysene					<8		<8
Cis-1,2-dichloroethylene	<1	<1	<1		<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1		<1	<1	<1
Cobalt, total	<.4	.5	1.9	2.0	16.1	1.4	149.0
COD, total							24
Copper, total	<4.0	<4.0	<4.0		<4.0	<4.0	8.3
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
Dibromomethane	<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
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 15

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 15

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
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
Isobutanol					<1		<1
Isodrin					<8		<8
Isophorone					<8		<8
Isosafrole					<8		<8
Kepone					<8		<8
Lead, total	<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
Naphthalene					<8		<8
Nickel, total	<4.0	<4.0	<4.0		5.1	5.8	46.9
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
Silver, total	<4	<4	<4		<4	<4	<4
Styrene	<1	<1	<1		<1	<1	<1
Sulfide, total					<.1		<.1
Tetrachloroethylene	<1	<1	<1		<1	<1	<1
Thallium, total	<2	<2	<2		<2	<2	<2
Thionazin					<.4		
Tin, total					<20		<20
Toluene	<1	<1	<1		<1	<1	<1
Toxaphene					<.25		
Trans-1,2-dichloroethylene	<1	<1	<1		<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1		<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5		<5	<5	<5
Trichloroethylene	<1	<1	<1		<1	<1	<1
Trichlorofluoromethane	<1	<1	<1		<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0		<20.0	<20.0	92.7
Vinyl acetate	<5	<5	<5		<5	<5	<5
Vinyl chloride	<1	<1	<1		<1	<1	<1
Xylenes, total	<2	<2	<2		<2	<2	<2
Zinc, total	<20	<20	<20		<20	<20	<20

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

Table 16

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 16

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 16

Analytical Data Summary for MW-5

Constituents	10/25/2022	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			
Alkalinity, as CaCO3	612		663
Allyl chloride			
Alpha-bhc			

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

Table 16

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	mg/L								
Ethene	mg/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 16

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			<.01						
Ethene			<.01						
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 16

Analytical Data Summary for MW-5

Constituents	10/25/2022	4/3/2023	10/16/2023
Anthracene			
Antimony, total	<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
Azobenzene			
Barium, total	763.0	234.0	509.0
Benzene	5.40	6.50	4.50
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			
Chloride			3.6
Chlorobenzene	1.10	1.10	1.00
Chlorobenzilate			
Chloroethane	3.80	5.60	4.00
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	1.80	1.80	1.60
Cis-1,3-dichloropropene	<1.00	<1.00	<1.00
Cobalt, total	.50	.60	.90
COD, total			44
Copper, total	<4.00	<4.00	<4.00
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			
Ethane			
Ethene			
Ethyl methacrylate			
Ethyl methanesulfonate			
Ethylbenzene	2.70	<1.00	<1.00
Famphur			
Fluoranthene			

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

Table 16

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	mg/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 16

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			5.06						
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 16

Analytical Data Summary for MW-5

Constituents	10/25/2022	4/3/2023	10/16/2023
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
Isobutanol			
Isodrin			
Isophorone			
Isosafrole			
Kepone			
Lead, total	<4.000	<4.000	<4.000
Mercury, total			
Methacrylonitrile			
Methane			
Methapyrilene			
Methoxychlor			
Methyl methacrylate			
Methyl methanesulfonate			
Methyl parathion			
Methylene chloride	<5.00	<5.00	<5.00
Naphthalene			
Nickel, total	<4.00	<4.00	<4.00
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
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	<.30	<.30	.17
Tetrachloroethylene	<1.00	<1.00	<1.00
Thallium, total	<2.0000	<2.0000	<2.0000
Thionazin			
Tin, total			
Toluene	6.5	<1.0	<1.0
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	<20.00	<20.00	<20.00
Vinyl acetate	<5.00	<5.00	<5.00
Vinyl chloride	<1.0	1.2	<1.0
Xylenes, total	<2.0	<2.0	<2.0
Zinc, total	<20.0	<20.0	<20.0

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

Table 17

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 17

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 17

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 17

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 17

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 17

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 17

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 17

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 17

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 18

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 18

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 18

Analytical Data Summary for MW-7

Constituents	10/25/2022	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 18

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 18

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 18

Analytical Data Summary for MW-7

Constituents	10/25/2022	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	<4.000	<4.000	<4.000
Azobenzene			
Barium, total	33.9	36.9	36.0
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			
Chloride			14.9
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	1.0000	<.4000	<.4000
COD, total			<20
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			

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

Table 18

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 18

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 18

Analytical Data Summary for MW-7

Constituents	10/25/2022	4/3/2023	10/16/2023
Heptachlor epoxide			
Hexachlorobenzene			
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	<4.0	<4.0	<4.0
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
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	23.7	27.5	<20.0

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

Table 19

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 19

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 19

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 20

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 20

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 20

Analytical Data Summary for MW-9

Constituents	4/3/2023	10/16/2023
(3 4)-methylphenol	<8	
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	<1
1,1-dichloroethylene	<1.00	<1.00
1,1-dichloropropene	<1	
1,2,3-trichloropropane	<1.00	<1.00
1,2,4,5-tetrachlorobenzene	<8	
1,2,4-trichlorobenzene	<1	
1,2-dibromo-3-chloropropane	<1.00	<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	<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
1,4-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
2-chloronaphthalene	<8	
2-chlorophenol	<8	
2-hexanone	<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
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
Acetonitrile	<10	
Acetophenone	<8	
Acrolein	<10	
Acrylonitrile	<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 20

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 20

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 20

Analytical Data Summary for MW-9

Constituents	4/3/2023	10/16/2023
Antimony, total	<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
Azobenzene	<8	
Barium, total	334	435
Benzene	<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
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
Bromodichloromethane	<1.00	<1.00
Bromoform	<1.00	<1.00
Bromomethane	<1.00	<1.00
Butyl benzyl phthalate	<8	
Cadmium, total	<.8	<.8
Carbon disulfide	<1.00	<1.00
Carbon tetrachloride	<1.00	<1.00
Chlordane	<.1	
Chloride		74.1
Chlorobenzene	<1.00	<1.00
Chlorobenzilate	<8	
Chloroethane	<1.00	<1.00
Chloroform	<1.00	<1.00
Chloromethane	<1.00	<1.00
Chloroprene	<1	
Chromium, total	<8.00	<8.00
Chrysene	<8	
Cis-1,2-dichloroethylene	<1.00	<1.00
Cis-1,3-dichloropropene	<1.00	<1.00
Cobalt, total	1.10	1.70
COD, total		<20
Copper, total	<4.0	<4.0
Cyanide, total	<.005	
Delta-bhc	<.05	
Diallate	<8	
Dibenzo(a,h)anthracene	<8	
Dibenzofuran	<8	
Dibromochloromethane	<1.0	<1.0
Dibromomethane	<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
Famphur	<.4	
Fluoranthene	<8	
Fluorene	<8	
Gamma-bhc [lindane]	<.05	
Heptachlor	<.05	

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

Table 20

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 20

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 20

Analytical Data Summary for MW-9

Constituents	4/3/2023	10/16/2023
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
Isobutanol	<1	
Isodrin	<8	
Isophorone	<8	
Isosafrole	<8	
Kepone	<8	
Lead, total	<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
Naphthalene	<8	
Nickel, total	<4.00	8.40
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
Silver, total	<4.000	<4.000
Styrene	<1.0	<1.0
Sulfide, total	<.3	
Tetrachloroethylene	<1.00	<1.00
Thallium, total	<2	<2
Thionazin	<.4	
Tin, total	<20	
Toluene	<1.00	<1.00
Total suspended solids		
Toxaphene	<.2	
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.

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 2023

Prepared for:
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May 2023

INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the first semi-annual monitoring event in 2023 at the 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 2023 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

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

Results of the Interwell Statistics – Shallow Zone

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 2023

Well	Trace Metal	Result	Prediction Limit	Prediction Limit Type	Verified or Awaiting Verification
MW-24	Barium, µg/L	389	202.4269	Normal	Verified
	Nickel, µg/L	27.6	4.3000	Nonparametric	Verified
MW-32	Barium, µg/L	344	202.4269	Normal	Verified
MW-33	Cadmium, µg/L	0.9	0.8000	Nonparametric	Awaiting Verification
	Cobalt, µg/L	1.4	0.8000	Nonparametric	Verified
	Nickel, µg/L	5.8	4.3000	Nonparametric	Verified
MW-9	Arsenic, µg/L	4.5	4.0000	Nonparametric	Verified
	Barium, µg/L	334	202.4269	Normal	Verified
	Cobalt, µg/L	1.1	0.8000	Nonparametric	Awaiting Verification

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. 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.

Results of the Interwell Statistics – Deep Zone

The previous background data used in the statistical analysis included the ground water data collected from ground water wells MW-11, MW-14R, MW-18, and MW-20 during the period from October 2007 through the current data. The October 2007 and January 2008 data from well MW-18 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-11, MW-14R, MW-18, and MW-20 during the period from October 2014 through the current data. A summary of the background data from monitoring wells MW-11, MW-14R, MW-18, and MW-20, used to determine the site prediction limits, is listed in Attachment C, Table 1 "Upgradient Data". This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances.

Table 2 "Most Current Downgradient Monitoring Data", summarizes the current data from downgradient wells MW-6, MW-8, and MW-10, compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the most current data, there were no site prediction limit exceedances detected.

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 previous verified exceedances were evaluated against the ground water protection standards (GWPS) using confidence limits. 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 2023 are summarized below.

Organic compounds detected during the first semi-annual monitoring event in 2023

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Groundwater Standard, µg/L
MW-25	Bis(2-ethylhexyl)phthalate	15.0	6	Awaiting Verification	6[a]
MW-26	Bis(2-ethylhexyl)phthalate	18.0	6	Awaiting Verification	6[a]
MW-5	Benzene	6.5	1	Verified	5[a]
	Chlorobenzene	1.1	1	Verified	100[a]
	Chloroethane	5.6	1	Verified	2800[b]
	cis-1,2-Dichloroethene	1.8	1	Verified	70[a]
	Vinyl chloride	1.2	1	Awaiting Verification	2[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 2023

Table 1

Analytical Data Summary for 4/3/2023

Constituents	Units	ACM TILE 1	MW-10	MW-11	MW-12	MW-14R	MW-16	MW-17	MW-18	MW-20	MW-21
(3 4)-methylphenol	ug/L										
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	<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-dichloropropene	ug/L										
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L										
1,2,4-trichlorobenzene	ug/L										
1,2-dibromo-3-chloropropane	ug/L	<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
1,2-dinitrobenzene	ug/L										
1,3,5-trinitrobenzene	ug/L										
1,3-dichlorobenzene	ug/L										
1,3-dichloropropane	ug/L										
1,3-dinitrobenzene	ug/L										
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chloronaphthalene	ug/L										
2-chlorophenol	ug/L										
2-hexanone	ug/L	<5	<5	<5	<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	<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	<10	<10	<10
Acetonitrile	ug/L										
Acetophenone	ug/L										
Acrolein	ug/L										
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L										
Allyl chloride	ug/L										
Alpha-bhc	ug/L										
Anthracene	ug/L										

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

Table 1

Analytical Data Summary for 4/3/2023

Constituents	MW-24	MW-25	MW-26	MW-32	MW-33	MW-5	MW-6	MW-7	MW-8	MW-9	PECS-1
(3 4)-methylphenol		<8	<8							<8	
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene		<1	<1							<1	
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene		<8	<8							<8	
1,2,4-trichlorobenzene		<1	<1							<1	
1,2-dibromo-3-chloropropane	<5	<1	<1	<5	<5	<5	<5	<5	<5	<1	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene		<8	<8							<8	
1,3,5-trinitrobenzene		<8	<8							<8	
1,3-dichlorobenzene		<1	<1							<1	
1,3-dichloropropane		<1	<1							<1	
1,3-dinitrobenzene		<8	<8							<8	
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone		<8	<8							<8	
1,4-phenylenediamine		<8	<8							<8	
1-naphthylamine		<8	<8							<8	
2,2-dichloropropane		<1	<1							<1	
2,3,4,6-tetrachlorophenol		<8	<8							<8	
2,4,5-t		<.5	<.5							<.5	
2,4,5-tp (silvex)		<.5	<.5							<.5	
2,4,5-trichlorophenol		<8	<8							<8	
2,4,6-trichlorophenol		<8	<8							<8	
2,4-d		<2	<2							<2	
2,4-dichlorophenol		<8	<8							<8	
2,4-dimethylphenol		<8	<8							<8	
2,4-dinitrophenol		<8	<8							<8	
2,4-dinitrotoluene		<8	<8							<8	
2,6-dichlorophenol		<8	<8							<8	
2,6-dinitrotoluene		<8	<8							<8	
2-acetylaminofluorene		<8	<8							<8	
2-butanone	<10	<5	<5	<10	<10	<10	<10	<10	<10	<5	<10
2-chloronaphthalene		<8	<8							<8	
2-chlorophenol		<8	<8							<8	
2-hexanone	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene		<8	<8							<8	
2-methylphenol (o-cresol)		<8	<8							<8	
2-naphthylamine		<8	<8							<8	
2-nitroaniline		<8	<8							<8	
2-nitrophenol		<8	<8							<8	
3,3´-dichlorobenzidine		<8	<8							<8	
3,3'-dimethylbenzidine		<8	<8							<8	
3-methylcholanthrene		<8	<8							<8	
3-nitroaniline		<8	<8							<8	
4,4`-ddd		<.05	<.05							<.05	
4,4`-dde		<.05	<.05							<.05	
4,4`-ddt		<.05	<.05							<.05	
4,6-dinitro-2-methylphenol		<8	<8							<8	
4-aminobiphenyl		<8	<8							<8	
4-bromophenyl phenyl ether		<8	<8							<8	
4-chloro-3-methylphenol		<8	<8							<8	
4-chloroaniline		<8	<8							<8	
4-chlorophenyl phenyl ether		<8	<8							<8	
4-methyl-2-pentanone	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline		<8	<8							<8	
4-nitrophenol		<8	<8							<8	
5-nitro-o-toluidine		<8	<8							<8	
7,12-dimethylbenz [a] anthracene		<8	<8							<8	
Acenaphthene		<8	<8							<8	
Acenaphthylene		<8	<8							<8	
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile		<10	<10							<10	
Acetophenone		<8	<8							<8	
Acrolein		<10	<10							<10	
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin		<.05	<.05							<.05	
Allyl chloride		<1	<1							<1	
Alpha-bhc		<.05	<.05							<.05	
Anthracene		<8	<8							<8	

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

Table 1

Analytical Data Summary for 4/3/2023

Constituents	Units	ACM TILE 1	MW-10	MW-11	MW-12	MW-14R	MW-16	MW-17	MW-18	MW-20	MW-21
Antimony, total	ug/L		<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L										
Arochlor 1221	ug/L										
Arochlor 1232	ug/L										
Arochlor 1242	ug/L										
Arochlor 1248	ug/L										
Arochlor 1254	ug/L										
Arochlor 1260	ug/L										
Arsenic, total	ug/L	<4.0	<4.0	<4.0	<4.0	8.7	<4.0	<4.0	<4.0	<4.0	<4.0
Azobenzene	ug/L										
Barium, total	ug/L		34.5	52.1	99.6	88.9	141.0	109.0	432.0	108.0	41.9
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene	ug/L										
Benzo(a)pyrene	ug/L										
Benzo(b)fluoranthene	ug/L										
Benzo(g,h,i)perylene	ug/L										
Benzo(k)fluoranthene	ug/L										
Benzyl alcohol	ug/L										
Beryllium, total	ug/L		<4	<4	<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	<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
Butyl benzyl phthalate	ug/L										
Cadmium, total	ug/L		<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L										
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzilate	ug/L										
Chloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L										
Chromium, total	ug/L		<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene	ug/L										
Cis-1,2-dichloroethylene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L		<.4	1.0	<.4	<.4	<.4	<.4	<.4	.5	<.4
Copper, total	ug/L		<4	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide, total	mg/L										
Delta-bhc	ug/L										
Diallate	ug/L										
Dibenzo(a,h)anthracene	ug/L										
Dibenzofuran	ug/L										
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L										
Dieldrin	ug/L										
Diethyl phthalate	ug/L										
Dimethoate	ug/L										
Dimethylphthalate	ug/L										
Di-n-butyl phthalate	ug/L										
Di-n-octyl phthalate	ug/L										
Dinoseb	ug/L										
Diphenylamine	ug/L										
Disulfoton	ug/L										
Endosulfan i	ug/L										
Endosulfan ii	ug/L										
Endosulfan sulfate	ug/L										
Endrin	ug/L										
Endrin aldehyde	ug/L										
Ethyl methacrylate	ug/L										
Ethyl methanesulfonate	ug/L										
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L										
Fluoranthene	ug/L										
Fluorene	ug/L										
Gamma-bhc [lindane]	ug/L										
Heptachlor	ug/L										
Heptachlor epoxide	ug/L										
Hexachlorobenzene	ug/L										

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

Table 1

Analytical Data Summary for 4/3/2023

Constituents	MW-24	MW-25	MW-26	MW-32	MW-33	MW-5	MW-6	MW-7	MW-8	MW-9	PECS-1
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Arochlor 1016		<.1	<.1							<.1	
Arochlor 1221		<.2	<.2							<.2	
Arochlor 1232		<.2	<.2							<.2	
Arochlor 1242		<.2	<.2							<.2	
Arochlor 1248		<.2	<.2							<.2	
Arochlor 1254		<.1	<.1							<.1	
Arochlor 1260		<.1	<.1							<.1	
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0	21.4	<4.0	<4.0	<4.0	4.5	
Azobenzene		<8	<8							<8	
Barium, total	389.0	102.0	27.5	344.0	160.0	234.0	90.3	36.9	46.6	334.0	
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	6.5	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene		<8	<8							<8	
Benzo(a)pyrene		<8	<8							<8	
Benzo(b)fluoranthene		<8	<8							<8	
Benzo(g,h,i)perylene		<8	<8							<8	
Benzo(k)fluoranthene		<8	<8							<8	
Benzyl alcohol		<8	<8							<8	
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Beta-bhc		<.05	<.05							<.05	
Bis (2-chloroethoxy) methane		<8	<8							<8	
Bis(2-chloroethyl) ether		<8	<8							<8	
Bis(2-ethylhexyl) phthalate		15	18		<6					<6	
Bis[2-chloroisopropyl]ether		<8	<8							<8	
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate		<8	<8							<8	
Cadmium, total	<.8	<.8	<.8	<.8	.9	<.8	<.8	<.8	<.8	<.8	
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane		<.1	<.1							<.1	
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzilate		<8	<8							<8	
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	5.6	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene		<1	<1							<1	
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	
Chrysene		<8	<8							<8	
Cis-1,2-dichloroethylene	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	.8	.6	<.4	.6	1.4	.6	<.4	<.4	<.4	1.1	
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Cyanide, total		<.005	<.005							<.005	
Delta-bhc		<.05	<.05							<.05	
Diallate		<8	<8							<8	
Dibenzo(a,h)anthracene		<8	<8							<8	
Dibenzofuran		<8	<8							<8	
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane		<1	<1							<1	
Dieldrin		<.05	<.05							<.05	
Diethyl phthalate		<8	<8							<8	
Dimethoate		<.4	<.4							<.4	
Dimethylphthalate		<8	<8							<8	
Di-n-butyl phthalate		<8	<8							<8	
Di-n-octyl phthalate		<8	<8							<8	
Dinoseb		<.5	<.5							<.5	
Diphenylamine		<8	<8							<8	
Disulfoton		<.4	<.4							<.4	
Endosulfan i		<.05	<.05							<.05	
Endosulfan ii		<.05	<.05							<.05	
Endosulfan sulfate		<.05	<.05							<.05	
Endrin		<.05	<.05							<.05	
Endrin aldehyde		<.05	<.05							<.05	
Ethyl methacrylate		<10	<10							<10	
Ethyl methanesulfonate		<8	<8							<8	
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur		<.4	<.4							<.4	
Fluoranthene		<8	<8							<8	
Fluorene		<8	<8							<8	
Gamma-bhc [lindane]		<.05	<.05							<.05	
Heptachlor		<.05	<.05							<.05	
Heptachlor epoxide		<.05	<.05							<.05	
Hexachlorobenzene		<.05	<.05							<.05	

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

Table 1

Analytical Data Summary for 4/3/2023

Constituents	Units	ACM TILE 1	MW-10	MW-11	MW-12	MW-14R	MW-16	MW-17	MW-18	MW-20	MW-21
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	<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	<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	<5	<5	<5
Naphthalene	ug/L										
Nickel, total	ug/L		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nitrobenzene	ug/L										
N-nitrosodiethylamine	ug/L										
N-nitrosodimethylamine	ug/L										
N-nitrosodi-n-butylamine	ug/L										
N-nitroso-di-n-propylamine	ug/L										
N-nitrosodiphenylamine	ug/L										
N-nitrosomethylethylamine	ug/L										
N-nitrosopiperidine	ug/L										
N-nitrosopyrrolidine	ug/L										
O,o,o-triethyl phosphorothioate	ug/L										
O-toluidine	ug/L										
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	<4	<4
Silver, total	ug/L		<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										
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
Thionazin	ug/L										
Tin, total	ug/L										
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L										
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<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
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
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	<20.0

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

Table 1

Analytical Data Summary for 4/3/2023

Constituents	MW-24	MW-25	MW-26	MW-32	MW-33	MW-5	MW-6	MW-7	MW-8	MW-9	PECS-1
Hexachlorobutadiene		<8	<8							<8	
Hexachlorocyclopentadiene		<8	<8							<8	
Hexachloroethane		<8	<8							<8	
Hexachloropropene		<8	<8							<8	
Indeno(1,2,3-cd)pyrene		<8	<8							<8	
Iodomethane	<1	<2	<2	<1	<1	<1	<1	<1	<1	<2	<1
Isobutanol		<1	<1							<1	
Isodrin		<8	<8							<8	
Isophorone		<8	<8							<8	
Isosafrole		<8	<8							<8	
Kepone		<8	<8							<8	
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Mercury, total		<.5	<.5							<.5	
Methacrylonitrile		<1	<1							<1	
Methapyrilene		<8	<8							<8	
Methoxychlor		<.05	<.05							<.05	
Methyl methacrylate		<1	<1							<1	
Methyl methanesulfonate		<8	<8							<8	
Methyl parathion		<.4	<.4							<.4	
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<8	<8							<8	
Nickel, total	27.6	<4.0	<4.0	<4.0	5.8	<4.0	<4.0	<4.0	<4.0	<4.0	
Nitrobenzene		<8	<8							<8	
N-nitrosodiethylamine		<8	<8							<8	
N-nitrosodimethylamine		<8	<8							<8	
N-nitrosodi-n-butylamine		<8	<8							<8	
N-nitroso-di-n-propylamine		<8	<8							<8	
N-nitrosodiphenylamine		<8	<8							<8	
N-nitrosomethylethylamine		<8	<8							<8	
N-nitrosopiperidine		<8	<8							<8	
N-nitrosopyrrolidine		<8	<8							<8	
O,o,o-triethyl phosphorothioate		<.4	<.4							<.4	
O-toluidine		<8	<8							<8	
P-(dimethylamino)azobenzene		<8	<8							<8	
Parathion		<.4	<.4							<.4	
Pentachlorobenzene		<8	<8							<8	
Pentachloronitrobenzene (pcnb)		<8	<8							<8	
Pentachlorophenol		<8	<8							<8	
Phenacetin		<8	<8							<8	
Phenanthrene		<8	<8							<8	
Phenol		<8	<8							<8	
Phorate		<.4	<.4							<.4	
Pronamide		<8	<8							<8	
Propionitrile		<10	<10							<10	
Pyrene		<8	<8							<8	
Safrole		<8	<8							<8	
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total		<.1	<.1			<.3				<.3	
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Thionazin		<.4	<.4							<.4	
Tin, total		<20	<20							<20	
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene		<.2	<.2							<.2	
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	27.5	<20.0	<20.0	

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons – Shallow Zone

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-12	10/24/2014	ND	0.1610	2.0000	**
Antimony, total	ug/L	MW-12	04/07/2015	ND	0.1610	2.0000	**
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		
Arsenic, total	ug/L	MW-12	10/24/2014	ND	0.9450	4.0000	**
Arsenic, total	ug/L	MW-12	04/07/2015	ND	0.9450	4.0000	**
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		
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		
Beryllium, total	ug/L	MW-12	10/24/2014	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-12	04/07/2015	ND	0.0390	4.0000	**
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		
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		
Cadmium, total	ug/L	MW-12	10/24/2014	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-12	04/07/2015	ND	0.1120	0.8000	**

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW-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		
Chromium, total	ug/L	MW-12	10/24/2014	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-12	04/07/2015	ND	1.2400	8.0000	**
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		
Cobalt, total	ug/L	MW-12	10/24/2014	ND	0.0528	0.8000	**
Cobalt, total	ug/L	MW-12	04/07/2015	ND	0.0528	0.8000	**
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	**
Copper, total	ug/L	MW-12	10/24/2014		5.7500		
Copper, total	ug/L	MW-12	04/07/2015	ND	0.4850	4.0000	**
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		
Lead, total	ug/L	MW-12	10/24/2014	ND	0.0967	4.0000	**
Lead, total	ug/L	MW-12	04/07/2015	ND	0.0967	4.0000	**
Lead, total	ug/L	MW-12	10/20/2015	ND	4.0000		
Lead, total	ug/L	MW-12	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	
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		
Nickel, total	ug/L	MW-12	10/24/2014	ND	1.0000	4.0000	**
Nickel, total	ug/L	MW-12	04/07/2015	ND	0.5810	4.0000	**
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		
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		
Silver, total	ug/L	MW-12	10/24/2014	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-12	04/07/2015	ND	0.0420	4.0000	**
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		
Thallium, total	ug/L	MW-12	10/24/2014	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-12	04/07/2015	ND	0.0325	2.0000	**
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	**

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, total	ug/L	MW-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		
Vanadium, total	ug/L	MW-12	10/24/2014	ND	1.0000	20.0000	**
Vanadium, total	ug/L	MW-12	04/07/2015	ND	0.4490	20.0000	**
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		
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		
Zinc, total	ug/L	MW-12	10/25/2022	ND	20.0000		
Zinc, total	ug/L	MW-12	04/03/2023	ND	20.0000		
Antimony, total	ug/L	MW-17	10/24/2014	ND	0.5410	2.0000	**
Antimony, total	ug/L	MW-17	04/07/2015	ND	0.1610	2.0000	**
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		
Arsenic, total	ug/L	MW-17	10/24/2014	ND	0.9450	4.0000	**
Arsenic, total	ug/L	MW-17	04/07/2015	ND	0.9450	4.0000	**
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		

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Arsenic, total	ug/L	MW-17	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		
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		
Beryllium, total	ug/L	MW-17	10/24/2014	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-17	04/07/2015	ND	0.0390	4.0000	**
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		
Cadmium, total	ug/L	MW-17	10/24/2014	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-17	04/07/2015	ND	0.1120	0.8000	**
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		
Chromium, total	ug/L	MW-17	10/24/2014	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-17	04/07/2015	ND	1.2400	8.0000	**
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		

* - 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-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		
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	**
Copper, total	ug/L	MW-17	10/24/2014		3.6500		
Copper, total	ug/L	MW-17	04/07/2015	ND	0.4850	4.0000	**
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		
Lead, total	ug/L	MW-17	10/24/2014	ND	0.5000	4.0000	**
Lead, total	ug/L	MW-17	04/07/2015	ND	0.5000	4.0000	**
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		
Nickel, total	ug/L	MW-17	10/24/2014	ND	1.0000	4.0000	**
Nickel, total	ug/L	MW-17	04/07/2015	ND	0.5810	4.0000	**
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		

* - 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	10/13/2020	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		
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		
Silver, total	ug/L	MW-17	10/24/2014	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-17	04/07/2015	ND	0.0420	4.0000	**
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		
Thallium, total	ug/L	MW-17	10/24/2014	ND	0.0325	2.0000	**
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		
Vanadium, total	ug/L	MW-17	10/24/2014	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-17	04/07/2015	ND	0.4490	20.0000	**
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		

* - 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	10/06/2021	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		
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		
Antimony, total	ug/L	MW-21	10/24/2014	ND	0.1610	2.0000	**
Antimony, total	ug/L	MW-21	04/07/2015	ND	0.1610	2.0000	**
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		
Arsenic, total	ug/L	MW-21	10/24/2014	ND	0.9450	4.0000	**
Arsenic, total	ug/L	MW-21	04/07/2015	ND	0.9450	4.0000	**
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		
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		
Beryllium, total	ug/L	MW-21	10/24/2014	ND	0.0390	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	04/07/2015	ND	0.0390	4.0000	**
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		
Cadmium, total	ug/L	MW-21	10/24/2014	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-21	04/07/2015	ND	0.1120	0.8000	**
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		
Chromium, total	ug/L	MW-21	10/24/2014	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-21	04/07/2015	ND	1.2400	8.0000	**
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		
Cobalt, total	ug/L	MW-21	10/24/2014	ND	0.0528	0.8000	**
Cobalt, total	ug/L	MW-21	04/07/2015	ND	0.0528	0.8000	**
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	**
Copper, total	ug/L	MW-21	10/24/2014	ND	0.4850	4.0000	**
Copper, total	ug/L	MW-21	04/07/2015	ND	0.4850	4.0000	**
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		

* - 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	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		
Lead, total	ug/L	MW-21	10/24/2014	ND	0.0967	4.0000	**
Lead, total	ug/L	MW-21	04/07/2015	ND	0.5000	4.0000	**
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		
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	4.0000	**
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		
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		
Silver, total	ug/L	MW-21	10/24/2014	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-21	04/07/2015	ND	0.0420	4.0000	**
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		

* - 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	04/12/2021	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		
Thallium, total	ug/L	MW-21	10/24/2014	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-21	04/07/2015	ND	0.0325	2.0000	**
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		
Vanadium, total	ug/L	MW-21	10/24/2014	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-21	04/07/2015	ND	0.4490	20.0000	**
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		
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		

* - 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	04/03/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-16	04/03/2023	ND	4.0000		4.0000
Barium, total	ug/L	MW-16	04/03/2023		141.0000		202.4269
Beryllium, total	ug/L	MW-16	04/03/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-16	04/03/2023	ND	0.8000		0.8000
Chromium, total	ug/L	MW-16	04/03/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-16	04/03/2023	ND	0.4000		0.8000
Copper, total	ug/L	MW-16	04/03/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-16	04/03/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-16	04/03/2023	ND	4.0000		4.3000
Selenium, total	ug/L	MW-16	04/03/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-16	04/03/2023	ND	4.0000		4.0000
Thallium, total	ug/L	MW-16	04/03/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-16	04/03/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-16	04/03/2023	ND	20.0000		20.8000
Antimony, total	ug/L	MW-24	04/03/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-24	04/03/2023	ND	4.0000	**	4.0000
Barium, total	ug/L	MW-24	04/03/2023		389.0000	***	202.4269
Beryllium, total	ug/L	MW-24	04/03/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-24	04/03/2023	ND	0.8000		0.8000
Chromium, total	ug/L	MW-24	04/03/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-24	04/03/2023		0.8000		0.8000
Copper, total	ug/L	MW-24	04/03/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-24	04/03/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-24	04/03/2023		27.6000	***	4.3000
Selenium, total	ug/L	MW-24	04/03/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-24	04/03/2023	ND	4.0000		4.0000
Thallium, total	ug/L	MW-24	04/03/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-24	04/03/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-24	04/03/2023	ND	20.0000		20.8000
Antimony, total	ug/L	MW-25	04/03/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-25	04/03/2023	ND	4.0000		4.0000
Barium, total	ug/L	MW-25	04/03/2023		102.0000		202.4269
Beryllium, total	ug/L	MW-25	04/03/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-25	04/03/2023	ND	0.8000		0.8000
Chromium, total	ug/L	MW-25	04/03/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-25	04/03/2023		0.6000	**	0.8000
Copper, total	ug/L	MW-25	04/03/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-25	04/03/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-25	04/03/2023	ND	4.0000		4.3000
Selenium, total	ug/L	MW-25	04/03/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-25	04/03/2023	ND	4.0000		4.0000
Thallium, total	ug/L	MW-25	04/03/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-25	04/03/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-25	04/03/2023	ND	20.0000		20.8000
Antimony, total	ug/L	MW-26	04/03/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-26	04/03/2023	ND	4.0000		4.0000
Barium, total	ug/L	MW-26	04/03/2023		27.5000		202.4269
Beryllium, total	ug/L	MW-26	04/03/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-26	04/03/2023	ND	0.8000		0.8000
Chromium, total	ug/L	MW-26	04/03/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-26	04/03/2023	ND	0.4000	**	0.8000
Copper, total	ug/L	MW-26	04/03/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-26	04/03/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-26	04/03/2023	ND	4.0000	**	4.3000
Selenium, total	ug/L	MW-26	04/03/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-26	04/03/2023	ND	4.0000		4.0000
Thallium, total	ug/L	MW-26	04/03/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-26	04/03/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-26	04/03/2023	ND	20.0000		20.8000
Antimony, total	ug/L	MW-32	04/03/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-32	04/03/2023	ND	4.0000		4.0000
Barium, total	ug/L	MW-32	04/03/2023		344.0000	***	202.4269
Beryllium, total	ug/L	MW-32	04/03/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-32	04/03/2023	ND	0.8000		0.8000
Chromium, total	ug/L	MW-32	04/03/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-32	04/03/2023		0.6000	**	0.8000
Copper, total	ug/L	MW-32	04/03/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-32	04/03/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-32	04/03/2023	ND	4.0000		4.3000
Selenium, total	ug/L	MW-32	04/03/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-32	04/03/2023	ND	4.0000		4.0000

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

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Thallium, total	ug/L	MW-32	04/03/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-32	04/03/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-32	04/03/2023	ND	20.0000		20.8000
Antimony, total	ug/L	MW-33	04/03/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-33	04/03/2023	ND	4.0000		4.0000
Barium, total	ug/L	MW-33	04/03/2023		160.0000	**	202.4269
Beryllium, total	ug/L	MW-33	04/03/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-33	04/03/2023		0.9000	*	0.8000
Chromium, total	ug/L	MW-33	04/03/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-33	04/03/2023		1.4000	***	0.8000
Copper, total	ug/L	MW-33	04/03/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-33	04/03/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-33	04/03/2023		5.8000	***	4.3000
Selenium, total	ug/L	MW-33	04/03/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-33	04/03/2023	ND	4.0000		4.0000
Thallium, total	ug/L	MW-33	04/03/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-33	04/03/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-33	04/03/2023	ND	20.0000		20.8000
Antimony, total	ug/L	MW-9	04/03/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-9	04/03/2023		4.5000	***	4.0000
Barium, total	ug/L	MW-9	04/03/2023		334.0000	***	202.4269
Beryllium, total	ug/L	MW-9	04/03/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-9	04/03/2023	ND	0.8000		0.8000
Chromium, total	ug/L	MW-9	04/03/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-9	04/03/2023		1.1000	*	0.8000
Copper, total	ug/L	MW-9	04/03/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-9	04/03/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-9	04/03/2023	ND	4.0000		4.3000
Selenium, total	ug/L	MW-9	04/03/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-9	04/03/2023	ND	4.0000		4.0000
Thallium, total	ug/L	MW-9	04/03/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-9	04/03/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-9	04/03/2023	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	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Antimony, total	1	53	0.019	1	174	0.006
Arsenic, total	0	53	0.000	49	176	0.278
Barium, total	53	53	1.000	175	175	1.000
Beryllium, total	0	53	0.000	2	174	0.011
Cadmium, total	0	53	0.000	11	174	0.063
Chromium, total	0	53	0.000	4	174	0.023
Cobalt, total	1	53	0.019	87	178	0.489
Copper, total	3	53	0.057	23	174	0.132
Lead, total	0	52	0.000	15	174	0.086
Nickel, total	1	53	0.019	60	174	0.345
Selenium, total	0	53	0.000	4	175	0.023
Silver, total	0	53	0.000	1	174	0.006
Thallium, total	0	53	0.000	0	174	0.000
Vanadium, total	0	53	0.000	8	174	0.046
Zinc, total	4	52	0.077	34	175	0.194

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	1	53	0.019									nonpar
Arsenic, total	0	53	0.000									nonpar
Barium, total	53	53	1.000	1.377	0.344					2.326	normal	normal
Beryllium, total	0	53	0.000									nonpar
Cadmium, total	0	53	0.000									nonpar
Chromium, total	0	53	0.000									nonpar
Cobalt, total	1	53	0.019									nonpar
Copper, total	3	53	0.057									nonpar
Lead, total	0	52	0.000									nonpar
Nickel, total	1	53	0.019									nonpar
Selenium, total	0	53	0.000									nonpar
Silver, total	0	53	0.000									nonpar
Thallium, total	0	53	0.000									nonpar
Vanadium, total	0	53	0.000									nonpar
Zinc, total	4	52	0.077	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	1	53					6.2000	nonpar		0.99
Arsenic, total	ug/L	0	53					4.0000	nonpar	***	0.99
Barium, total	ug/L	53	53	102.9755	41.0496	0.0100	2.4227	202.4269	normal		
Beryllium, total	ug/L	0	53					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	0	53					0.8000	nonpar	***	0.99
Chromium, total	ug/L	0	53					8.0000	nonpar	***	0.99
Cobalt, total	ug/L	1	53					0.8000	nonpar	***	0.99
Copper, total	ug/L	3	53					7.9000	nonpar		0.99
Lead, total	ug/L	0	52					4.0000	nonpar	***	0.99
Nickel, total	ug/L	1	53					4.3000	nonpar		0.99
Selenium, total	ug/L	0	53					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	53					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	53					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	0	53					20.0000	nonpar	***	0.99
Zinc, total	ug/L	4	52					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 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
Barium, total	ug/L	MW-24	02/18/2011		461.0000	*	202.4269
Barium, total	ug/L	MW-24	04/14/2011		476.0000	*	202.4269
Barium, total	ug/L	MW-24	06/21/2011		413.0000	*	202.4269
Barium, total	ug/L	MW-24	12/29/2011		529.0000	*	202.4269
Barium, total	ug/L	MW-24	05/05/2014		507.0000	*	202.4269
Barium, total	ug/L	MW-24	10/29/2014		532.0000	*	202.4269
Barium, total	ug/L	MW-24	04/28/2015		559.0000	*	202.4269
Barium, total	ug/L	MW-24	10/21/2015		517.0000	*	202.4269
Barium, total	ug/L	MW-24	04/11/2016		505.0000	*	202.4269
Barium, total	ug/L	MW-24	10/11/2016		490.0000	*	202.4269
Barium, total	ug/L	MW-24	04/12/2017		434.0000	*	202.4269
Barium, total	ug/L	MW-24	10/26/2017		519.0000	*	202.4269
Barium, total	ug/L	MW-24	04/11/2018		398.0000	*	202.4269
Barium, total	ug/L	MW-24	10/16/2018		371.0000	*	202.4269
Barium, total	ug/L	MW-24	04/18/2019		371.0000	*	202.4269
Barium, total	ug/L	MW-24	10/15/2019		446.0000	*	202.4269
Barium, total	ug/L	MW-24	04/06/2020		531.0000	*	202.4269
Barium, total	ug/L	MW-24	10/13/2020		491.0000	*	202.4269
Barium, total	ug/L	MW-24	04/12/2021		337.0000	*	202.4269
Barium, total	ug/L	MW-24	10/06/2021		466.0000	*	202.4269
Barium, total	ug/L	MW-24	04/14/2022		350.0000	*	202.4269
Barium, total	ug/L	MW-24	10/25/2022		529.0000	*	202.4269
Barium, total	ug/L	MW-24	04/03/2023		389.0000	*	202.4269
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
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

* - 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	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
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-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
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
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

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

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Nickel, total	ug/L	MW-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
Barium, total	ug/L	MW-32	04/11/2018		247.0000	*	202.4269
Barium, total	ug/L	MW-32	10/16/2018		199.0000		202.4269
Barium, total	ug/L	MW-32	04/18/2019		238.0000	*	202.4269
Barium, total	ug/L	MW-32	10/16/2019		199.0000		202.4269
Barium, total	ug/L	MW-32	04/06/2020		205.0000	*	202.4269
Barium, total	ug/L	MW-32	10/13/2020		188.0000		202.4269
Barium, total	ug/L	MW-32	04/12/2021		254.0000	*	202.4269
Barium, total	ug/L	MW-32	07/01/2021		219.0000	*	202.4269
Barium, total	ug/L	MW-32	10/06/2021		197.0000		202.4269
Barium, total	ug/L	MW-32	04/14/2022		206.0000	*	202.4269
Barium, total	ug/L	MW-32	10/25/2022		281.0000	*	202.4269
Barium, total	ug/L	MW-32	04/03/2023		344.0000	*	202.4269
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
Barium, total	ug/L	MW-33	07/02/2018		127.0000		202.4269
Barium, total	ug/L	MW-33	10/16/2018		107.0000		202.4269
Barium, total	ug/L	MW-33	04/18/2019		222.0000	*	202.4269
Barium, total	ug/L	MW-33	10/16/2019		140.0000		202.4269
Barium, total	ug/L	MW-33	04/06/2020		139.0000		202.4269
Barium, total	ug/L	MW-33	10/13/2020		136.0000		202.4269
Barium, total	ug/L	MW-33	04/12/2021		127.0000		202.4269
Barium, total	ug/L	MW-33	10/06/2021		103.0000		202.4269
Barium, total	ug/L	MW-33	04/14/2022		150.0000		202.4269
Barium, total	ug/L	MW-33	10/25/2022		226.0000	*	202.4269
Barium, total	ug/L	MW-33	04/03/2023		160.0000		202.4269
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
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

* - 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-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
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
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
Barium, total	ug/L	MW-9	10/17/2007		416.0000	*	202.4269
Barium, total	ug/L	MW-9	01/11/2008		430.0000	*	202.4269
Barium, total	ug/L	MW-9	04/10/2008		421.0000	*	202.4269
Barium, total	ug/L	MW-9	07/17/2008		432.0000	*	202.4269
Barium, total	ug/L	MW-9	10/21/2008		733.0000	*	202.4269
Barium, total	ug/L	MW-9	04/13/2009		420.0000	*	202.4269
Barium, total	ug/L	MW-9	10/14/2009		344.0000	*	202.4269
Barium, total	ug/L	MW-9	04/20/2010		352.0000	*	202.4269
Barium, total	ug/L	MW-9	10/13/2010		353.0000	*	202.4269
Barium, total	ug/L	MW-9	04/14/2011		310.0000	*	202.4269
Barium, total	ug/L	MW-9	10/11/2011		418.0000	*	202.4269
Barium, total	ug/L	MW-9	04/18/2012		373.0000	*	202.4269
Barium, total	ug/L	MW-9	10/11/2012		3370.0000	*	202.4269
Barium, total	ug/L	MW-9	04/23/2013		415.0000	*	202.4269
Barium, total	ug/L	MW-9	10/29/2013		548.0000	*	202.4269
Barium, total	ug/L	MW-9	04/23/2014		525.0000	*	202.4269
Barium, total	ug/L	MW-9	10/24/2014		435.0000	*	202.4269
Barium, total	ug/L	MW-9	10/20/2015		389.0000	*	202.4269

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

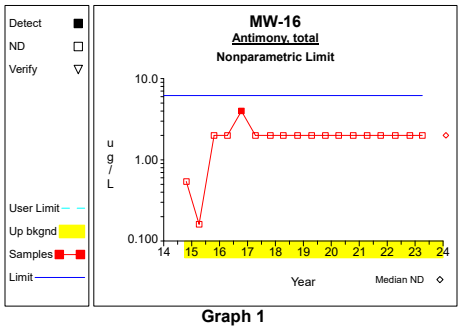
Table 8

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

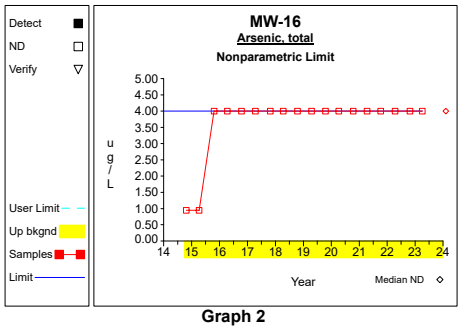
Constituent	Units	Well	Date		Result		Pred. Limit
Barium, total	ug/L	MW-9	04/11/2016		608.0000	*	202.4269
Barium, total	ug/L	MW-9	10/12/2016		296.0000	*	202.4269
Barium, total	ug/L	MW-9	04/12/2017		346.0000	*	202.4269
Barium, total	ug/L	MW-9	10/25/2017		304.0000	*	202.4269
Barium, total	ug/L	MW-9	04/11/2018		303.0000	*	202.4269
Barium, total	ug/L	MW-9	10/16/2018		605.0000	*	202.4269
Barium, total	ug/L	MW-9	04/18/2019		432.0000	*	202.4269
Barium, total	ug/L	MW-9	10/16/2019		270.0000	*	202.4269
Barium, total	ug/L	MW-9	04/06/2020		474.0000	*	202.4269
Barium, total	ug/L	MW-9	10/14/2020		281.0000	*	202.4269
Barium, total	ug/L	MW-9	04/12/2021		369.0000	*	202.4269
Barium, total	ug/L	MW-9	10/06/2021		285.0000	*	202.4269
Barium, total	ug/L	MW-9	04/15/2022		379.0000	*	202.4269
Barium, total	ug/L	MW-9	10/25/2022		353.0000	*	202.4269
Barium, total	ug/L	MW-9	04/03/2023		334.0000	*	202.4269
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
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

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

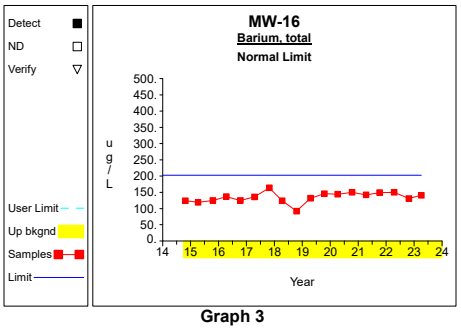
Up vs. Down Prediction Limits



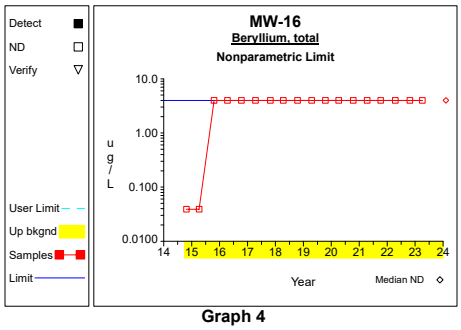
Graph 1



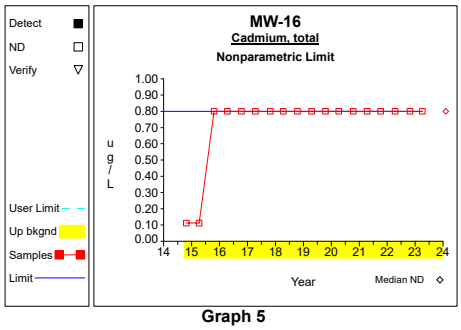
Graph 2



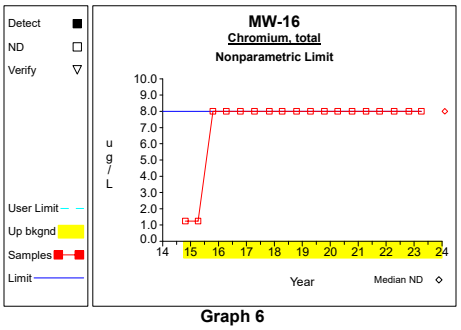
Graph 3



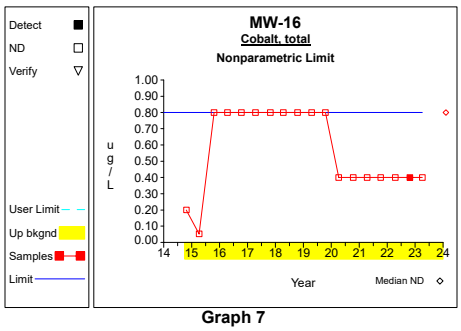
Graph 4



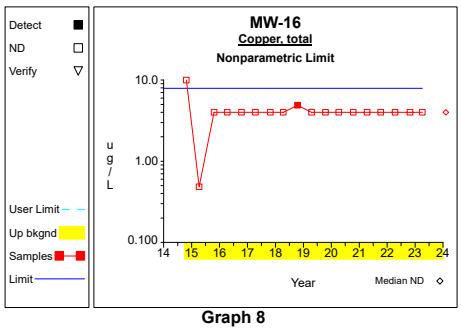
Graph 5



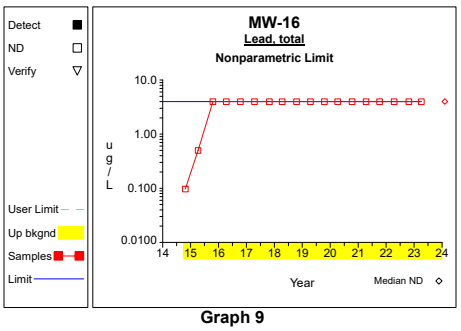
Graph 6



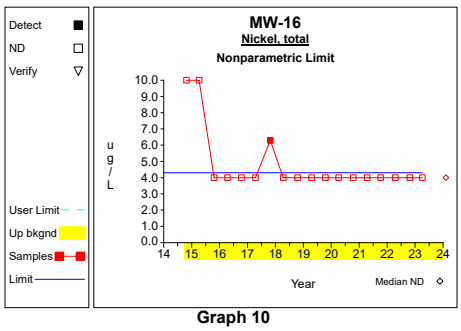
Graph 7



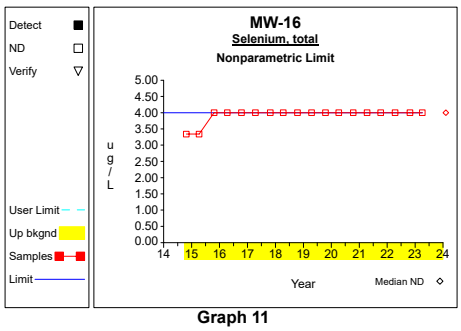
Graph 8



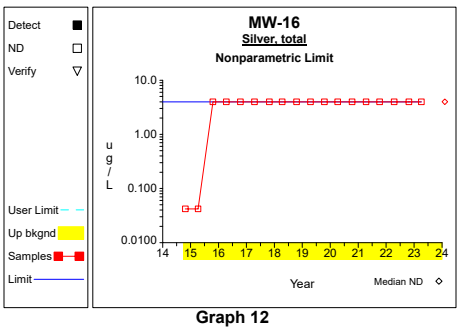
Graph 9



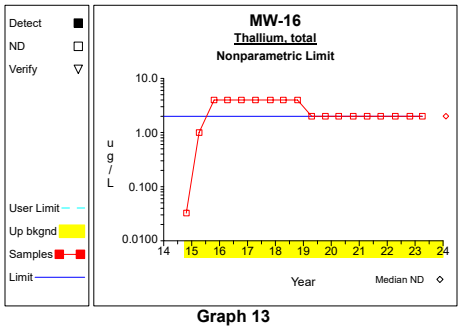
Graph 10



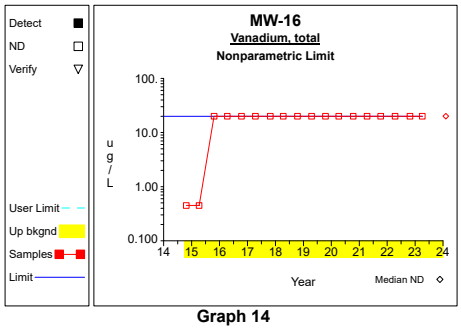
Graph 11



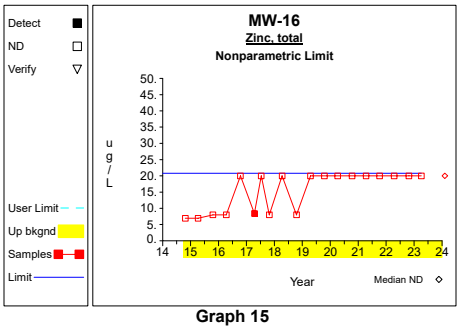
Graph 12



Graph 13



Graph 14



Graph 15

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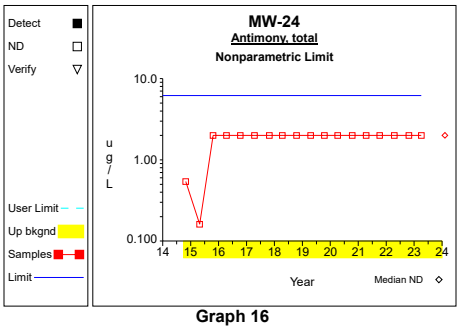
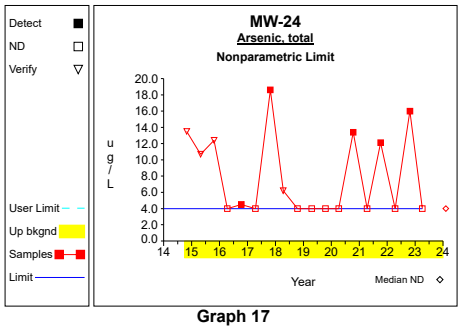
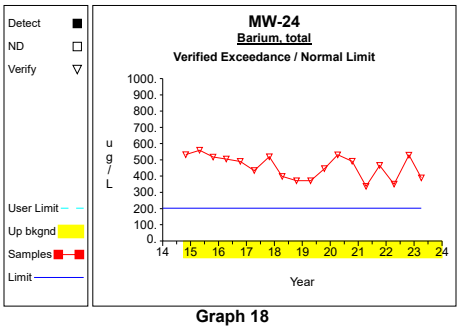
Up vs. Down Prediction Limits



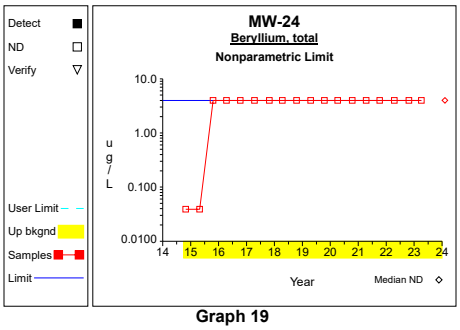
Graph 16



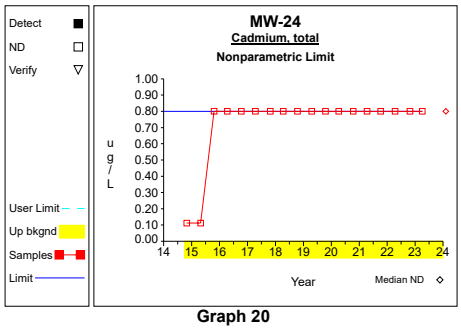
Graph 17



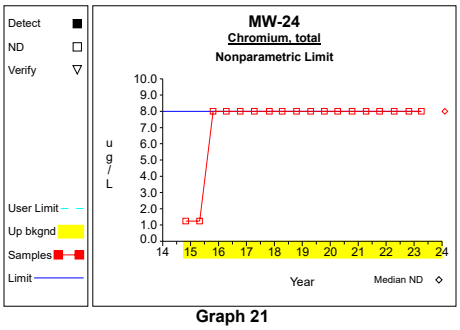
Graph 18



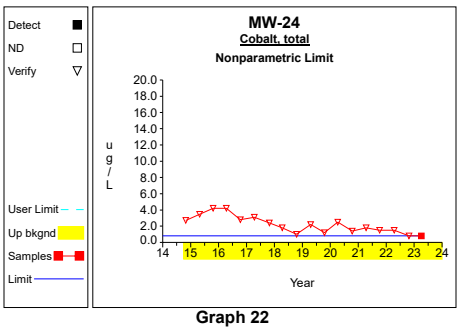
Graph 19



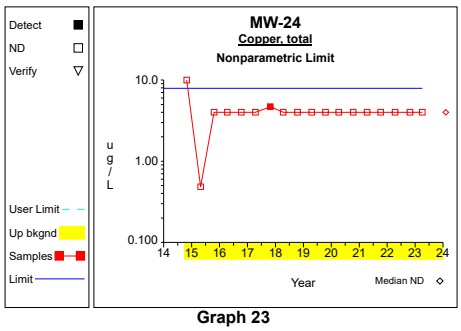
Graph 20



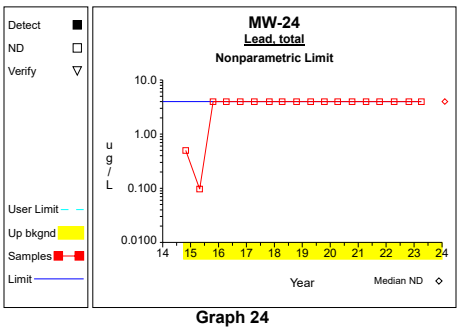
Graph 21



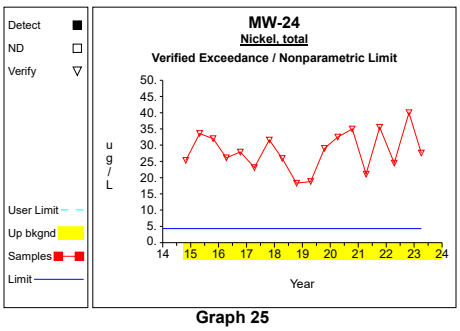
Graph 22



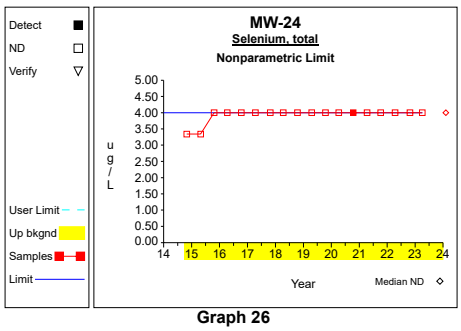
Graph 23



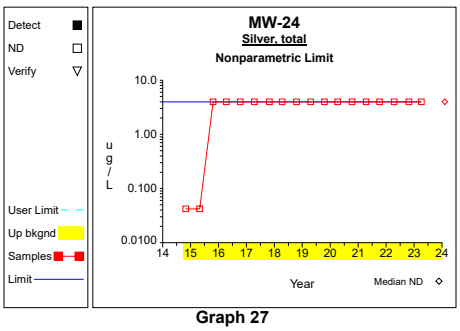
Graph 24



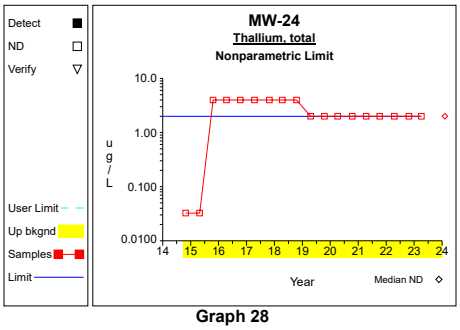
Graph 25



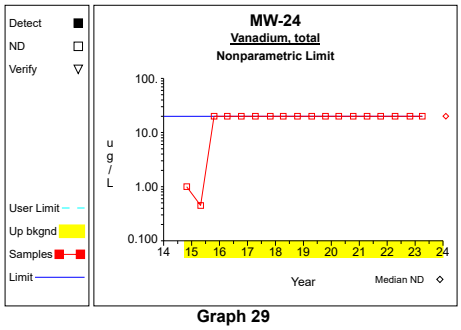
Graph 26



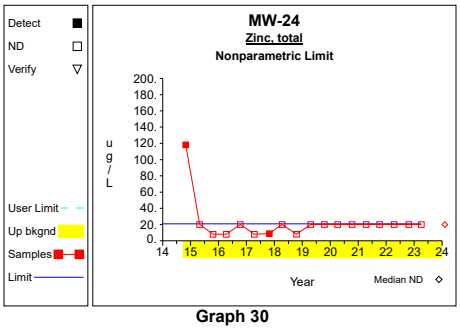
Graph 27



Graph 28



Graph 29



Graph 30

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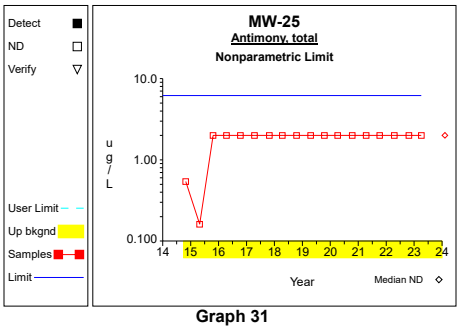
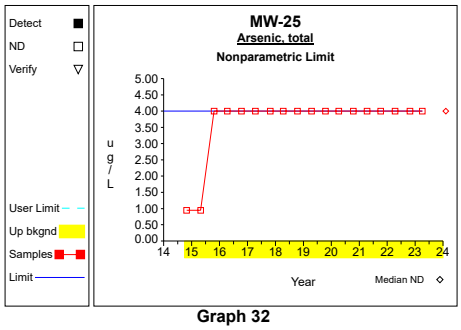
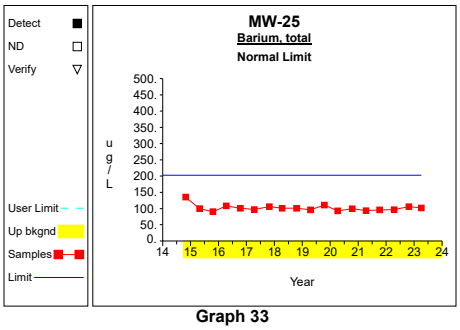
Up vs. Down Prediction Limits



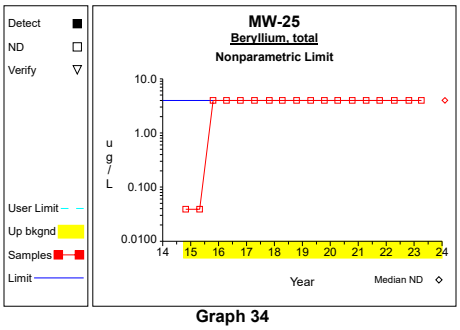
Graph 31



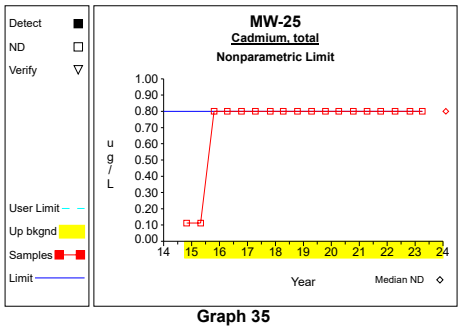
Graph 32



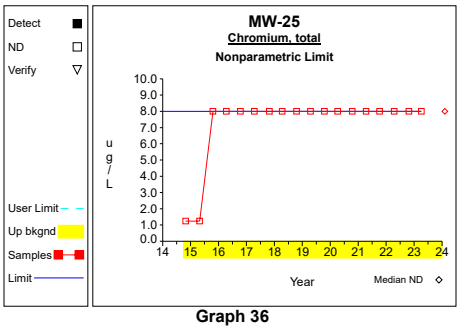
Graph 33



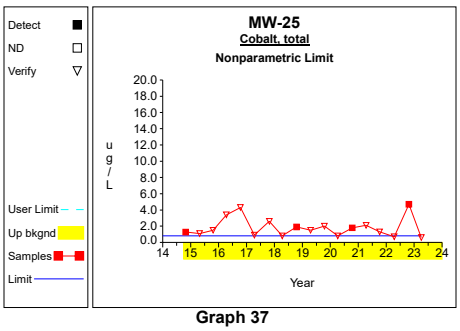
Graph 34



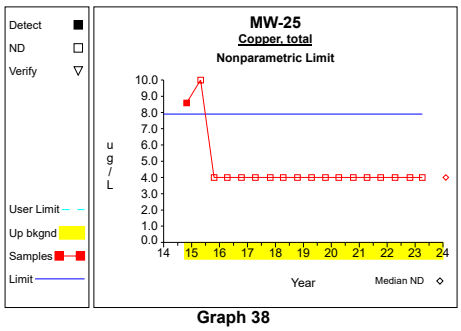
Graph 35



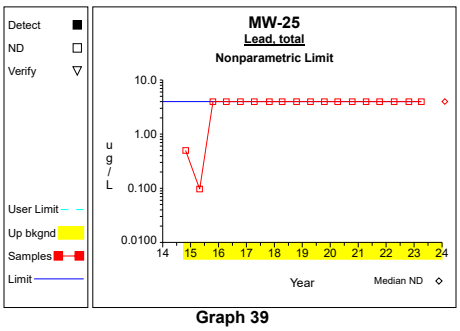
Graph 36



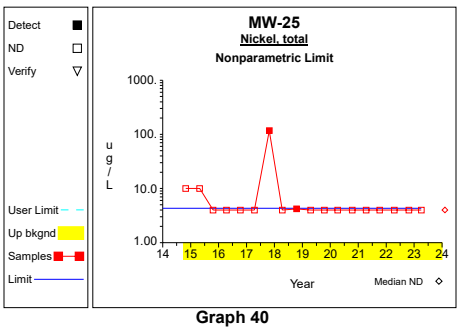
Graph 37



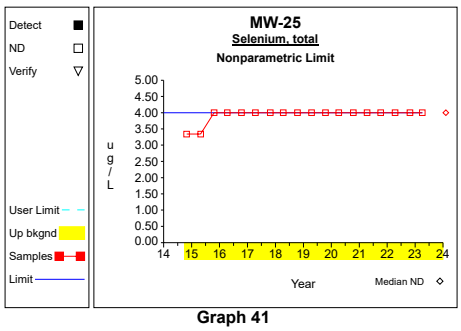
Graph 38



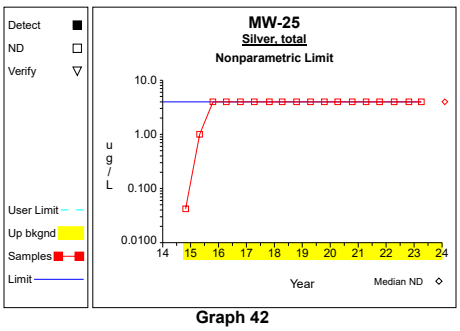
Graph 39



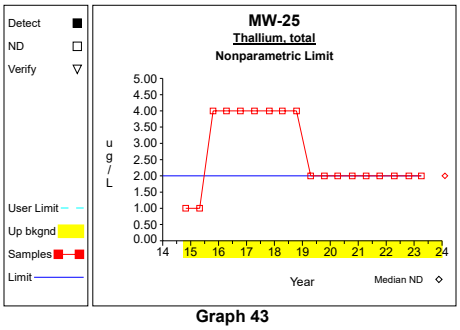
Graph 40



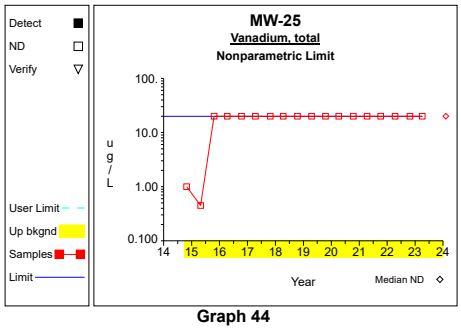
Graph 41



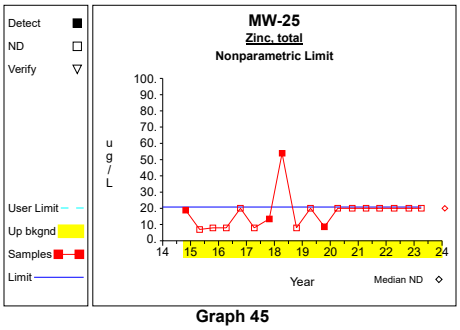
Graph 42



Graph 43



Graph 44



Graph 45

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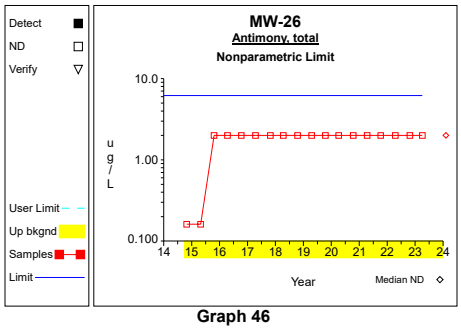
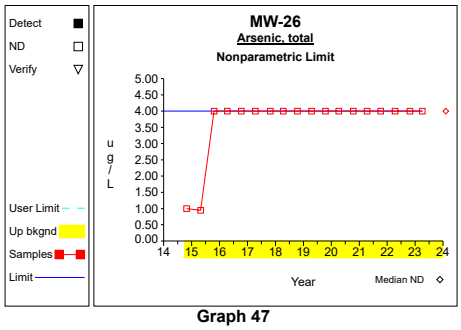
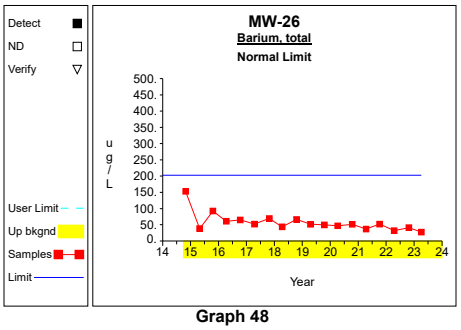
Up vs. Down Prediction Limits



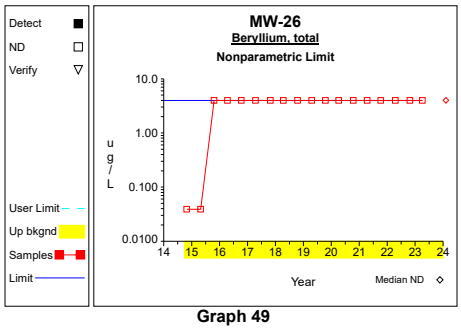
Graph 46



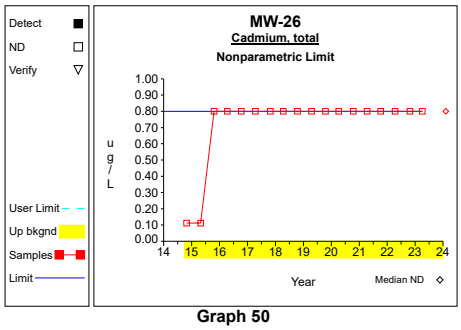
Graph 47



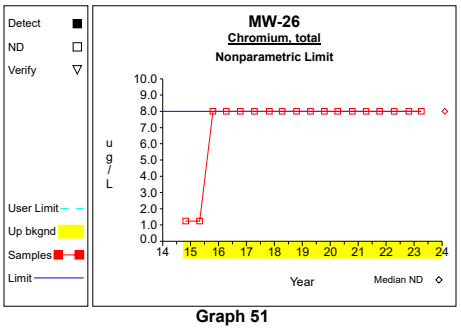
Graph 48



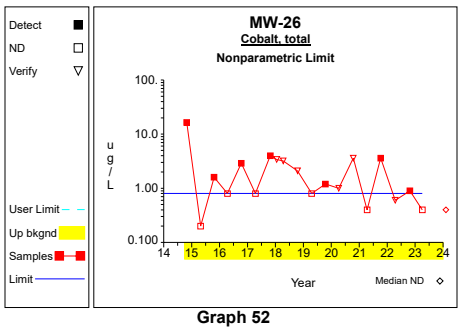
Graph 49



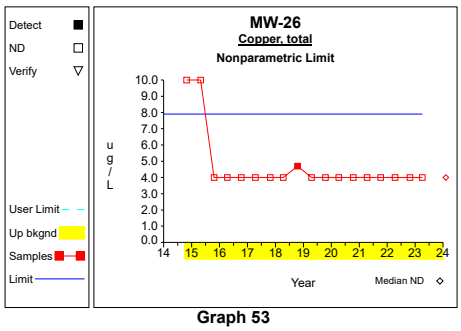
Graph 50



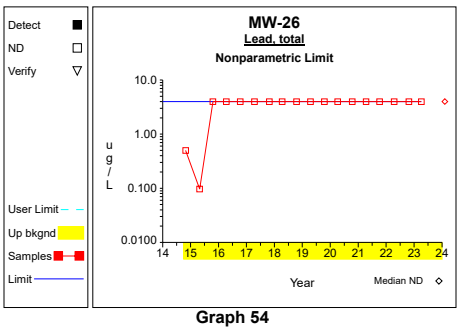
Graph 51



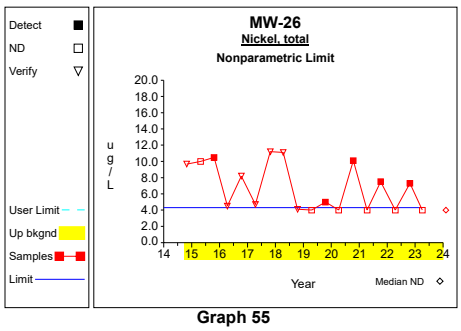
Graph 52



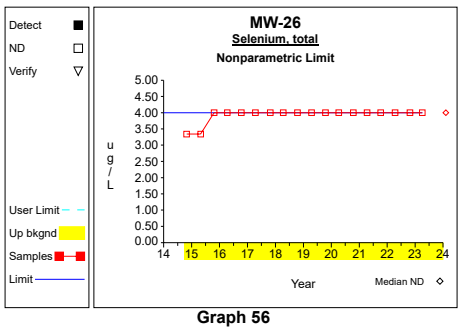
Graph 53



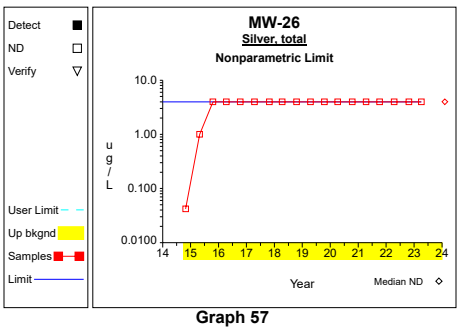
Graph 54



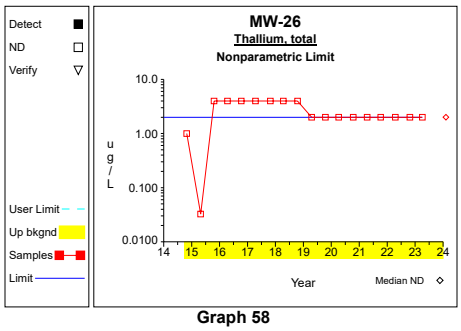
Graph 55



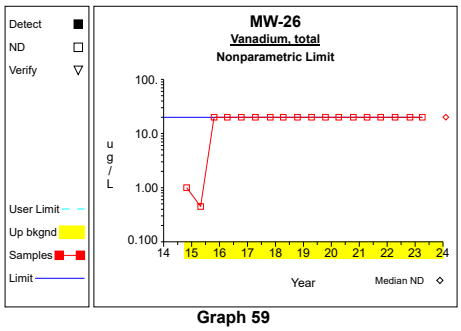
Graph 56



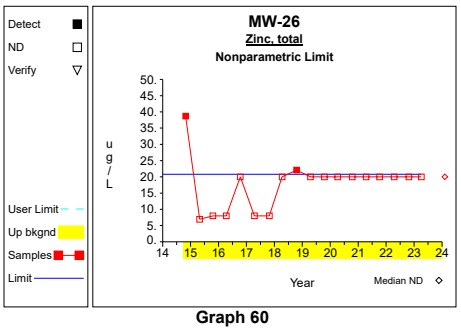
Graph 57



Graph 58



Graph 59



Graph 60

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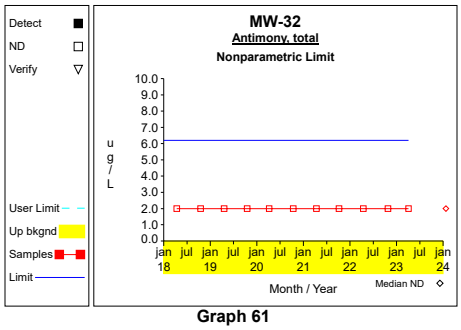
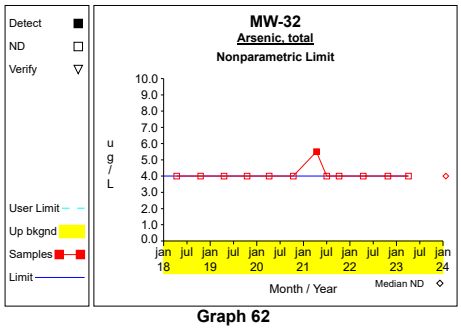
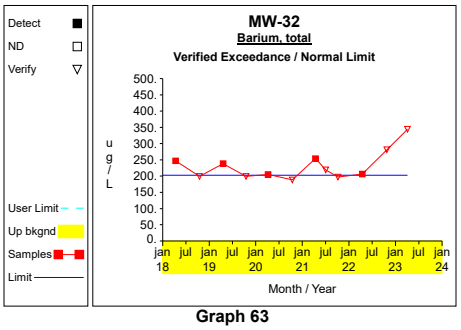
Up vs. Down Prediction Limits



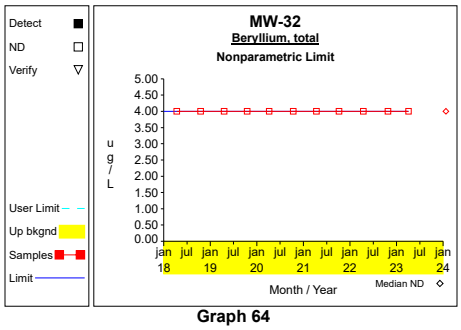
Graph 61



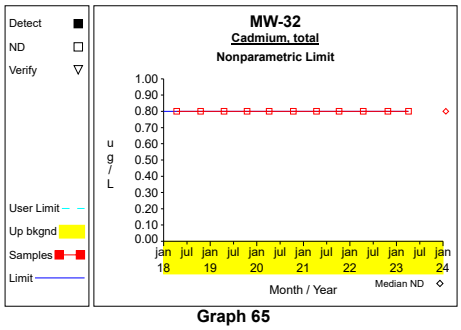
Graph 62



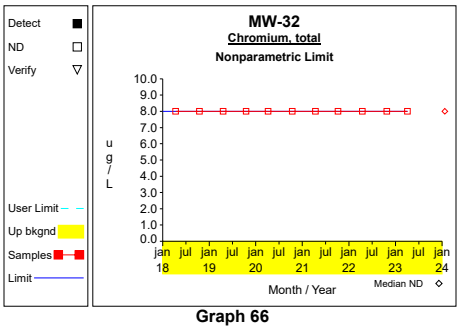
Graph 63



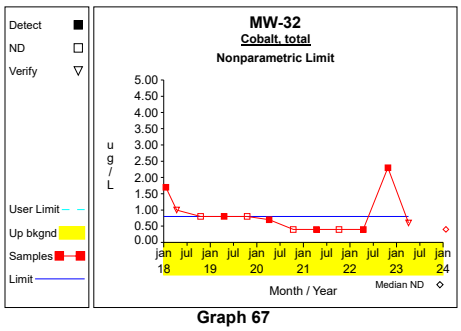
Graph 64



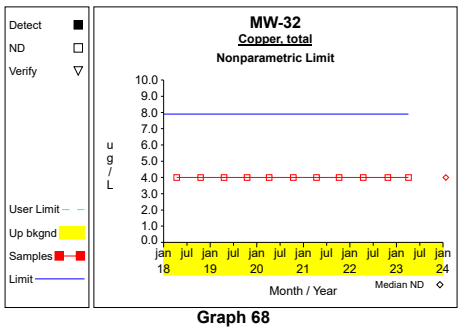
Graph 65



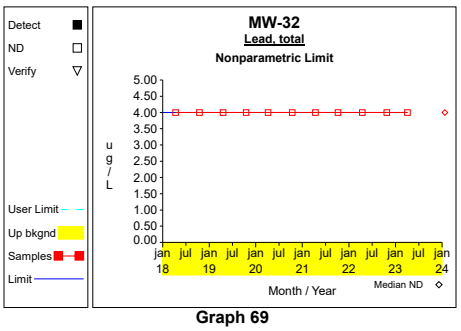
Graph 66



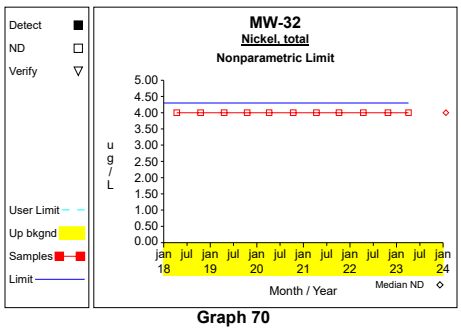
Graph 67



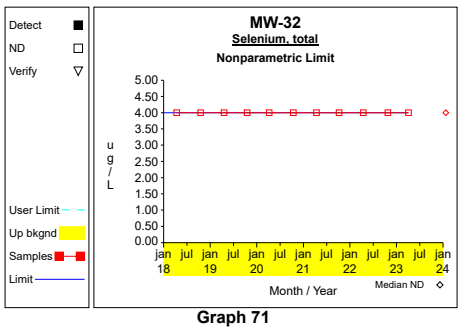
Graph 68



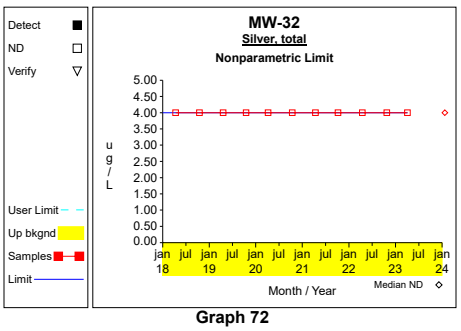
Graph 69



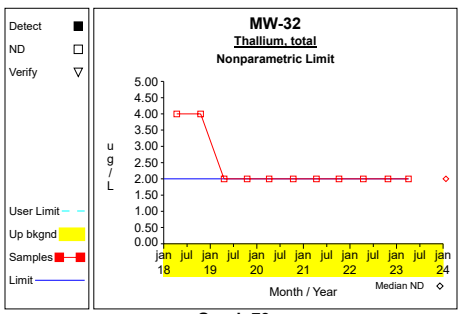
Graph 70



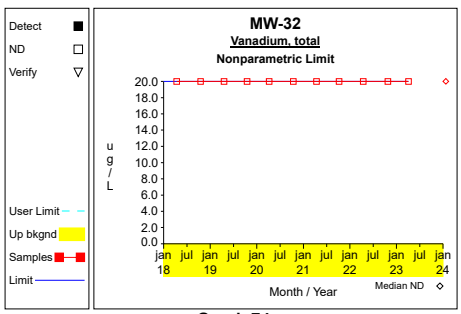
Graph 71



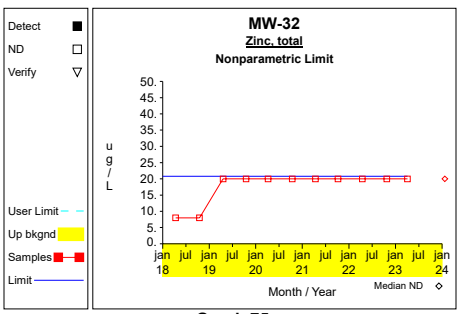
Graph 72



Graph 73



Graph 74



Graph 75

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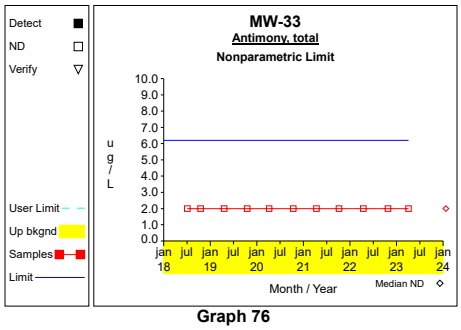
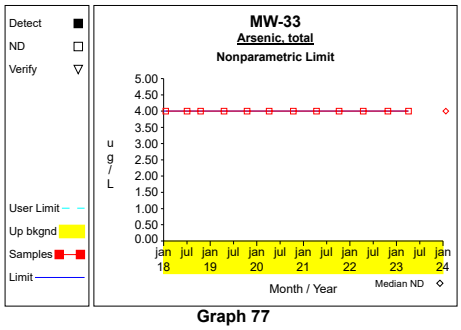
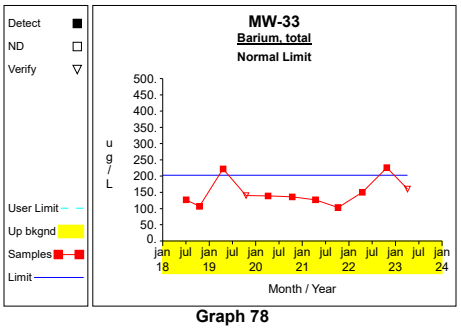
Up vs. Down Prediction Limits



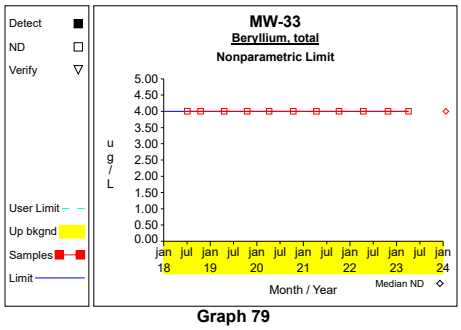
Graph 76



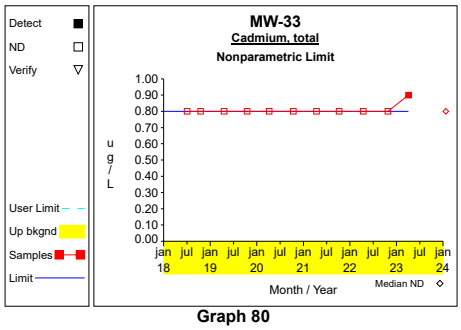
Graph 77



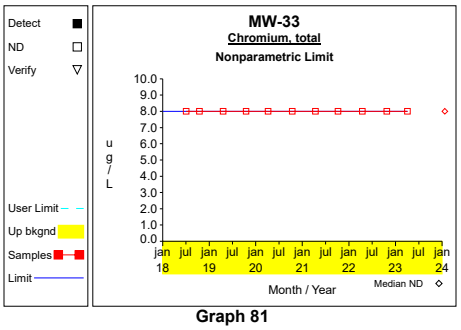
Graph 78



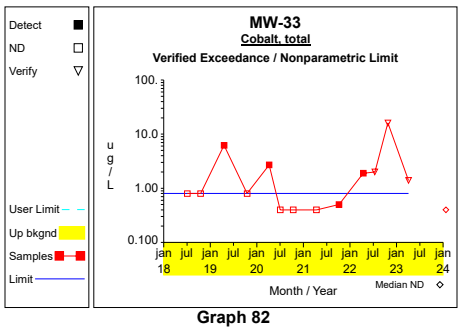
Graph 79



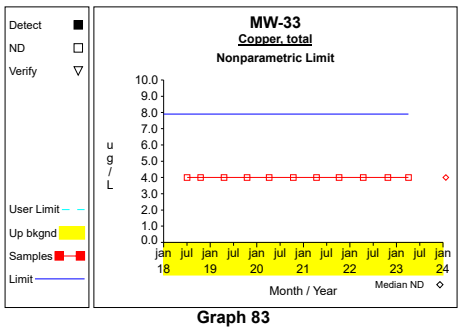
Graph 80



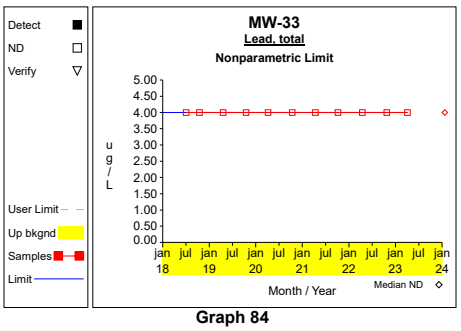
Graph 81



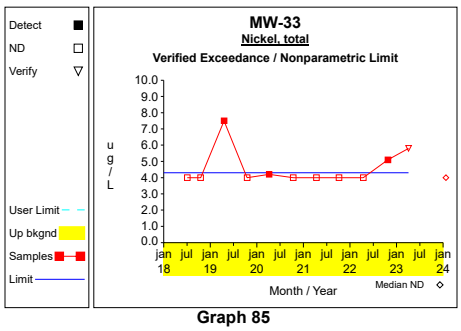
Graph 82



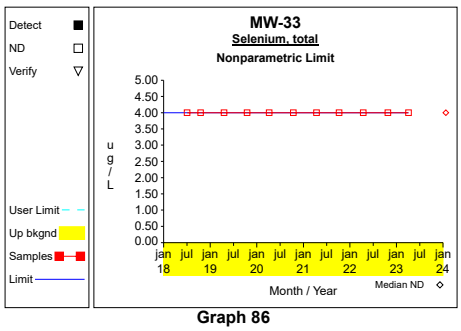
Graph 83



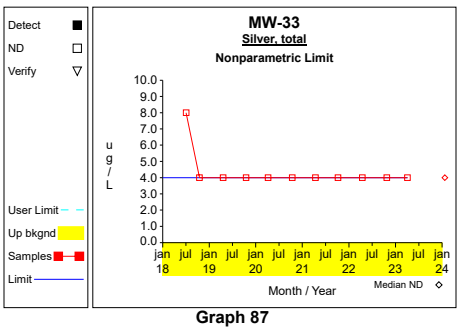
Graph 84



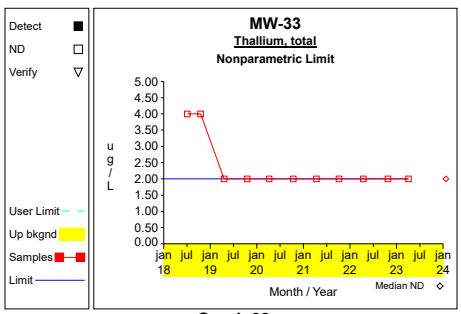
Graph 85



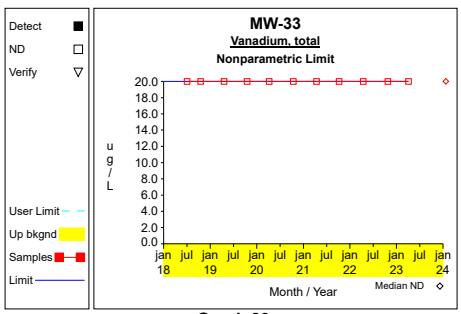
Graph 86



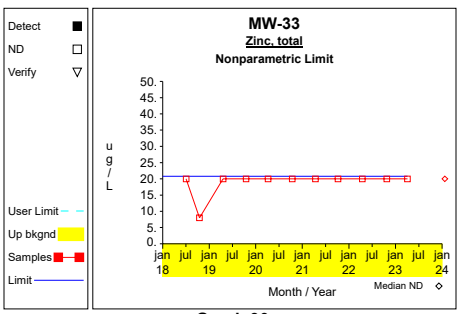
Graph 87



Graph 88



Graph 89



Graph 90

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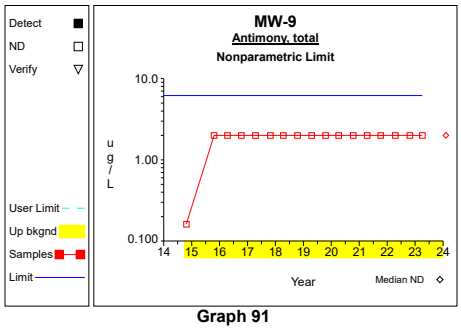
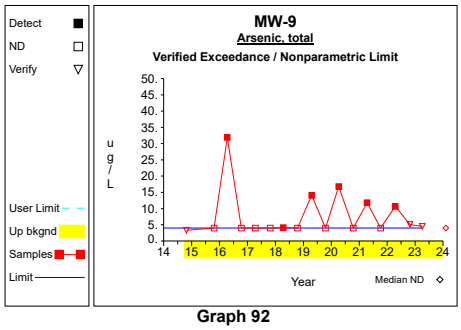
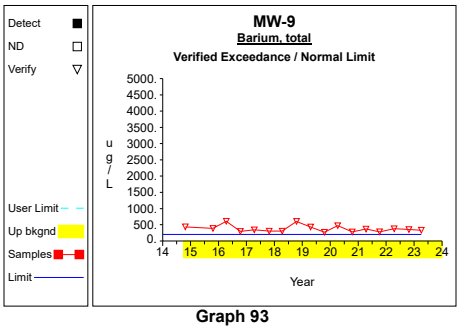
Up vs. Down Prediction Limits



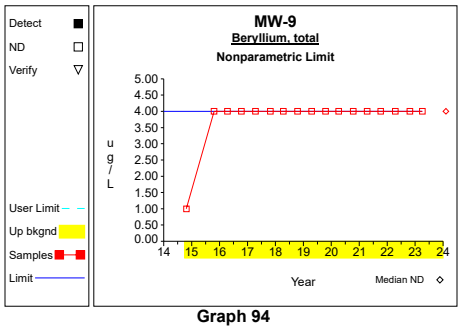
Graph 91



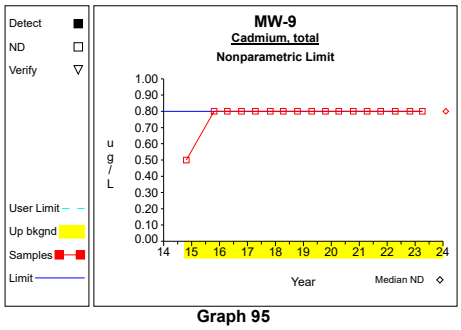
Graph 92



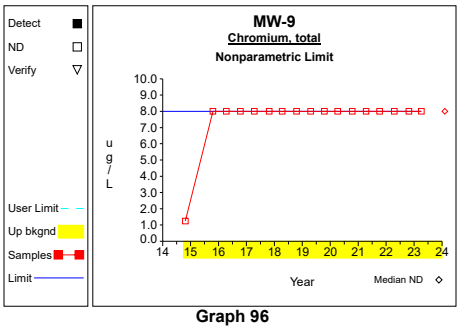
Graph 93



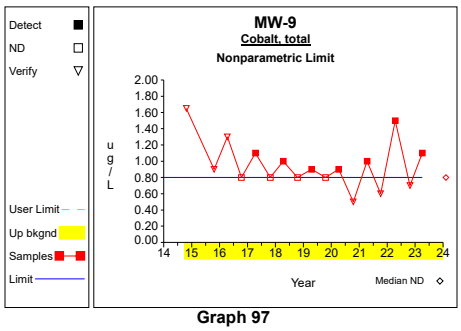
Graph 94



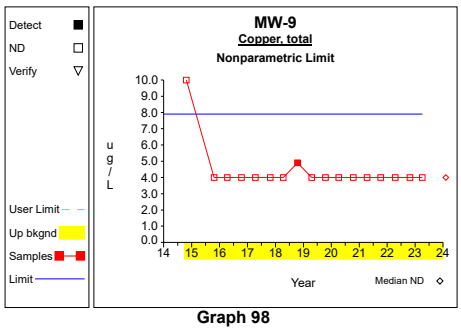
Graph 95



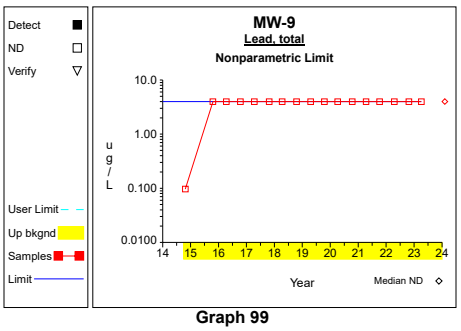
Graph 96



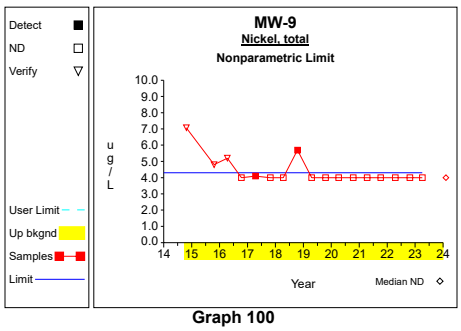
Graph 97



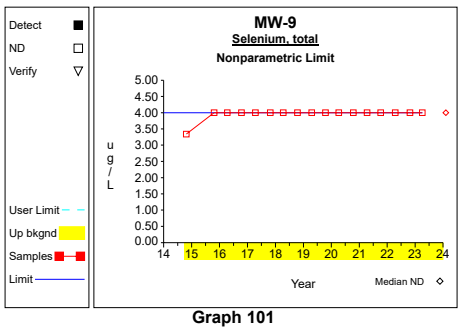
Graph 98



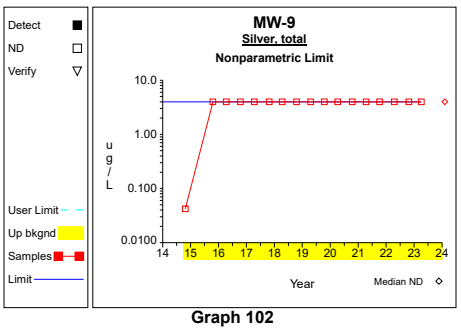
Graph 99



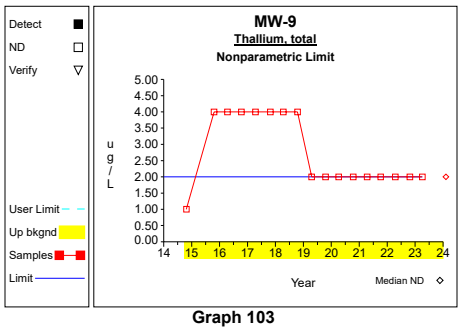
Graph 100



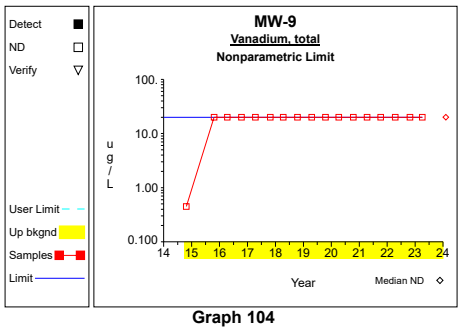
Graph 101



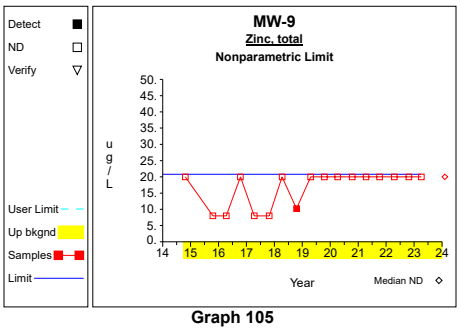
Graph 102



Graph 103



Graph 104

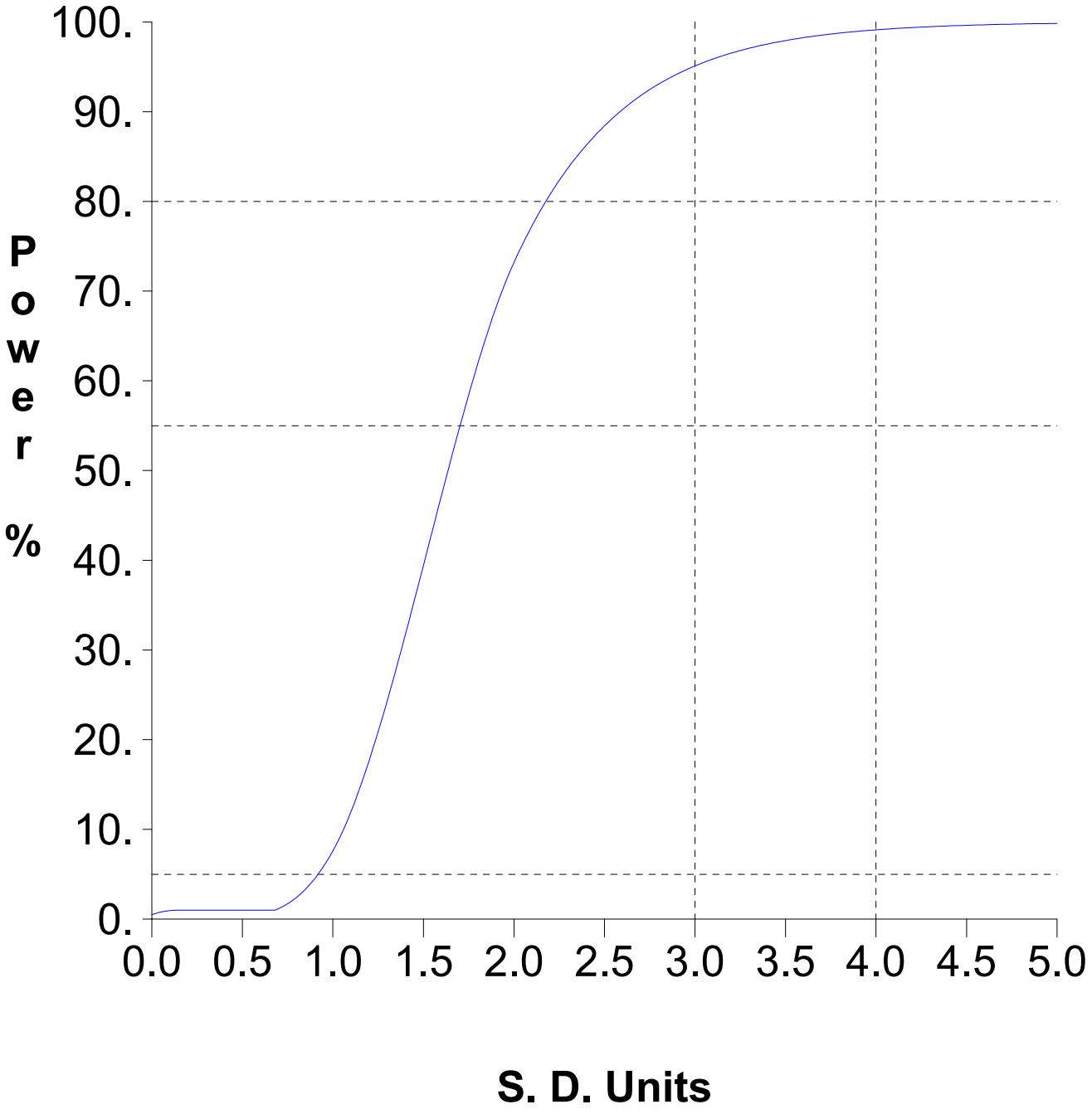


Graph 105

Prepared by: Otter Creek Environmental

False Positive and False Negative Rates for Current

Upgradient vs. Downgradient Monitoring Program



Attachment C

Summary Tables and Graphs for the Interwell Comparisons – Deep Zone

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-11	10/24/2014	ND	1.0000	2.0000	**
Antimony, total	ug/L	MW-11	04/07/2015	ND	0.1610	2.0000	**
Antimony, total	ug/L	MW-11	10/20/2015	ND	2.0000		
Antimony, total	ug/L	MW-11	04/11/2016	ND	2.0000		
Antimony, total	ug/L	MW-11	10/12/2016	ND	2.0000		
Antimony, total	ug/L	MW-11	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-11	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-11	04/11/2018	ND	2.0000		
Antimony, total	ug/L	MW-11	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-11	04/17/2019	ND	2.0000		
Antimony, total	ug/L	MW-11	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-11	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-11	10/13/2020	ND	2.0000		
Antimony, total	ug/L	MW-11	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-11	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-11	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-11	10/25/2022	ND	2.0000		
Antimony, total	ug/L	MW-11	04/03/2023	ND	2.0000		
Arsenic, total	ug/L	MW-11	10/24/2014	ND	2.0000	4.0000	**
Arsenic, total	ug/L	MW-11	04/07/2015	ND	0.9450	4.0000	**
Arsenic, total	ug/L	MW-11	10/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW-11	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-11	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-11	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-11	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-11	04/11/2018	ND	4.0000		
Arsenic, total	ug/L	MW-11	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-11	04/17/2019	ND	4.0000		
Arsenic, total	ug/L	MW-11	10/15/2019	ND	4.0000		
Arsenic, total	ug/L	MW-11	04/06/2020	ND	4.0000		
Arsenic, total	ug/L	MW-11	10/13/2020	ND	4.0000		
Arsenic, total	ug/L	MW-11	04/12/2021	ND	4.0000		
Arsenic, total	ug/L	MW-11	10/06/2021	ND	4.0000		
Arsenic, total	ug/L	MW-11	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-11	10/25/2022	ND	4.0000		
Arsenic, total	ug/L	MW-11	04/03/2023	ND	4.0000		
Barium, total	ug/L	MW-11	10/24/2014		57.9000		
Barium, total	ug/L	MW-11	04/07/2015		49.9000		
Barium, total	ug/L	MW-11	10/20/2015		50.9000		
Barium, total	ug/L	MW-11	04/11/2016		43.4000		
Barium, total	ug/L	MW-11	10/12/2016		52.1000		
Barium, total	ug/L	MW-11	04/13/2017		51.2000		
Barium, total	ug/L	MW-11	10/25/2017		51.2000		
Barium, total	ug/L	MW-11	04/11/2018		55.9000		
Barium, total	ug/L	MW-11	10/16/2018		50.0000		
Barium, total	ug/L	MW-11	04/17/2019		105.0000		
Barium, total	ug/L	MW-11	10/15/2019		59.5000		
Barium, total	ug/L	MW-11	04/06/2020		56.1000		
Barium, total	ug/L	MW-11	10/13/2020		53.9000		
Barium, total	ug/L	MW-11	04/12/2021		50.5000		
Barium, total	ug/L	MW-11	10/06/2021		58.4000		
Barium, total	ug/L	MW-11	04/14/2022		48.9000		
Barium, total	ug/L	MW-11	10/25/2022		53.3000		
Barium, total	ug/L	MW-11	04/03/2023		52.1000		
Beryllium, total	ug/L	MW-11	10/24/2014	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-11	04/07/2015	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-11	10/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW-11	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-11	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-11	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-11	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-11	04/11/2018	ND	4.0000		
Beryllium, total	ug/L	MW-11	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-11	04/17/2019	ND	4.0000		
Beryllium, total	ug/L	MW-11	10/15/2019	ND	4.0000		
Beryllium, total	ug/L	MW-11	04/06/2020	ND	4.0000		
Beryllium, total	ug/L	MW-11	10/13/2020	ND	4.0000		
Beryllium, total	ug/L	MW-11	04/12/2021	ND	4.0000		
Beryllium, total	ug/L	MW-11	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-11	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-11	10/25/2022	ND	4.0000		
Beryllium, total	ug/L	MW-11	04/03/2023	ND	4.0000		
Cadmium, total	ug/L	MW-11	10/24/2014	ND	1.0000	0.8000	**
Cadmium, total	ug/L	MW-11	04/07/2015	ND	0.1120	0.8000	**

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW-11	10/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW-11	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-11	10/12/2016	ND	0.8000		
Cadmium, total	ug/L	MW-11	04/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-11	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-11	04/11/2018	ND	0.8000		
Cadmium, total	ug/L	MW-11	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-11	04/17/2019	ND	0.8000		
Cadmium, total	ug/L	MW-11	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-11	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-11	10/13/2020	ND	0.8000		
Cadmium, total	ug/L	MW-11	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-11	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-11	04/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW-11	10/25/2022	ND	0.8000		
Cadmium, total	ug/L	MW-11	04/03/2023	ND	0.8000		
Chromium, total	ug/L	MW-11	10/24/2014	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-11	04/07/2015	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-11	10/20/2015	ND	8.0000		
Chromium, total	ug/L	MW-11	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-11	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-11	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-11	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-11	04/11/2018	ND	8.0000		
Chromium, total	ug/L	MW-11	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-11	04/17/2019	ND	8.0000		
Chromium, total	ug/L	MW-11	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-11	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-11	10/13/2020	ND	8.0000		
Chromium, total	ug/L	MW-11	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-11	10/06/2021	ND	8.0000		
Chromium, total	ug/L	MW-11	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-11	10/25/2022	ND	8.0000		
Chromium, total	ug/L	MW-11	04/03/2023	ND	8.0000		
Cobalt, total	ug/L	MW-11	10/24/2014		0.6750		
Cobalt, total	ug/L	MW-11	04/07/2015	ND	1.0000	0.8000	**
Cobalt, total	ug/L	MW-11	10/20/2015	ND	0.8000		
Cobalt, total	ug/L	MW-11	04/11/2016	ND	0.8000		
Cobalt, total	ug/L	MW-11	10/12/2016		0.8000		
Cobalt, total	ug/L	MW-11	04/13/2017	ND	0.8000		
Cobalt, total	ug/L	MW-11	10/25/2017	ND	0.8000		
Cobalt, total	ug/L	MW-11	04/11/2018		1.0000		
Cobalt, total	ug/L	MW-11	10/16/2018	ND	0.8000		
Cobalt, total	ug/L	MW-11	04/17/2019		1.5000		
Cobalt, total	ug/L	MW-11	10/15/2019	ND	0.8000		
Cobalt, total	ug/L	MW-11	04/06/2020		0.9000		
Cobalt, total	ug/L	MW-11	10/13/2020		0.7000		
Cobalt, total	ug/L	MW-11	04/12/2021		0.8000		
Cobalt, total	ug/L	MW-11	10/06/2021		0.9000		
Cobalt, total	ug/L	MW-11	04/14/2022		0.8000		
Cobalt, total	ug/L	MW-11	10/25/2022		1.0000		
Cobalt, total	ug/L	MW-11	04/03/2023		1.0000		
Copper, total	ug/L	MW-11	10/24/2014		4.0400		
Copper, total	ug/L	MW-11	04/07/2015	ND	1.0000	4.0000	**
Copper, total	ug/L	MW-11	10/20/2015	ND	4.0000		
Copper, total	ug/L	MW-11	04/11/2016	ND	4.0000		
Copper, total	ug/L	MW-11	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-11	04/13/2017	ND	4.0000		
Copper, total	ug/L	MW-11	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-11	04/11/2018	ND	4.0000		
Copper, total	ug/L	MW-11	10/16/2018	ND	4.0000		
Copper, total	ug/L	MW-11	04/17/2019	ND	4.0000		
Copper, total	ug/L	MW-11	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-11	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-11	10/13/2020	ND	4.0000		
Copper, total	ug/L	MW-11	04/12/2021	ND	4.0000		
Copper, total	ug/L	MW-11	10/06/2021	ND	4.0000		
Copper, total	ug/L	MW-11	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-11	10/25/2022	ND	4.0000		
Copper, total	ug/L	MW-11	04/03/2023	ND	4.0000		
Lead, total	ug/L	MW-11	10/24/2014		1.5000		
Lead, total	ug/L	MW-11	04/07/2015	ND	0.0967	4.0000	**
Lead, total	ug/L	MW-11	10/20/2015	ND	4.0000		
Lead, total	ug/L	MW-11	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	
Lead, total	ug/L	MW-11	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-11	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-11	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-11	04/11/2018	ND	4.0000		
Lead, total	ug/L	MW-11	10/16/2018		4.1000		
Lead, total	ug/L	MW-11	04/17/2019	ND	4.0000		
Lead, total	ug/L	MW-11	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-11	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-11	10/13/2020	ND	4.0000		
Lead, total	ug/L	MW-11	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-11	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-11	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-11	10/25/2022	ND	4.0000		
Lead, total	ug/L	MW-11	04/03/2023	ND	4.0000		
Nickel, total	ug/L	MW-11	10/24/2014	ND	20.0000	4.0000	**
Nickel, total	ug/L	MW-11	04/07/2015	ND	2.0000	4.0000	**
Nickel, total	ug/L	MW-11	10/20/2015	ND	4.0000		
Nickel, total	ug/L	MW-11	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-11	10/12/2016		4.9000		
Nickel, total	ug/L	MW-11	04/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-11	10/25/2017	ND	4.0000		
Nickel, total	ug/L	MW-11	04/11/2018		4.3000		
Nickel, total	ug/L	MW-11	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-11	04/17/2019		4.7000		
Nickel, total	ug/L	MW-11	10/15/2019	ND	4.0000		
Nickel, total	ug/L	MW-11	04/06/2020	ND	4.0000		
Nickel, total	ug/L	MW-11	10/13/2020	ND	4.0000		
Nickel, total	ug/L	MW-11	04/12/2021	ND	4.0000		
Nickel, total	ug/L	MW-11	10/06/2021	ND	4.0000		
Nickel, total	ug/L	MW-11	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-11	10/25/2022	ND	4.0000		
Nickel, total	ug/L	MW-11	04/03/2023	ND	4.0000		
Selenium, total	ug/L	MW-11	10/24/2014	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-11	04/07/2015	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-11	10/20/2015	ND	4.0000		
Selenium, total	ug/L	MW-11	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-11	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-11	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-11	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-11	04/11/2018	ND	4.0000		
Selenium, total	ug/L	MW-11	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-11	04/17/2019	ND	4.0000		
Selenium, total	ug/L	MW-11	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-11	04/06/2020	ND	4.0000		
Selenium, total	ug/L	MW-11	10/13/2020	ND	4.0000		
Selenium, total	ug/L	MW-11	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-11	10/06/2021	ND	4.0000		
Selenium, total	ug/L	MW-11	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-11	10/25/2022	ND	4.0000		
Selenium, total	ug/L	MW-11	04/03/2023	ND	4.0000		
Silver, total	ug/L	MW-11	10/24/2014	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-11	04/07/2015	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-11	10/20/2015	ND	4.0000		
Silver, total	ug/L	MW-11	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-11	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-11	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-11	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-11	04/11/2018	ND	4.0000		
Silver, total	ug/L	MW-11	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-11	04/17/2019	ND	4.0000		
Silver, total	ug/L	MW-11	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-11	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-11	10/13/2020	ND	4.0000		
Silver, total	ug/L	MW-11	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-11	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-11	04/14/2022	ND	4.0000		
Silver, total	ug/L	MW-11	10/25/2022	ND	4.0000		
Silver, total	ug/L	MW-11	04/03/2023	ND	4.0000		
Thallium, total	ug/L	MW-11	10/24/2014	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-11	04/07/2015	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-11	10/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-11	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-11	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-11	04/13/2017	ND	4.0000	2.0000	**

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, total	ug/L	MW-11	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-11	04/11/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-11	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-11	04/17/2019	ND	2.0000		
Thallium, total	ug/L	MW-11	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-11	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-11	10/13/2020	ND	2.0000		
Thallium, total	ug/L	MW-11	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-11	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-11	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-11	10/25/2022	ND	2.0000		
Thallium, total	ug/L	MW-11	04/03/2023	ND	2.0000		
Vanadium, total	ug/L	MW-11	10/24/2014	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-11	04/07/2015	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-11	10/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW-11	04/11/2016	ND	20.0000		
Vanadium, total	ug/L	MW-11	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-11	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-11	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-11	04/11/2018	ND	20.0000		
Vanadium, total	ug/L	MW-11	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-11	04/17/2019	ND	20.0000		
Vanadium, total	ug/L	MW-11	10/15/2019	ND	20.0000		
Vanadium, total	ug/L	MW-11	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-11	10/13/2020	ND	20.0000		
Vanadium, total	ug/L	MW-11	04/12/2021	ND	20.0000		
Vanadium, total	ug/L	MW-11	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-11	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-11	10/25/2022	ND	20.0000		
Vanadium, total	ug/L	MW-11	04/03/2023	ND	20.0000		
Zinc, total	ug/L	MW-11	10/24/2014	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-11	04/07/2015	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-11	10/20/2015		25.3000		
Zinc, total	ug/L	MW-11	04/11/2016		9.5000		
Zinc, total	ug/L	MW-11	10/12/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-11	04/13/2017		8.3000		
Zinc, total	ug/L	MW-11	10/25/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-11	04/11/2018	ND	20.0000		
Zinc, total	ug/L	MW-11	10/16/2018		134.0000		*
Zinc, total	ug/L	MW-11	04/17/2019	ND	20.0000		
Zinc, total	ug/L	MW-11	10/15/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-11	04/06/2020	ND	20.0000		
Zinc, total	ug/L	MW-11	10/13/2020	ND	20.0000		
Zinc, total	ug/L	MW-11	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-11	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-11	04/14/2022	ND	20.0000		
Zinc, total	ug/L	MW-11	10/25/2022	ND	20.0000		
Zinc, total	ug/L	MW-11	04/03/2023	ND	20.0000		
Antimony, total	ug/L	MW-14R	10/22/2014	ND	6.0000	2.0000	**
Antimony, total	ug/L	MW-14R	04/27/2015	ND	6.0000	2.0000	**
Antimony, total	ug/L	MW-14R	10/20/2015	ND	2.0000		
Antimony, total	ug/L	MW-14R	04/11/2016	ND	2.0000		
Antimony, total	ug/L	MW-14R	10/12/2016	ND	2.0000		
Antimony, total	ug/L	MW-14R	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-14R	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-14R	04/11/2018	ND	2.0000		
Antimony, total	ug/L	MW-14R	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-14R	04/17/2019	ND	2.0000		
Antimony, total	ug/L	MW-14R	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-14R	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-14R	10/13/2020	ND	2.0000		
Antimony, total	ug/L	MW-14R	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-14R	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-14R	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-14R	10/25/2022	ND	2.0000		
Antimony, total	ug/L	MW-14R	04/03/2023	ND	2.0000		
Arsenic, total	ug/L	MW-14R	10/22/2014	ND	0.9450		*
Arsenic, total	ug/L	MW-14R	04/27/2015	ND	0.9450		*
Arsenic, total	ug/L	MW-14R	10/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW-14R	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-14R	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-14R	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-14R	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-14R	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	
Arsenic, total	ug/L	MW-14R	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-14R	04/17/2019		4.7000		
Arsenic, total	ug/L	MW-14R	10/15/2019		8.1000		
Arsenic, total	ug/L	MW-14R	04/06/2020		5.3000		
Arsenic, total	ug/L	MW-14R	10/13/2020	ND	4.0000		
Arsenic, total	ug/L	MW-14R	04/12/2021		4.3000		
Arsenic, total	ug/L	MW-14R	10/06/2021		5.5000		
Arsenic, total	ug/L	MW-14R	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-14R	10/25/2022	ND	4.0000		
Arsenic, total	ug/L	MW-14R	04/03/2023		8.7000		
Barium, total	ug/L	MW-14R	10/22/2014		51.0000		
Barium, total	ug/L	MW-14R	04/27/2015		47.8000		
Barium, total	ug/L	MW-14R	10/20/2015		46.2000		
Barium, total	ug/L	MW-14R	04/11/2016		43.8000		
Barium, total	ug/L	MW-14R	10/12/2016		53.2000		
Barium, total	ug/L	MW-14R	04/13/2017		47.4000		
Barium, total	ug/L	MW-14R	10/25/2017		52.4000		
Barium, total	ug/L	MW-14R	04/11/2018		62.7000		
Barium, total	ug/L	MW-14R	10/16/2018		49.5000		
Barium, total	ug/L	MW-14R	04/17/2019		69.4000		
Barium, total	ug/L	MW-14R	10/15/2019		95.0000		
Barium, total	ug/L	MW-14R	04/06/2020		77.2000		
Barium, total	ug/L	MW-14R	10/13/2020		63.6000		
Barium, total	ug/L	MW-14R	04/12/2021		61.5000		
Barium, total	ug/L	MW-14R	10/06/2021		69.7000		
Barium, total	ug/L	MW-14R	04/14/2022		58.0000		
Barium, total	ug/L	MW-14R	10/25/2022		54.6000		
Barium, total	ug/L	MW-14R	04/03/2023		88.9000		
Beryllium, total	ug/L	MW-14R	10/22/2014	ND	0.1000	4.0000	**
Beryllium, total	ug/L	MW-14R	04/27/2015	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-14R	10/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW-14R	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-14R	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-14R	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-14R	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-14R	04/11/2018	ND	4.0000		
Beryllium, total	ug/L	MW-14R	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-14R	04/17/2019	ND	4.0000		
Beryllium, total	ug/L	MW-14R	10/15/2019	ND	4.0000		
Beryllium, total	ug/L	MW-14R	04/06/2020	ND	4.0000		
Beryllium, total	ug/L	MW-14R	10/13/2020	ND	4.0000		
Beryllium, total	ug/L	MW-14R	04/12/2021	ND	4.0000		
Beryllium, total	ug/L	MW-14R	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-14R	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-14R	10/25/2022	ND	4.0000		
Beryllium, total	ug/L	MW-14R	04/03/2023	ND	4.0000		
Cadmium, total	ug/L	MW-14R	10/22/2014	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-14R	04/27/2015	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-14R	10/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW-14R	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-14R	10/12/2016	ND	0.8000		
Cadmium, total	ug/L	MW-14R	04/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-14R	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-14R	04/11/2018	ND	0.8000		
Cadmium, total	ug/L	MW-14R	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-14R	04/17/2019	ND	0.8000		
Cadmium, total	ug/L	MW-14R	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-14R	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-14R	10/13/2020	ND	0.8000		
Cadmium, total	ug/L	MW-14R	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-14R	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-14R	04/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW-14R	10/25/2022	ND	0.8000		
Cadmium, total	ug/L	MW-14R	04/03/2023	ND	0.8000		
Chromium, total	ug/L	MW-14R	10/22/2014	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-14R	04/27/2015	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-14R	10/20/2015	ND	8.0000		
Chromium, total	ug/L	MW-14R	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-14R	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-14R	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-14R	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-14R	04/11/2018	ND	8.0000		
Chromium, total	ug/L	MW-14R	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-14R	04/17/2019	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-14R	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-14R	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-14R	10/13/2020	ND	8.0000		
Chromium, total	ug/L	MW-14R	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-14R	10/06/2021	ND	8.0000		
Chromium, total	ug/L	MW-14R	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-14R	10/25/2022	ND	8.0000		
Chromium, total	ug/L	MW-14R	04/03/2023	ND	8.0000		
Cobalt, total	ug/L	MW-14R	10/22/2014	ND	0.2000	0.8000	**
Cobalt, total	ug/L	MW-14R	04/27/2015	ND	0.1000	0.8000	**
Cobalt, total	ug/L	MW-14R	10/20/2015	ND	0.8000		
Cobalt, total	ug/L	MW-14R	04/11/2016	ND	0.8000		
Cobalt, total	ug/L	MW-14R	10/12/2016	ND	0.8000		
Cobalt, total	ug/L	MW-14R	04/13/2017	ND	0.8000		
Cobalt, total	ug/L	MW-14R	10/25/2017	ND	0.8000		
Cobalt, total	ug/L	MW-14R	04/11/2018	ND	0.8000		
Cobalt, total	ug/L	MW-14R	10/16/2018	ND	0.8000		
Cobalt, total	ug/L	MW-14R	04/17/2019	ND	0.8000		
Cobalt, total	ug/L	MW-14R	10/15/2019	ND	0.8000		
Cobalt, total	ug/L	MW-14R	04/06/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-14R	10/13/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-14R	04/12/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-14R	10/06/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-14R	04/14/2022		0.4000		
Cobalt, total	ug/L	MW-14R	10/25/2022		0.8000		
Cobalt, total	ug/L	MW-14R	04/03/2023	ND	0.4000	0.8000	**
Copper, total	ug/L	MW-14R	10/22/2014	ND	2.0000	4.0000	**
Copper, total	ug/L	MW-14R	04/27/2015	ND	1.0000	4.0000	**
Copper, total	ug/L	MW-14R	10/20/2015	ND	4.0000		
Copper, total	ug/L	MW-14R	04/11/2016	ND	4.0000		
Copper, total	ug/L	MW-14R	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-14R	04/13/2017	ND	4.0000		
Copper, total	ug/L	MW-14R	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-14R	04/11/2018	ND	4.0000		
Copper, total	ug/L	MW-14R	10/16/2018	ND	4.0000		
Copper, total	ug/L	MW-14R	04/17/2019	ND	4.0000		
Copper, total	ug/L	MW-14R	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-14R	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-14R	10/13/2020	ND	4.0000		
Copper, total	ug/L	MW-14R	04/12/2021	ND	4.0000		
Copper, total	ug/L	MW-14R	10/06/2021	ND	4.0000		
Copper, total	ug/L	MW-14R	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-14R	10/25/2022	ND	4.0000		
Copper, total	ug/L	MW-14R	04/03/2023	ND	4.0000		
Lead, total	ug/L	MW-14R	10/22/2014	ND	0.5000	4.0000	**
Lead, total	ug/L	MW-14R	04/27/2015	ND	0.5000	4.0000	**
Lead, total	ug/L	MW-14R	10/20/2015	ND	4.0000		
Lead, total	ug/L	MW-14R	04/11/2016	ND	4.0000		
Lead, total	ug/L	MW-14R	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-14R	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-14R	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-14R	04/11/2018		4.8000		
Lead, total	ug/L	MW-14R	10/16/2018	ND	4.0000		
Lead, total	ug/L	MW-14R	04/17/2019	ND	4.0000		
Lead, total	ug/L	MW-14R	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-14R	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-14R	10/13/2020	ND	4.0000		
Lead, total	ug/L	MW-14R	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-14R	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-14R	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-14R	10/25/2022	ND	4.0000		
Lead, total	ug/L	MW-14R	04/03/2023	ND	4.0000		
Nickel, total	ug/L	MW-14R	10/22/2014	ND	0.5810	4.0000	**
Nickel, total	ug/L	MW-14R	04/27/2015	ND	0.5810	4.0000	**
Nickel, total	ug/L	MW-14R	10/20/2015	ND	4.0000		
Nickel, total	ug/L	MW-14R	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-14R	10/12/2016	ND	4.0000		
Nickel, total	ug/L	MW-14R	04/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-14R	10/25/2017	ND	4.0000		
Nickel, total	ug/L	MW-14R	04/11/2018	ND	4.0000		
Nickel, total	ug/L	MW-14R	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-14R	04/17/2019	ND	4.0000		
Nickel, total	ug/L	MW-14R	10/15/2019	ND	4.0000		
Nickel, total	ug/L	MW-14R	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	
Nickel, total	ug/L	MW-14R	10/13/2020	ND	4.0000		
Nickel, total	ug/L	MW-14R	04/12/2021	ND	4.0000		
Nickel, total	ug/L	MW-14R	10/06/2021	ND	4.0000		
Nickel, total	ug/L	MW-14R	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-14R	10/25/2022	ND	4.0000		
Nickel, total	ug/L	MW-14R	04/03/2023	ND	4.0000		
Selenium, total	ug/L	MW-14R	10/22/2014	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-14R	04/27/2015	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-14R	10/20/2015	ND	4.0000		
Selenium, total	ug/L	MW-14R	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-14R	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-14R	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-14R	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-14R	04/11/2018	ND	4.0000		
Selenium, total	ug/L	MW-14R	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-14R	04/17/2019	ND	4.0000		
Selenium, total	ug/L	MW-14R	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-14R	04/06/2020	ND	4.0000		
Selenium, total	ug/L	MW-14R	10/13/2020	ND	4.0000		
Selenium, total	ug/L	MW-14R	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-14R	10/06/2021	ND	4.0000		
Selenium, total	ug/L	MW-14R	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-14R	10/25/2022	ND	4.0000		
Selenium, total	ug/L	MW-14R	04/03/2023	ND	4.0000		
Silver, total	ug/L	MW-14R	10/22/2014	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-14R	04/27/2015	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-14R	10/20/2015	ND	4.0000		
Silver, total	ug/L	MW-14R	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-14R	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-14R	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-14R	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-14R	04/11/2018	ND	4.0000		
Silver, total	ug/L	MW-14R	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-14R	04/17/2019	ND	4.0000		
Silver, total	ug/L	MW-14R	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-14R	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-14R	10/13/2020	ND	4.0000		
Silver, total	ug/L	MW-14R	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-14R	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-14R	04/14/2022	ND	4.0000		
Silver, total	ug/L	MW-14R	10/25/2022	ND	4.0000		
Silver, total	ug/L	MW-14R	04/03/2023	ND	4.0000		
Thallium, total	ug/L	MW-14R	10/22/2014	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-14R	04/27/2015	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-14R	10/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-14R	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-14R	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-14R	04/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-14R	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-14R	04/11/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-14R	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-14R	04/17/2019	ND	2.0000		
Thallium, total	ug/L	MW-14R	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-14R	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-14R	10/13/2020	ND	2.0000		
Thallium, total	ug/L	MW-14R	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-14R	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-14R	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-14R	10/25/2022	ND	2.0000		
Thallium, total	ug/L	MW-14R	04/03/2023	ND	2.0000		
Vanadium, total	ug/L	MW-14R	10/22/2014	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-14R	04/27/2015	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-14R	10/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW-14R	04/11/2016	ND	20.0000		
Vanadium, total	ug/L	MW-14R	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-14R	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-14R	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-14R	04/11/2018	ND	20.0000		
Vanadium, total	ug/L	MW-14R	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-14R	04/17/2019	ND	20.0000		
Vanadium, total	ug/L	MW-14R	10/15/2019	ND	20.0000		
Vanadium, total	ug/L	MW-14R	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-14R	10/13/2020	ND	20.0000		
Vanadium, total	ug/L	MW-14R	04/12/2021	ND	20.0000		

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium, total	ug/L	MW-14R	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-14R	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-14R	10/25/2022	ND	20.0000		
Vanadium, total	ug/L	MW-14R	04/03/2023	ND	20.0000		
Zinc, total	ug/L	MW-14R	10/22/2014	ND	10.0000	20.0000	**
Zinc, total	ug/L	MW-14R	04/27/2015	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-14R	10/20/2015		22.4000		
Zinc, total	ug/L	MW-14R	04/11/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-14R	10/12/2016		47.1000		
Zinc, total	ug/L	MW-14R	04/13/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-14R	10/25/2017		33.1000		
Zinc, total	ug/L	MW-14R	04/11/2018		92.6000		
Zinc, total	ug/L	MW-14R	10/16/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-14R	04/17/2019	ND	20.0000		
Zinc, total	ug/L	MW-14R	10/15/2019	ND	20.0000		
Zinc, total	ug/L	MW-14R	04/06/2020	ND	20.0000		
Zinc, total	ug/L	MW-14R	10/13/2020	ND	20.0000		
Zinc, total	ug/L	MW-14R	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-14R	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-14R	04/14/2022	ND	20.0000		
Zinc, total	ug/L	MW-14R	10/25/2022	ND	20.0000		
Zinc, total	ug/L	MW-14R	04/03/2023	ND	20.0000		
Antimony, total	ug/L	MW-18	10/21/2014	ND	0.1610	2.0000	**
Antimony, total	ug/L	MW-18	04/07/2015	ND	0.1610	2.0000	**
Antimony, total	ug/L	MW-18	10/20/2015	ND	2.0000		
Antimony, total	ug/L	MW-18	04/11/2016	ND	2.0000		
Antimony, total	ug/L	MW-18	10/12/2016	ND	2.0000		
Antimony, total	ug/L	MW-18	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-18	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-18	04/11/2018	ND	2.0000		
Antimony, total	ug/L	MW-18	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-18	04/17/2019	ND	2.0000		
Antimony, total	ug/L	MW-18	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-18	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-18	10/13/2020	ND	2.0000		
Antimony, total	ug/L	MW-18	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-18	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-18	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-18	10/25/2022	ND	2.0000		
Antimony, total	ug/L	MW-18	04/03/2023	ND	2.0000		
Arsenic, total	ug/L	MW-18	10/21/2014	ND	0.9450	4.0000	**
Arsenic, total	ug/L	MW-18	04/07/2015	ND	0.9450	4.0000	**
Arsenic, total	ug/L	MW-18	10/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW-18	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-18	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-18	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-18	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-18	04/11/2018	ND	4.0000		
Arsenic, total	ug/L	MW-18	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-18	04/17/2019	ND	4.0000		
Arsenic, total	ug/L	MW-18	10/15/2019	ND	4.0000		
Arsenic, total	ug/L	MW-18	04/06/2020	ND	4.0000		
Arsenic, total	ug/L	MW-18	10/13/2020	ND	4.0000		
Arsenic, total	ug/L	MW-18	04/12/2021	ND	4.0000		
Arsenic, total	ug/L	MW-18	10/06/2021	ND	4.0000		
Arsenic, total	ug/L	MW-18	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-18	10/25/2022	ND	4.0000		
Arsenic, total	ug/L	MW-18	04/03/2023	ND	4.0000		
Barium, total	ug/L	MW-18	10/21/2014		511.0000		
Barium, total	ug/L	MW-18	04/07/2015		433.0000		
Barium, total	ug/L	MW-18	10/20/2015		456.0000		
Barium, total	ug/L	MW-18	04/11/2016		387.0000		
Barium, total	ug/L	MW-18	10/12/2016		445.0000		
Barium, total	ug/L	MW-18	04/13/2017		448.0000		
Barium, total	ug/L	MW-18	10/25/2017		456.0000		
Barium, total	ug/L	MW-18	04/11/2018		501.0000		
Barium, total	ug/L	MW-18	10/16/2018		467.0000		
Barium, total	ug/L	MW-18	04/17/2019		442.0000		
Barium, total	ug/L	MW-18	10/15/2019		537.0000		
Barium, total	ug/L	MW-18	04/06/2020		432.0000		
Barium, total	ug/L	MW-18	10/13/2020		443.0000		
Barium, total	ug/L	MW-18	04/12/2021		420.0000		
Barium, total	ug/L	MW-18	10/06/2021		411.0000		
Barium, total	ug/L	MW-18	04/14/2022		440.0000		

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Barium, total	ug/L	MW-18	10/25/2022		430.0000		
Barium, total	ug/L	MW-18	04/03/2023		432.0000		
Beryllium, total	ug/L	MW-18	10/21/2014	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-18	04/07/2015	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-18	10/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/11/2018	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/17/2019	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/15/2019	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/06/2020	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/13/2020	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/12/2021	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-18	10/25/2022	ND	4.0000		
Beryllium, total	ug/L	MW-18	04/03/2023	ND	4.0000		
Cadmium, total	ug/L	MW-18	10/21/2014	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-18	04/07/2015	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-18	10/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW-18	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-18	10/12/2016	ND	0.8000		
Cadmium, total	ug/L	MW-18	04/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-18	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-18	04/11/2018	ND	0.8000		
Cadmium, total	ug/L	MW-18	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-18	04/17/2019	ND	0.8000		
Cadmium, total	ug/L	MW-18	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-18	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-18	10/13/2020	ND	0.8000		
Cadmium, total	ug/L	MW-18	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-18	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-18	04/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW-18	10/25/2022	ND	0.8000		
Cadmium, total	ug/L	MW-18	04/03/2023	ND	0.8000		
Chromium, total	ug/L	MW-18	10/21/2014	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-18	04/07/2015	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-18	10/20/2015	ND	8.0000		
Chromium, total	ug/L	MW-18	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-18	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-18	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-18	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-18	04/11/2018	ND	8.0000		
Chromium, total	ug/L	MW-18	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-18	04/17/2019	ND	8.0000		
Chromium, total	ug/L	MW-18	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-18	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-18	10/13/2020	ND	8.0000		
Chromium, total	ug/L	MW-18	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-18	10/06/2021	ND	8.0000		
Chromium, total	ug/L	MW-18	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-18	10/25/2022	ND	8.0000		
Chromium, total	ug/L	MW-18	04/03/2023	ND	8.0000		
Cobalt, total	ug/L	MW-18	10/21/2014		0.7560		
Cobalt, total	ug/L	MW-18	04/07/2015	ND	1.0000	0.8000	**
Cobalt, total	ug/L	MW-18	10/20/2015	ND	0.8000		
Cobalt, total	ug/L	MW-18	04/11/2016	ND	0.8000		
Cobalt, total	ug/L	MW-18	10/12/2016	ND	0.8000		
Cobalt, total	ug/L	MW-18	04/13/2017	ND	0.8000		
Cobalt, total	ug/L	MW-18	10/25/2017	ND	0.8000		
Cobalt, total	ug/L	MW-18	04/11/2018	ND	0.8000		
Cobalt, total	ug/L	MW-18	10/16/2018	ND	0.8000		
Cobalt, total	ug/L	MW-18	04/17/2019	ND	0.8000		
Cobalt, total	ug/L	MW-18	10/15/2019	ND	0.8000		
Cobalt, total	ug/L	MW-18	04/06/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-18	10/13/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-18	04/12/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-18	10/06/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-18	04/14/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-18	10/25/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-18	04/03/2023	ND	0.4000	0.8000	**

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Copper, total	ug/L	MW-18	10/21/2014	ND	0.4850	4.0000	**
Copper, total	ug/L	MW-18	04/07/2015	ND	0.4850	4.0000	**
Copper, total	ug/L	MW-18	10/20/2015	ND	4.0000		
Copper, total	ug/L	MW-18	04/11/2016	ND	4.0000		
Copper, total	ug/L	MW-18	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-18	04/13/2017	ND	4.0000		
Copper, total	ug/L	MW-18	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-18	04/11/2018	ND	4.0000		
Copper, total	ug/L	MW-18	10/16/2018		4.5000		
Copper, total	ug/L	MW-18	04/17/2019	ND	4.0000		
Copper, total	ug/L	MW-18	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-18	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-18	10/13/2020	ND	4.0000		
Copper, total	ug/L	MW-18	04/12/2021	ND	4.0000		
Copper, total	ug/L	MW-18	10/06/2021		11.9000		
Copper, total	ug/L	MW-18	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-18	10/25/2022	ND	4.0000		
Copper, total	ug/L	MW-18	04/03/2023	ND	4.0000		
Lead, total	ug/L	MW-18	10/21/2014	ND	0.0967	4.0000	**
Lead, total	ug/L	MW-18	04/07/2015	ND	0.0967	4.0000	**
Lead, total	ug/L	MW-18	10/20/2015	ND	4.0000		
Lead, total	ug/L	MW-18	04/11/2016	ND	4.0000		
Lead, total	ug/L	MW-18	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-18	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-18	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-18	04/11/2018	ND	4.0000		
Lead, total	ug/L	MW-18	10/16/2018	ND	4.0000		
Lead, total	ug/L	MW-18	04/17/2019	ND	4.0000		
Lead, total	ug/L	MW-18	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-18	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-18	10/13/2020	ND	4.0000		
Lead, total	ug/L	MW-18	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-18	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-18	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-18	10/25/2022	ND	4.0000		
Lead, total	ug/L	MW-18	04/03/2023	ND	4.0000		
Nickel, total	ug/L	MW-18	10/21/2014	ND	2.0000	4.0000	**
Nickel, total	ug/L	MW-18	04/07/2015	ND	0.5810	4.0000	**
Nickel, total	ug/L	MW-18	10/20/2015	ND	4.0000		
Nickel, total	ug/L	MW-18	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-18	10/12/2016	ND	4.0000		
Nickel, total	ug/L	MW-18	04/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-18	10/25/2017	ND	4.0000		
Nickel, total	ug/L	MW-18	04/11/2018	ND	4.0000		
Nickel, total	ug/L	MW-18	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-18	04/17/2019	ND	4.0000		
Nickel, total	ug/L	MW-18	10/15/2019	ND	4.0000		
Nickel, total	ug/L	MW-18	04/06/2020	ND	4.0000		
Nickel, total	ug/L	MW-18	10/13/2020	ND	4.0000		
Nickel, total	ug/L	MW-18	04/12/2021	ND	4.0000		
Nickel, total	ug/L	MW-18	10/06/2021	ND	4.0000		
Nickel, total	ug/L	MW-18	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-18	10/25/2022	ND	4.0000		
Nickel, total	ug/L	MW-18	04/03/2023	ND	4.0000		
Selenium, total	ug/L	MW-18	10/21/2014	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-18	04/07/2015	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-18	10/20/2015	ND	4.0000		
Selenium, total	ug/L	MW-18	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-18	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-18	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-18	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-18	04/11/2018	ND	4.0000		
Selenium, total	ug/L	MW-18	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-18	04/17/2019	ND	4.0000		
Selenium, total	ug/L	MW-18	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-18	04/06/2020	ND	4.0000		
Selenium, total	ug/L	MW-18	10/13/2020	ND	4.0000		
Selenium, total	ug/L	MW-18	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-18	10/06/2021	ND	4.0000		
Selenium, total	ug/L	MW-18	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-18	10/25/2022	ND	4.0000		
Selenium, total	ug/L	MW-18	04/03/2023	ND	4.0000		
Silver, total	ug/L	MW-18	10/21/2014	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-18	04/07/2015	ND	0.0420	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-18	10/20/2015	ND	4.0000		
Silver, total	ug/L	MW-18	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-18	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-18	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-18	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-18	04/11/2018	ND	4.0000		
Silver, total	ug/L	MW-18	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-18	04/17/2019	ND	4.0000		
Silver, total	ug/L	MW-18	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-18	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-18	10/13/2020	ND	4.0000		
Silver, total	ug/L	MW-18	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-18	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-18	04/14/2022	ND	4.0000		
Silver, total	ug/L	MW-18	10/25/2022	ND	4.0000		
Silver, total	ug/L	MW-18	04/03/2023	ND	4.0000		
Thallium, total	ug/L	MW-18	10/21/2014	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-18	04/07/2015	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-18	10/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	04/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	04/11/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-18	04/17/2019	ND	2.0000		
Thallium, total	ug/L	MW-18	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-18	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-18	10/13/2020	ND	2.0000		
Thallium, total	ug/L	MW-18	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-18	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-18	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-18	10/25/2022	ND	2.0000		
Thallium, total	ug/L	MW-18	04/03/2023	ND	2.0000		
Vanadium, total	ug/L	MW-18	10/21/2014	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-18	04/07/2015	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-18	10/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/11/2016	ND	20.0000		
Vanadium, total	ug/L	MW-18	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-18	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/11/2018	ND	20.0000		
Vanadium, total	ug/L	MW-18	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/17/2019	ND	20.0000		
Vanadium, total	ug/L	MW-18	10/15/2019	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-18	10/13/2020	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/12/2021	ND	20.0000		
Vanadium, total	ug/L	MW-18	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-18	10/25/2022	ND	20.0000		
Vanadium, total	ug/L	MW-18	04/03/2023	ND	20.0000		
Zinc, total	ug/L	MW-18	10/21/2014	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-18	04/07/2015	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-18	10/20/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	04/11/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	10/12/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	04/13/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	10/25/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	04/11/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	10/16/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	04/17/2019	ND	20.0000		
Zinc, total	ug/L	MW-18	10/15/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-18	04/06/2020	ND	20.0000		
Zinc, total	ug/L	MW-18	10/13/2020	ND	20.0000		
Zinc, total	ug/L	MW-18	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-18	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-18	04/14/2022	ND	20.0000		
Zinc, total	ug/L	MW-18	10/25/2022	ND	20.0000		
Zinc, total	ug/L	MW-18	04/03/2023	ND	20.0000		
Antimony, total	ug/L	MW-20	10/21/2014	ND	0.1610	2.0000	**
Antimony, total	ug/L	MW-20	04/06/2015	ND	0.1610	2.0000	**
Antimony, total	ug/L	MW-20	10/20/2015	ND	2.0000		
Antimony, total	ug/L	MW-20	04/11/2016	ND	2.0000		

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-20	10/12/2016	ND	2.0000		
Antimony, total	ug/L	MW-20	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-20	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-20	04/11/2018	ND	2.0000		
Antimony, total	ug/L	MW-20	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-20	04/17/2019	ND	2.0000		
Antimony, total	ug/L	MW-20	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-20	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-20	10/13/2020	ND	2.0000		
Antimony, total	ug/L	MW-20	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-20	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-20	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-20	10/25/2022	ND	2.0000		
Antimony, total	ug/L	MW-20	04/03/2023	ND	2.0000		
Arsenic, total	ug/L	MW-20	10/21/2014	ND	2.0000	4.0000	**
Arsenic, total	ug/L	MW-20	04/06/2015	ND	2.0000	4.0000	**
Arsenic, total	ug/L	MW-20	10/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW-20	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-20	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-20	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-20	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-20	04/11/2018	ND	4.0000		
Arsenic, total	ug/L	MW-20	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-20	04/17/2019	ND	4.0000		
Arsenic, total	ug/L	MW-20	10/15/2019	ND	4.0000		
Arsenic, total	ug/L	MW-20	04/06/2020	ND	4.0000		
Arsenic, total	ug/L	MW-20	10/13/2020	ND	4.0000		
Arsenic, total	ug/L	MW-20	04/12/2021	ND	4.0000		
Arsenic, total	ug/L	MW-20	10/06/2021	ND	4.0000		
Arsenic, total	ug/L	MW-20	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-20	10/25/2022	ND	4.0000		
Arsenic, total	ug/L	MW-20	04/03/2023	ND	4.0000		
Barium, total	ug/L	MW-20	10/21/2014		123.0000		
Barium, total	ug/L	MW-20	04/06/2015		121.0000		
Barium, total	ug/L	MW-20	10/20/2015		98.2000		
Barium, total	ug/L	MW-20	04/11/2016		83.6000		
Barium, total	ug/L	MW-20	10/12/2016		115.0000		
Barium, total	ug/L	MW-20	04/13/2017		105.0000		
Barium, total	ug/L	MW-20	10/25/2017		93.0000		
Barium, total	ug/L	MW-20	04/11/2018		102.0000		
Barium, total	ug/L	MW-20	10/16/2018		98.8000		
Barium, total	ug/L	MW-20	04/17/2019		101.0000		
Barium, total	ug/L	MW-20	10/15/2019		109.0000		
Barium, total	ug/L	MW-20	04/06/2020		89.1000		
Barium, total	ug/L	MW-20	10/13/2020		94.3000		
Barium, total	ug/L	MW-20	04/12/2021		89.6000		
Barium, total	ug/L	MW-20	10/06/2021		84.8000		
Barium, total	ug/L	MW-20	04/14/2022		93.7000		
Barium, total	ug/L	MW-20	10/25/2022		112.0000		
Barium, total	ug/L	MW-20	04/03/2023		108.0000		
Beryllium, total	ug/L	MW-20	10/21/2014	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-20	04/06/2015	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-20	10/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW-20	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-20	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-20	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-20	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-20	04/11/2018	ND	4.0000		
Beryllium, total	ug/L	MW-20	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-20	04/17/2019	ND	4.0000		
Beryllium, total	ug/L	MW-20	10/15/2019	ND	4.0000		
Beryllium, total	ug/L	MW-20	04/06/2020	ND	4.0000		
Beryllium, total	ug/L	MW-20	10/13/2020	ND	4.0000		
Beryllium, total	ug/L	MW-20	04/12/2021	ND	4.0000		
Beryllium, total	ug/L	MW-20	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-20	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-20	10/25/2022	ND	4.0000		
Beryllium, total	ug/L	MW-20	04/03/2023	ND	4.0000		
Cadmium, total	ug/L	MW-20	10/21/2014	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-20	04/06/2015	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-20	10/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW-20	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-20	10/12/2016	ND	0.8000		
Cadmium, total	ug/L	MW-20	04/13/2017	ND	0.8000		

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW-20	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-20	04/11/2018	ND	0.8000		
Cadmium, total	ug/L	MW-20	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-20	04/17/2019	ND	0.8000		
Cadmium, total	ug/L	MW-20	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-20	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-20	10/13/2020	ND	0.8000		
Cadmium, total	ug/L	MW-20	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-20	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-20	04/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW-20	10/25/2022	ND	0.8000		
Cadmium, total	ug/L	MW-20	04/03/2023	ND	0.8000		
Chromium, total	ug/L	MW-20	10/21/2014	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-20	04/06/2015	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-20	10/20/2015	ND	8.0000		
Chromium, total	ug/L	MW-20	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-20	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-20	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-20	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-20	04/11/2018	ND	8.0000		
Chromium, total	ug/L	MW-20	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-20	04/17/2019	ND	8.0000		
Chromium, total	ug/L	MW-20	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-20	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-20	10/13/2020	ND	8.0000		
Chromium, total	ug/L	MW-20	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-20	10/06/2021	ND	8.0000		
Chromium, total	ug/L	MW-20	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-20	10/25/2022	ND	8.0000		
Chromium, total	ug/L	MW-20	04/03/2023	ND	8.0000		
Cobalt, total	ug/L	MW-20	10/21/2014	ND	0.0528	0.8000	**
Cobalt, total	ug/L	MW-20	04/06/2015	ND	1.0000	0.8000	**
Cobalt, total	ug/L	MW-20	10/20/2015	ND	0.8000		
Cobalt, total	ug/L	MW-20	04/11/2016	ND	0.8000		
Cobalt, total	ug/L	MW-20	10/12/2016	ND	0.8000		
Cobalt, total	ug/L	MW-20	04/13/2017	ND	0.8000		
Cobalt, total	ug/L	MW-20	10/25/2017	ND	0.8000		
Cobalt, total	ug/L	MW-20	04/11/2018	ND	0.8000		
Cobalt, total	ug/L	MW-20	10/16/2018	ND	0.8000		
Cobalt, total	ug/L	MW-20	04/17/2019	ND	0.8000		
Cobalt, total	ug/L	MW-20	10/15/2019	ND	0.8000		
Cobalt, total	ug/L	MW-20	04/06/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	10/13/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	04/12/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	10/06/2021		1.0000		
Cobalt, total	ug/L	MW-20	04/14/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	10/25/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	04/03/2023		0.5000		
Copper, total	ug/L	MW-20	10/21/2014	ND	0.4850	4.0000	**
Copper, total	ug/L	MW-20	04/06/2015	ND	0.4850	4.0000	**
Copper, total	ug/L	MW-20	10/20/2015	ND	4.0000		
Copper, total	ug/L	MW-20	04/11/2016	ND	4.0000		
Copper, total	ug/L	MW-20	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-20	04/13/2017		18.7000		*
Copper, total	ug/L	MW-20	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-20	04/11/2018		4.6000		
Copper, total	ug/L	MW-20	10/16/2018	ND	4.0000		
Copper, total	ug/L	MW-20	04/17/2019	ND	4.0000		
Copper, total	ug/L	MW-20	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-20	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-20	10/13/2020	ND	4.0000		
Copper, total	ug/L	MW-20	04/12/2021	ND	4.0000		
Copper, total	ug/L	MW-20	10/06/2021	ND	4.0000		
Copper, total	ug/L	MW-20	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-20	10/25/2022	ND	4.0000		
Copper, total	ug/L	MW-20	04/03/2023	ND	4.0000		
Lead, total	ug/L	MW-20	10/21/2014	ND	0.0967	4.0000	**
Lead, total	ug/L	MW-20	04/06/2015	ND	0.0967	4.0000	**
Lead, total	ug/L	MW-20	10/20/2015	ND	4.0000		
Lead, total	ug/L	MW-20	04/11/2016	ND	4.0000		
Lead, total	ug/L	MW-20	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-20	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-20	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-20	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	
Lead, total	ug/L	MW-20	10/16/2018	ND	4.0000		
Lead, total	ug/L	MW-20	04/17/2019	ND	4.0000		
Lead, total	ug/L	MW-20	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-20	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-20	10/13/2020	ND	4.0000		
Lead, total	ug/L	MW-20	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-20	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-20	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-20	10/25/2022	ND	4.0000		
Lead, total	ug/L	MW-20	04/03/2023	ND	4.0000		
Nickel, total	ug/L	MW-20	10/21/2014	ND	0.5810	4.0000	**
Nickel, total	ug/L	MW-20	04/06/2015	ND	0.5810	4.0000	**
Nickel, total	ug/L	MW-20	10/20/2015	ND	4.0000		
Nickel, total	ug/L	MW-20	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-20	10/12/2016	ND	4.0000		
Nickel, total	ug/L	MW-20	04/13/2017		4.5000		
Nickel, total	ug/L	MW-20	10/25/2017	ND	4.0000		
Nickel, total	ug/L	MW-20	04/11/2018	ND	4.0000		
Nickel, total	ug/L	MW-20	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-20	04/17/2019	ND	4.0000		
Nickel, total	ug/L	MW-20	10/15/2019	ND	4.0000		
Nickel, total	ug/L	MW-20	04/06/2020	ND	4.0000		
Nickel, total	ug/L	MW-20	10/13/2020	ND	4.0000		
Nickel, total	ug/L	MW-20	04/12/2021	ND	4.0000		
Nickel, total	ug/L	MW-20	10/06/2021	ND	4.0000		
Nickel, total	ug/L	MW-20	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-20	10/25/2022	ND	4.0000		
Nickel, total	ug/L	MW-20	04/03/2023	ND	4.0000		
Selenium, total	ug/L	MW-20	10/21/2014	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-20	04/06/2015	ND	3.3400	4.0000	**
Selenium, total	ug/L	MW-20	10/20/2015	ND	4.0000		
Selenium, total	ug/L	MW-20	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-20	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-20	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-20	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-20	04/11/2018	ND	4.0000		
Selenium, total	ug/L	MW-20	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-20	04/17/2019	ND	4.0000		
Selenium, total	ug/L	MW-20	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-20	04/06/2020	ND	4.0000		
Selenium, total	ug/L	MW-20	10/13/2020	ND	4.0000		
Selenium, total	ug/L	MW-20	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-20	10/06/2021	ND	4.0000		
Selenium, total	ug/L	MW-20	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-20	10/25/2022	ND	4.0000		
Selenium, total	ug/L	MW-20	04/03/2023	ND	4.0000		
Silver, total	ug/L	MW-20	10/21/2014	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-20	04/06/2015	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-20	10/20/2015	ND	4.0000		
Silver, total	ug/L	MW-20	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-20	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-20	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-20	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-20	04/11/2018	ND	4.0000		
Silver, total	ug/L	MW-20	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-20	04/17/2019	ND	4.0000		
Silver, total	ug/L	MW-20	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-20	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-20	10/13/2020	ND	4.0000		
Silver, total	ug/L	MW-20	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-20	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-20	04/14/2022	ND	4.0000		
Silver, total	ug/L	MW-20	10/25/2022	ND	4.0000		
Silver, total	ug/L	MW-20	04/03/2023	ND	4.0000		
Thallium, total	ug/L	MW-20	10/21/2014	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-20	04/06/2015	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-20	10/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	04/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	04/11/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	04/17/2019	ND	2.0000		

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, total	ug/L	MW-20	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-20	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-20	10/13/2020	ND	2.0000		
Thallium, total	ug/L	MW-20	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-20	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-20	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-20	10/25/2022	ND	2.0000		
Thallium, total	ug/L	MW-20	04/03/2023	ND	2.0000		
Vanadium, total	ug/L	MW-20	10/21/2014	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-20	04/06/2015	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-20	10/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW-20	04/11/2016	ND	20.0000		
Vanadium, total	ug/L	MW-20	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-20	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-20	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-20	04/11/2018	ND	20.0000		
Vanadium, total	ug/L	MW-20	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-20	04/17/2019	ND	20.0000		
Vanadium, total	ug/L	MW-20	10/15/2019	ND	20.0000		
Vanadium, total	ug/L	MW-20	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-20	10/13/2020	ND	20.0000		
Vanadium, total	ug/L	MW-20	04/12/2021	ND	20.0000		
Vanadium, total	ug/L	MW-20	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-20	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-20	10/25/2022	ND	20.0000		
Vanadium, total	ug/L	MW-20	04/03/2023	ND	20.0000		
Zinc, total	ug/L	MW-20	10/21/2014	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-20	04/06/2015	ND	6.9500	20.0000	**
Zinc, total	ug/L	MW-20	10/20/2015		26.7000		
Zinc, total	ug/L	MW-20	04/11/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	10/12/2016		13.7000		
Zinc, total	ug/L	MW-20	04/13/2017		21.1000		
Zinc, total	ug/L	MW-20	10/25/2017		15.5000		
Zinc, total	ug/L	MW-20	04/11/2018		11.0000		
Zinc, total	ug/L	MW-20	10/16/2018		11.7000		
Zinc, total	ug/L	MW-20	04/17/2019	ND	20.0000		
Zinc, total	ug/L	MW-20	10/15/2019	ND	20.0000		
Zinc, total	ug/L	MW-20	04/06/2020	ND	20.0000		
Zinc, total	ug/L	MW-20	10/13/2020	ND	20.0000		
Zinc, total	ug/L	MW-20	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-20	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-20	04/14/2022	ND	20.0000		
Zinc, total	ug/L	MW-20	10/25/2022	ND	20.0000		
Zinc, total	ug/L	MW-20	04/03/2023	ND	20.0000		

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

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result	Pred. Limit
Antimony, total	ug/L	MW-10	04/03/2023	ND	2.0000	2.0000
Arsenic, total	ug/L	MW-10	04/03/2023	ND	4.0000	8.7000
Barium, total	ug/L	MW-10	04/03/2023		34.5000	537.0000
Beryllium, total	ug/L	MW-10	04/03/2023	ND	4.0000	4.0000
Cadmium, total	ug/L	MW-10	04/03/2023	ND	0.8000	0.8000
Chromium, total	ug/L	MW-10	04/03/2023	ND	8.0000	8.0000
Cobalt, total	ug/L	MW-10	04/03/2023	ND	0.4000	1.5000
Copper, total	ug/L	MW-10	04/03/2023	ND	4.0000	11.9000
Lead, total	ug/L	MW-10	04/03/2023	ND	4.0000	4.8000
Nickel, total	ug/L	MW-10	04/03/2023	ND	4.0000	4.9000
Selenium, total	ug/L	MW-10	04/03/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-10	04/03/2023	ND	4.0000	4.0000
Thallium, total	ug/L	MW-10	04/03/2023	ND	2.0000	2.0000
Vanadium, total	ug/L	MW-10	04/03/2023	ND	20.0000	20.0000
Zinc, total	ug/L	MW-10	04/03/2023	ND	20.0000	92.6000
Antimony, total	ug/L	MW-6	04/03/2023	ND	2.0000	2.0000
Arsenic, total	ug/L	MW-6	04/03/2023	ND	4.0000	8.7000
Barium, total	ug/L	MW-6	04/03/2023		90.3000	537.0000
Beryllium, total	ug/L	MW-6	04/03/2023	ND	4.0000	4.0000
Cadmium, total	ug/L	MW-6	04/03/2023	ND	0.8000	0.8000
Chromium, total	ug/L	MW-6	04/03/2023	ND	8.0000	8.0000
Cobalt, total	ug/L	MW-6	04/03/2023	ND	0.4000	1.5000
Copper, total	ug/L	MW-6	04/03/2023	ND	4.0000	11.9000
Lead, total	ug/L	MW-6	04/03/2023	ND	4.0000	4.8000
Nickel, total	ug/L	MW-6	04/03/2023	ND	4.0000	4.9000
Selenium, total	ug/L	MW-6	04/03/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-6	04/03/2023	ND	4.0000	4.0000
Thallium, total	ug/L	MW-6	04/03/2023	ND	2.0000	2.0000
Vanadium, total	ug/L	MW-6	04/03/2023	ND	20.0000	20.0000
Zinc, total	ug/L	MW-6	04/03/2023	ND	20.0000	92.6000
Antimony, total	ug/L	MW-8	04/03/2023	ND	2.0000	2.0000
Arsenic, total	ug/L	MW-8	04/03/2023	ND	4.0000	8.7000
Barium, total	ug/L	MW-8	04/03/2023		46.6000	537.0000
Beryllium, total	ug/L	MW-8	04/03/2023	ND	4.0000	4.0000
Cadmium, total	ug/L	MW-8	04/03/2023	ND	0.8000	0.8000
Chromium, total	ug/L	MW-8	04/03/2023	ND	8.0000	8.0000
Cobalt, total	ug/L	MW-8	04/03/2023	ND	0.4000	1.5000
Copper, total	ug/L	MW-8	04/03/2023	ND	4.0000	11.9000
Lead, total	ug/L	MW-8	04/03/2023	ND	4.0000	4.8000
Nickel, total	ug/L	MW-8	04/03/2023	ND	4.0000	4.9000
Selenium, total	ug/L	MW-8	04/03/2023	ND	4.0000	4.0000
Silver, total	ug/L	MW-8	04/03/2023	ND	4.0000	4.0000
Thallium, total	ug/L	MW-8	04/03/2023	ND	2.0000	2.0000
Vanadium, total	ug/L	MW-8	04/03/2023	ND	20.0000	20.0000
Zinc, total	ug/L	MW-8	04/03/2023	ND	20.0000	92.6000

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

Table 3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Antimony, total	0	72	0.000	2	100	0.020
Arsenic, total	6	70	0.086	34	106	0.321
Barium, total	72	72	1.000	100	100	1.000
Beryllium, total	0	72	0.000	0	100	0.000
Cadmium, total	0	72	0.000	1	99	0.010
Chromium, total	0	72	0.000	4	101	0.040
Cobalt, total	16	72	0.222	7	103	0.068
Copper, total	4	71	0.056	15	103	0.146
Lead, total	3	72	0.042	8	101	0.079
Nickel, total	4	72	0.056	8	102	0.078
Selenium, total	0	72	0.000	0	100	0.000
Silver, total	0	72	0.000	0	100	0.000
Thallium, total	0	72	0.000	0	100	0.000
Vanadium, total	0	72	0.000	1	101	0.010
Zinc, total	13	71	0.183	26	103	0.252

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	72	0.000									nonpar
Arsenic, total	6	70	0.086	1.007	0.566					2.326	normal	nonpar
Barium, total	72	72	1.000	4.199	2.648					2.326	non-norm	nonpar
Beryllium, total	0	72	0.000									nonpar
Cadmium, total	0	72	0.000									nonpar
Chromium, total	0	72	0.000									nonpar
Cobalt, total	16	72	0.222	2.104	0.995					2.326	normal	nonpar
Copper, total	4	71	0.056									nonpar
Lead, total	3	72	0.042									nonpar
Nickel, total	4	72	0.056	0.346	0.267					2.326	normal	nonpar
Selenium, total	0	72	0.000									nonpar
Silver, total	0	72	0.000									nonpar
Thallium, total	0	72	0.000									nonpar
Vanadium, total	0	72	0.000									nonpar
Zinc, total	13	71	0.183	1.141	0.333					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	72					2.0000	nonpar	***	0.99
Arsenic, total	ug/L	6	70					8.7000	nonpar		0.99
Barium, total	ug/L	72	72					537.0000	nonpar		0.99
Beryllium, total	ug/L	0	72					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	0	72					0.8000	nonpar	***	0.99
Chromium, total	ug/L	0	72					8.0000	nonpar	***	0.99
Cobalt, total	ug/L	16	72					1.5000	nonpar		0.99
Copper, total	ug/L	4	71					11.9000	nonpar		0.99
Lead, total	ug/L	3	72					4.8000	nonpar		0.99
Nickel, total	ug/L	4	72					4.9000	nonpar		0.99
Selenium, total	ug/L	0	72					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	72					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	72					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	0	72					20.0000	nonpar	***	0.99
Zinc, total	ug/L	13	71					92.6000	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.

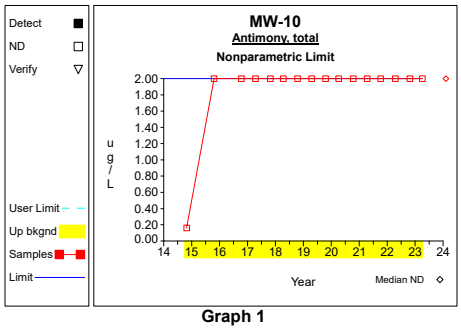
Table 6

Dixon's Test Outliers
1% Significance Level

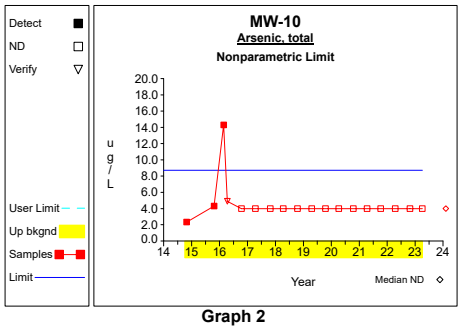
Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Arsenic, total	ug/L	MW-14R	10/22/2014	0.9450	< 0.9450	10/22/2014-04/03/2023	18	0.5798
Arsenic, total	ug/L	MW-14R	04/27/2015	0.9450	< 0.9450	10/22/2014-04/03/2023	18	0.5798

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.

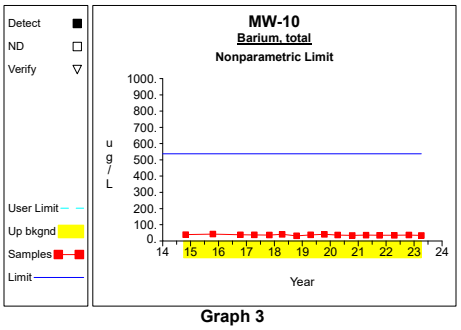
Up vs. Down Prediction Limits



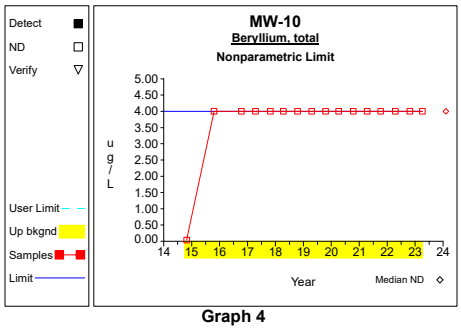
Graph 1



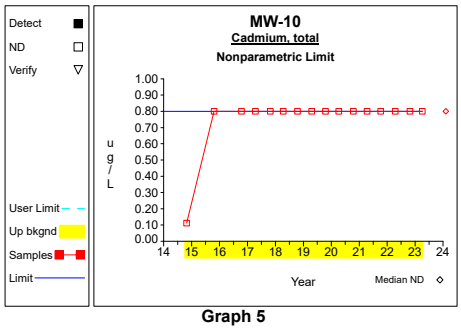
Graph 2



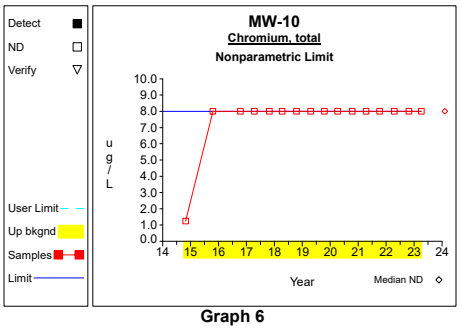
Graph 3



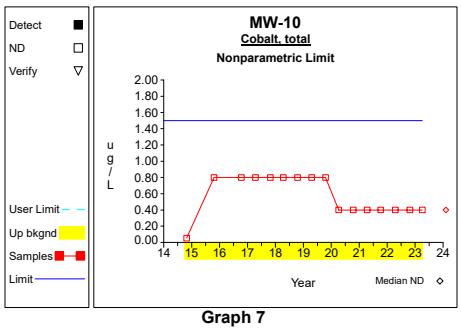
Graph 4



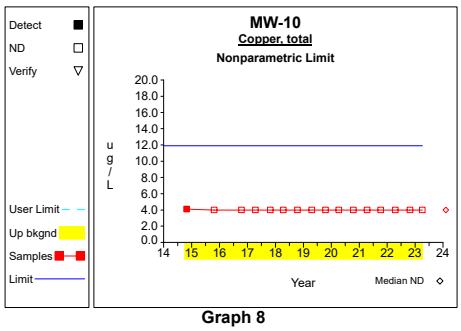
Graph 5



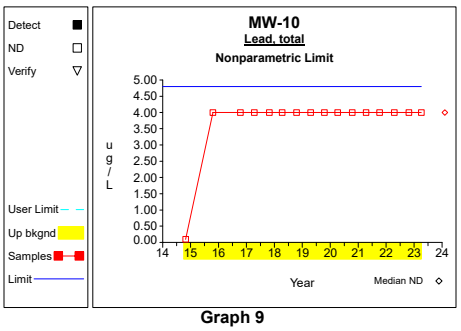
Graph 6



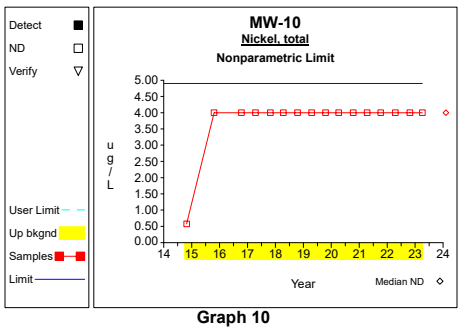
Graph 7



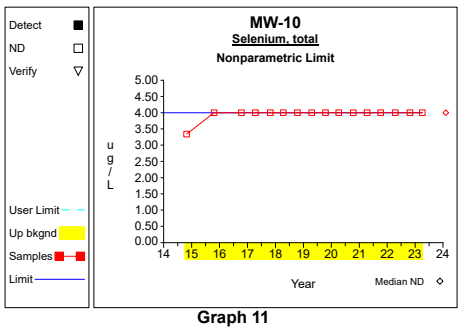
Graph 8



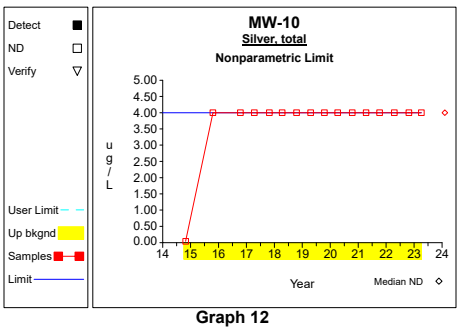
Graph 9



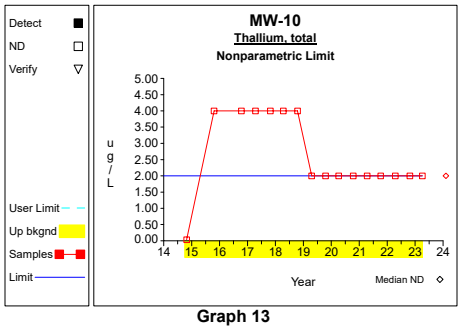
Graph 10



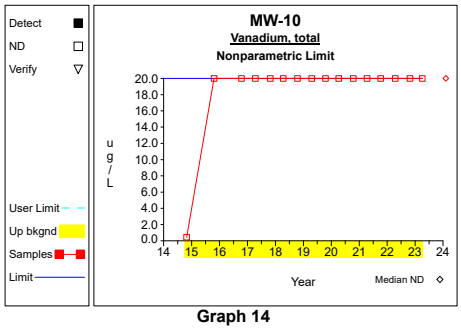
Graph 11



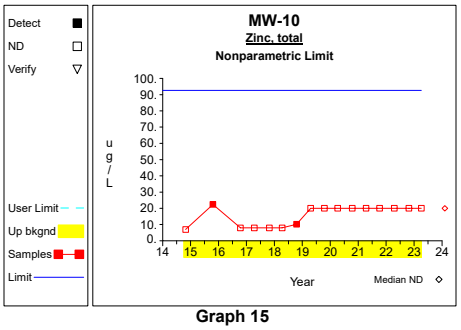
Graph 12



Graph 13



Graph 14



Graph 15

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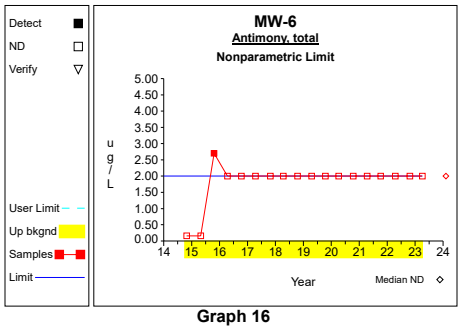
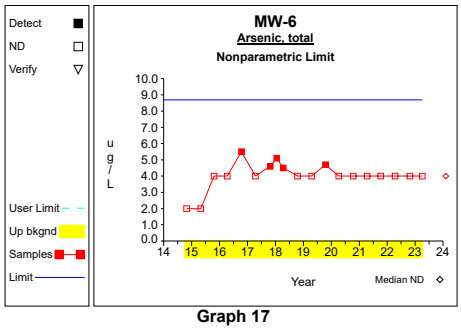
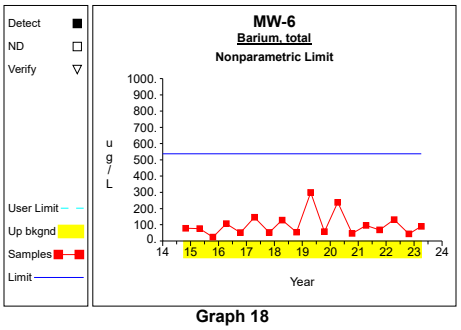
Up vs. Down Prediction Limits



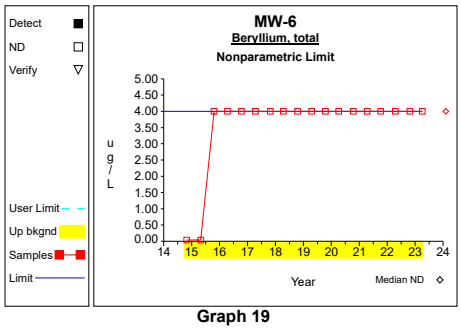
Graph 16



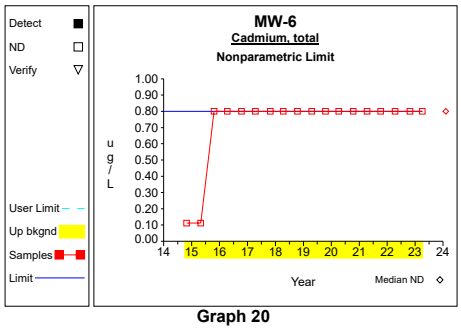
Graph 17



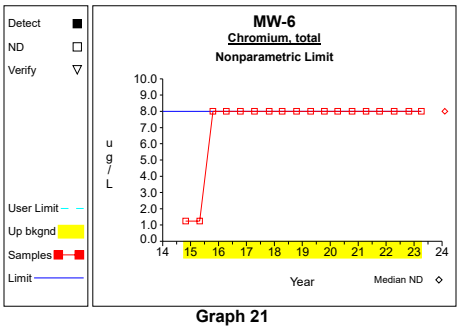
Graph 18



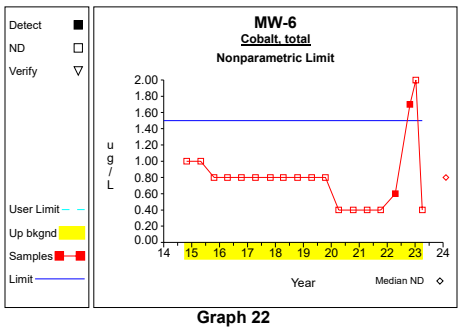
Graph 19



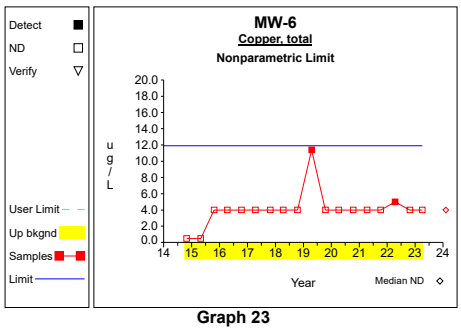
Graph 20



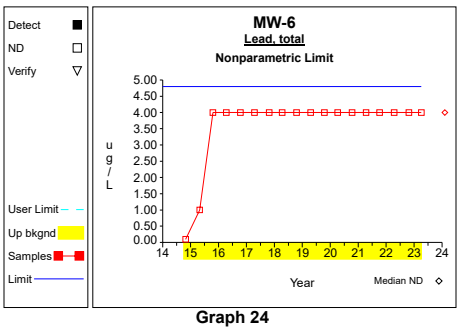
Graph 21



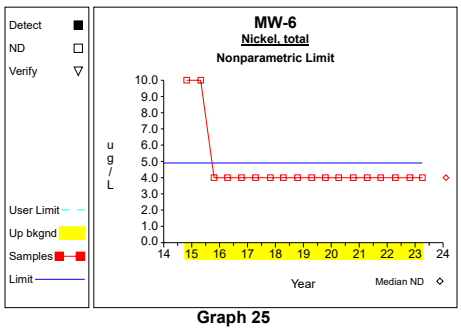
Graph 22



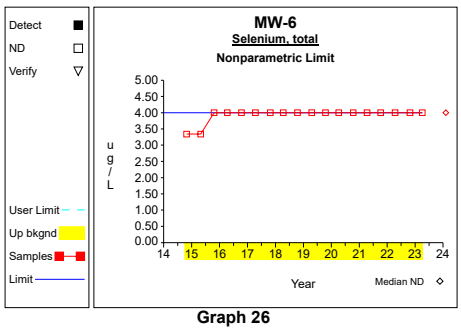
Graph 23



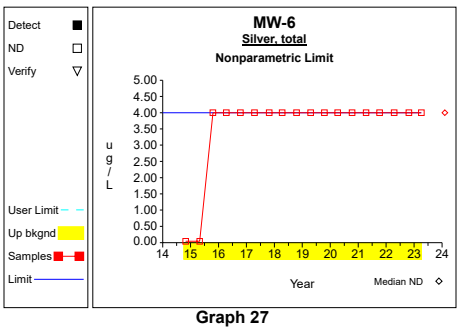
Graph 24



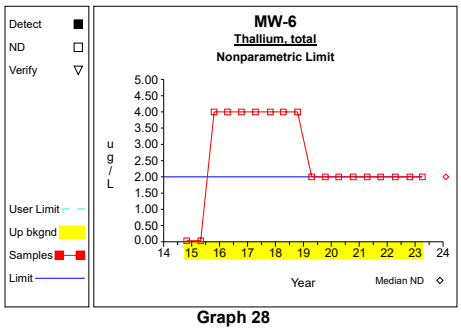
Graph 25



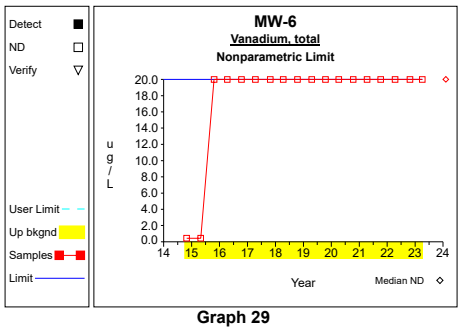
Graph 26



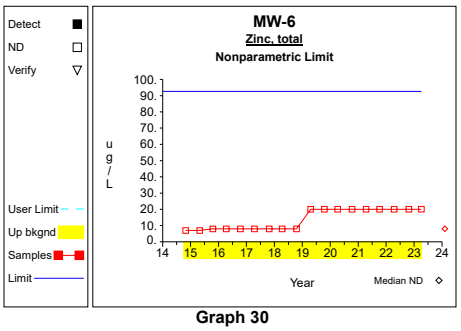
Graph 27



Graph 28



Graph 29



Graph 30

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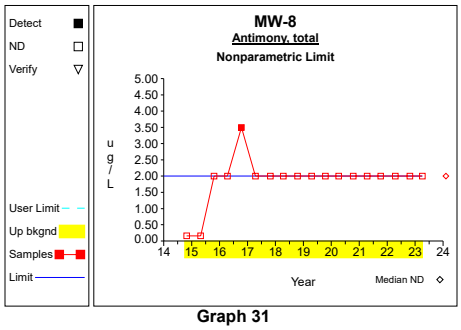
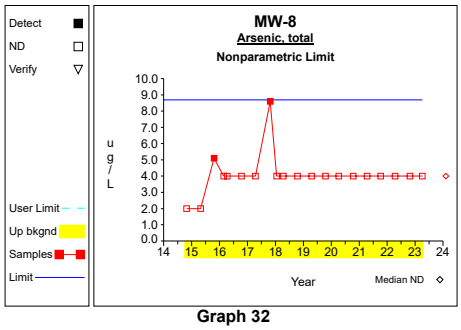
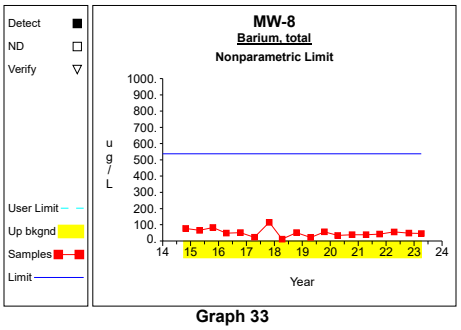
Up vs. Down Prediction Limits



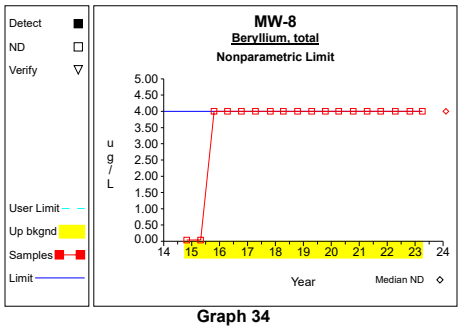
Graph 31



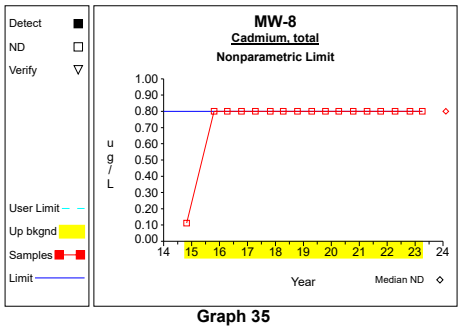
Graph 32



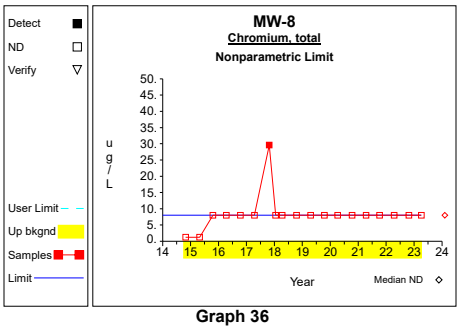
Graph 33



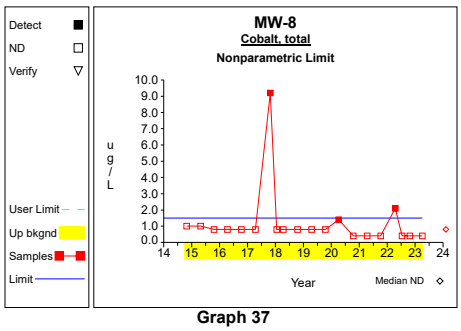
Graph 34



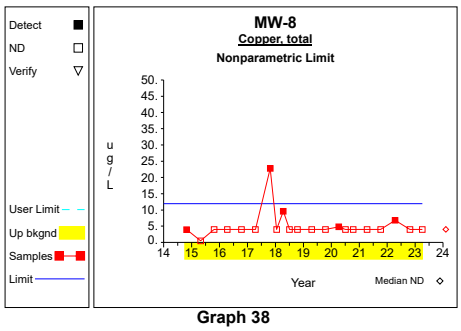
Graph 35



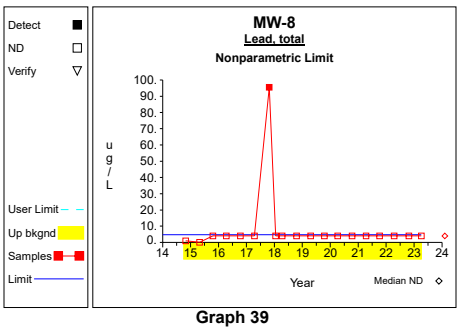
Graph 36



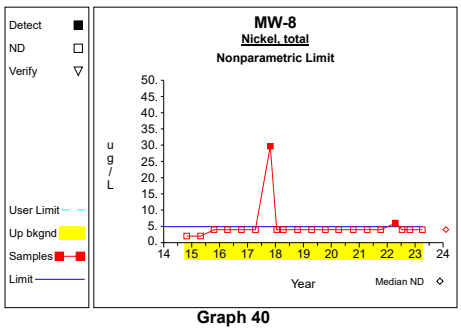
Graph 37



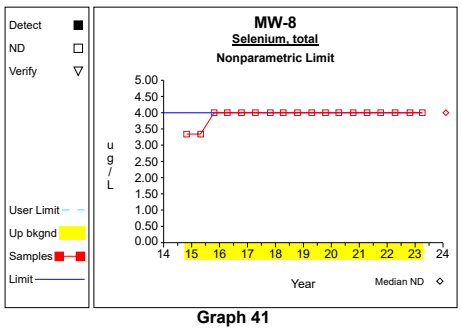
Graph 38



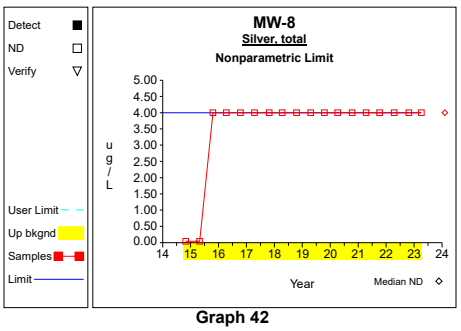
Graph 39



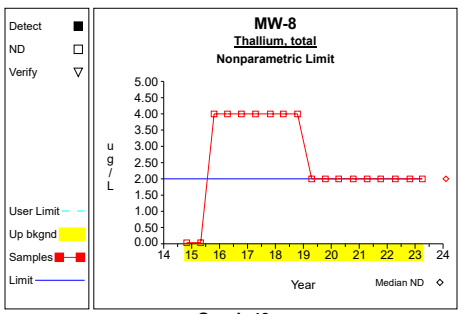
Graph 40



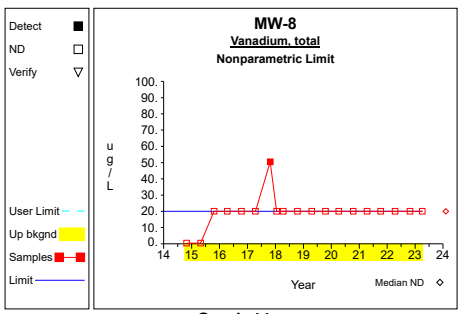
Graph 41



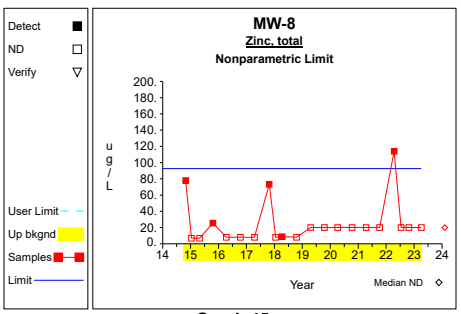
Graph 42



Graph 43



Graph 44

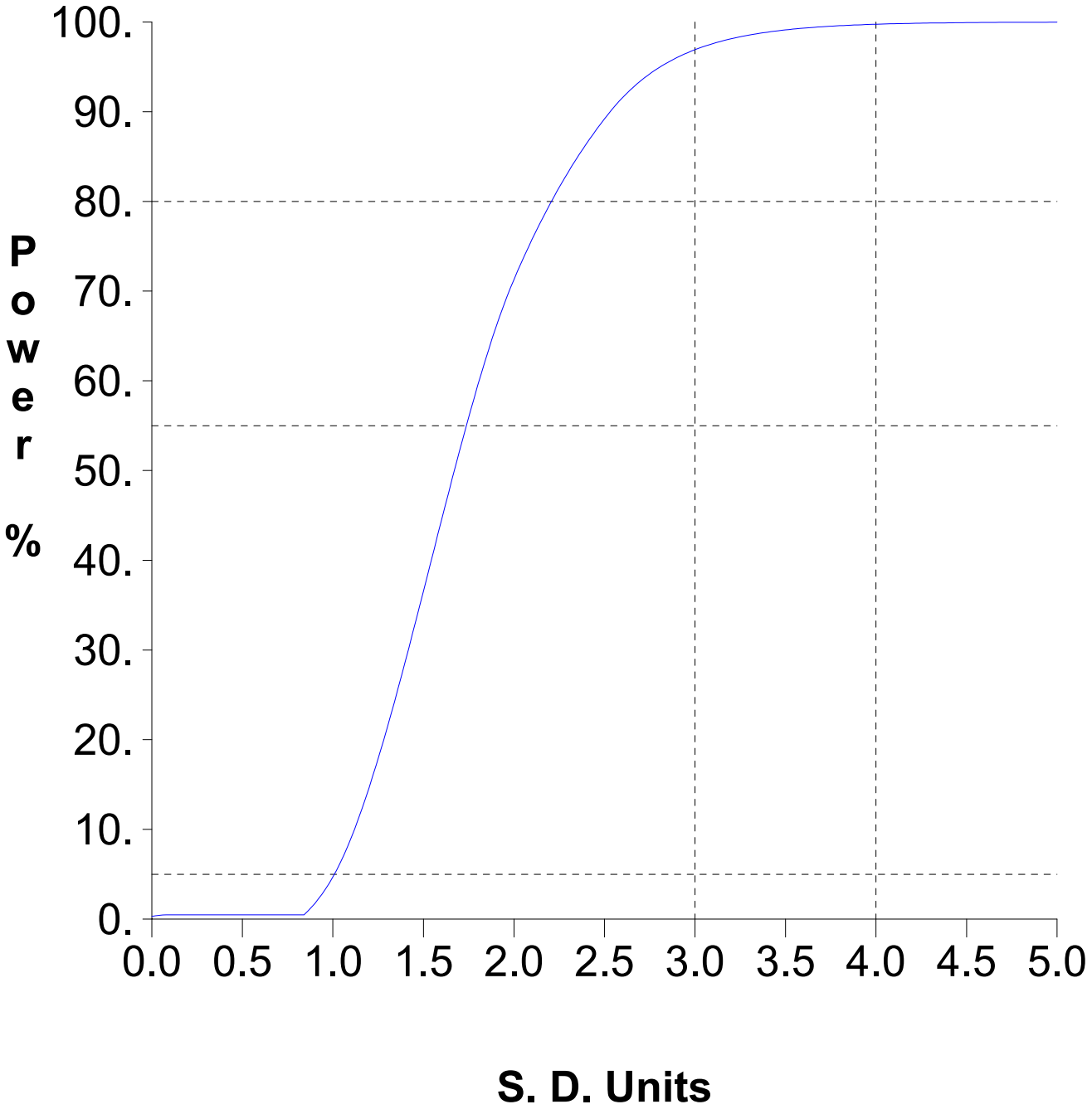


Graph 45

Prepared by: Otter Creek Environmental

False Positive and False Negative Rates for Current

Upgradient vs. Downgradient Monitoring Program



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
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
Benzene	MW-28	10/11/2012		1.29	.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	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
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
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

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	4/11/2018		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
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
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
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
Toluene	MW-5	4/23/2013		1.9	1.0	ug/L
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

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
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-24	4	0.975	0.585	1.176	0.287	1.663	140.000		
1,4-dichlorobenzene	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	75.000		
2-butanone	ug/L	MW-24	4	2.500	0.000	1.176	2.500	2.500	4000.000		
Acetone	ug/L	MW-24	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-24	4	1.100	0.735	1.176	0.236	1.964	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-24	4	5.250	4.500	1.176	0.000	10.543	6.000		
Carbon disulfide	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	700.000		
Chlorobenzene	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	100.000		
Chloroethane	ug/L	MW-24	4	0.650	0.300	1.176	0.297	1.003	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	70.000		
Ethylbenzene	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	700.000		
Toluene	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	1000.000		
Vinyl chloride	ug/L	MW-24	4	1.150	0.819	1.176	0.187	2.113	2.000		
Xylenes, total	ug/L	MW-24	4	1.000	0.000	1.176	1.000	1.000	10000.000		
1,1-dichloroethane	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	75.000		
2-butanone	ug/L	MW-25	4	2.500	0.000	1.176	2.500	2.500	4000.000		
Acetone	ug/L	MW-25	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-25	4	6.000	6.000	1.176	0.000	13.058	6.000		
Carbon disulfide	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	700.000		
Chlorobenzene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	100.000		
Chloroethane	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	70.000		
Ethylbenzene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	700.000		
Toluene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	1000.000		
Vinyl chloride	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	2.000		
Xylenes, total	ug/L	MW-25	4	1.000	0.000	1.176	1.000	1.000	10000.000		
1,1-dichloroethane	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	75.000		
2-butanone	ug/L	MW-26	4	2.500	0.000	1.176	2.500	2.500	4000.000		
Acetone	ug/L	MW-26	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-26	4	6.750	7.500	1.176	0.000	15.572	6.000		
Carbon disulfide	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	700.000		
Chlorobenzene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	100.000		
Chloroethane	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	70.000		
Ethylbenzene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	700.000		
Toluene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	1000.000		
Vinyl chloride	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	2.000		
Xylenes, total	ug/L	MW-26	4	1.000	0.000	1.176	1.000	1.000	10000.000		
1,1-dichloroethane	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	75.000		
2-butanone	ug/L	MW-33	4	2.500	0.000	1.176	2.500	2.500	4000.000		
Acetone	ug/L	MW-33	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-33	2								*
Carbon disulfide	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	700.000		
Chlorobenzene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	100.000		
Chloroethane	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	70.000		
Ethylbenzene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	700.000		
Toluene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	1000.000		
Vinyl chloride	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	2.000		
Xylenes, total	ug/L	MW-33	4	1.000	0.000	1.176	1.000	1.000	10000.000		
1,1-dichloroethane	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-5	4	0.750	0.289	1.176	0.410	1.090	75.000		
2-butanone	ug/L	MW-5	4	8.975	12.950	1.176	0.000	24.208	4000.000		
Acetone	ug/L	MW-5	4	191.500	373.000	1.176	0.000	630.256	6300.000		
Benzene	ug/L	MW-5	4	5.600	0.860	1.176	4.588	6.612	5.000	inc	
Bis(2-ethylhexyl) phthalate	ug/L	MW-5	4	3.000	0.000	1.176	3.000	3.000	6.000		
Carbon disulfide	ug/L	MW-5	4	0.975	0.950	1.176	0.000	2.092	700.000		
Chlorobenzene	ug/L	MW-5	4	1.200	0.200	1.176	0.965	1.435	100.000		
Chloroethane	ug/L	MW-5	4	3.950	1.136	1.176	2.614	5.286	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-5	4	1.675	0.150	1.176	1.499	1.851	70.000		
Ethylbenzene	ug/L	MW-5	4	3.900	5.433	1.176	0.000	10.291	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		
Xylenes, total	ug/L	MW-5	4	2.425	2.850	1.176	0.000	5.777	10000.000		
1,1-dichloroethane	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	75.000		

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

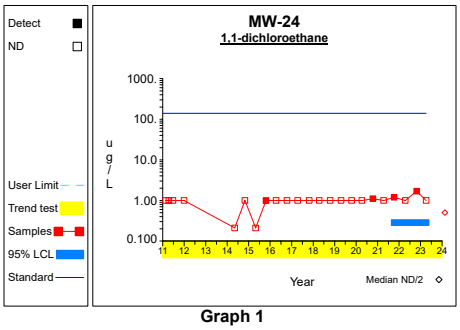
Table 1

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

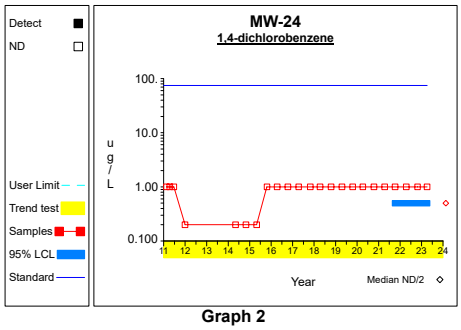
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
2-butanone	ug/L	MW-9	4	2.500	0.000	1.176	2.500	2.500	4000.000		
Acetone	ug/L	MW-9	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-9	4	0.250	0.000	1.176	0.250	0.250	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-9	4	3.750	1.500	1.176	1.986	5.514	6.000		
Carbon disulfide	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	700.000		
Chlorobenzene	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	100.000		
Chloroethane	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	70.000		
Ethylbenzene	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	700.000		
Toluene	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	1000.000		
Vinyl chloride	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	2.000		
Xylenes, total	ug/L	MW-9	4	1.000	0.000	1.176	1.000	1.000	10000.000		

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

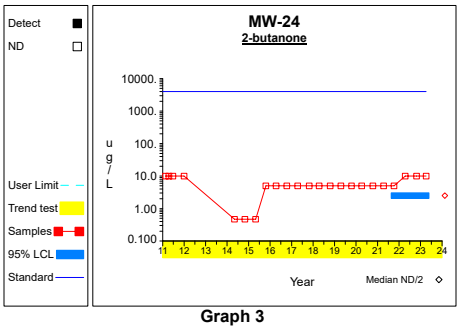
Confidence Limits (Assessment)



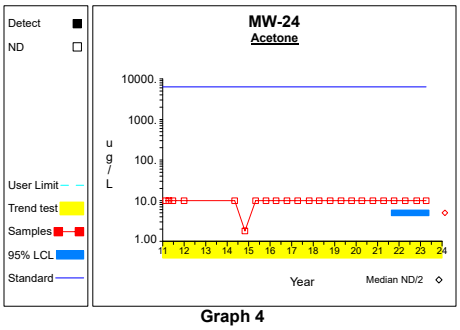
Graph 1



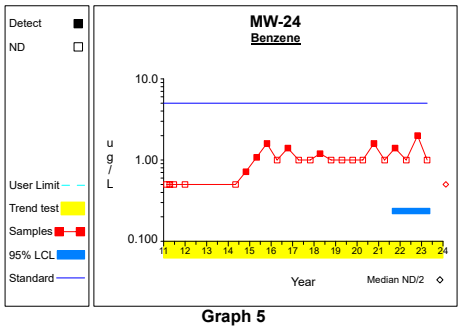
Graph 2



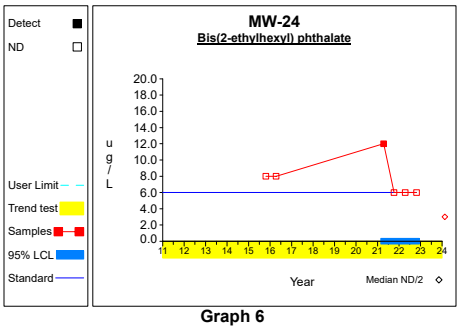
Graph 3



Graph 4



Graph 5



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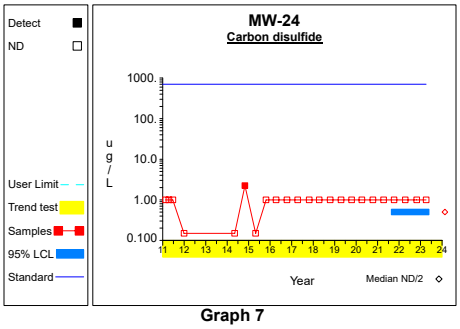
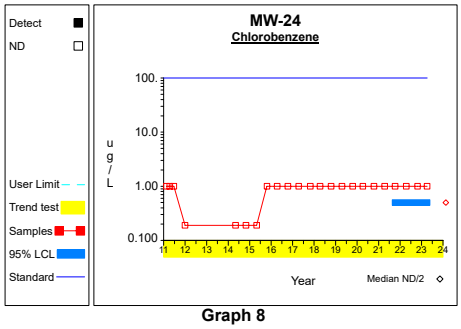
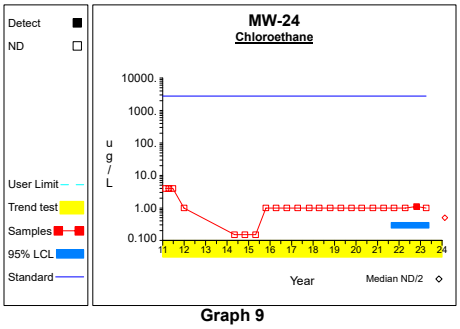


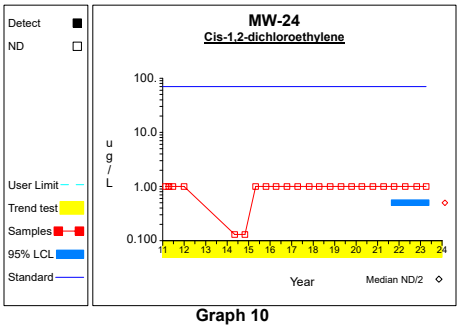
Graph 7



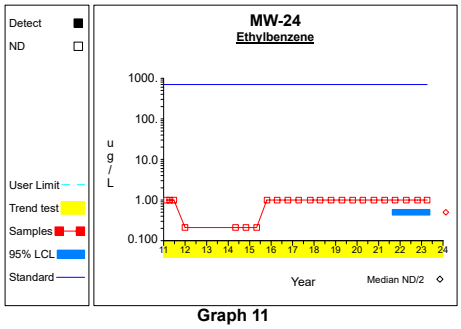
Graph 8



Graph 9



Graph 10



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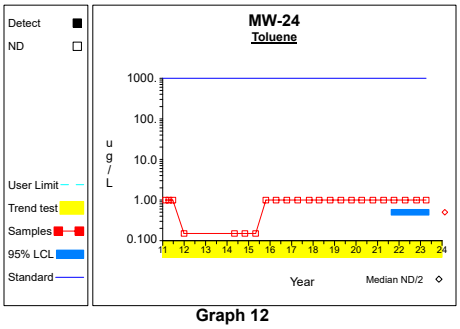

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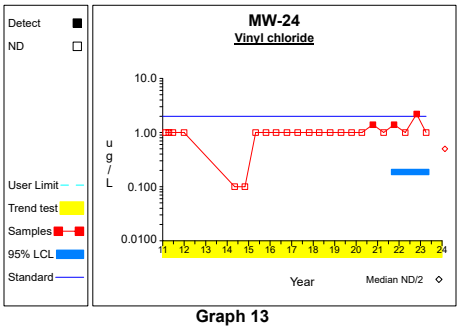

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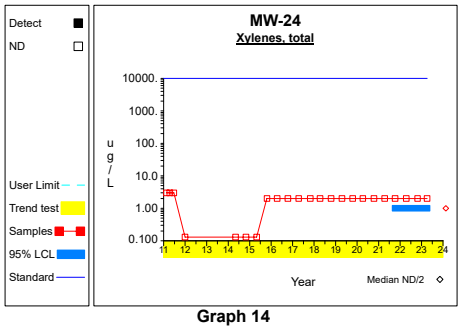
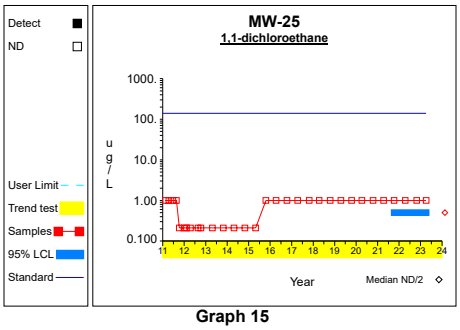


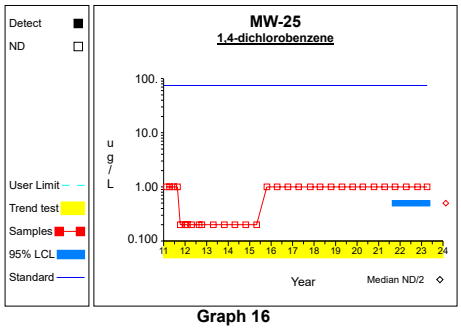
Graph 14

Prepared by: Otter Creek Environmental

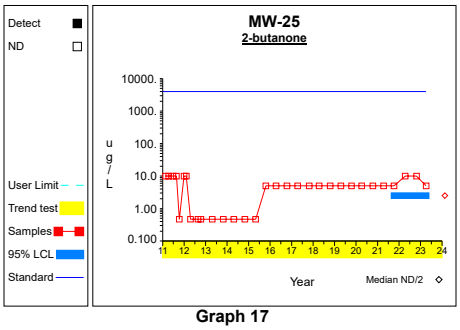
Confidence Limits (Assessment)



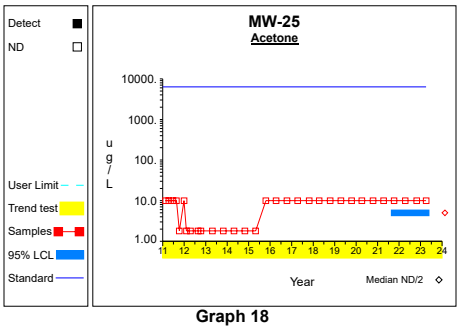
Graph 15



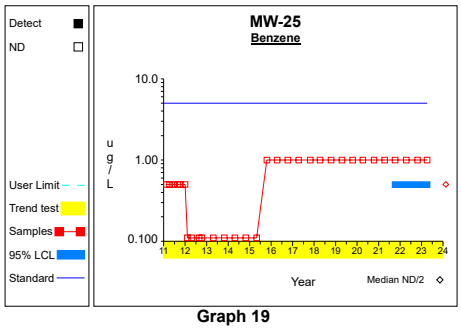
Graph 16



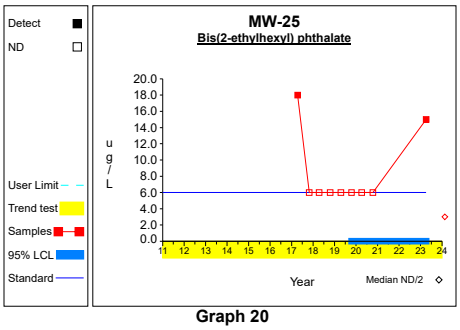
Graph 17



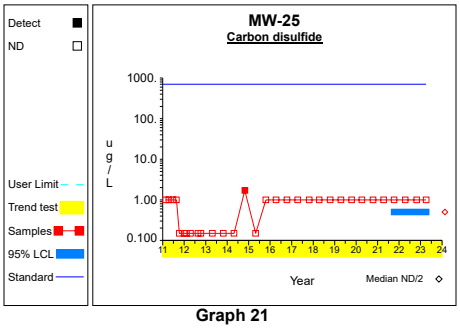
Graph 18



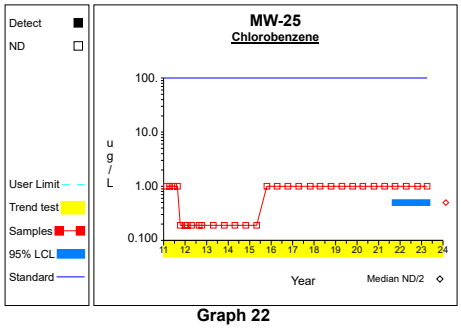
Graph 19



Graph 20



Graph 21



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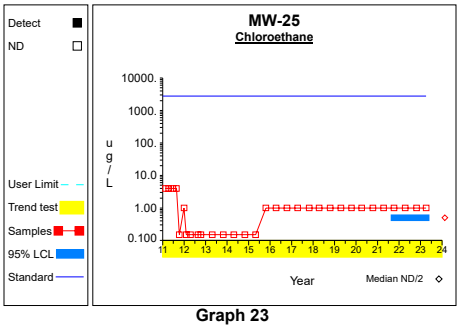

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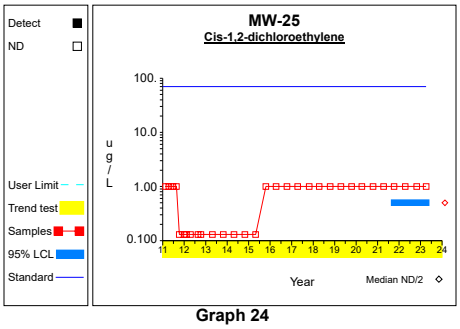

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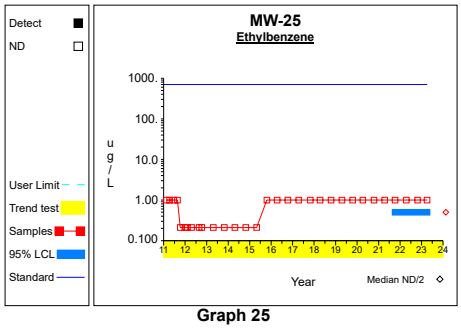
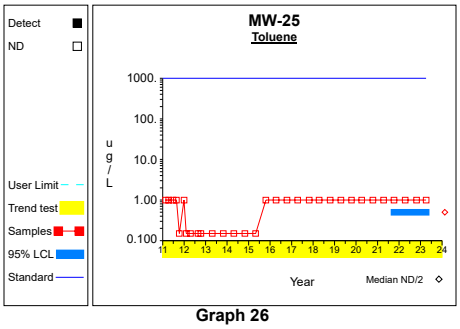


Graph 25



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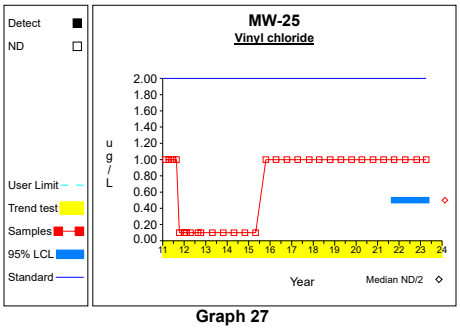
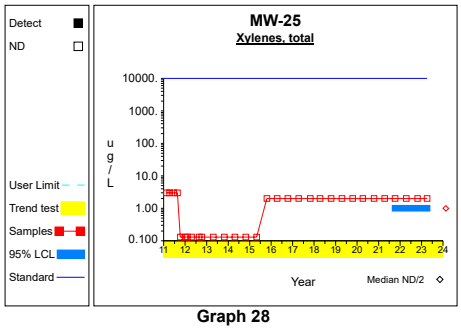
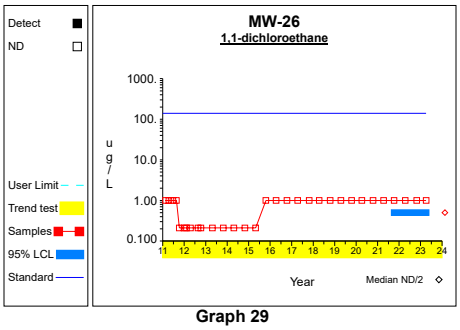


Graph 27

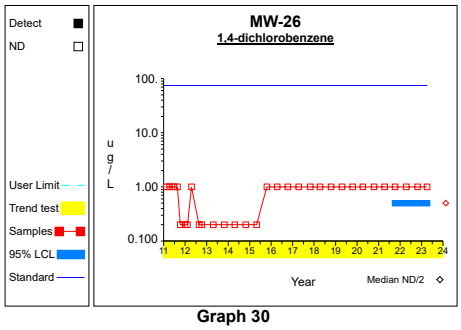


Graph 28

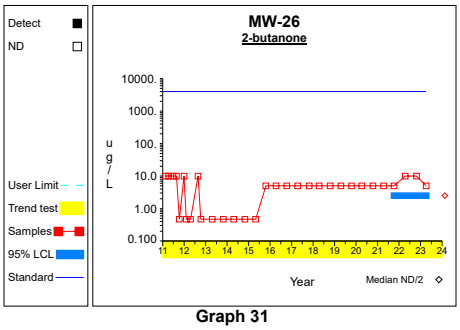
Confidence Limits (Assessment)



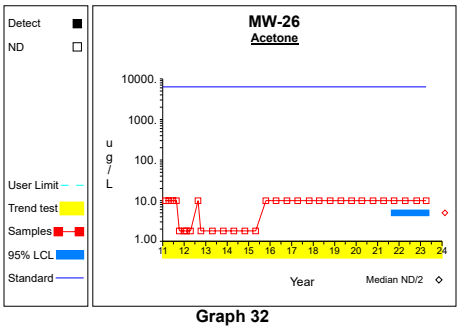
Graph 29



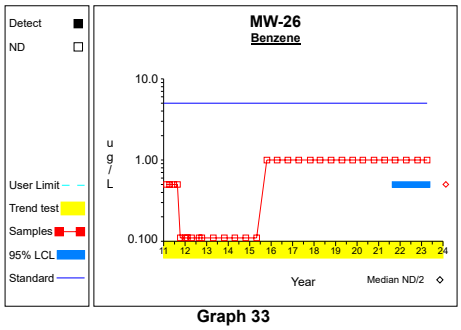
Graph 30



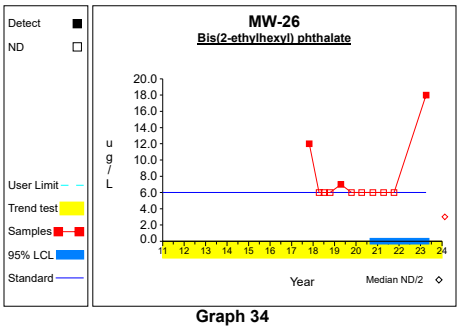
Graph 31



Graph 32



Graph 33



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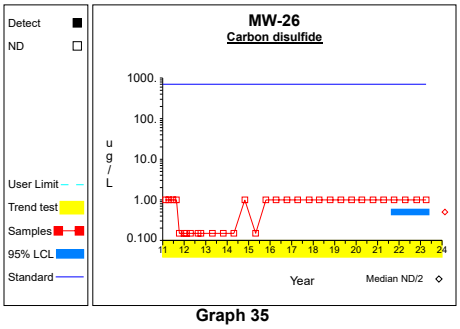

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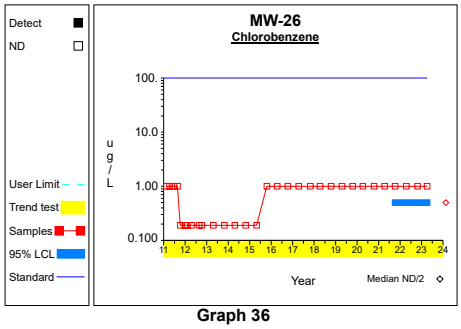

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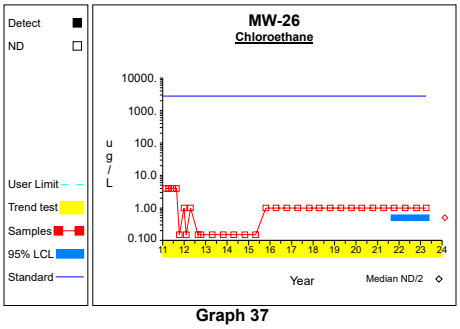

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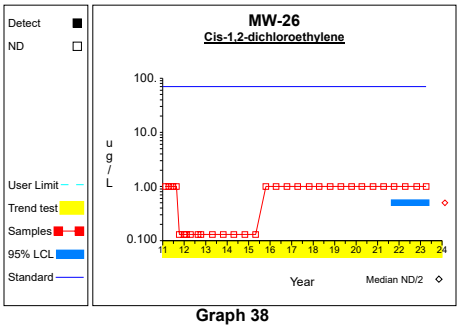

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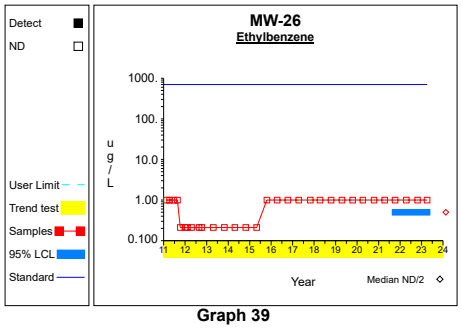
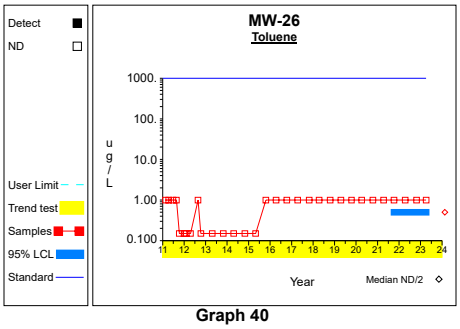
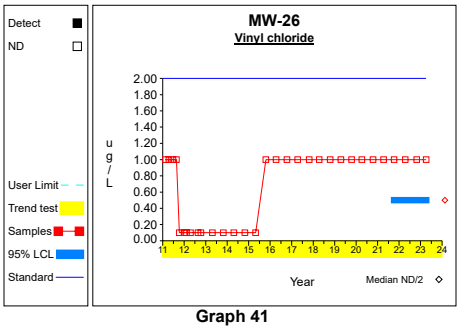


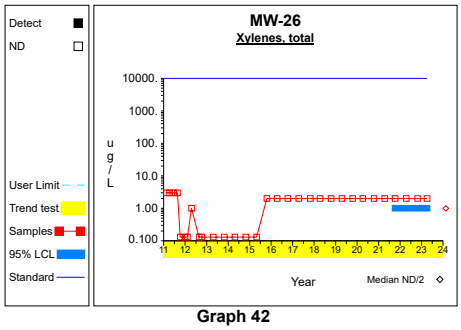
Graph 39



Graph 40

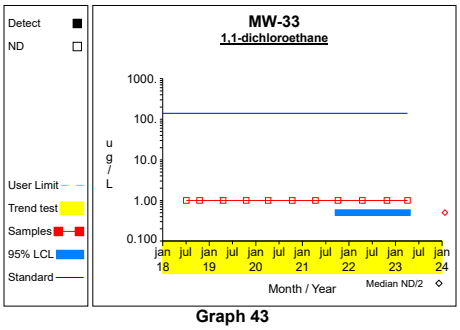


Graph 41

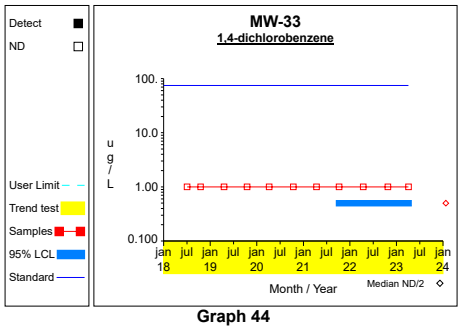


Graph 42

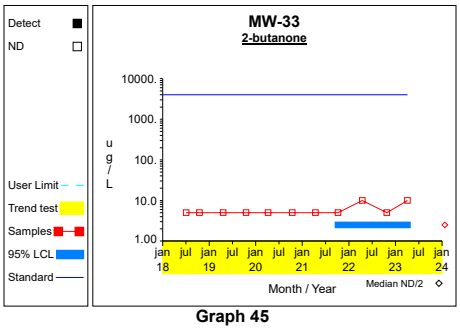
Confidence Limits (Assessment)



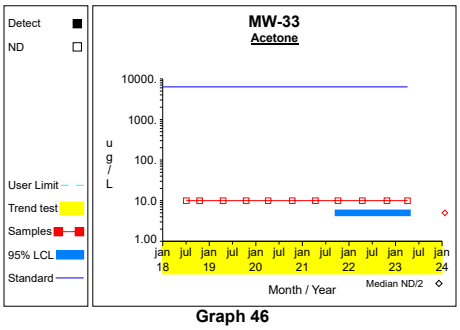
Graph 43



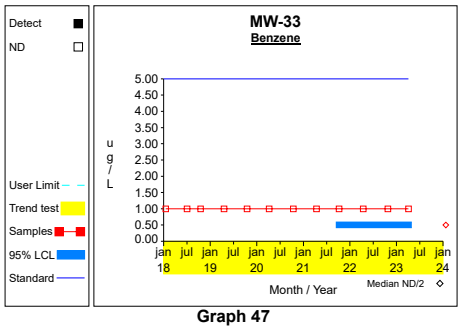
Graph 44



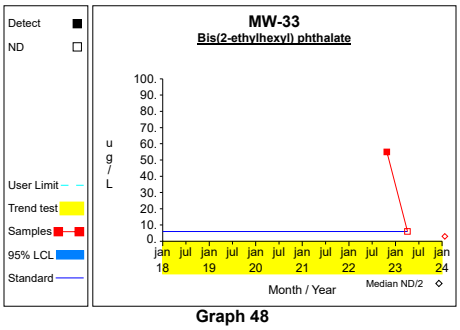
Graph 45



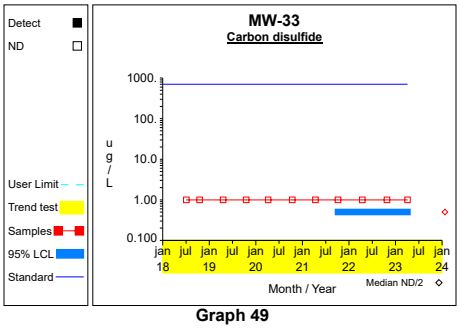
Graph 46



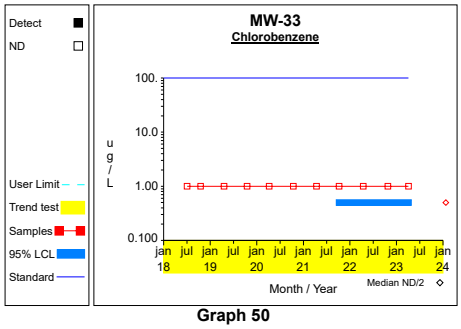
Graph 47



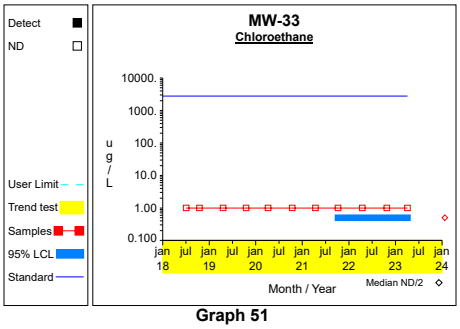
Graph 48



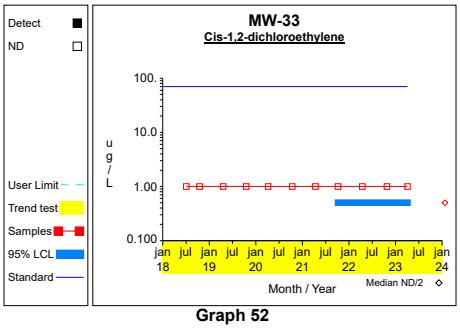
Graph 49



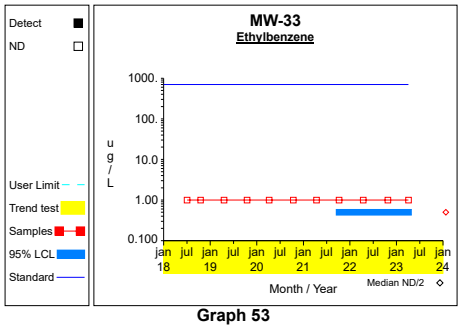
Graph 50



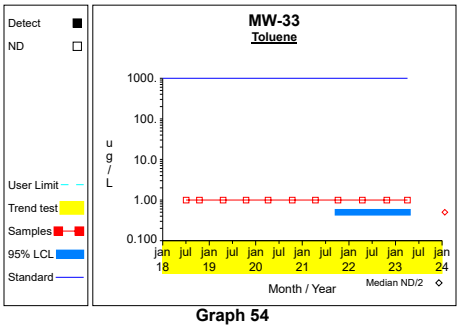
Graph 51



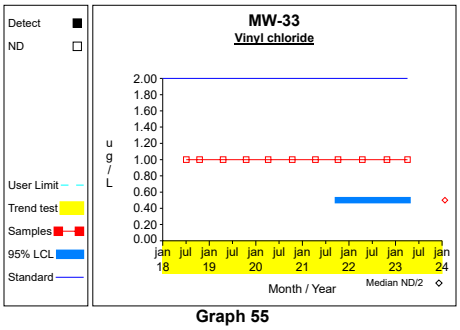
Graph 52



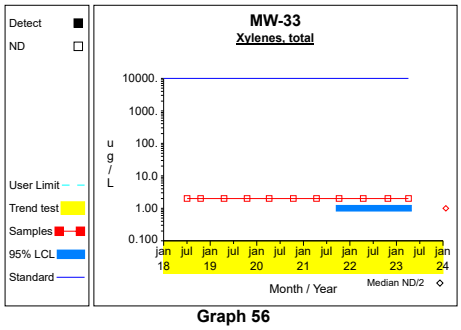
Graph 53



Graph 54

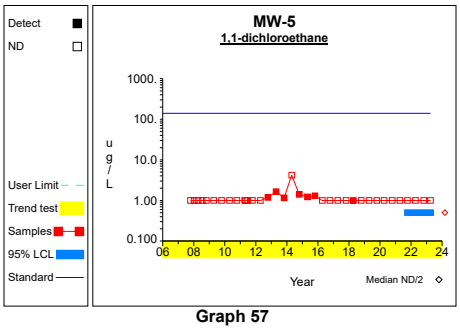


Graph 55

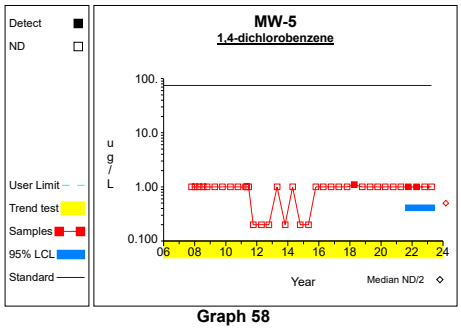


Graph 56

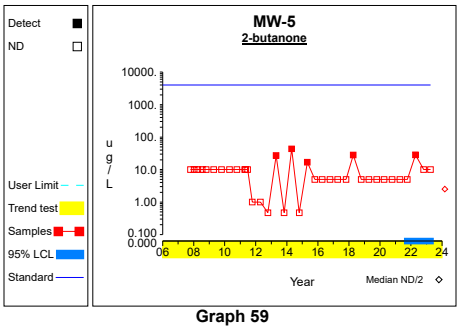
Confidence Limits (Assessment)



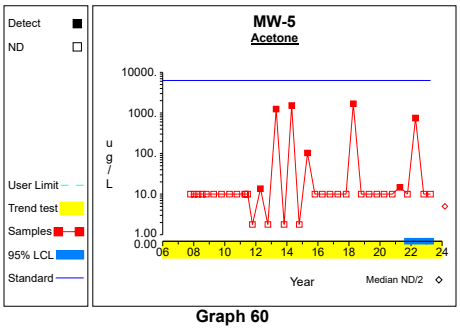
Graph 57



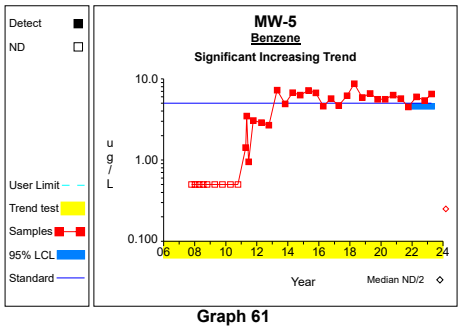
Graph 58



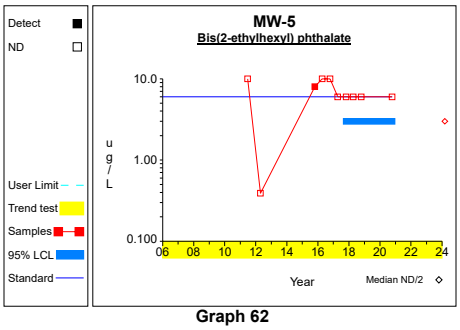
Graph 59



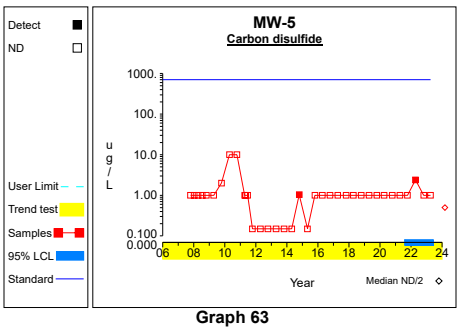
Graph 60



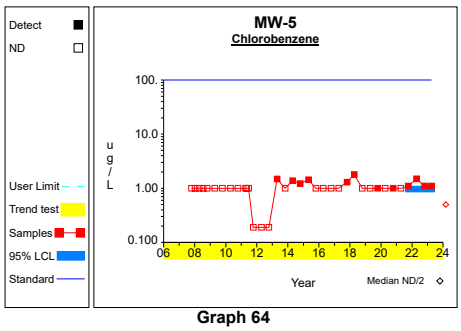
Graph 61



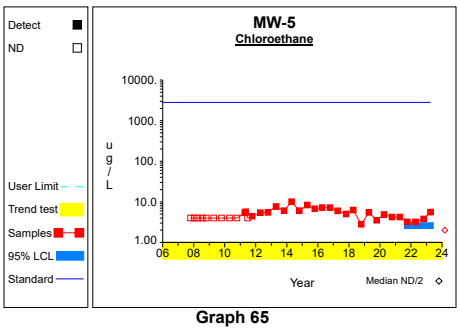
Graph 62



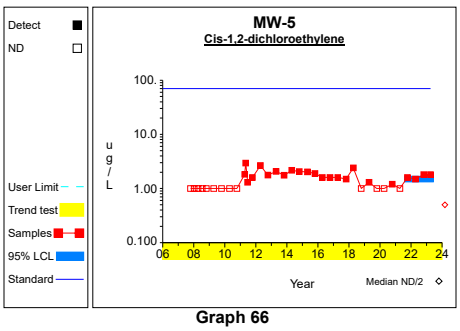
Graph 63



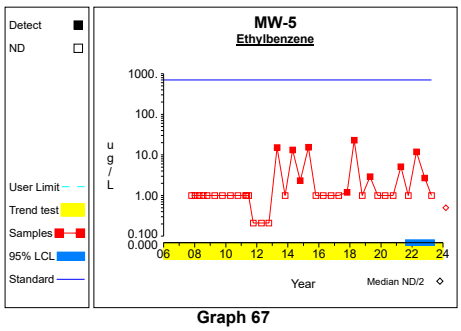
Graph 64



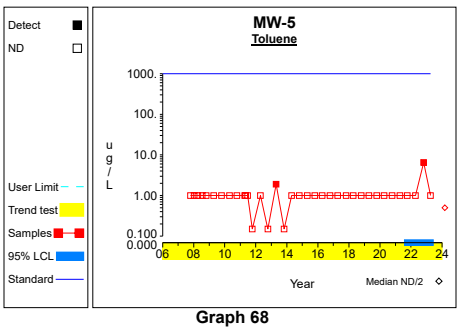
Graph 65



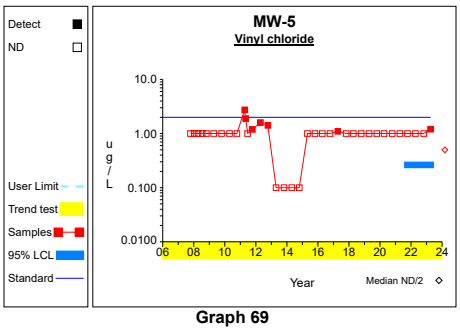
Graph 66



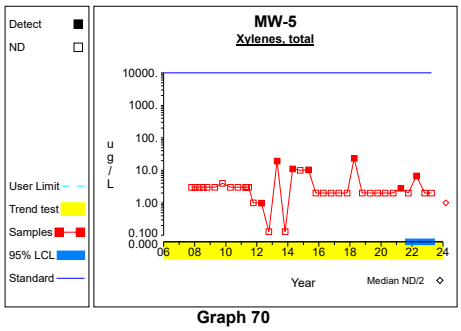
Graph 67



Graph 68



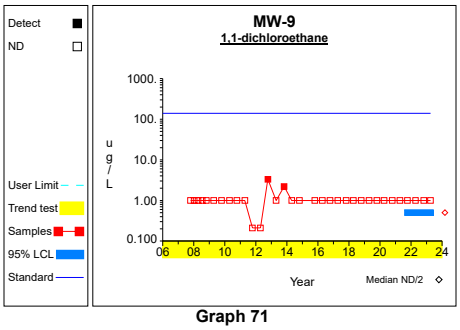
Graph 69



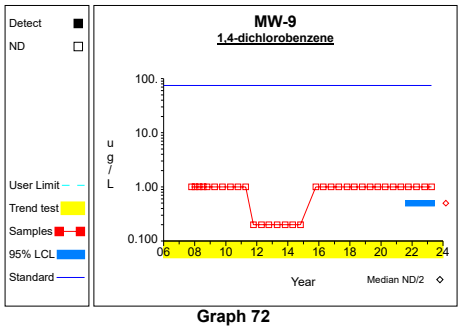
Graph 70

Prepared by: Otter Creek Environmental

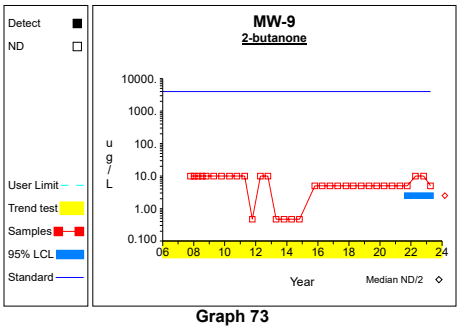
Confidence Limits (Assessment)



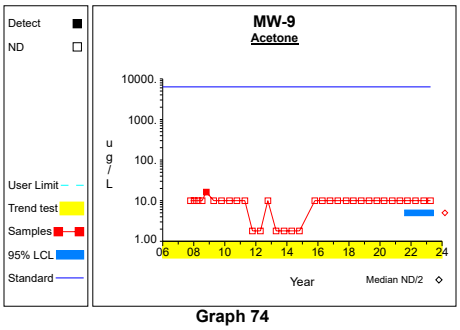
Graph 71



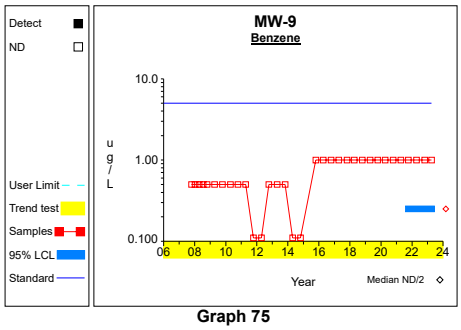
Graph 72



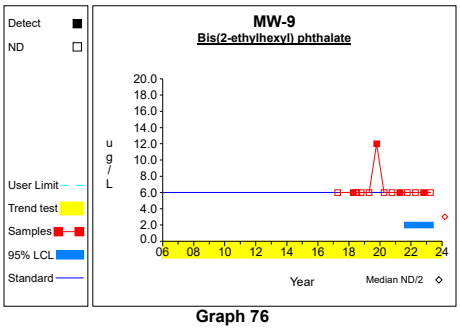
Graph 73



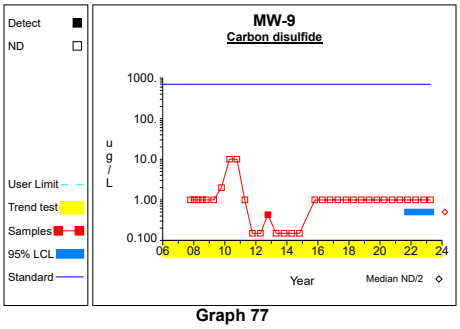
Graph 74



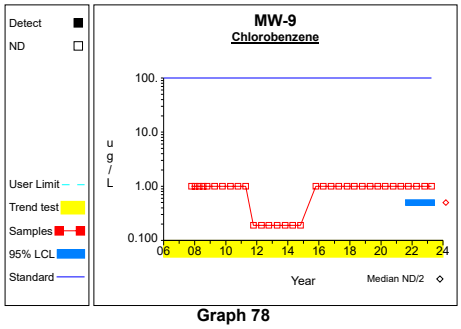
Graph 75



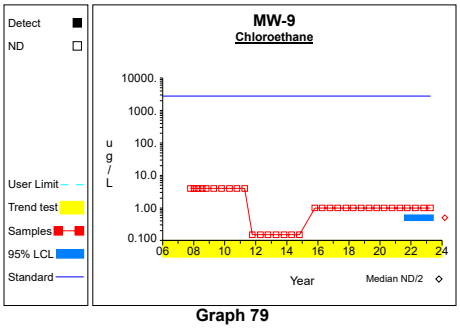
Graph 76



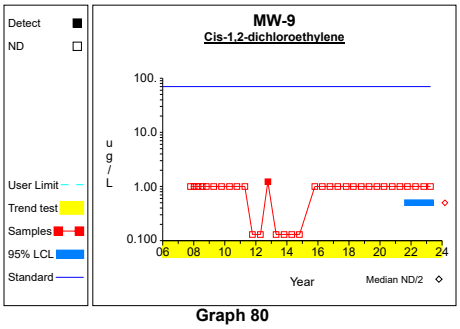
Graph 77



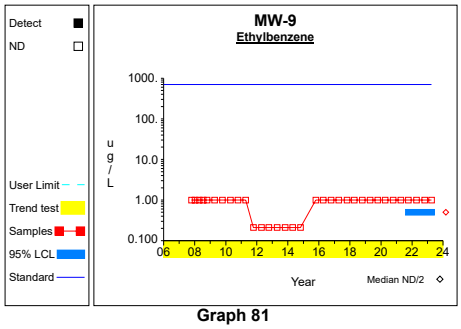
Graph 78



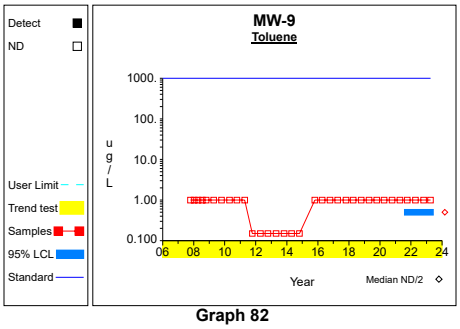
Graph 79



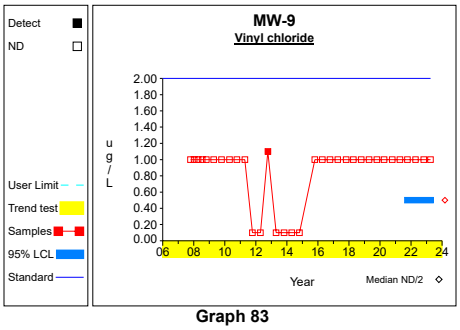
Graph 80



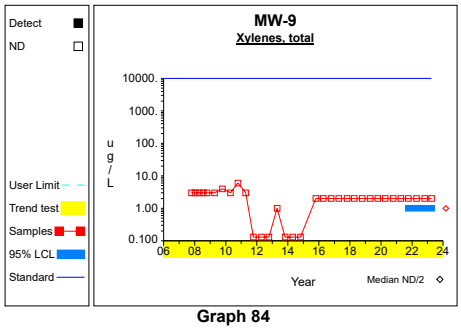
Graph 81



Graph 82



Graph 83



Graph 84

Attachment F

Assessment Statistics for Detected Trace Metals

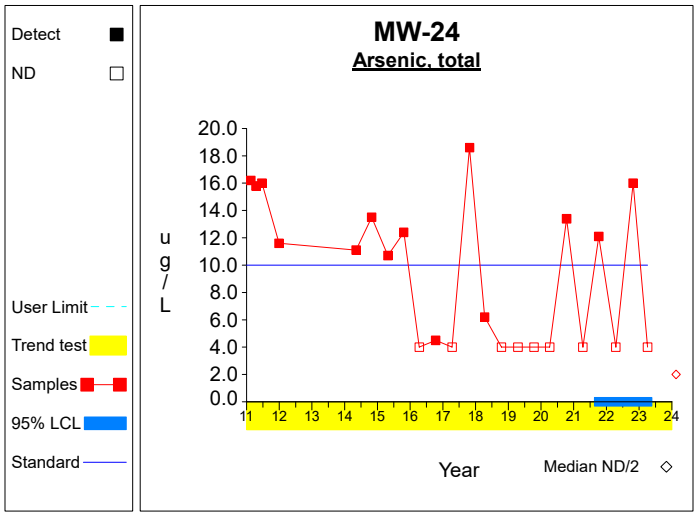
Table 1

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

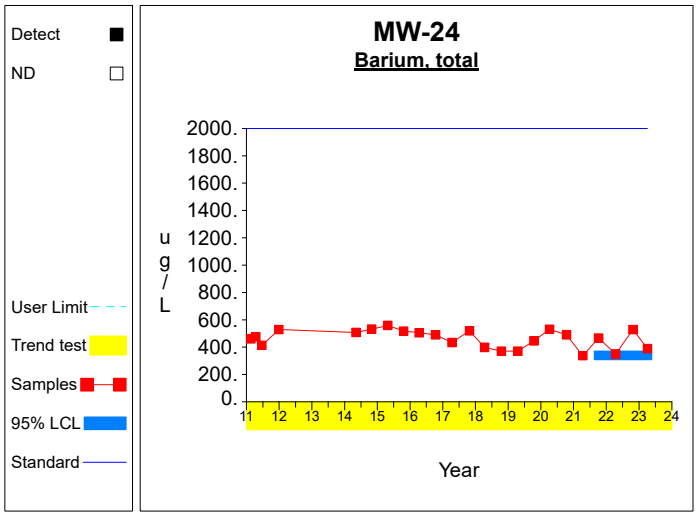
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Arsenic, total	ug/L	MW-24	4	8.025	7.137	1.176	0.000	16.420	10.000	
Barium, total	ug/L	MW-24	4	433.500	79.852	1.176	339.571	527.429	2000.000	
Cadmium, total	ug/L	MW-24	4	0.400	0.000	1.176	0.400	0.400	5.000	
Cobalt, total	ug/L	MW-24	4	1.150	0.404	1.176	0.675	1.625	2.100	dec
Nickel, total	ug/L	MW-24	4	31.900	7.114	1.176	23.532	40.268	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	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW-25	4	100.050	4.856	1.176	94.338	105.762	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	1.825	1.941	1.176	0.000	4.109	2.100	
Nickel, total	ug/L	MW-25	4	2.000	0.000	1.176	2.000	2.000	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	38.300	10.901	1.176	25.478	51.122	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	1.469	1.426	1.176	0.000	3.146	2.100	
Nickel, total	ug/L	MW-26	4	6.200	1.388	1.176	4.567	7.833	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	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW-32	4	257.000	69.152	1.176	175.657	338.343	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	0.875	0.964	1.176	0.000	2.009	2.100	
Nickel, total	ug/L	MW-32	4	2.000	0.000	1.176	2.000	2.000	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	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW-33	4	159.750	50.678	1.176	100.138	219.362	2000.000	
Cadmium, total	ug/L	MW-33	4	0.525	0.250	1.176	0.231	0.819	5.000	
Cobalt, total	ug/L	MW-33	4	5.350	7.171	1.176	0.000	13.786	2.100	
Nickel, total	ug/L	MW-33	4	3.725	2.012	1.176	1.358	6.092	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	5.575	3.671	1.176	1.257	9.893	10.000	
Barium, total	ug/L	MW-9	4	337.750	39.710	1.176	291.039	384.461	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	0.975	0.411	1.176	0.491	1.459	2.100	
Nickel, total	ug/L	MW-9	4	2.000	0.000	1.176	2.000	2.000	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

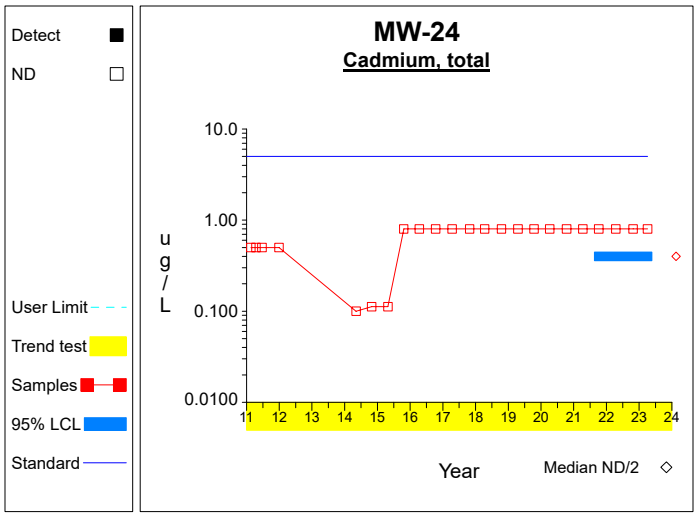
Confidence Limits (Assessment)



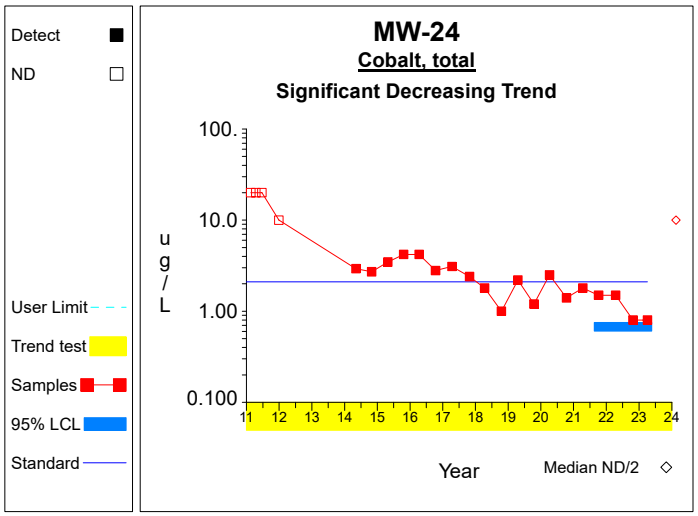
Graph 1



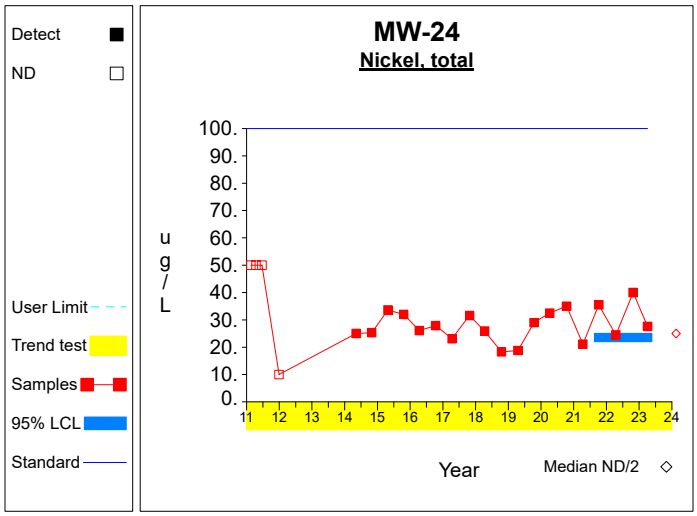
Graph 2



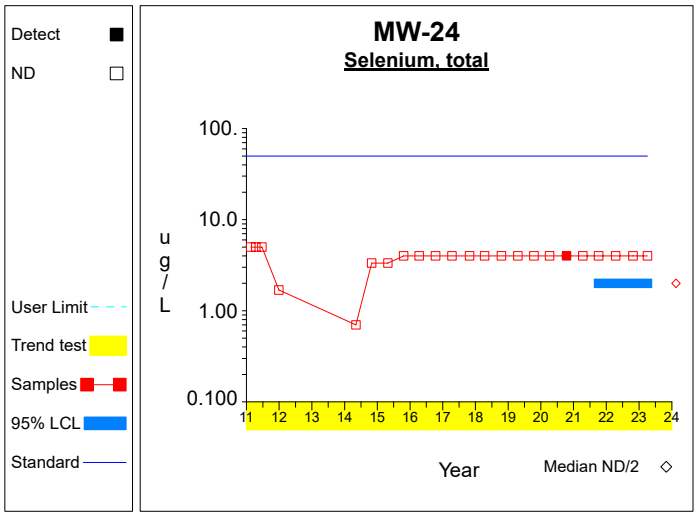
Graph 3



Graph 4



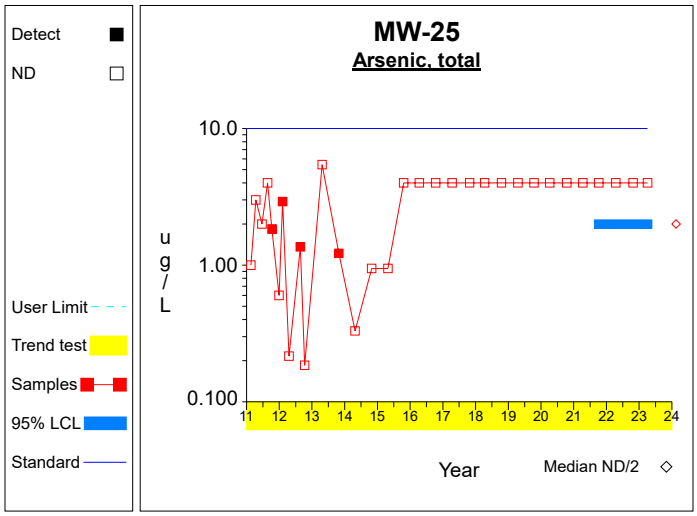
Graph 5



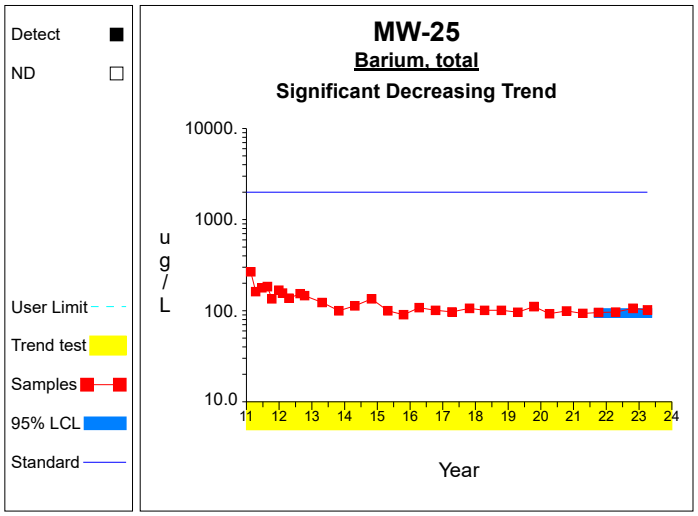
Graph 6

Prepared by: Otter Creek Environmental

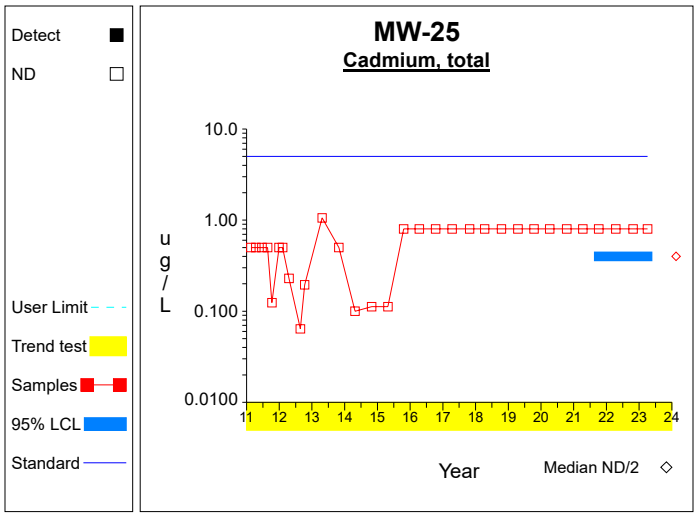
Confidence Limits (Assessment)



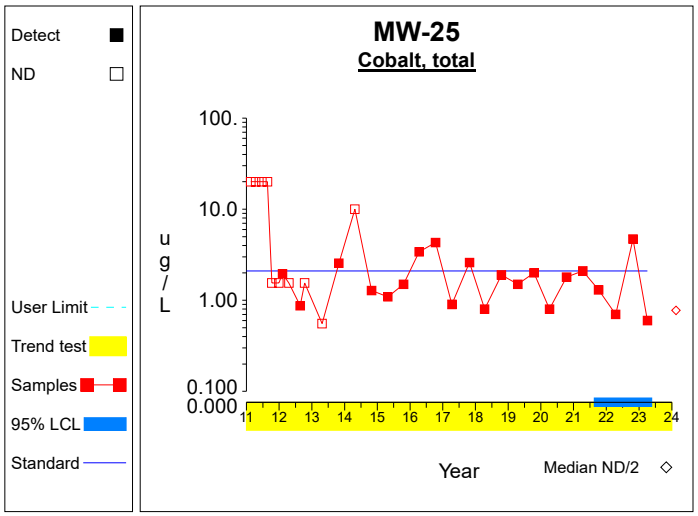
Graph 7



Graph 8



Graph 9



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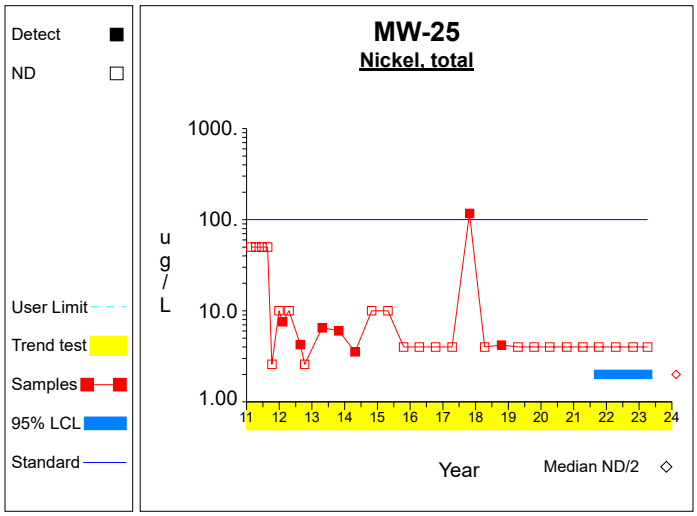

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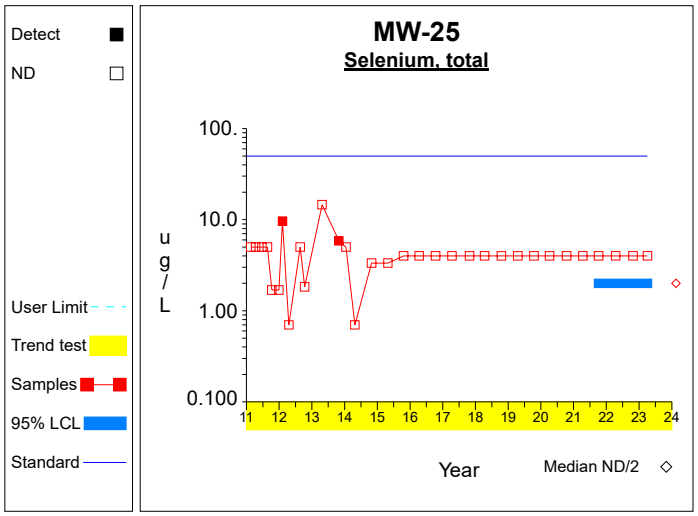
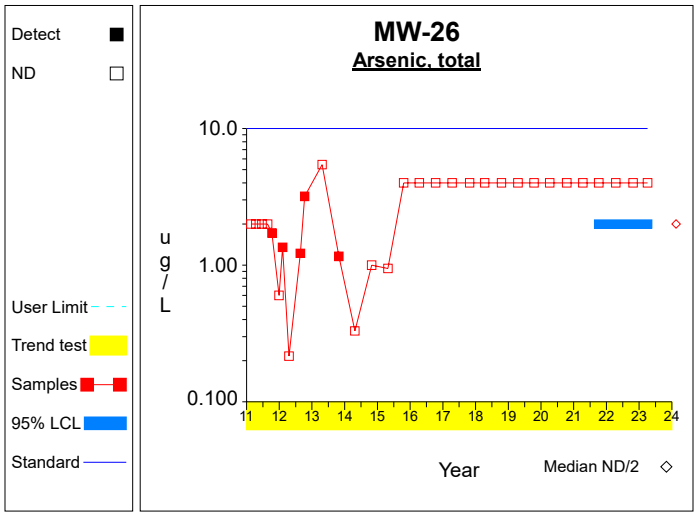


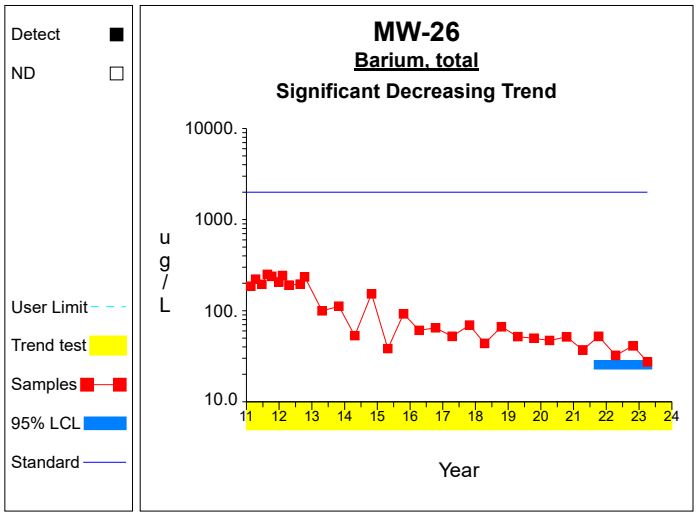
Graph 12

Prepared by: Otter Creek Environmental

Confidence Limits (Assessment)



Graph 13



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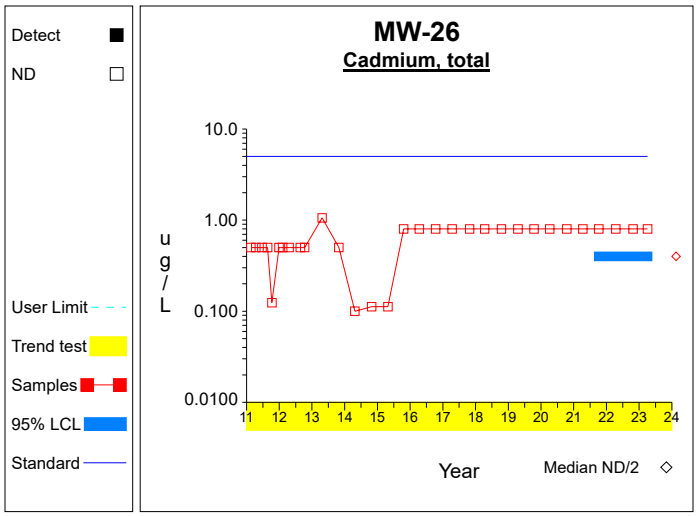

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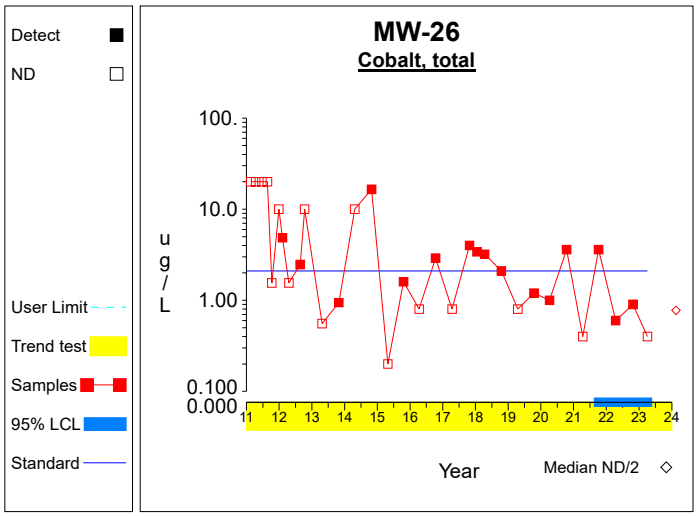

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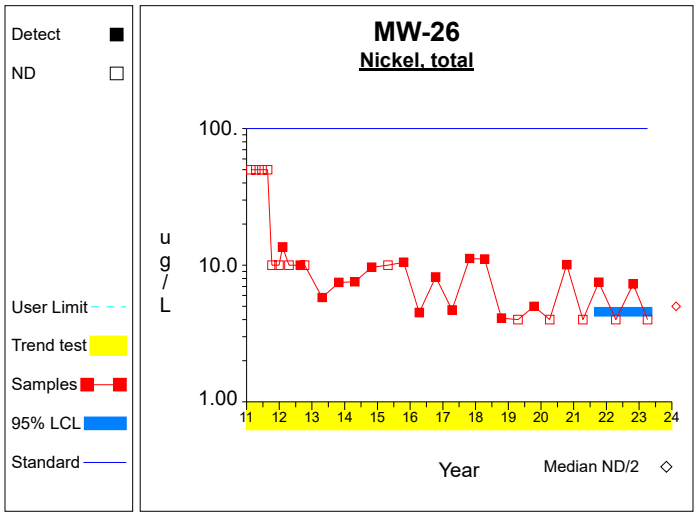
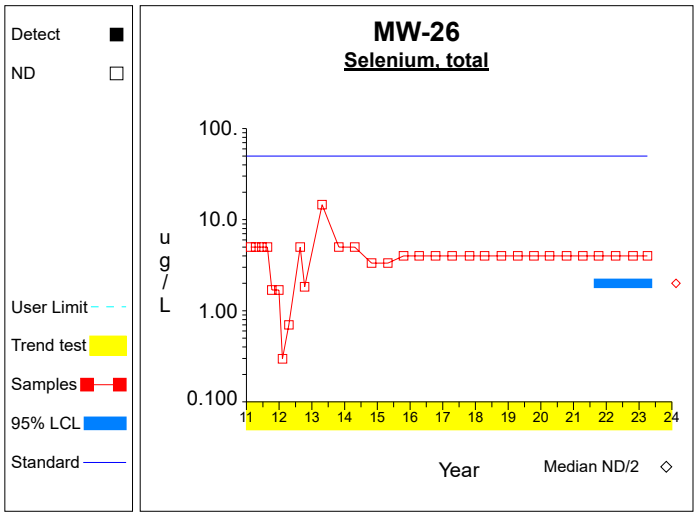


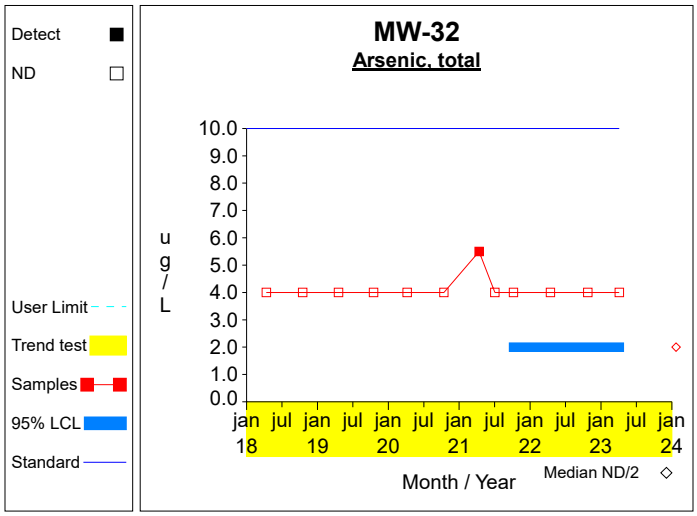
Graph 17



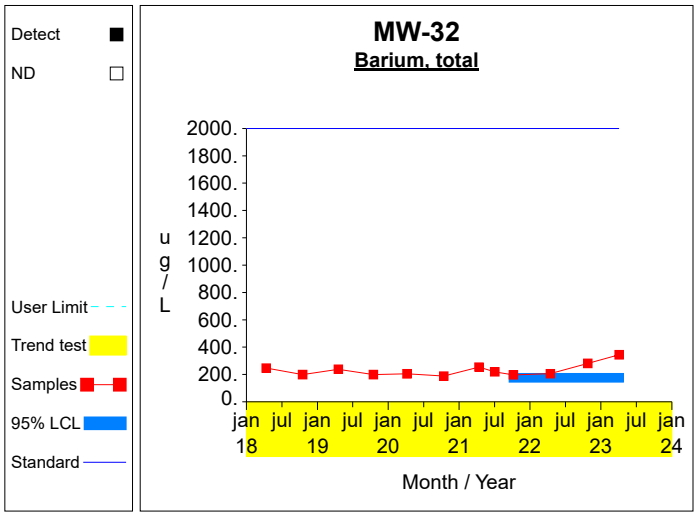
Graph 18

Prepared by: Otter Creek Environmental

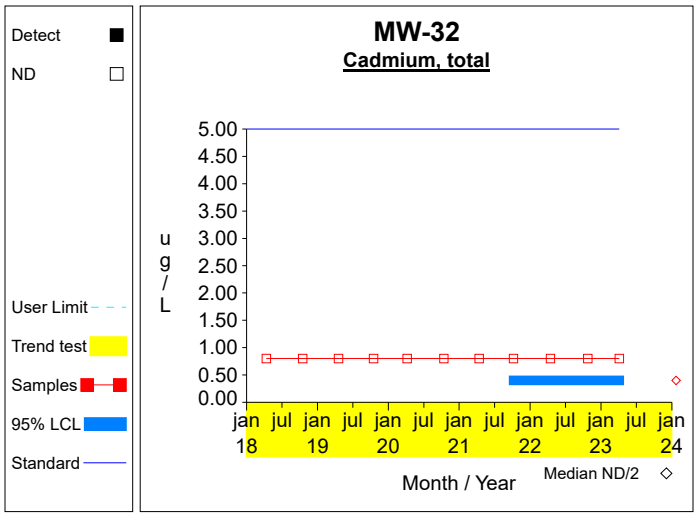
Confidence Limits (Assessment)



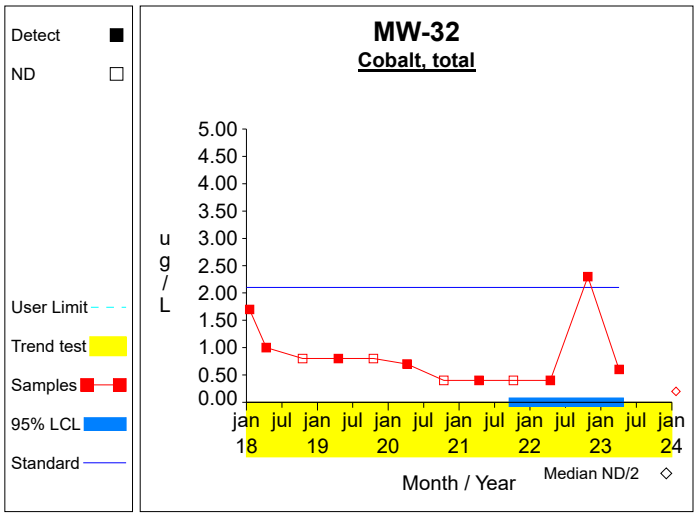
Graph 19



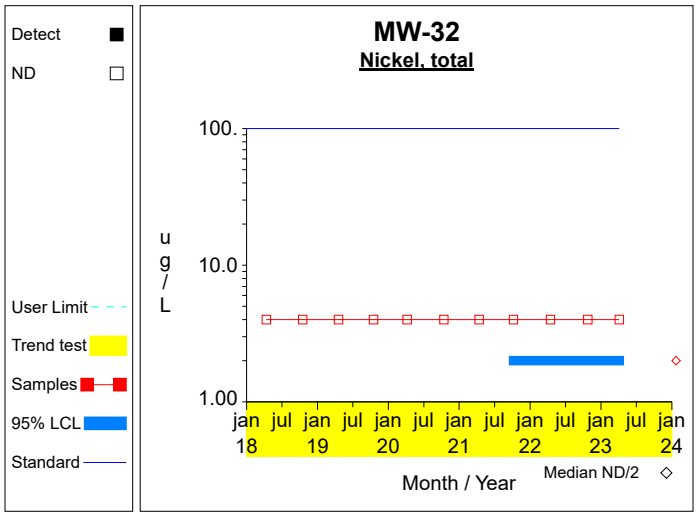
Graph 20



Graph 21



Graph 22



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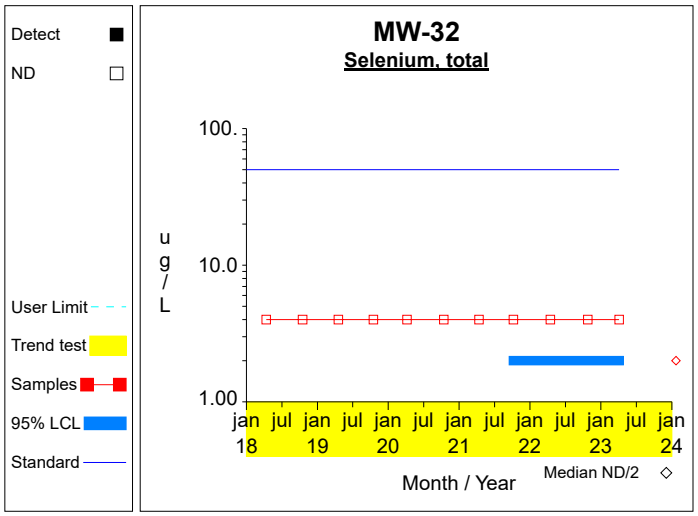
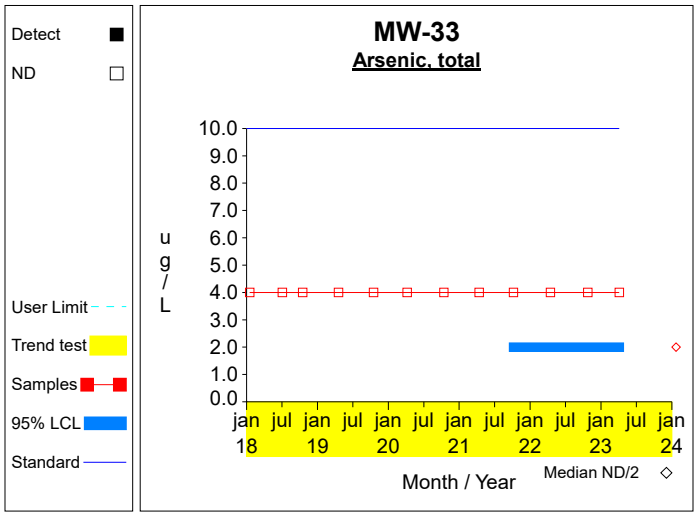


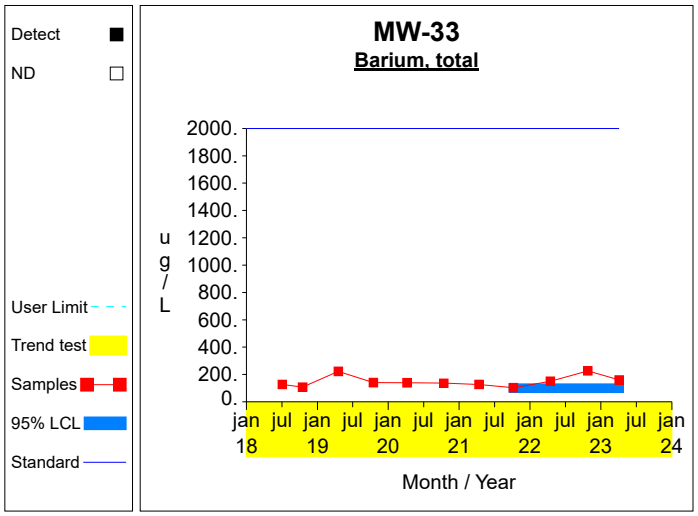
Graph 24

Prepared by: Otter Creek Environmental

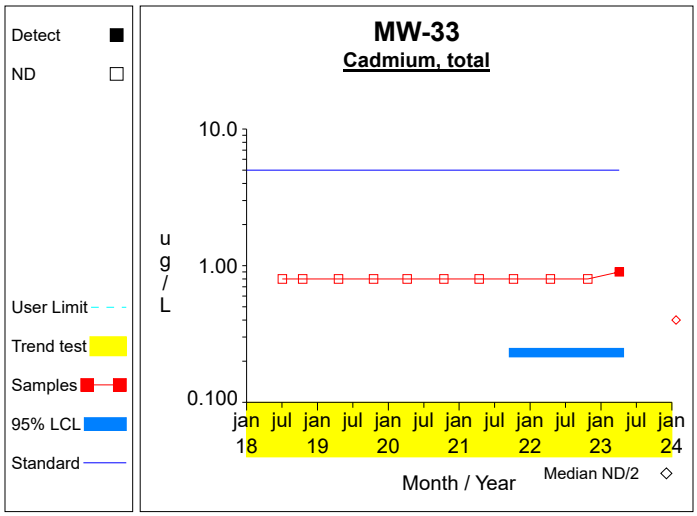
Confidence Limits (Assessment)



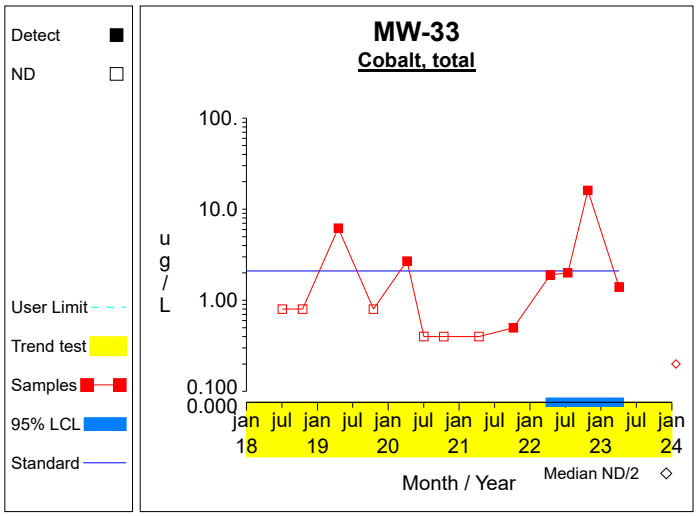
Graph 25



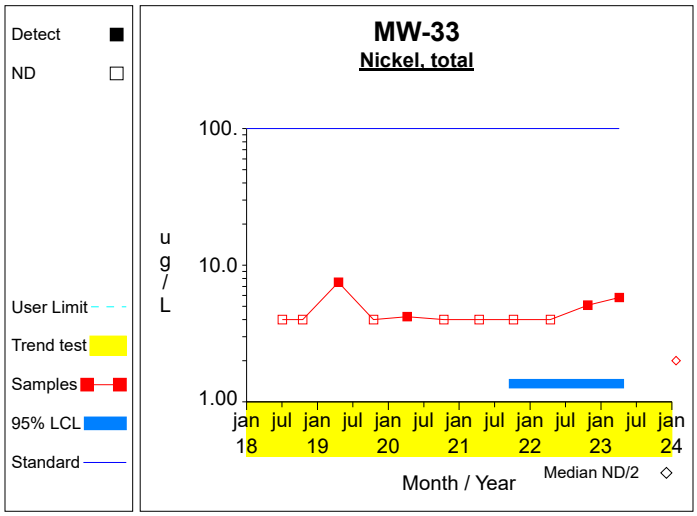
Graph 26



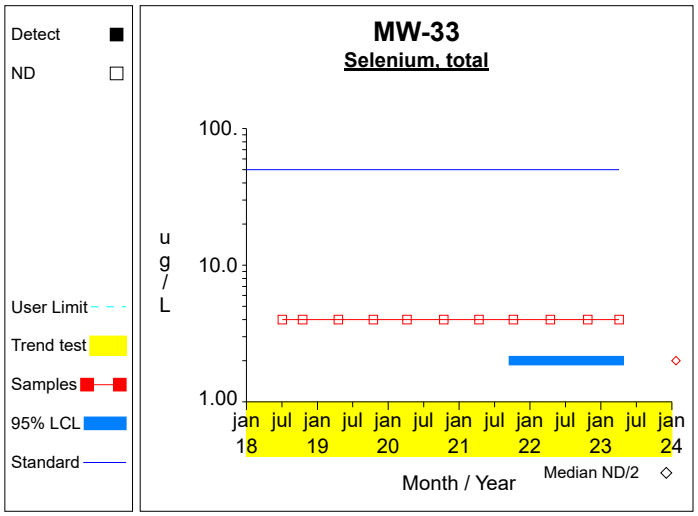
Graph 27



Graph 28



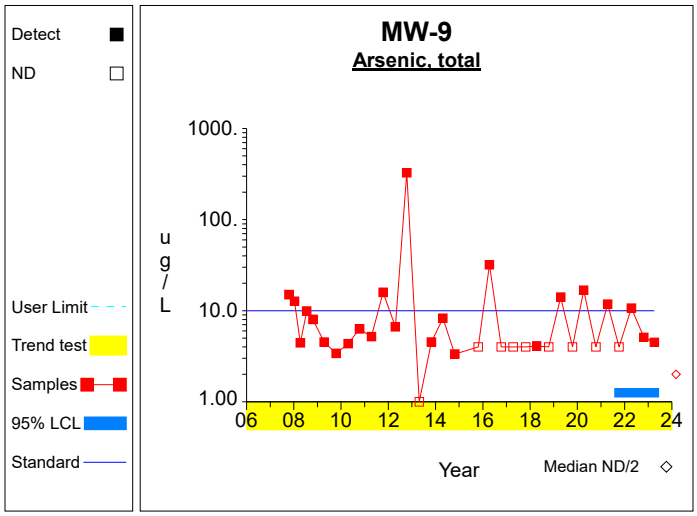
Graph 29



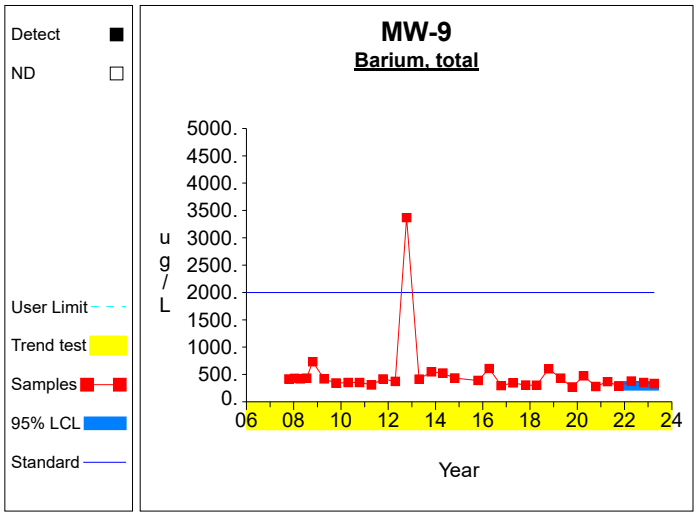
Graph 30

Prepared by: Otter Creek Environmental

Confidence Limits (Assessment)



Graph 31



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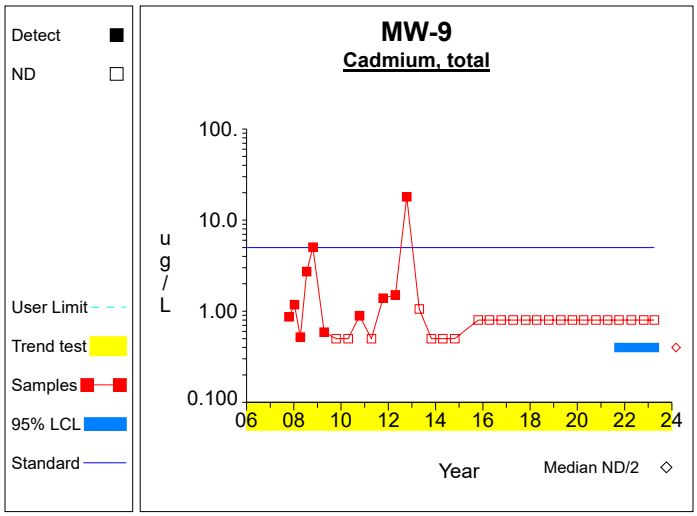
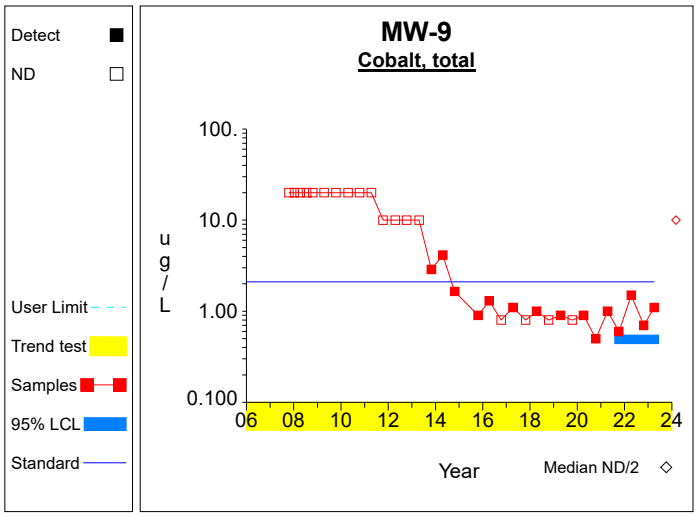
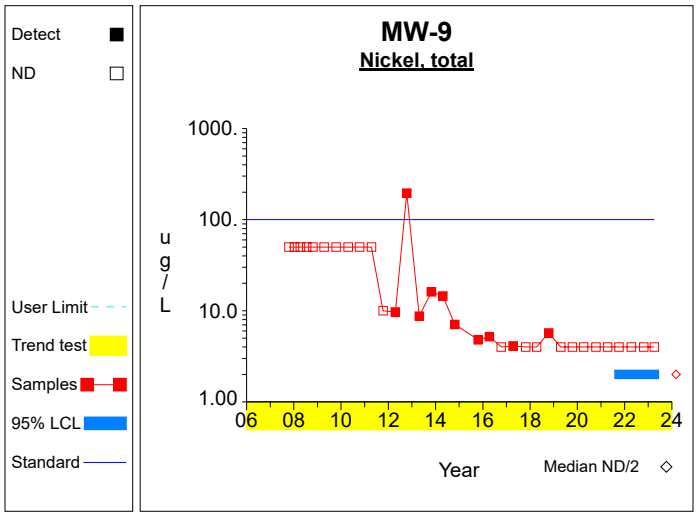


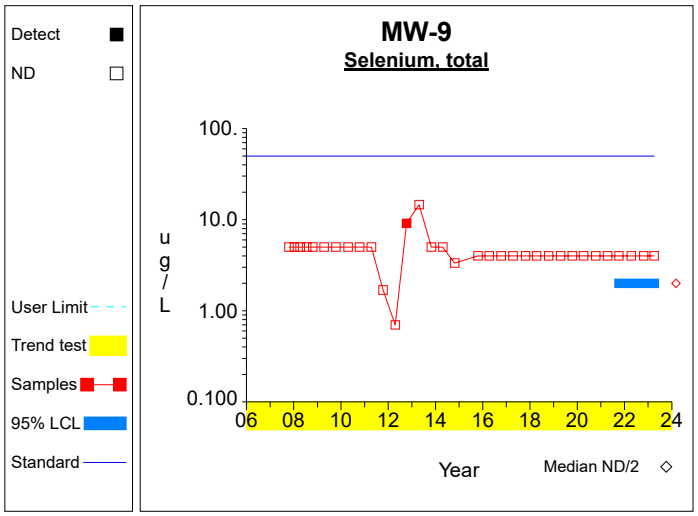
Graph 33



Graph 34



Graph 35



Graph 36

Prepared by: Otter Creek Environmental

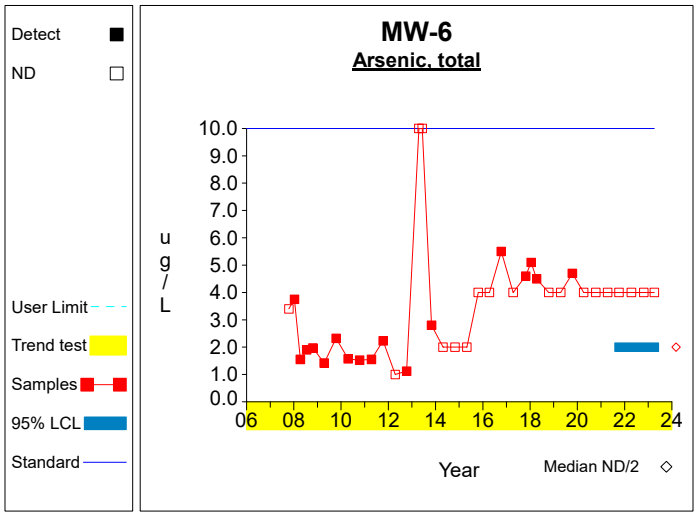
Table 1

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

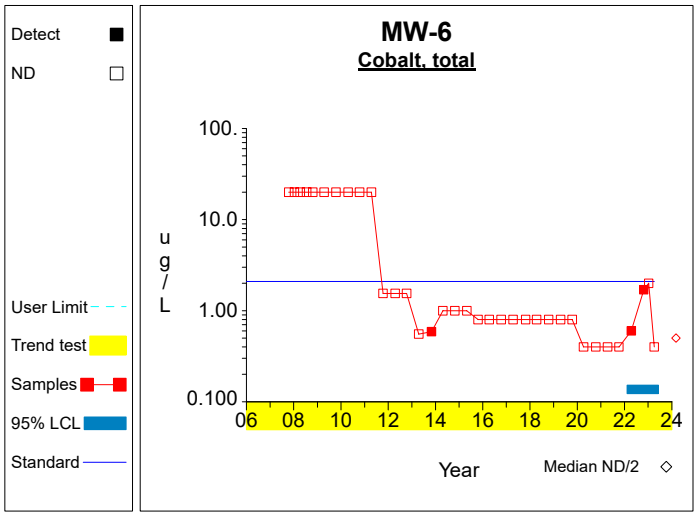
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Arsenic, total	ug/L	MW-6	4	2.000	0.000	1.176	2.000	2.000	10.000	
Cobalt, total	ug/L	MW-6	4	0.825	0.585	1.176	0.137	1.513	2.100	
Copper, total	ug/L	MW-6	4	2.750	1.500	1.176	0.986	4.514	1300.000	
Nickel, total	ug/L	MW-6	4	2.000	0.000	1.176	2.000	2.000	100.000	
Zinc, total	ug/L	MW-6	4	10.000	0.000	1.176	10.000	10.000	2000.000	
Arsenic, total	ug/L	MW-8	4	2.000	0.000	1.176	2.000	2.000	10.000	
Cobalt, total	ug/L	MW-8	4	0.825	0.850	1.176	0.000	1.825	2.100	
Copper, total	ug/L	MW-8	4	3.200	2.400	1.176	0.377	6.023	1300.000	
Nickel, total	ug/L	MW-8	4	3.000	2.000	1.176	0.647	5.353	100.000	
Zinc, total	ug/L	MW-8	4	36.000	52.000	1.176	0.000	97.167	2000.000	

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

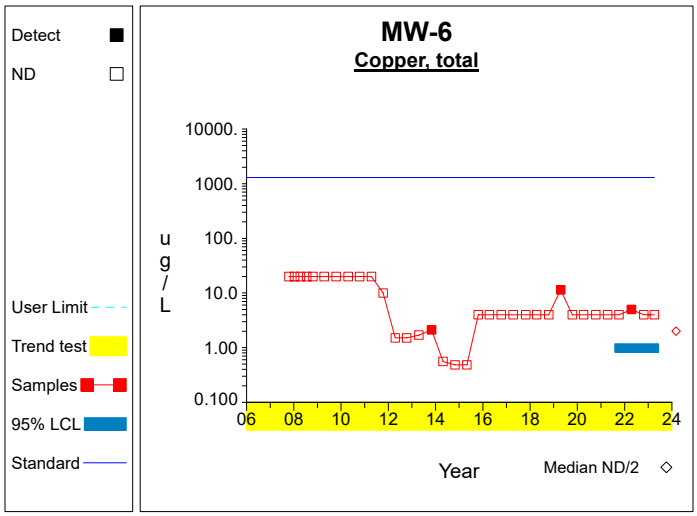
Confidence Limits (Assessment)



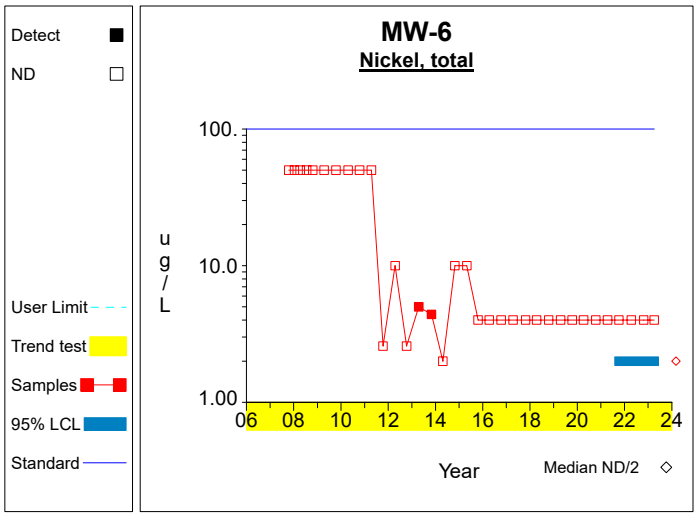
Graph 1



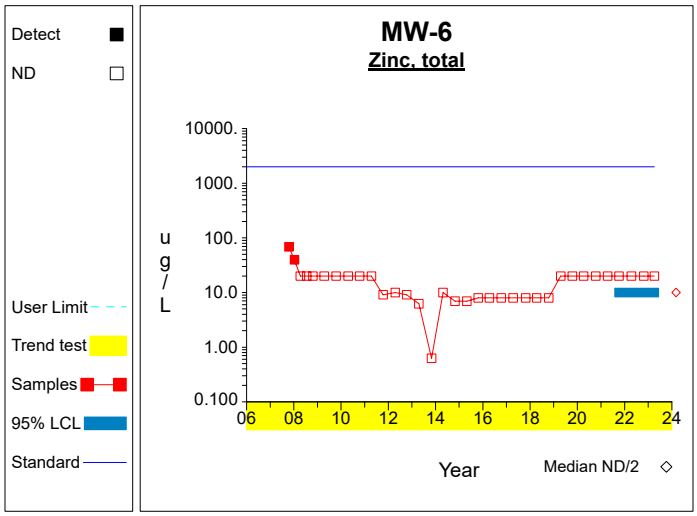
Graph 2



Graph 3



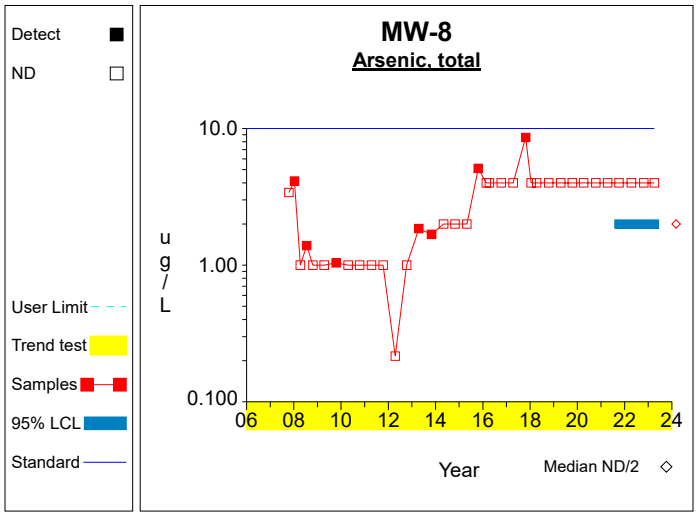
Graph 4



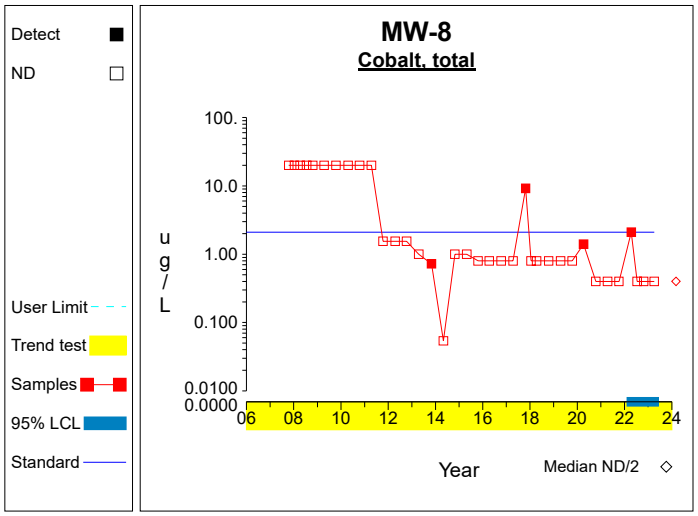
Graph 5

Prepared by: Otter Creek Environmental

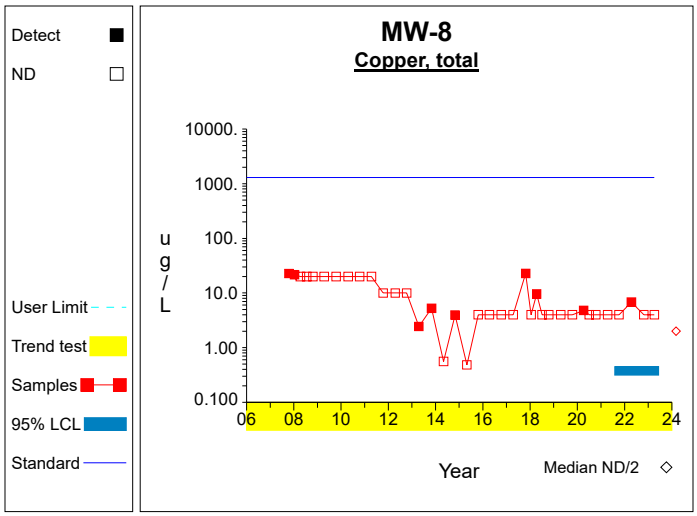
Confidence Limits (Assessment)



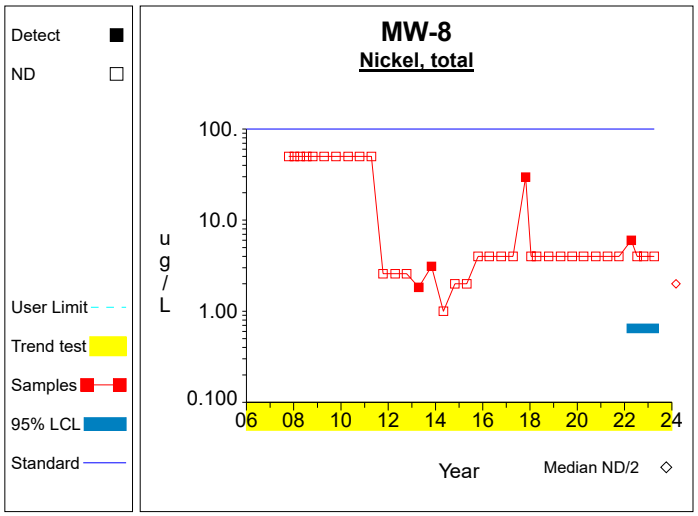
Graph 6



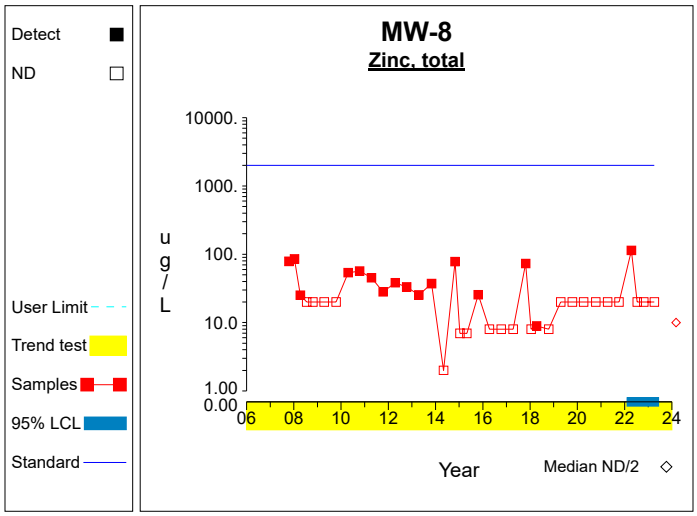
Graph 7



Graph 8



Graph 9



Graph 10

Prepared by: Otter Creek Environmental

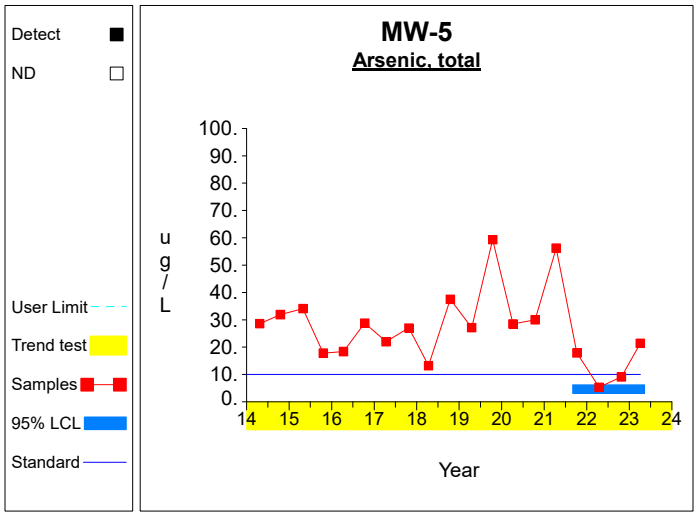
Table 1

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

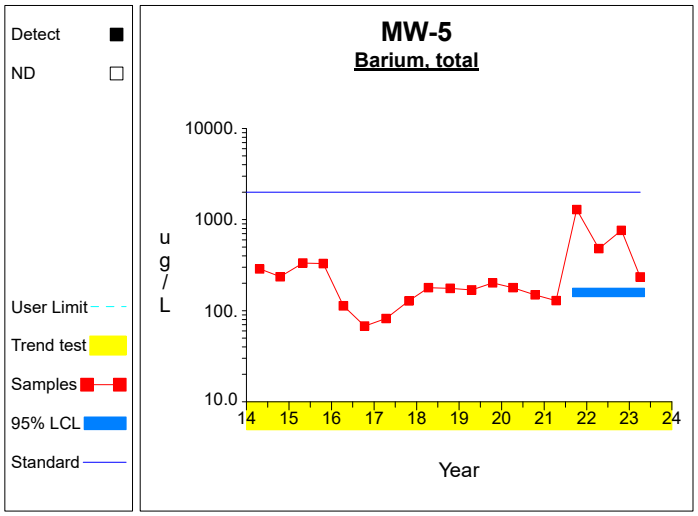
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Arsenic, total	ug/L	MW-5	4	13.425	7.491	1.176	4.613	22.237	10.000	
Barium, total	ug/L	MW-5	4	692.000	453.479	1.176	158.578	1225.422	2000.000	
Cobalt, total	ug/L	MW-5	4	0.550	0.058	1.176	0.482	0.618	2.100	dec
Zinc, total	ug/L	MW-5	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	35.200	1.270	1.176	33.706	36.694	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	24.225	2.265	1.176	21.561	26.889	2000.000	

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

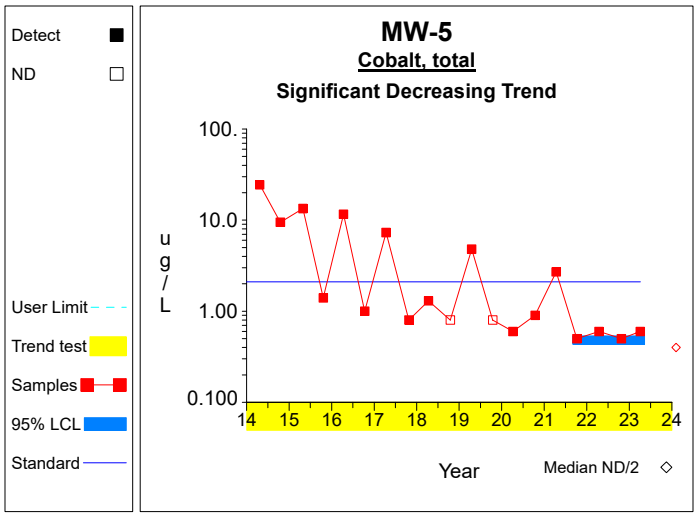
Confidence Limits (Assessment)



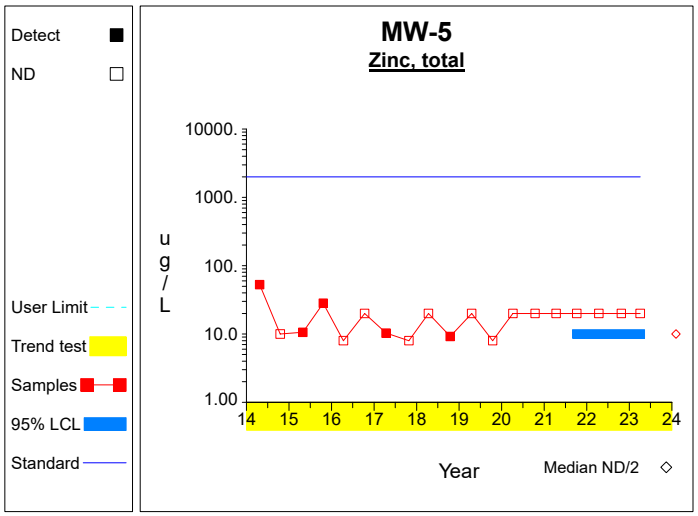
Graph 1



Graph 2

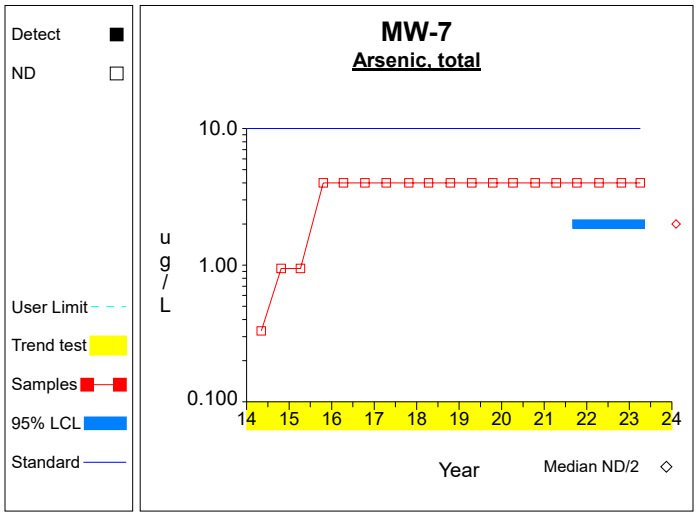


Graph 3

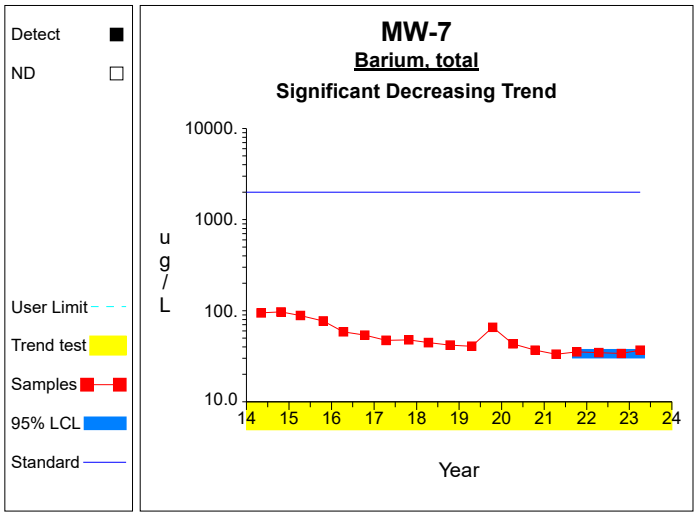


Graph 4

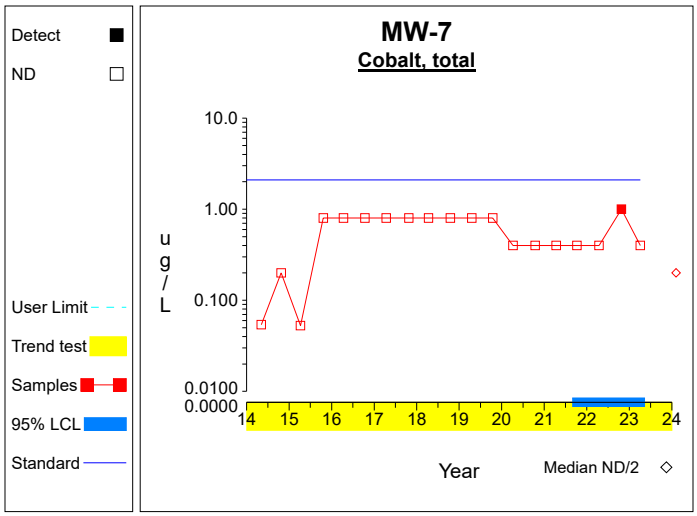
Confidence Limits (Assessment)



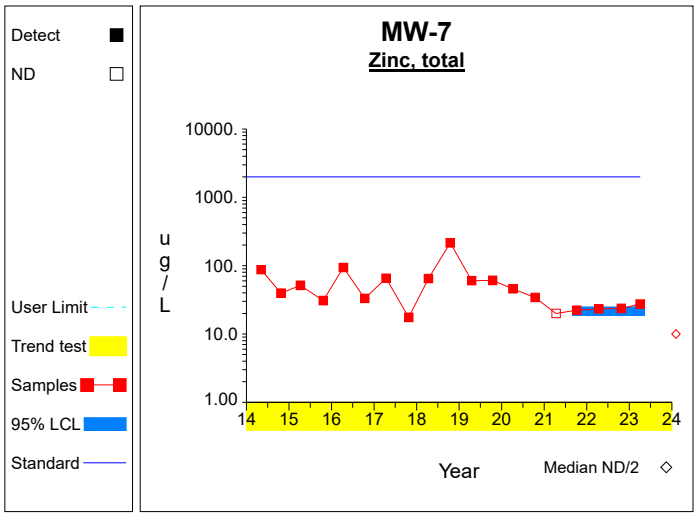
Graph 5



Graph 6



Graph 7



Graph 8

Appendix D.2 – Fall Statistical Evaluation Report

GROUND WATER STATISTICS

FOR THE

FAYETTE COUNTY SANITARY LANDFILL

Second Semi-Annual Monitoring Event in 2023

Prepared for:
Fayette County Solid Waste Management Commission
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INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the second semi-annual monitoring event in 2023 at the 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 second semi-annual monitoring event in 2023 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

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

Results of the Interwell Statistics – Shallow Zone

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, 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 Second Semi-Annual Monitoring Event in 2023

Well	Trace Metal	Result	Prediction Limit	Prediction Limit Type	Verified or Awaiting Verification
MW-26	Cobalt, µg/L	13.6	0.8000	Nonparametric	Awaiting Verification
	Nickel, µg/L	9.3	4.3000	Nonparametric	Awaiting Verification
MW-32	Arsenic, µg/L	8.9	4.0000	Nonparametric	Awaiting Verification
	Barium, µg/L	460	201.4397	Normal	Verified
MW-33	Arsenic, µg/L	25.6	4.0000	Nonparametric	Awaiting Verification
	Barium, µg/L	972	201.4397	Normal	Awaiting Verification
	Cadmium, µg/L	6.5	0.8000	Nonparametric	Verified
	Cobalt, µg/L	149	0.8000	Nonparametric	Verified
	Copper, µg/L	8.3	7.9000	Nonparametric	Awaiting Verification
	Nickel, µg/L	46.9	4.3000	Nonparametric	Verified
	Vanadium, µg/L	92.7	20.0000	Nonparametric	Awaiting Verification
MW-9	Arsenic, µg/L	6.1	4.0000	Nonparametric	Verified
	Barium, µg/L	435	201.4397	Normal	Verified
	Cobalt, µg/L	1.7	0.8000	Nonparametric	Verified
	Nickel, µg/L	8.4	4.3000	Nonparametric	Awaiting Verification

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 second semi-annual monitoring event in 2023 are summarized below.

Organic compounds detected during the second semi-annual monitoring event in 2023

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Groundwater Standard, µg/L
MW-26	Acetone	27.1	10	Awaiting Verification	6300[b]
MW-5	Benzene	4.5	1	Verified	5[a]
	Chlorobenzene	1.0	1	Verified	100[a]
	Chloroethane	4.0	1	Verified	2800[b]
	cis-1,2-Dichloroethene	1.6	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 Second Semi-Annual Monitoring Event in 2023

Table 1

Analytical Data Summary for 10/16/2023

Constituents	Units	ACM TILE 1	MW-10	MW-11	MW-12	MW-14R	MW-16	MW-17	MW-18	MW-20	MW-25
(3 4)-methylphenol	ug/L										
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	<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-dichloropropene	ug/L										
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L										
1,2,4-trichlorobenzene	ug/L										
1,2-dibromo-3-chloropropane	ug/L	<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
1,2-dinitrobenzene	ug/L										
1,3,5-trinitrobenzene	ug/L										
1,3-dichlorobenzene	ug/L										
1,3-dichloropropane	ug/L										
1,3-dinitrobenzene	ug/L										
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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-trichlorophenol	ug/L										
2,4,6-trichlorophenol	ug/L										
2,4-dichlorophenol	ug/L										
2,4-dimethylphenol	ug/L										
2,4-dinitrophenol	ug/L										
2,4-dinitrotoluene	ug/L										
2,6-dichlorophenol	ug/L										
2,6-dinitrotoluene	ug/L										
2-acetylaminofluorene	ug/L										
2-butanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-chloronaphthalene	ug/L										
2-chlorophenol	ug/L										
2-hexanone	ug/L	<5	<5	<5	<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										
4,6-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	<5	<5	<5
4-nitroaniline	ug/L										
4-nitrophenol	ug/L										
5-nitro-o-toluidine	ug/L										
7,12-dimethylbenz [a] anthracene	ug/L										
Acenaphthene	ug/L										
Acenaphthylene	ug/L										
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile	ug/L										
Acetophenone	ug/L										
Acrolein	ug/L										
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Alkalinity, as CaCO3	mg/L										
Allyl chloride	ug/L										
Anthracene	ug/L										
Antimony, total	ug/L		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Arsenic, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Azobenzene	ug/L										
Barium, total	ug/L		34.6	60.8	129.0	48.4	133.0	111.0	457.0	103.0	103.0
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene	ug/L										
Benzo(a)pyrene	ug/L										

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

Table 1

Analytical Data Summary for 10/16/2023

Constituents	MW-26	MW-32	MW-33	MW-5	MW-6	MW-7	MW-8	MW-9	PECS-1
(3 4)-methylphenol			<8						
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene			<1						
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene			<8						
1,2,4-trichlorobenzene			<1						
1,2-dibromo-3-chloropropane	<5	<5	<1	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene			<8						
1,3,5-trinitrobenzene			<8						
1,3-dichlorobenzene			<1						
1,3-dichloropropane			<1						
1,3-dinitrobenzene			<8						
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone			<8						
1,4-phenylenediamine			<8						
1-naphthylamine			<8						
2,2-dichloropropane			<1						
2,3,4,6-tetrachlorophenol			<8						
2,4,5-trichlorophenol			<8						
2,4,6-trichlorophenol			<8						
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	<10	<5	<10	<10	<10	<10	<10	<10
2-chloronaphthalene			<8						
2-chlorophenol			<8						
2-hexanone	<5	<5	<5	<5	<5	<5	<5	<5	<5
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						
4,6-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	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline			<8						
4-nitrophenol			<8						
5-nitro-o-toluidine			<8						
7,12-dimethylbenz [a] anthracene			<8						
Acenaphthene			<8						
Acenaphthylene			<8						
Acetone	27.1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile			<10						
Acetophenone			<8						
Acrolein			<10						
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Alkalinity, as CaCO3				663					
Allyl chloride			<1						
Anthracene			<8						
Antimony, total	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	
Arsenic, total	<4.0	8.9	25.6	13.7	<4.0	<4.0	<4.0	6.1	
Azobenzene			<8						
Barium, total	46.5	460.0	972.0	509.0	50.5	36.0	45.0	435.0	
Benzene	<1.0	<1.0	<1.0	4.5	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene			<8						
Benzo(a)pyrene			<8						

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

Table 1

Analytical Data Summary for 10/16/2023

Constituents	Units	ACM TILE 1	MW-10	MW-11	MW-12	MW-14R	MW-16	MW-17	MW-18	MW-20	MW-25
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	<4	<4
Bis (2-chloroethoxy) methane	ug/L										
Bis(2-chloroethyl) ether	ug/L										
Bis(2-ethylhexyl) phthalate	ug/L										<6
Bis[2-chloroisopropyl]ether	ug/L										
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
Butyl benzyl phthalate	ug/L										
Cadmium, total	ug/L		<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride	mg/L				4.4		28.9	24.1			21.3
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L										
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
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
Chloroprene	ug/L										
Chromium, total	ug/L		<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene	ug/L										
Cis-1,2-dichloroethylene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L		<.4	1.1	.7	<.4	<.4	<.4	<.4	<.4	<.4
COD, total	mg/L				<20		<20	<20			<20
Copper, total	ug/L		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total	mg/L										
Diallate	ug/L										
Dibenzo(a,h)anthracene	ug/L										
Dibenzofuran	ug/L										
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
Dichlorodifluoromethane	ug/L										
Diethyl phthalate	ug/L										
Dimethylphthalate	ug/L										
Di-n-butyl phthalate	ug/L										
Di-n-octyl phthalate	ug/L										
Diphenylamine	ug/L										
Ethyl methacrylate	ug/L										
Ethyl methanesulfonate	ug/L										
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluoranthene	ug/L										
Fluorene	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	<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	<4	<4
Mercury, total	ug/L										
Methacrylonitrile	ug/L										
Methapyrilene	ug/L										
Methyl methacrylate	ug/L										
Methyl methanesulfonate	ug/L										
Methylene chloride	ug/L	<5	<5	<5	<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	<4.0	<4.0
Nitrobenzene	ug/L										
Nitrogen, Ammonia	mg/L				<.10		.13	<.10			<.10
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										

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

Table 1

Analytical Data Summary for 10/16/2023

Constituents	MW-26	MW-32	MW-33	MW-5	MW-6	MW-7	MW-8	MW-9	PECS-1
Benzo(b)fluoranthene			<8						
Benzo(g,h,i)perylene			<8						
Benzo(k)fluoranthene			<8						
Benzyl alcohol			<8						
Beryllium, total	<4	<4	<4	<4	<4	<4	<4	<4	
Bis (2-chloroethoxy) methane			<8						
Bis(2-chloroethyl) ether			<8						
Bis(2-ethylhexyl) phthalate	<6		<6						
Bis[2-chloroisopropyl]ether			<8						
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate			<8						
Cadmium, total	<.8	<.8	6.5	<.8	<.8	<.8	<.8	<.8	
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride	19.9	26.9	26.1	3.6		14.9		74.1	
Chlorobenzene	<1	<1	<1	1	<1	<1	<1	<1	<1
Chlorobenzilate			<8						
Chloroethane	<1	<1	<1	4	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene			<1						
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	
Chrysene			<8						
Cis-1,2-dichloroethylene	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	13.6	<.4	149.0	.9	<.4	<.4	<.4	1.7	
COD, total	<20	<20	24	44		<20		<20	
Copper, total	<4.0	<4.0	8.3	<4.0	<4.0	<4.0	<4.0	<4.0	
Cyanide, total			<.005						
Diallate			<8						
Dibenzo(a,h)anthracene			<8						
Dibenzofuran			<8						
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane			<1						
Diethyl phthalate			<8						
Dimethylphthalate			<8						
Di-n-butyl phthalate			<8						
Di-n-octyl phthalate			<8						
Diphenylamine			<8						
Ethyl methacrylate			<10						
Ethyl methanesulfonate			<8						
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluoranthene			<8						
Fluorene			<8						
Hexachlorobutadiene			<8						
Hexachlorocyclopentadiene			<8						
Hexachloroethane			<8						
Hexachloropropene			<8						
Indeno(1,2,3-cd)pyrene			<8						
Iodomethane	<1	<1	<2	<1	<1	<1	<1	<1	<1
Isobutanol			<1						
Isodrin			<8						
Isophorone			<8						
Isosafrole			<8						
Kepone			<8						
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	
Mercury, total			<.5						
Methacrylonitrile			<1						
Methapyrilene			<8						
Methyl methacrylate			<1						
Methyl methanesulfonate			<8						
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene			<8						
Nickel, total	9.3	<4.0	46.9	<4.0	<4.0	<4.0	<4.0	8.4	
Nitrobenzene			<8						
Nitrogen, Ammonia	<.10	<.10	.10	4.80		<.10		<.10	
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						

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

Table 1

Analytical Data Summary for 10/16/2023

Constituents	Units	ACM TILE 1	MW-10	MW-11	MW-12	MW-14R	MW-16	MW-17	MW-18	MW-20	MW-25
N-nitrosopyrrolidine	ug/L										
O-toluidine	ug/L										
P-(dimethylamino)azobenzene	ug/L										
Pentachlorobenzene	ug/L										
Pentachloronitrobenzene (pcnb)	ug/L										
Pentachlorophenol	ug/L										
pH	pH										
Phenacetin	ug/L										
Phenanthrene	ug/L										
Phenol	ug/L										
Pronamide	ug/L										
Propionitrile	ug/L										
Pyrene	ug/L										
Safrole	ug/L										
Selenium, total	ug/L		<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L		<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L										
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L		<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin, total	ug/L										
Toluene	ug/L	<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
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		<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<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	<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 10/16/2023

Constituents	MW-26	MW-32	MW-33	MW-5	MW-6	MW-7	MW-8	MW-9	PECS-1
N-nitrosopyrrolidine			<8						
O-toluidine			<8						
P-(dimethylamino)azobenzene			<8						
Pentachlorobenzene			<8						
Pentachloronitrobenzene (pcnb)			<8						
Pentachlorophenol			<8						
pH				6.4					
Phenacetin			<8						
Phenanthrene			<8						
Phenol			<8						
Pronamide			<8						
Propionitrile			<10						
Pyrene			<8						
Safrole			<8						
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total			<.10	.17					
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2	<2	<2	<2	<2	<2	<2	<2	
Tin, total			<20						
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	92.7	<20.0	<20.0	<20.0	<20.0	<20.0	
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20	<20	<20	<20	<20	<20	<20	<20	

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons – Shallow Zone

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-12	10/24/2014	ND	0.1610	2.0000	**
Antimony, total	ug/L	MW-12	04/07/2015	ND	0.1610	2.0000	**
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		
Arsenic, total	ug/L	MW-12	10/24/2014	ND	0.9450	4.0000	**
Arsenic, total	ug/L	MW-12	04/07/2015	ND	0.9450	4.0000	**
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		
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		
Beryllium, total	ug/L	MW-12	10/24/2014	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-12	04/07/2015	ND	0.0390	4.0000	**
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		
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		

* - 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	04/03/2023	ND	4.0000		
Beryllium, total	ug/L	MW-12	10/16/2023	ND	4.0000		
Cadmium, total	ug/L	MW-12	10/24/2014	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-12	04/07/2015	ND	0.1120	0.8000	**
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		
Chromium, total	ug/L	MW-12	10/24/2014	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-12	04/07/2015	ND	1.2400	8.0000	**
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		
Cobalt, total	ug/L	MW-12	10/24/2014	ND	0.0528	0.8000	**
Cobalt, total	ug/L	MW-12	04/07/2015	ND	0.0528	0.8000	**
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		
Copper, total	ug/L	MW-12	10/24/2014		5.7500		
Copper, total	ug/L	MW-12	04/07/2015	ND	0.4850	4.0000	**
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		

* - 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	04/14/2022	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		
Lead, total	ug/L	MW-12	10/24/2014	ND	0.0967	4.0000	**
Lead, total	ug/L	MW-12	04/07/2015	ND	0.0967	4.0000	**
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		
Nickel, total	ug/L	MW-12	10/24/2014	ND	1.0000	4.0000	**
Nickel, total	ug/L	MW-12	04/07/2015	ND	0.5810	4.0000	**
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		
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		
Silver, total	ug/L	MW-12	10/24/2014	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-12	04/07/2015	ND	0.0420	4.0000	**
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		

* - 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	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		
Thallium, total	ug/L	MW-12	10/24/2014	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-12	04/07/2015	ND	0.0325	2.0000	**
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		
Vanadium, total	ug/L	MW-12	10/24/2014	ND	1.0000	20.0000	**
Vanadium, total	ug/L	MW-12	04/07/2015	ND	0.4490	20.0000	**
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		
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		
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		
Antimony, total	ug/L	MW-17	10/24/2014	ND	0.5410	2.0000	**
Antimony, total	ug/L	MW-17	04/07/2015	ND	0.1610	2.0000	**
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		

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-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		
Arsenic, total	ug/L	MW-17	10/24/2014	ND	0.9450	4.0000	**
Arsenic, total	ug/L	MW-17	04/07/2015	ND	0.9450	4.0000	**
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		
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		
Beryllium, total	ug/L	MW-17	10/24/2014	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-17	04/07/2015	ND	0.0390	4.0000	**
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		
Cadmium, total	ug/L	MW-17	10/24/2014	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-17	04/07/2015	ND	0.1120	0.8000	**
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		

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW-17	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		
Chromium, total	ug/L	MW-17	10/24/2014	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-17	04/07/2015	ND	1.2400	8.0000	**
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		
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	**
Copper, total	ug/L	MW-17	10/24/2014		3.6500		
Copper, total	ug/L	MW-17	04/07/2015	ND	0.4850	4.0000	**
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		
Lead, total	ug/L	MW-17	10/24/2014	ND	0.5000	4.0000	**
Lead, total	ug/L	MW-17	04/07/2015	ND	0.5000	4.0000	**
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		

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead, total	ug/L	MW-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		
Nickel, total	ug/L	MW-17	10/24/2014	ND	1.0000	4.0000	**
Nickel, total	ug/L	MW-17	04/07/2015	ND	0.5810	4.0000	**
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		
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		
Silver, total	ug/L	MW-17	10/24/2014	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-17	04/07/2015	ND	0.0420	4.0000	**
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		
Thallium, total	ug/L	MW-17	10/24/2014	ND	0.0325	2.0000	**
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	**

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

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, total	ug/L	MW-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		
Vanadium, total	ug/L	MW-17	10/24/2014	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-17	04/07/2015	ND	0.4490	20.0000	**
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		
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		
Antimony, total	ug/L	MW-21	10/24/2014	ND	0.1610	2.0000	**
Antimony, total	ug/L	MW-21	04/07/2015	ND	0.1610	2.0000	**
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		
Arsenic, total	ug/L	MW-21	10/24/2014	ND	0.9450	4.0000	**
Arsenic, total	ug/L	MW-21	04/07/2015	ND	0.9450	4.0000	**
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		

* - 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	04/13/2017	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		
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		
Beryllium, total	ug/L	MW-21	10/24/2014	ND	0.0390	4.0000	**
Beryllium, total	ug/L	MW-21	04/07/2015	ND	0.0390	4.0000	**
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		
Cadmium, total	ug/L	MW-21	10/24/2014	ND	0.1120	0.8000	**
Cadmium, total	ug/L	MW-21	04/07/2015	ND	0.1120	0.8000	**
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		
Chromium, total	ug/L	MW-21	10/24/2014	ND	1.2400	8.0000	**
Chromium, total	ug/L	MW-21	04/07/2015	ND	1.2400	8.0000	**
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		

* - 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	04/06/2020	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		
Cobalt, total	ug/L	MW-21	10/24/2014	ND	0.0528	0.8000	**
Cobalt, total	ug/L	MW-21	04/07/2015	ND	0.0528	0.8000	**
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	**
Copper, total	ug/L	MW-21	10/24/2014	ND	0.4850	4.0000	**
Copper, total	ug/L	MW-21	04/07/2015	ND	0.4850	4.0000	**
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		
Lead, total	ug/L	MW-21	10/24/2014	ND	0.0967	4.0000	**
Lead, total	ug/L	MW-21	04/07/2015	ND	0.5000	4.0000	**
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		
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	4.0000	**
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		

* - 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-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		
Silver, total	ug/L	MW-21	10/24/2014	ND	0.0420	4.0000	**
Silver, total	ug/L	MW-21	04/07/2015	ND	0.0420	4.0000	**
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		
Thallium, total	ug/L	MW-21	10/24/2014	ND	0.0325	2.0000	**
Thallium, total	ug/L	MW-21	04/07/2015	ND	0.0325	2.0000	**
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		
Vanadium, total	ug/L	MW-21	10/24/2014	ND	0.4490	20.0000	**
Vanadium, total	ug/L	MW-21	04/07/2015	ND	0.4490	20.0000	**
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		
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	**

* - 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-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		

* - 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	10/16/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-16	10/16/2023	ND	4.0000		4.0000
Barium, total	ug/L	MW-16	10/16/2023		133.0000		201.4397
Beryllium, total	ug/L	MW-16	10/16/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-16	10/16/2023	ND	0.8000		0.8000
Chromium, total	ug/L	MW-16	10/16/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-16	10/16/2023	ND	0.4000		0.8000
Copper, total	ug/L	MW-16	10/16/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-16	10/16/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-16	10/16/2023	ND	4.0000		4.3000
Selenium, total	ug/L	MW-16	10/16/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-16	10/16/2023	ND	4.0000		4.0000
Thallium, total	ug/L	MW-16	10/16/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-16	10/16/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-16	10/16/2023	ND	20.0000		20.8000
Antimony, total	ug/L	MW-25	10/16/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-25	10/16/2023	ND	4.0000		4.0000
Barium, total	ug/L	MW-25	10/16/2023		103.0000		201.4397
Beryllium, total	ug/L	MW-25	10/16/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-25	10/16/2023	ND	0.8000		0.8000
Chromium, total	ug/L	MW-25	10/16/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-25	10/16/2023	ND	0.4000		0.8000
Copper, total	ug/L	MW-25	10/16/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-25	10/16/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-25	10/16/2023	ND	4.0000		4.3000
Selenium, total	ug/L	MW-25	10/16/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-25	10/16/2023	ND	4.0000		4.0000
Thallium, total	ug/L	MW-25	10/16/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-25	10/16/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-25	10/16/2023	ND	20.0000		20.8000
Antimony, total	ug/L	MW-26	10/16/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-26	10/16/2023	ND	4.0000		4.0000
Barium, total	ug/L	MW-26	10/16/2023		46.5000		201.4397
Beryllium, total	ug/L	MW-26	10/16/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-26	10/16/2023	ND	0.8000		0.8000
Chromium, total	ug/L	MW-26	10/16/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-26	10/16/2023		13.6000	*	0.8000
Copper, total	ug/L	MW-26	10/16/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-26	10/16/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-26	10/16/2023		9.3000	*	4.3000
Selenium, total	ug/L	MW-26	10/16/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-26	10/16/2023	ND	4.0000		4.0000
Thallium, total	ug/L	MW-26	10/16/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-26	10/16/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-26	10/16/2023	ND	20.0000		20.8000
Antimony, total	ug/L	MW-32	10/16/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-32	10/16/2023		8.9000	*	4.0000
Barium, total	ug/L	MW-32	10/16/2023		460.0000	***	201.4397
Beryllium, total	ug/L	MW-32	10/16/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-32	10/16/2023	ND	0.8000		0.8000
Chromium, total	ug/L	MW-32	10/16/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-32	10/16/2023	ND	0.4000		0.8000
Copper, total	ug/L	MW-32	10/16/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-32	10/16/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-32	10/16/2023	ND	4.0000		4.3000
Selenium, total	ug/L	MW-32	10/16/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-32	10/16/2023	ND	4.0000		4.0000
Thallium, total	ug/L	MW-32	10/16/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-32	10/16/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-32	10/16/2023	ND	20.0000		20.8000
Antimony, total	ug/L	MW-33	10/16/2023		2.8000		6.2000
Arsenic, total	ug/L	MW-33	10/16/2023		25.6000	*	4.0000
Barium, total	ug/L	MW-33	10/16/2023		972.0000	*	201.4397
Beryllium, total	ug/L	MW-33	10/16/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-33	10/16/2023		6.5000	***	0.8000
Chromium, total	ug/L	MW-33	10/16/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-33	10/16/2023		149.0000	***	0.8000
Copper, total	ug/L	MW-33	10/16/2023		8.3000	*	7.9000
Lead, total	ug/L	MW-33	10/16/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-33	10/16/2023		46.9000	***	4.3000
Selenium, total	ug/L	MW-33	10/16/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-33	10/16/2023	ND	4.0000		4.0000

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

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Thallium, total	ug/L	MW-33	10/16/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-33	10/16/2023		92.7000	*	20.0000
Zinc, total	ug/L	MW-33	10/16/2023	ND	20.0000		20.8000
Antimony, total	ug/L	MW-9	10/16/2023	ND	2.0000		6.2000
Arsenic, total	ug/L	MW-9	10/16/2023		6.1000	***	4.0000
Barium, total	ug/L	MW-9	10/16/2023		435.0000	***	201.4397
Beryllium, total	ug/L	MW-9	10/16/2023	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-9	10/16/2023	ND	0.8000		0.8000
Chromium, total	ug/L	MW-9	10/16/2023	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-9	10/16/2023		1.7000	***	0.8000
Copper, total	ug/L	MW-9	10/16/2023	ND	4.0000		7.9000
Lead, total	ug/L	MW-9	10/16/2023	ND	4.0000		4.0000
Nickel, total	ug/L	MW-9	10/16/2023		8.4000	*	4.3000
Selenium, total	ug/L	MW-9	10/16/2023	ND	4.0000		4.0000
Silver, total	ug/L	MW-9	10/16/2023	ND	4.0000		4.0000
Thallium, total	ug/L	MW-9	10/16/2023	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-9	10/16/2023	ND	20.0000		20.0000
Zinc, total	ug/L	MW-9	10/16/2023	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	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Antimony, total	1	55	0.018	2	157	0.013
Arsenic, total	0	55	0.000	38	159	0.239
Barium, total	55	55	1.000	158	158	1.000
Beryllium, total	0	55	0.000	2	157	0.013
Cadmium, total	0	55	0.000	12	157	0.076
Chromium, total	0	55	0.000	4	157	0.025
Cobalt, total	2	55	0.036	71	161	0.441
Copper, total	3	55	0.055	21	157	0.134
Lead, total	0	54	0.000	14	157	0.089
Nickel, total	1	55	0.018	44	157	0.280
Selenium, total	0	55	0.000	3	158	0.019
Silver, total	0	55	0.000	1	157	0.006
Thallium, total	0	55	0.000	0	157	0.000
Vanadium, total	0	55	0.000	9	157	0.057
Zinc, total	4	54	0.074	30	158	0.190

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	1	55	0.018									nonpar
Arsenic, total	0	55	0.000									nonpar
Barium, total	55	55	1.000	1.320	0.230					2.326	normal	normal
Beryllium, total	0	55	0.000									nonpar
Cadmium, total	0	55	0.000									nonpar
Chromium, total	0	55	0.000									nonpar
Cobalt, total	2	55	0.036									nonpar
Copper, total	3	55	0.055									nonpar
Lead, total	0	54	0.000									nonpar
Nickel, total	1	55	0.018									nonpar
Selenium, total	0	55	0.000									nonpar
Silver, total	0	55	0.000									nonpar
Thallium, total	0	55	0.000									nonpar
Vanadium, total	0	55	0.000									nonpar
Zinc, total	4	54	0.074	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	1	55					6.2000	nonpar		0.99
Arsenic, total	ug/L	0	55					4.0000	nonpar	***	0.99
Barium, total	ug/L	55	55	103.5945	40.4476	0.0100	2.4191	201.4397	normal		
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	55					0.8000	nonpar	***	0.99
Copper, total	ug/L	3	55					7.9000	nonpar		0.99
Lead, total	ug/L	0	54					4.0000	nonpar	***	0.99
Nickel, total	ug/L	1	55					4.3000	nonpar		0.99
Selenium, total	ug/L	0	55					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	55					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	55					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	0	55					20.0000	nonpar	***	0.99
Zinc, total	ug/L	4	54					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 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	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
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
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
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

* - 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-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
Barium, total	ug/L	MW-32	04/11/2018		247.0000	*	201.4397
Barium, total	ug/L	MW-32	10/16/2018		199.0000		201.4397
Barium, total	ug/L	MW-32	04/18/2019		238.0000	*	201.4397
Barium, total	ug/L	MW-32	10/16/2019		199.0000		201.4397
Barium, total	ug/L	MW-32	04/06/2020		205.0000	*	201.4397
Barium, total	ug/L	MW-32	10/13/2020		188.0000		201.4397
Barium, total	ug/L	MW-32	04/12/2021		254.0000	*	201.4397
Barium, total	ug/L	MW-32	07/01/2021		219.0000	*	201.4397
Barium, total	ug/L	MW-32	10/06/2021		197.0000		201.4397
Barium, total	ug/L	MW-32	04/14/2022		206.0000	*	201.4397
Barium, total	ug/L	MW-32	10/25/2022		281.0000	*	201.4397
Barium, total	ug/L	MW-32	04/03/2023		344.0000	*	201.4397
Barium, total	ug/L	MW-32	10/16/2023		460.0000	*	201.4397
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
Barium, total	ug/L	MW-33	07/02/2018		127.0000		201.4397
Barium, total	ug/L	MW-33	10/16/2018		107.0000		201.4397
Barium, total	ug/L	MW-33	04/18/2019		222.0000	*	201.4397
Barium, total	ug/L	MW-33	10/16/2019		140.0000		201.4397
Barium, total	ug/L	MW-33	04/06/2020		139.0000		201.4397
Barium, total	ug/L	MW-33	10/13/2020		136.0000		201.4397
Barium, total	ug/L	MW-33	04/12/2021		127.0000		201.4397
Barium, total	ug/L	MW-33	10/06/2021		103.0000		201.4397
Barium, total	ug/L	MW-33	04/14/2022		150.0000		201.4397
Barium, total	ug/L	MW-33	10/25/2022		226.0000	*	201.4397
Barium, total	ug/L	MW-33	04/03/2023		160.0000		201.4397
Barium, total	ug/L	MW-33	10/16/2023		972.0000	*	201.4397
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
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

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

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Copper, total	ug/L	MW-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
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
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
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
Barium, total	ug/L	MW-9	10/17/2007		416.0000	*	201.4397

* - 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	01/11/2008		430.0000	*	201.4397
Barium, total	ug/L	MW-9	04/10/2008		421.0000	*	201.4397
Barium, total	ug/L	MW-9	07/17/2008		432.0000	*	201.4397
Barium, total	ug/L	MW-9	10/21/2008		733.0000	*	201.4397
Barium, total	ug/L	MW-9	04/13/2009		420.0000	*	201.4397
Barium, total	ug/L	MW-9	10/14/2009		344.0000	*	201.4397
Barium, total	ug/L	MW-9	04/20/2010		352.0000	*	201.4397
Barium, total	ug/L	MW-9	10/13/2010		353.0000	*	201.4397
Barium, total	ug/L	MW-9	04/14/2011		310.0000	*	201.4397
Barium, total	ug/L	MW-9	10/11/2011		418.0000	*	201.4397
Barium, total	ug/L	MW-9	04/18/2012		373.0000	*	201.4397
Barium, total	ug/L	MW-9	10/11/2012		3370.0000	*	201.4397
Barium, total	ug/L	MW-9	04/23/2013		415.0000	*	201.4397
Barium, total	ug/L	MW-9	10/29/2013		548.0000	*	201.4397
Barium, total	ug/L	MW-9	04/23/2014		525.0000	*	201.4397
Barium, total	ug/L	MW-9	10/24/2014		435.0000	*	201.4397
Barium, total	ug/L	MW-9	10/20/2015		389.0000	*	201.4397
Barium, total	ug/L	MW-9	04/11/2016		608.0000	*	201.4397
Barium, total	ug/L	MW-9	10/12/2016		296.0000	*	201.4397
Barium, total	ug/L	MW-9	04/12/2017		346.0000	*	201.4397
Barium, total	ug/L	MW-9	10/25/2017		304.0000	*	201.4397
Barium, total	ug/L	MW-9	04/11/2018		303.0000	*	201.4397
Barium, total	ug/L	MW-9	10/16/2018		605.0000	*	201.4397
Barium, total	ug/L	MW-9	04/18/2019		432.0000	*	201.4397
Barium, total	ug/L	MW-9	10/16/2019		270.0000	*	201.4397
Barium, total	ug/L	MW-9	04/06/2020		474.0000	*	201.4397
Barium, total	ug/L	MW-9	10/14/2020		281.0000	*	201.4397
Barium, total	ug/L	MW-9	04/12/2021		369.0000	*	201.4397
Barium, total	ug/L	MW-9	10/06/2021		285.0000	*	201.4397
Barium, total	ug/L	MW-9	04/15/2022		379.0000	*	201.4397
Barium, total	ug/L	MW-9	10/25/2022		353.0000	*	201.4397
Barium, total	ug/L	MW-9	04/03/2023		334.0000	*	201.4397
Barium, total	ug/L	MW-9	10/16/2023		435.0000	*	201.4397
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
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
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

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

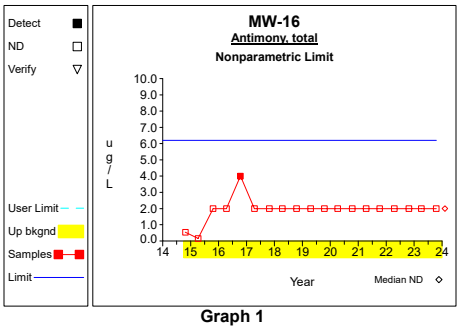
Table 8

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

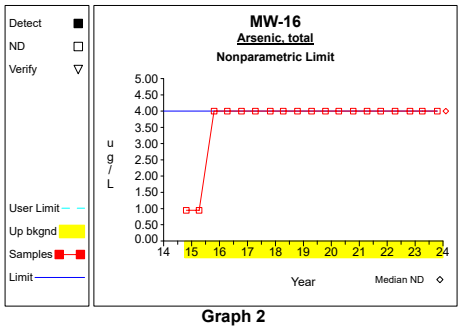
Constituent	Units	Well	Date		Result		Pred. Limit
Nickel, total	ug/L	MW-9	10/21/2008	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	04/13/2009	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	10/14/2009	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	04/20/2010	ND	50.0000		4.3000
Nickel, total	ug/L	MW-9	10/13/2010	ND	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

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

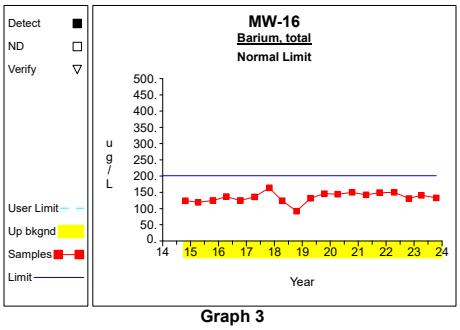
Up vs. Down Prediction Limits



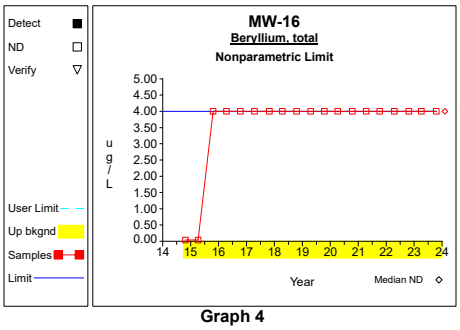
Graph 1



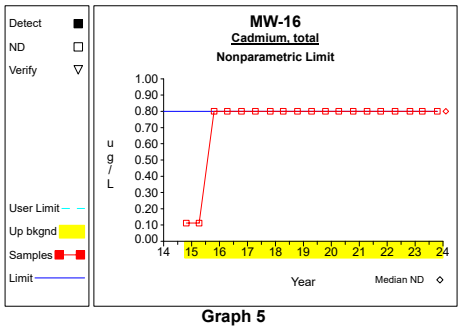
Graph 2



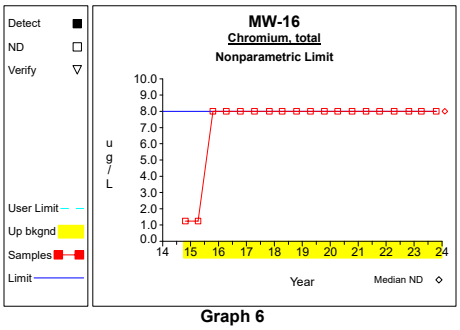
Graph 3



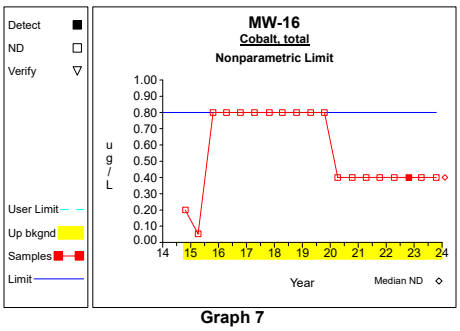
Graph 4



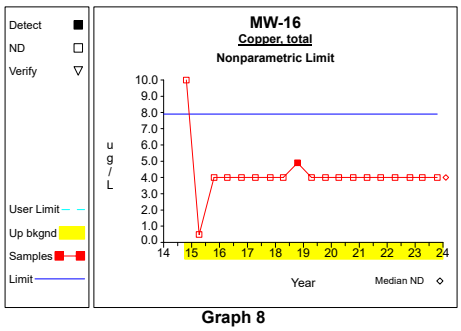
Graph 5



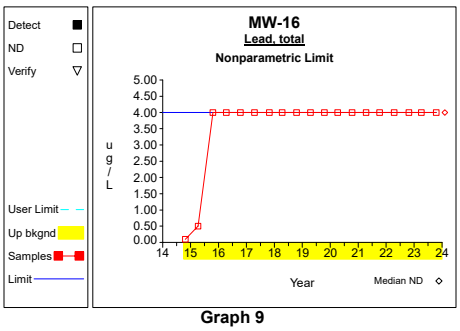
Graph 6



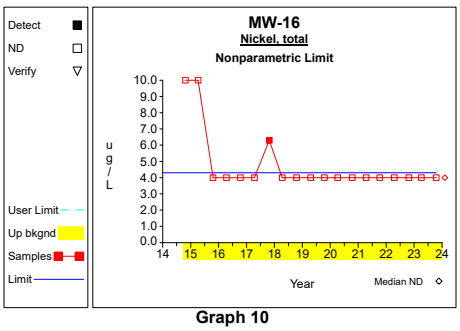
Graph 7



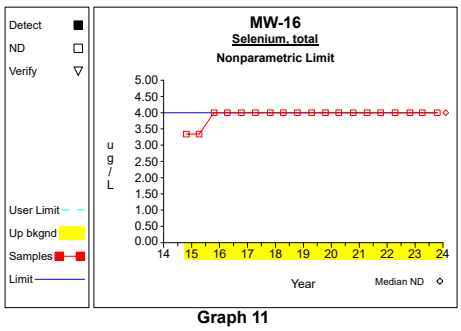
Graph 8



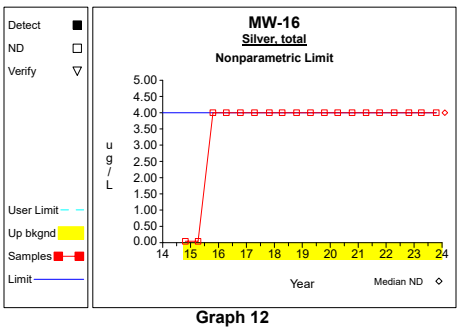
Graph 9



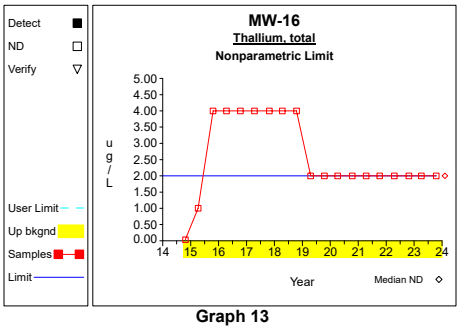
Graph 10



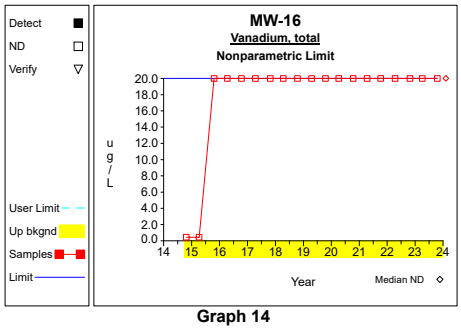
Graph 11



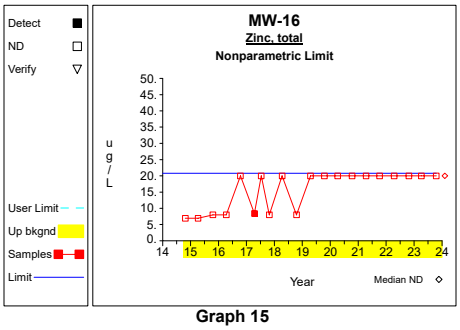
Graph 12



Graph 13



Graph 14



Graph 15

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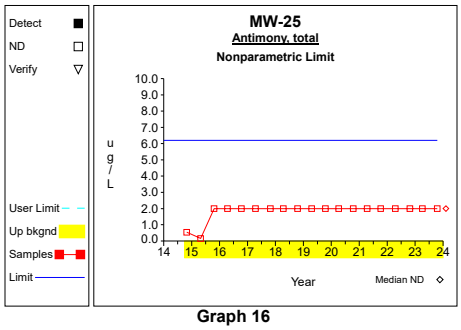
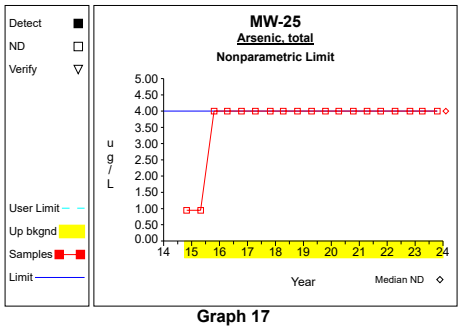
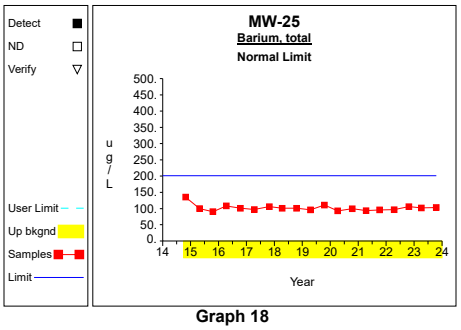
Up vs. Down Prediction Limits



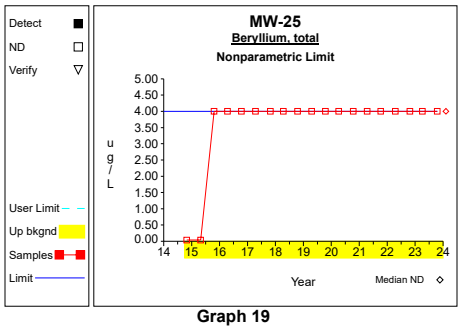
Graph 16



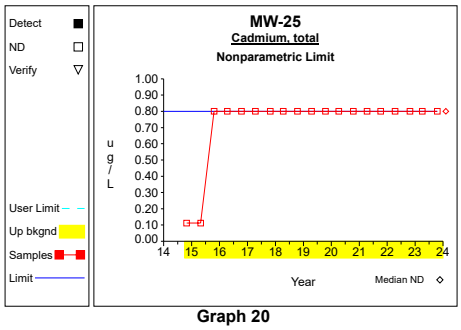
Graph 17



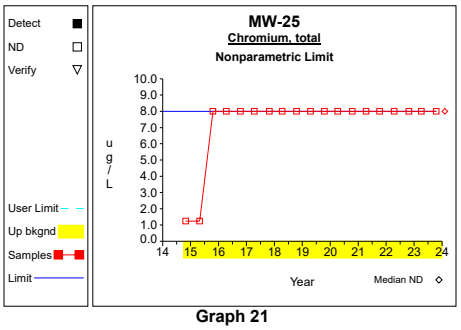
Graph 18



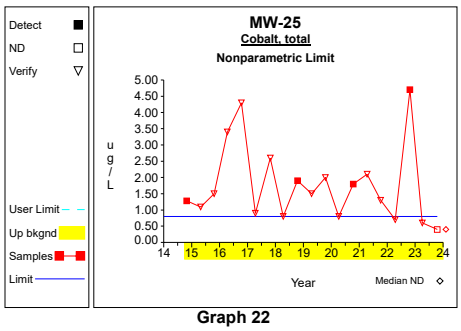
Graph 19



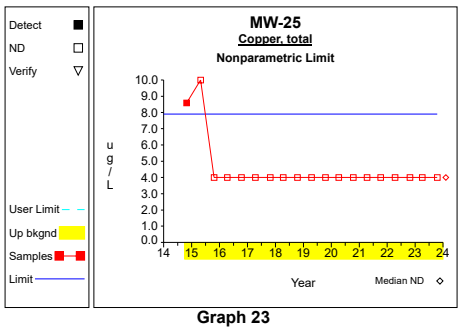
Graph 20



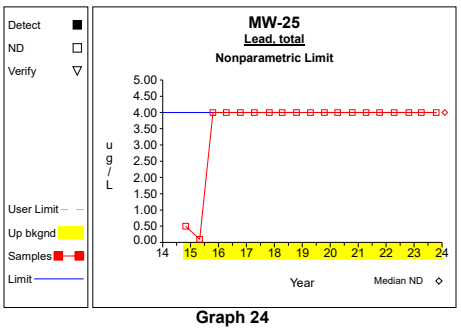
Graph 21



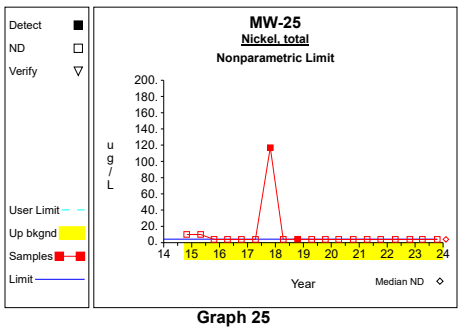
Graph 22



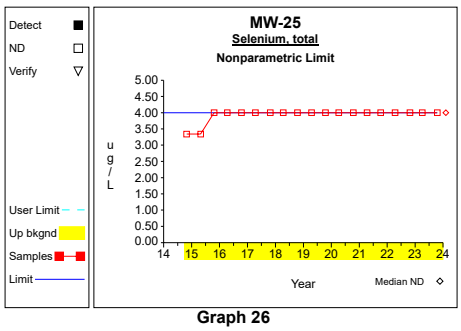
Graph 23



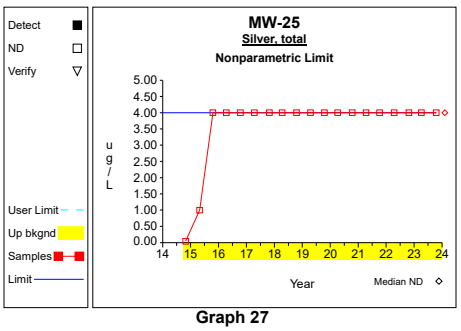
Graph 24



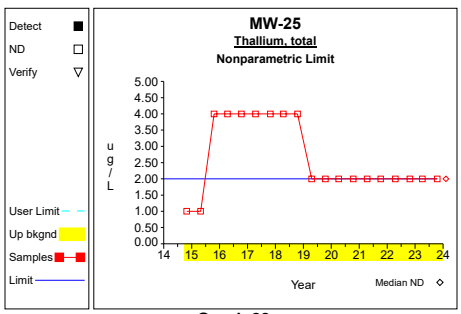
Graph 25



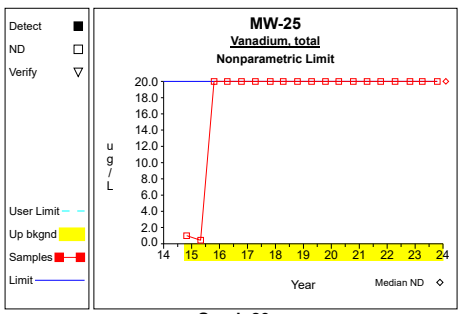
Graph 26



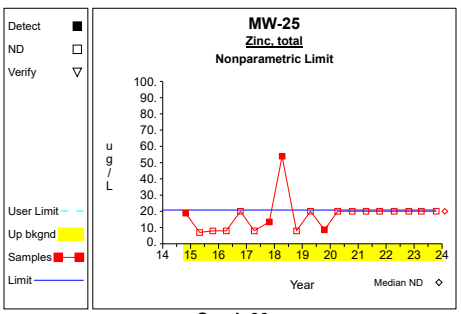
Graph 27



Graph 28



Graph 29



Graph 30

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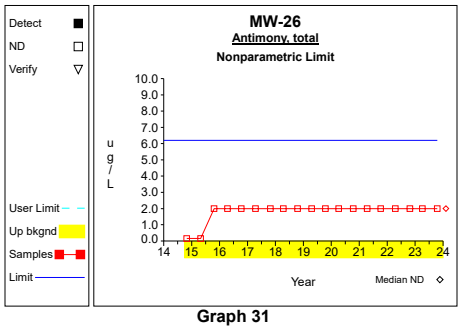
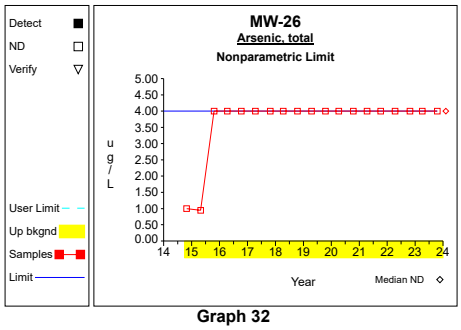
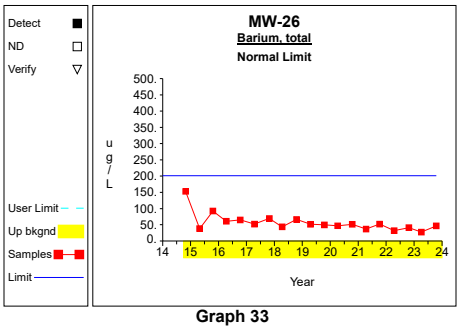
Up vs. Down Prediction Limits



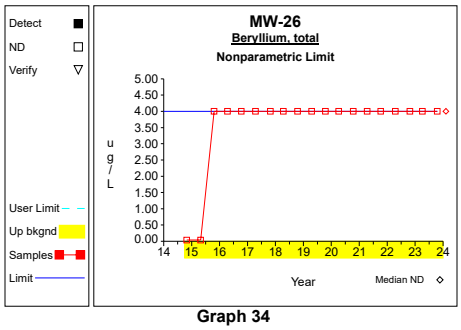
Graph 31



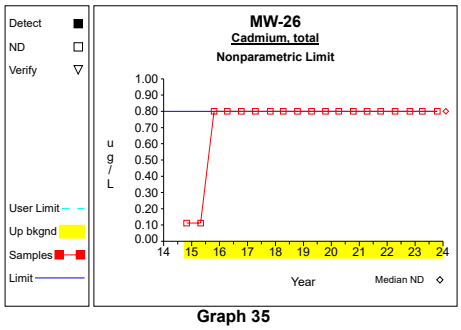
Graph 32



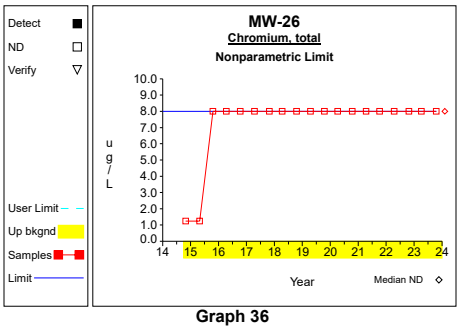
Graph 33



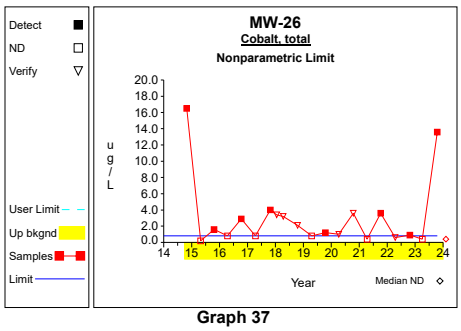
Graph 34



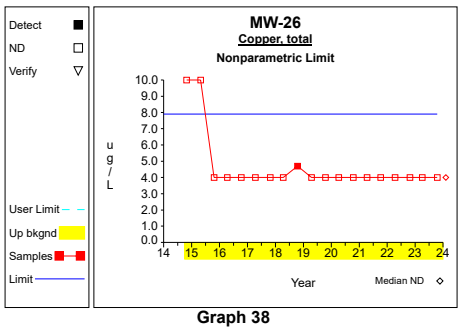
Graph 35



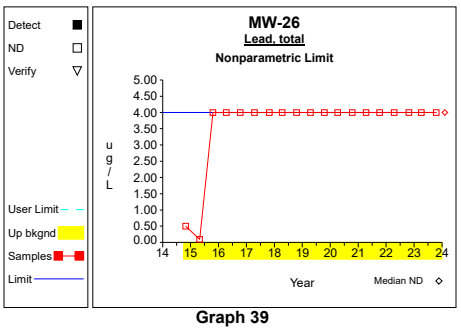
Graph 36



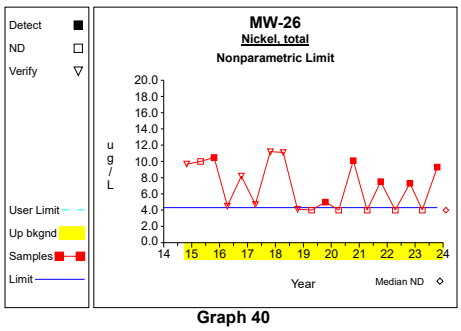
Graph 37



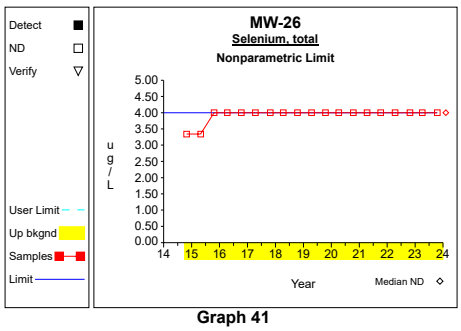
Graph 38



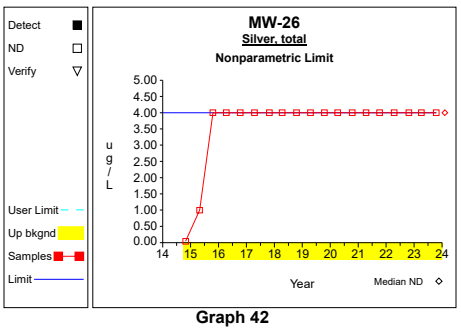
Graph 39



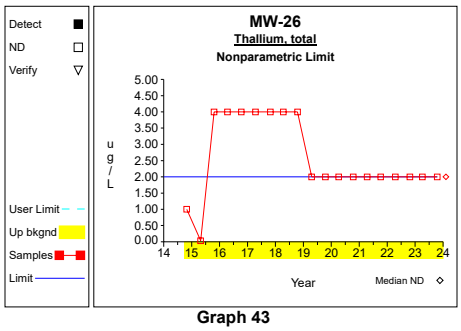
Graph 40



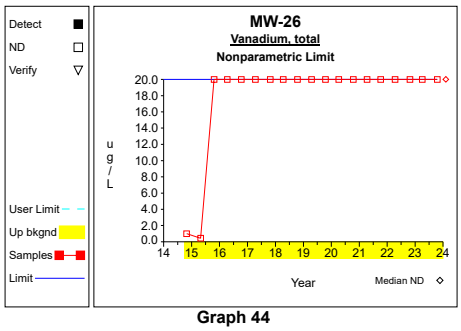
Graph 41



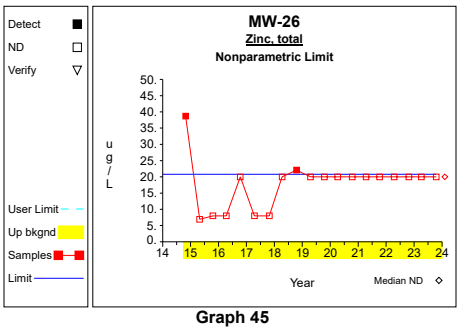
Graph 42



Graph 43



Graph 44



Graph 45

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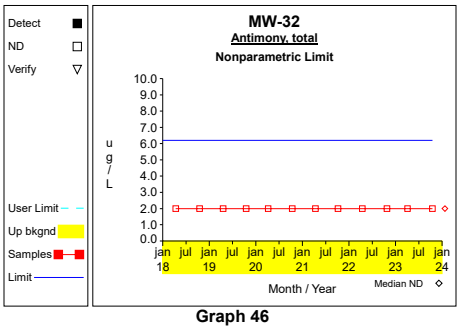
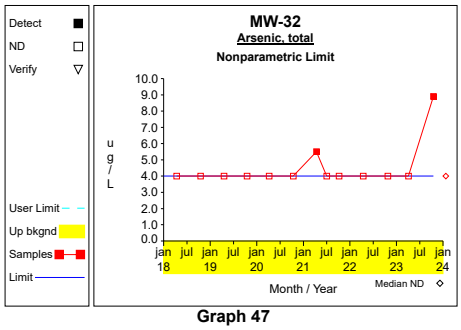
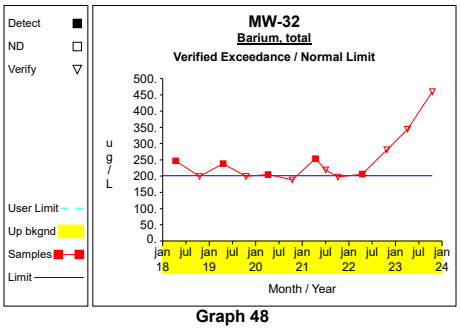
Up vs. Down Prediction Limits



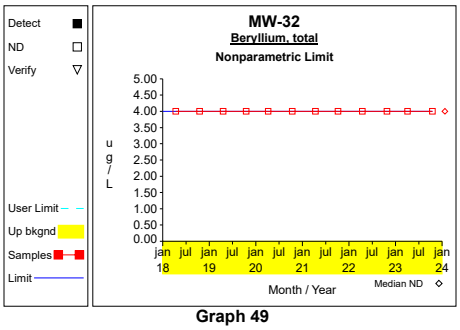
Graph 46



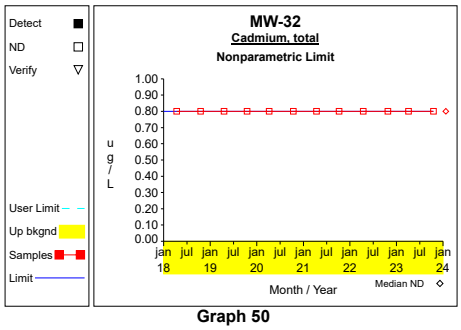
Graph 47



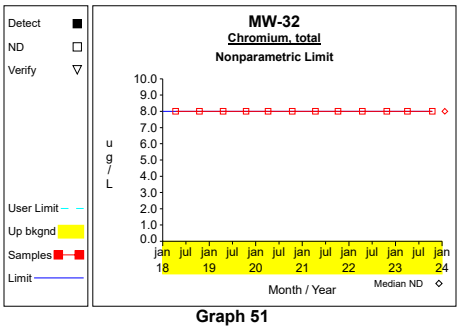
Graph 48



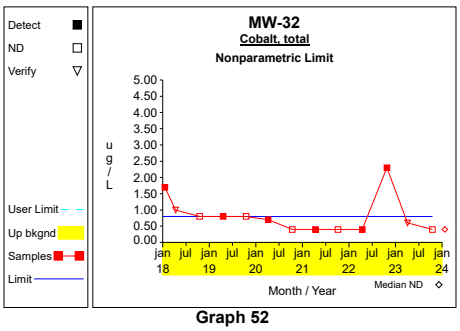
Graph 49



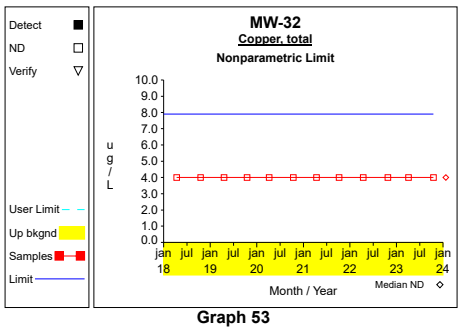
Graph 50



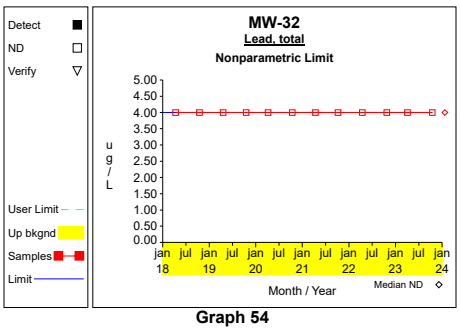
Graph 51



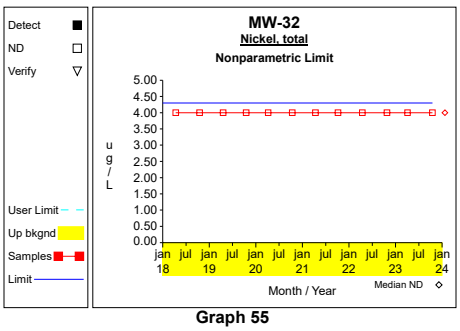
Graph 52



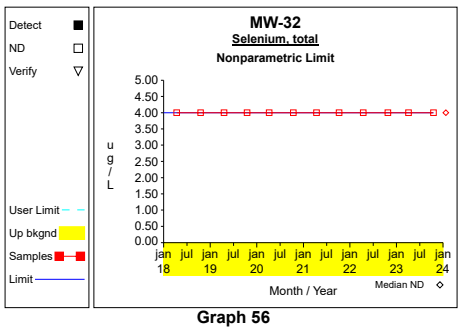
Graph 53



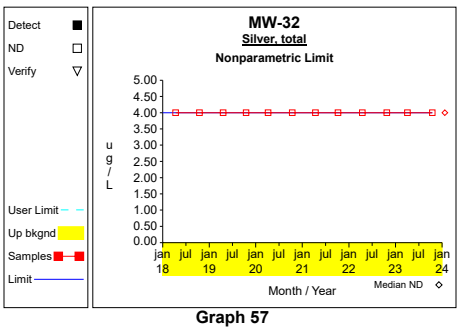
Graph 54



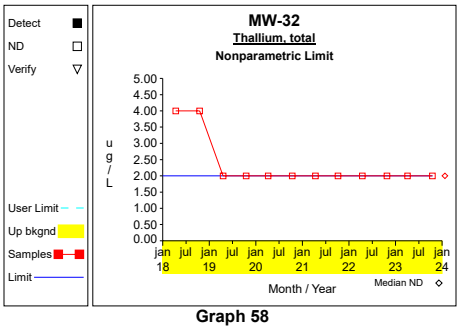
Graph 55



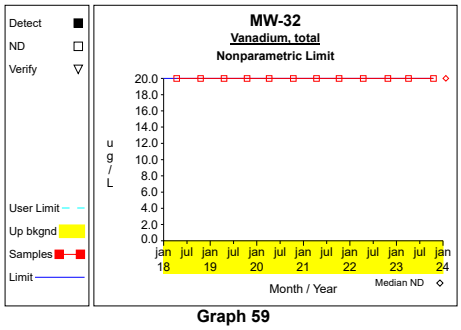
Graph 56



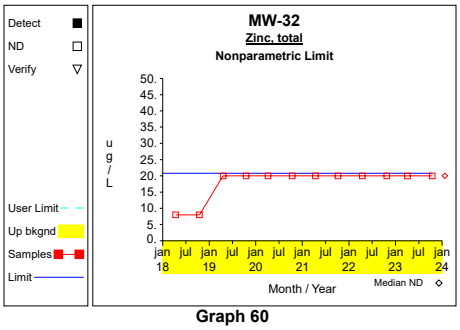
Graph 57



Graph 58



Graph 59



Graph 60

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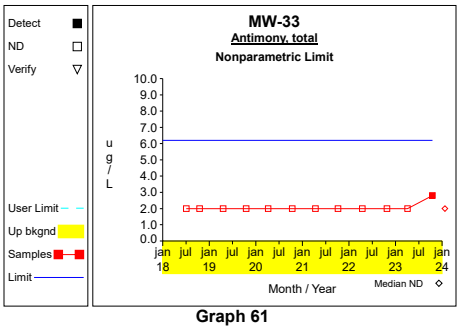
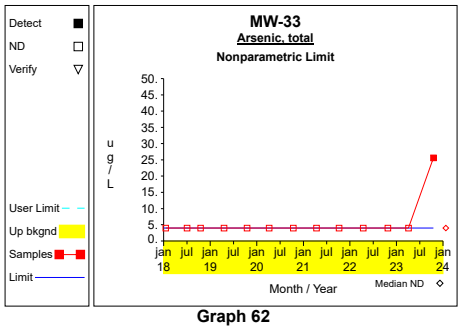
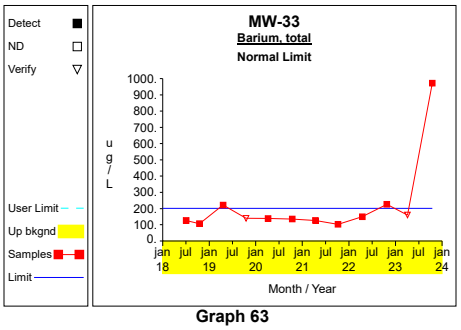
Up vs. Down Prediction Limits



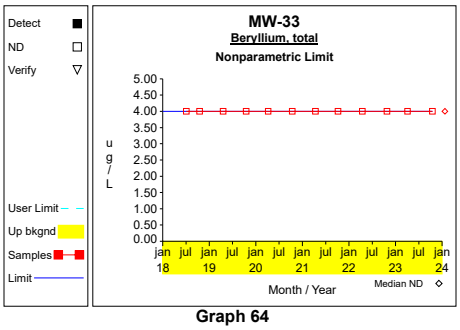
Graph 61



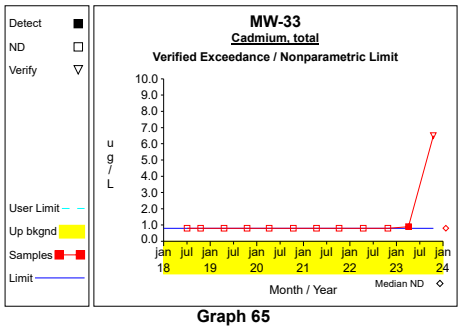
Graph 62



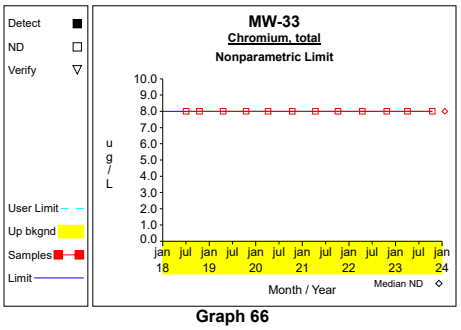
Graph 63



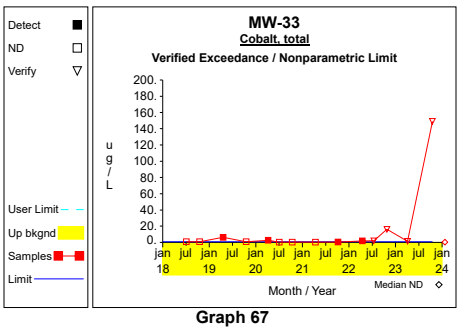
Graph 64



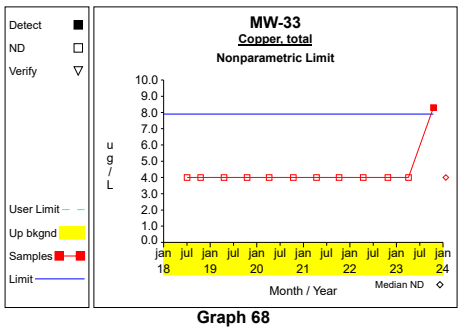
Graph 65



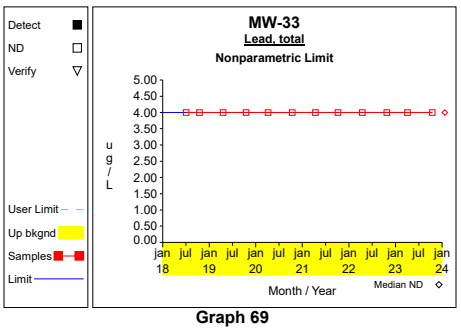
Graph 66



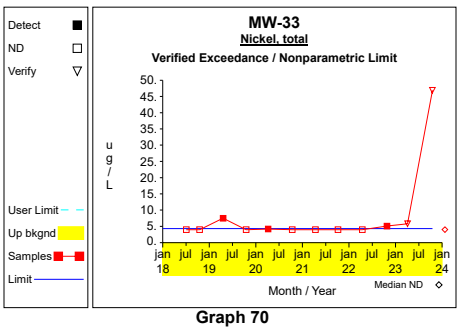
Graph 67



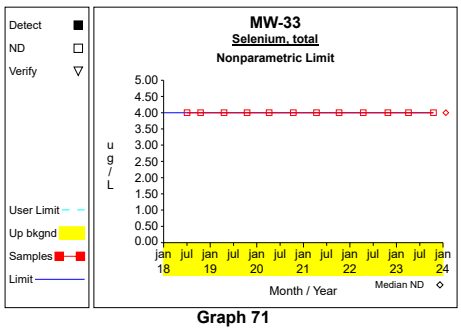
Graph 68



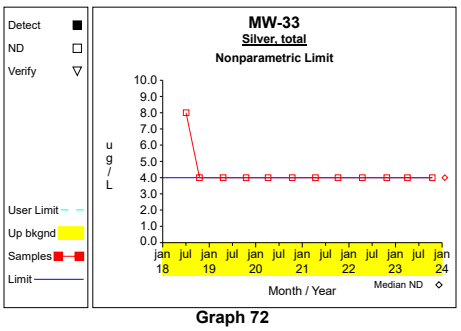
Graph 69



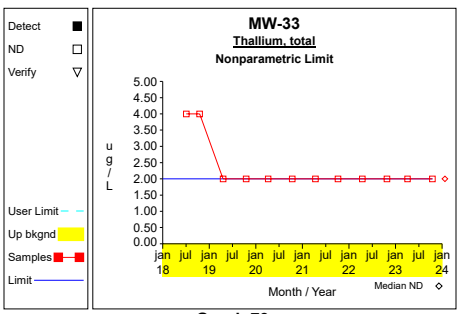
Graph 70



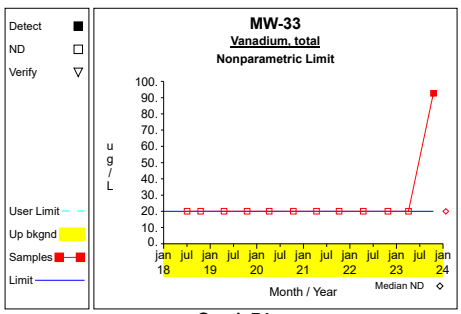
Graph 71



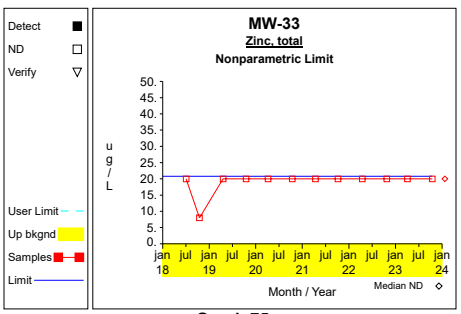
Graph 72



Graph 73



Graph 74



Graph 75

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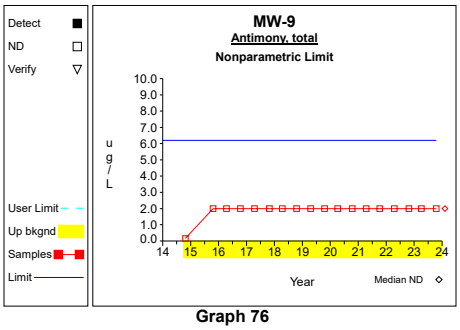
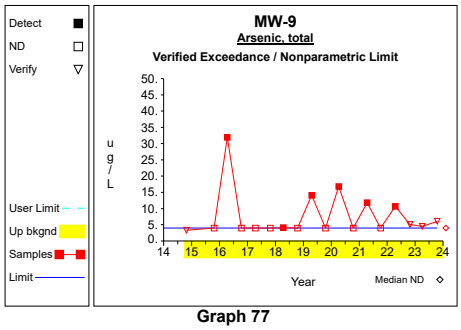
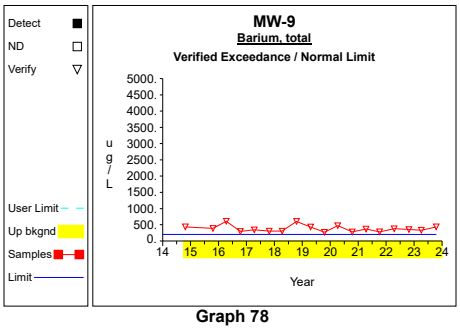
Up vs. Down Prediction Limits



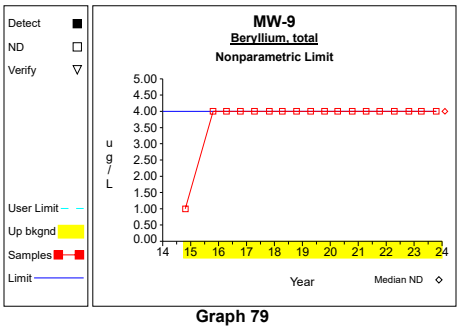
Graph 76



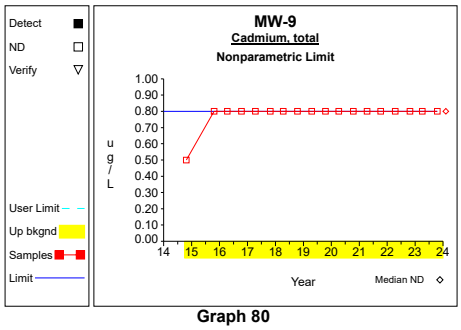
Graph 77



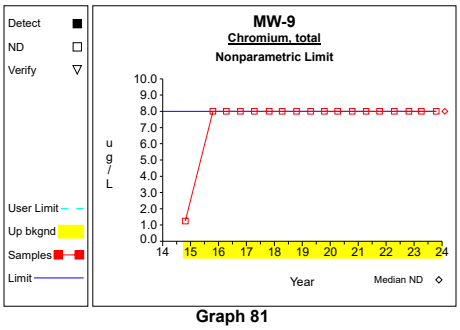
Graph 78



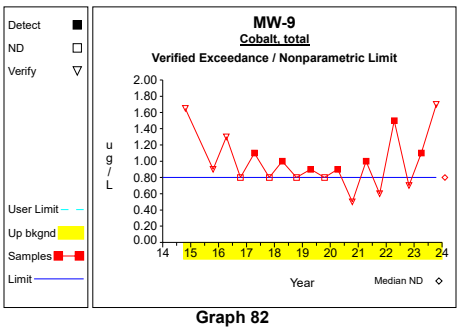
Graph 79



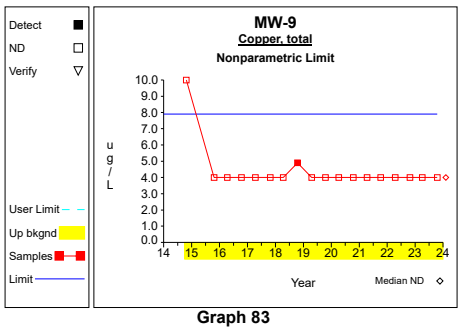
Graph 80



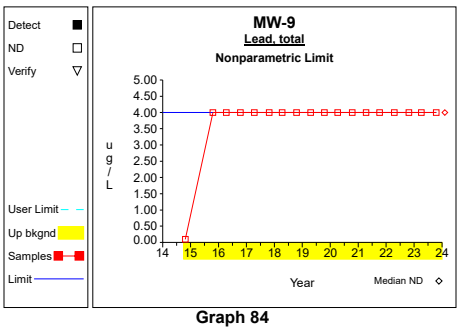
Graph 81



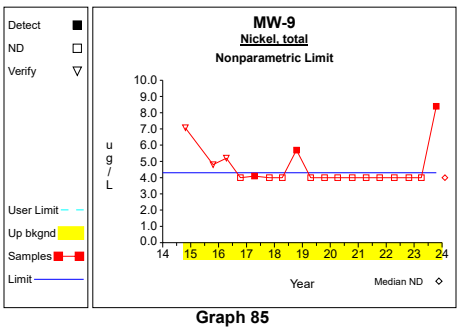
Graph 82



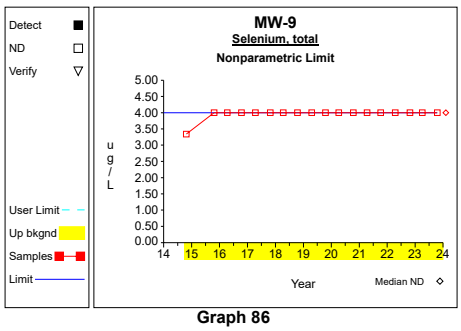
Graph 83



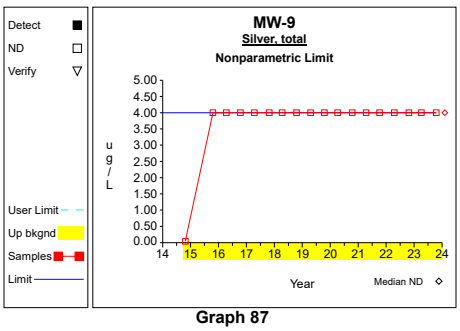
Graph 84



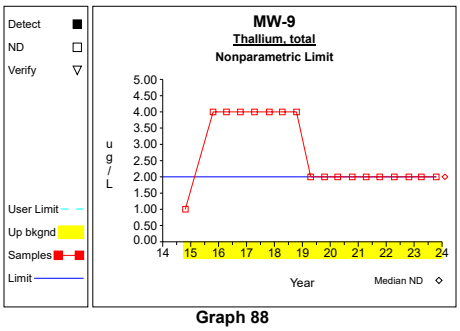
Graph 85



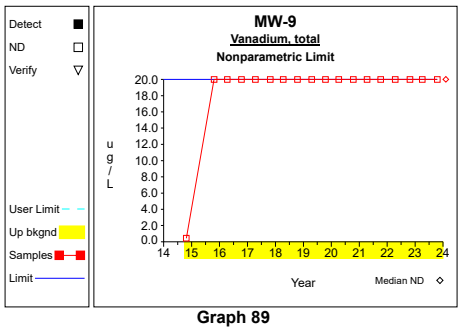
Graph 86



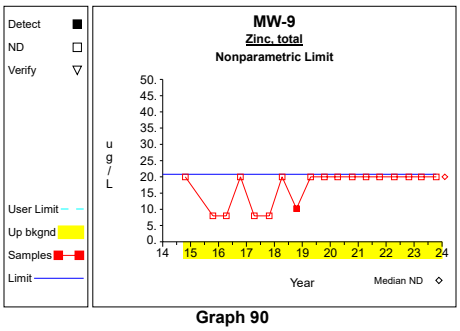
Graph 87



Graph 88



Graph 89

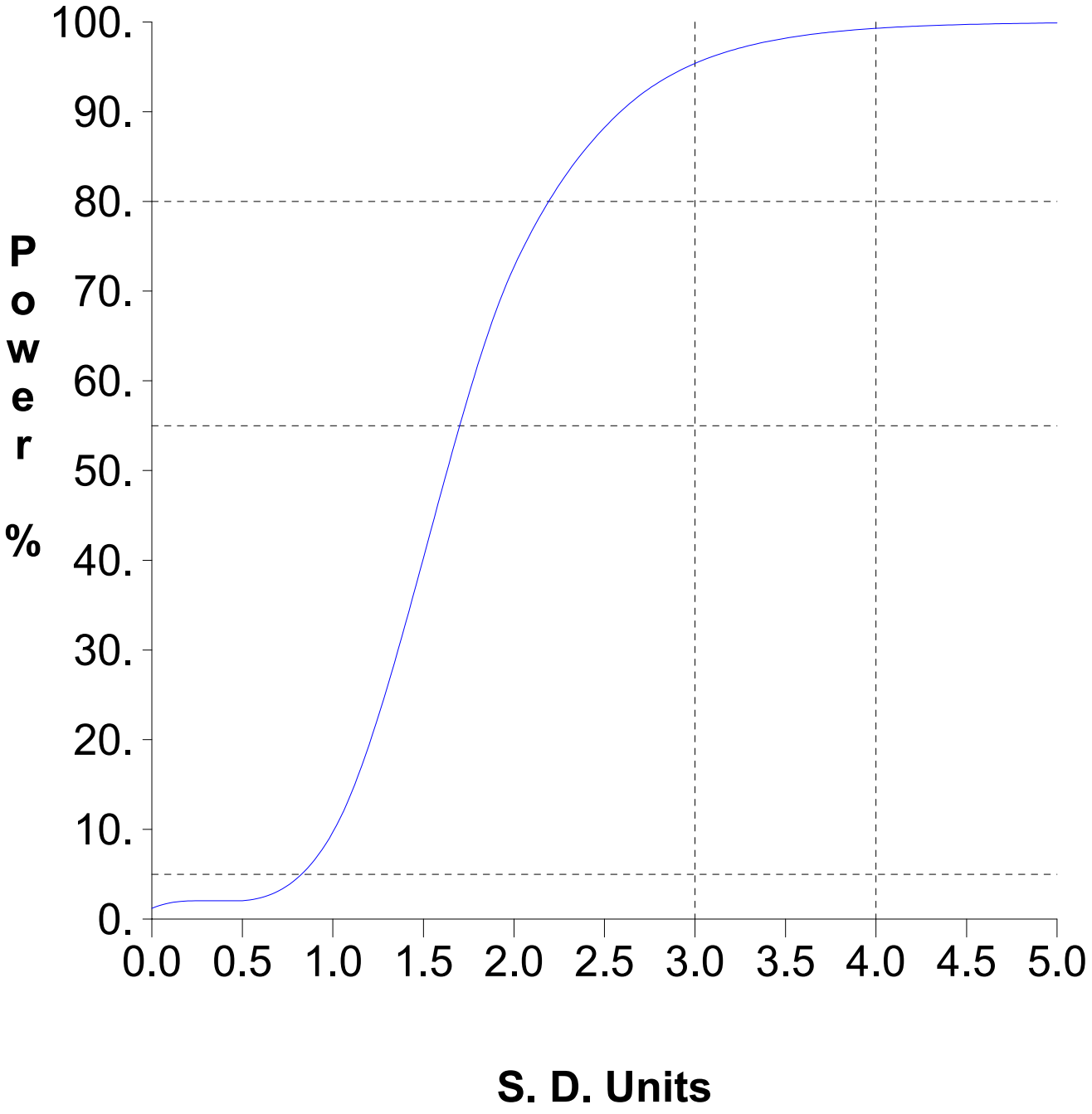


Graph 90

Prepared by: Otter Creek Environmental

False Positive and False Negative Rates for Current

Upgradient vs. Downgradient Monitoring Program



Attachment C

Assessment Statistics

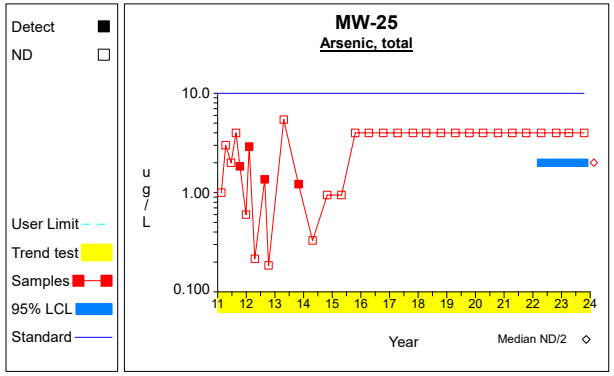
Table 1

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

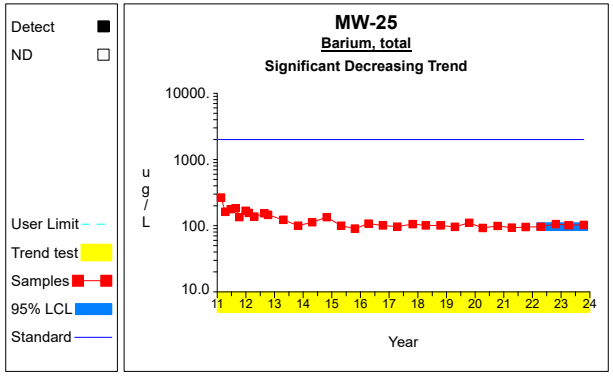
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Arsenic, total	ug/L	MW-25	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW-25	4	101.875	3.966	1.176	97.210	106.540	2000.000	dec
Cadmium, total	ug/L	MW-25	4	0.400	0.000	1.176	0.400	0.400	5.000	
Cobalt, total	ug/L	MW-25	4	1.694	2.005	1.176	0.000	4.053	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	2.000	0.000	1.176	2.000	2.000	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	36.850	8.550	1.176	26.793	46.907	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	3.969	6.422	1.176	0.000	11.523	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	322.750	107.491	1.176	196.310	449.190	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	0.875	0.964	1.176	0.000	2.009	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	2.000	0.000	1.176	2.000	2.000	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	7.900	11.800	1.176	0.000	21.780	10.000	
Barium, total	ug/L	MW-33	4	377.000	398.097	1.176	0.000	845.277	2000.000	
Cadmium, total	ug/L	MW-33	4	2.050	2.976	1.176	0.000	5.551	5.000	
Cobalt, total	ug/L	MW-33	4	42.125	71.573	1.176	0.000	126.316	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	14.950	21.364	1.176	0.000	40.080	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	6.600	2.812	1.176	3.292	9.908	10.000	
Barium, total	ug/L	MW-9	4	375.250	43.897	1.176	323.615	426.885	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	1.250	0.443	1.176	0.728	1.772	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	3.600	3.200	1.176	0.000	7.364	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

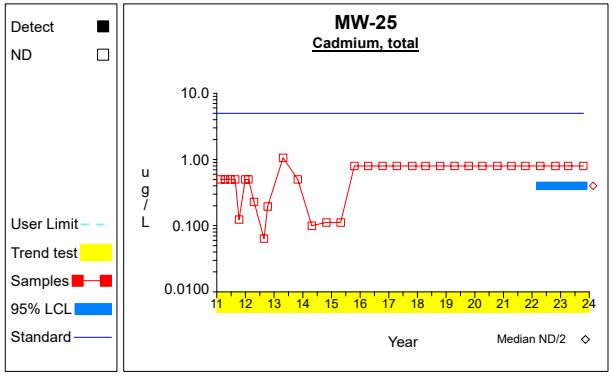
Confidence Limits (Assessment)



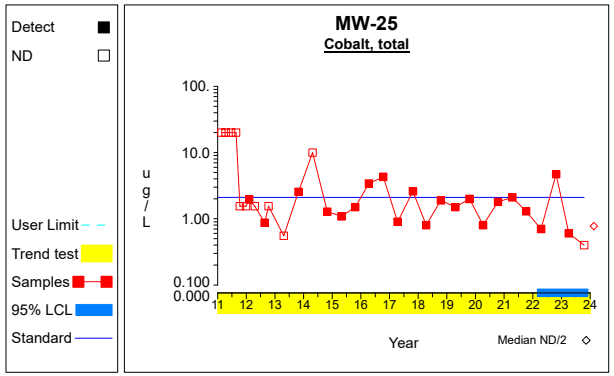
Graph 1



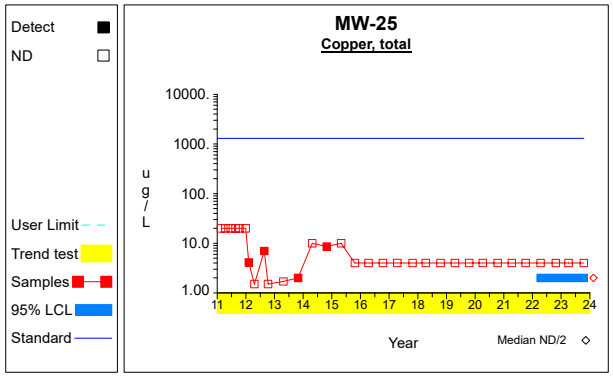
Graph 2



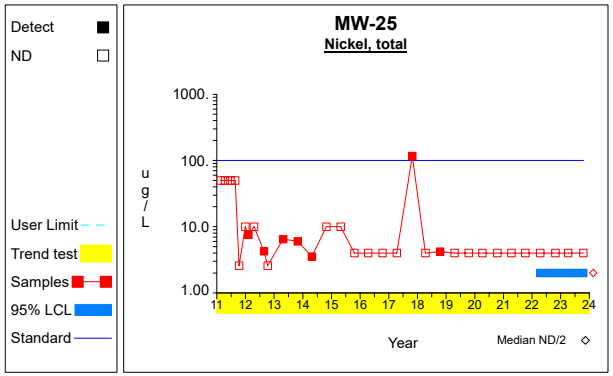
Graph 3



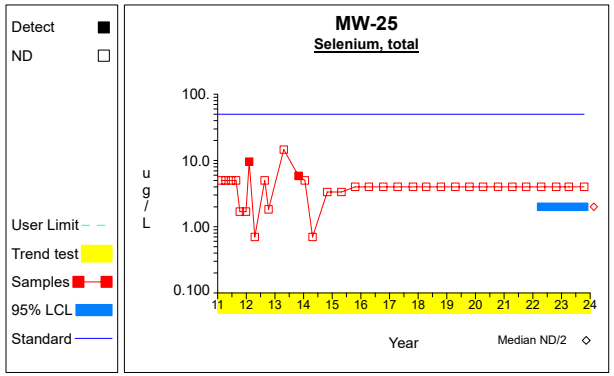
Graph 4



Graph 5

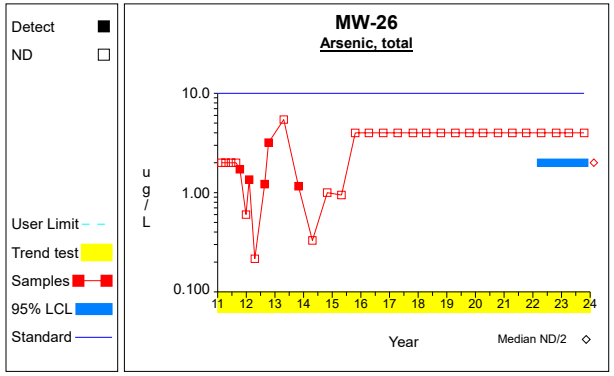


Graph 6

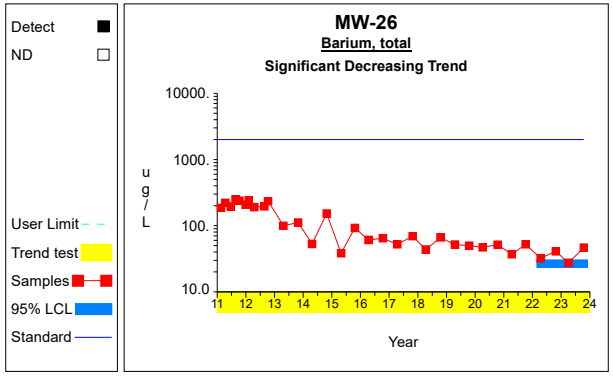


Graph 7

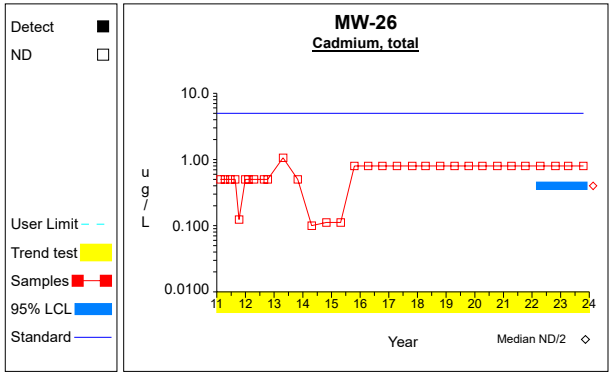
Confidence Limits (Assessment)



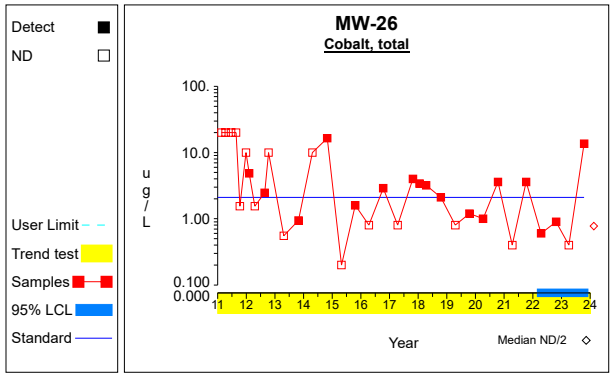
Graph 8



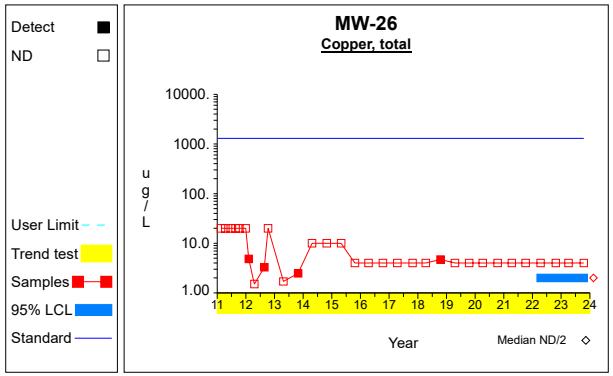
Graph 9



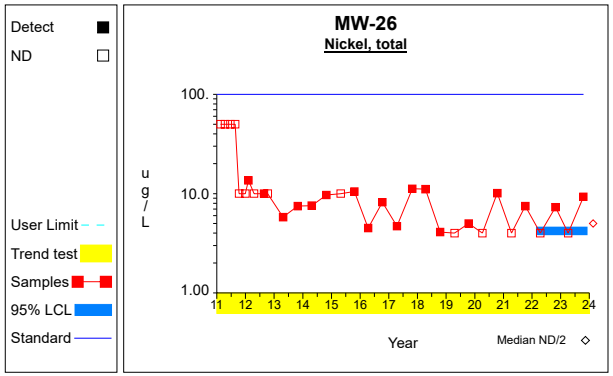
Graph 10



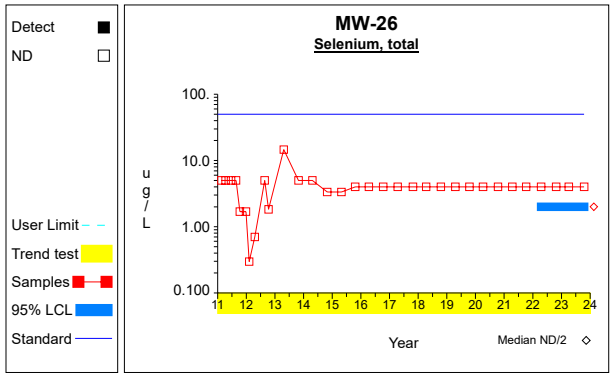
Graph 11



Graph 12

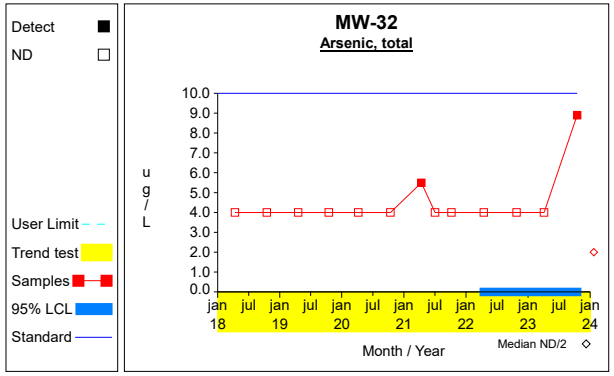


Graph 13

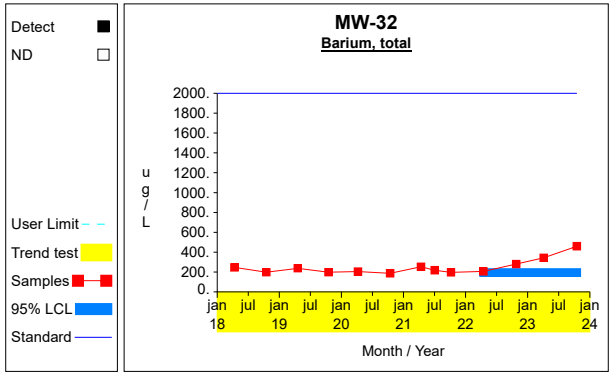


Graph 14

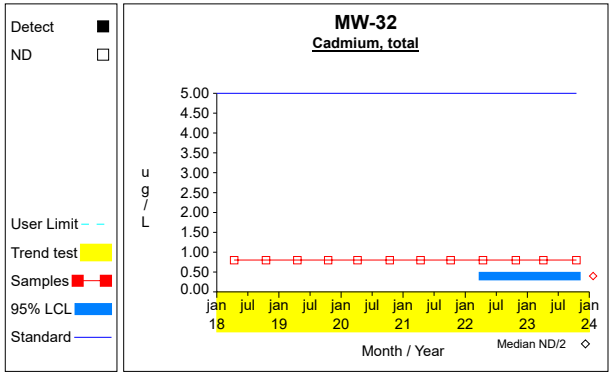
Confidence Limits (Assessment)



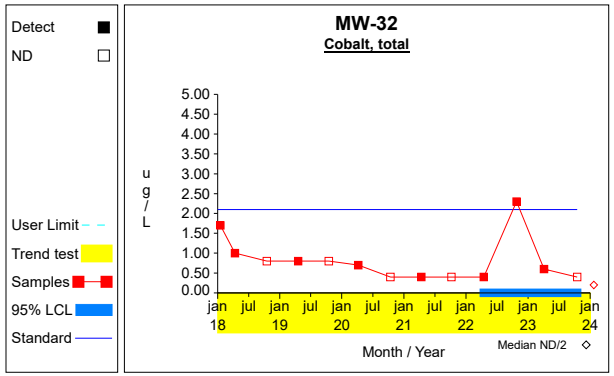
Graph 15



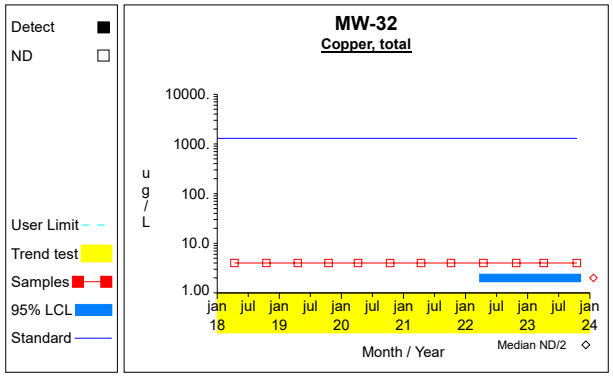
Graph 16



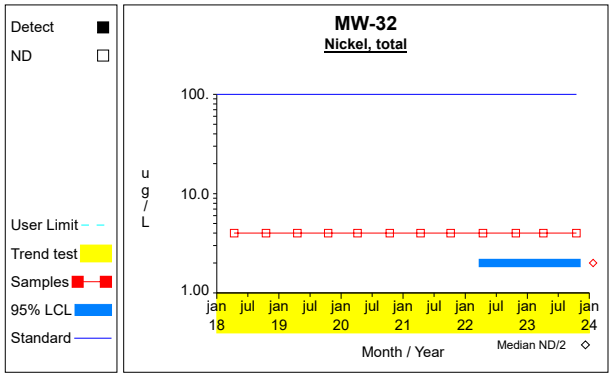
Graph 17



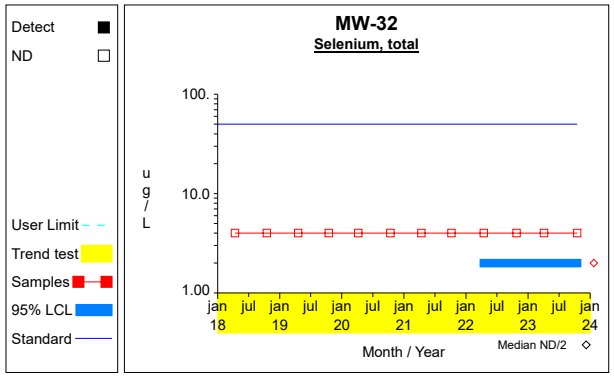
Graph 18



Graph 19

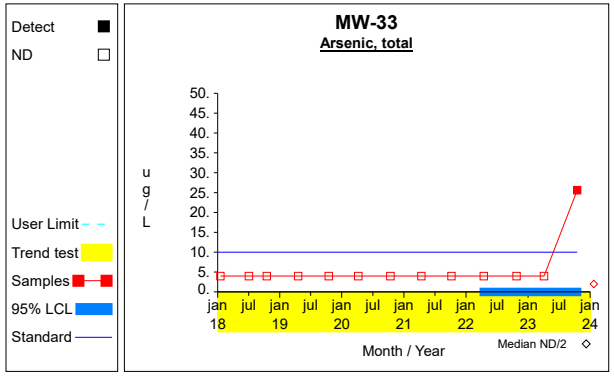


Graph 20

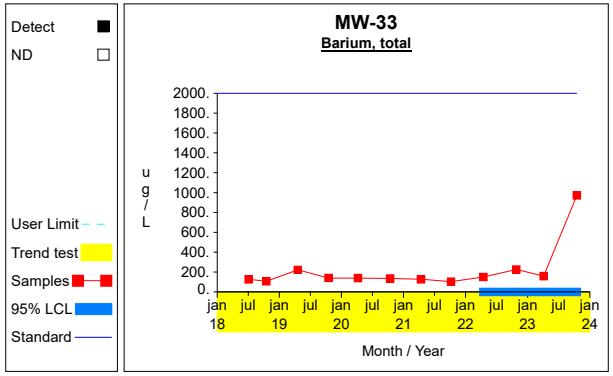


Graph 21

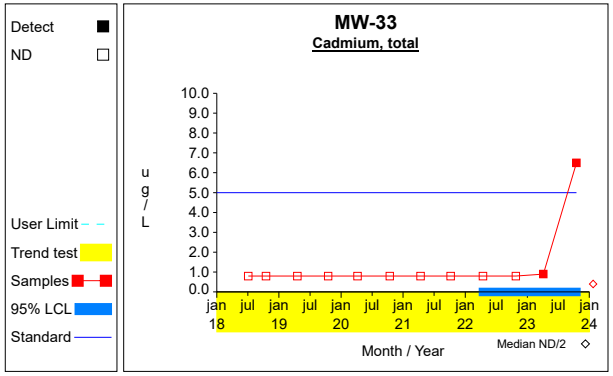
Confidence Limits (Assessment)



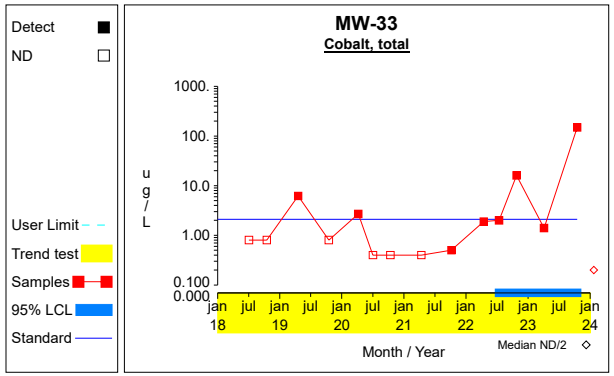
Graph 22



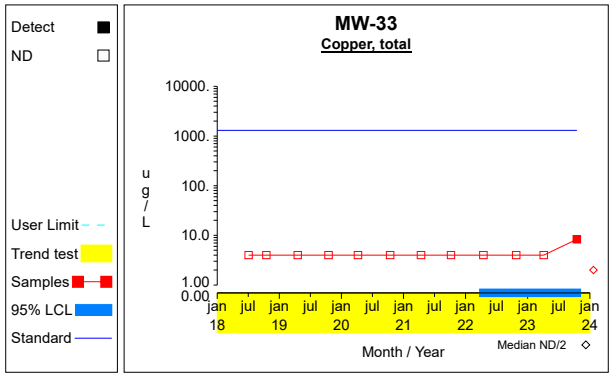
Graph 23



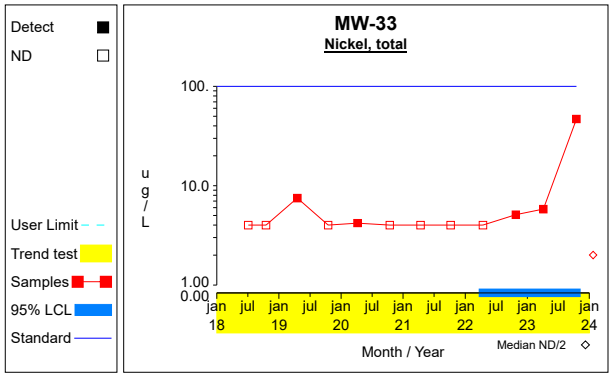
Graph 24



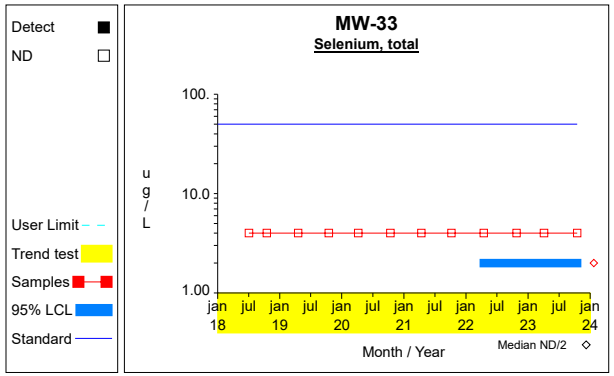
Graph 25



Graph 26

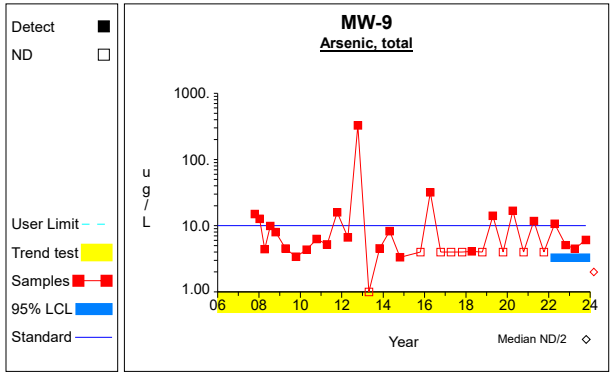


Graph 27

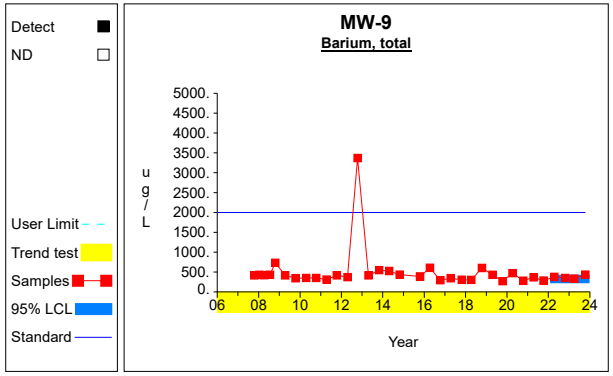


Graph 28

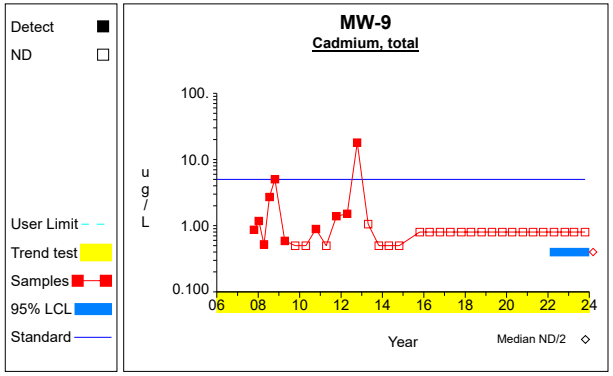
Confidence Limits (Assessment)



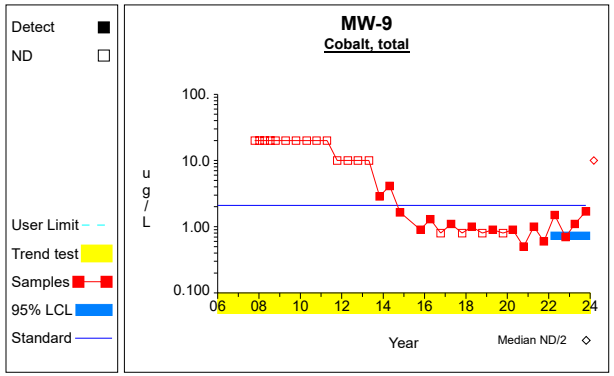
Graph 29



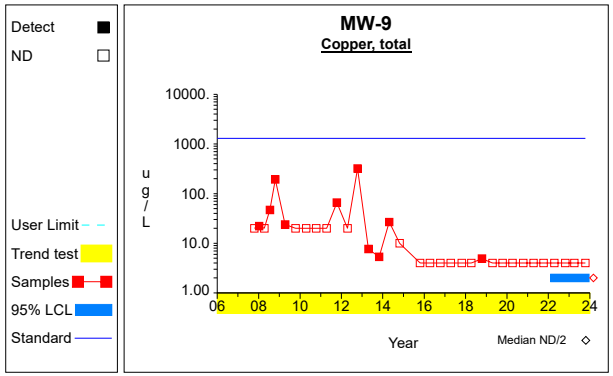
Graph 30



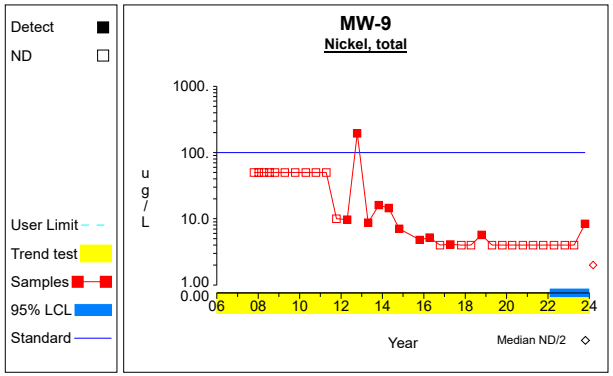
Graph 31



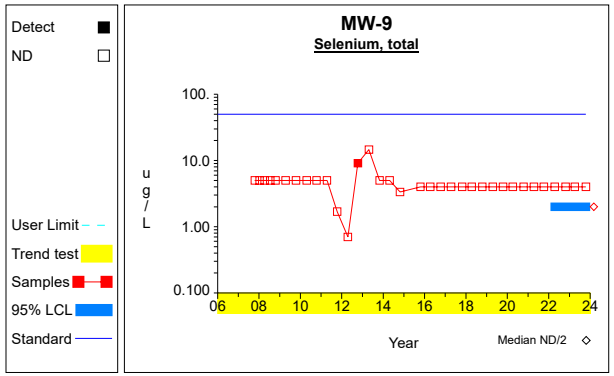
Graph 32



Graph 33



Graph 34



Graph 35

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
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
Chlorobenzene	MW-5	10/17/2014		1.22	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	4/29/2015		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
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
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
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

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Vinyl chloride	MW-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

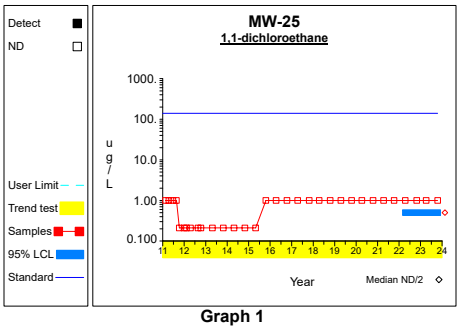
Table 1

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

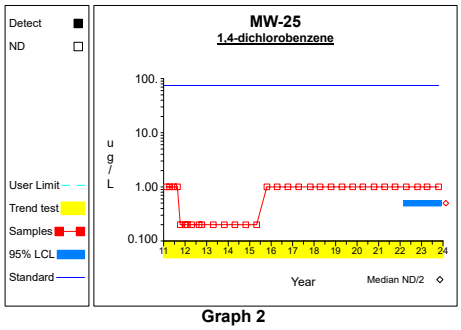
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
1,1-dichloroethane	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	75.000		
2-butanone	ug/L	MW-25	4	2.500	0.000	1.176	2.500	2.500	4000.000		
Acetone	ug/L	MW-25	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-25	4	6.000	6.000	1.176	0.000	13.058	6.000		
Carbon disulfide	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	700.000		
Chlorobenzene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	100.000		
Chloroethane	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	70.000		
Ethylbenzene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	700.000		
Toluene	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	1000.000		
Vinyl chloride	ug/L	MW-25	4	0.500	0.000	1.176	0.500	0.500	2.000		
Xylenes, total	ug/L	MW-25	4	1.000	0.000	1.176	1.000	1.000	10000.000		
1,1-dichloroethane	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	75.000		
2-butanone	ug/L	MW-26	4	2.500	0.000	1.176	2.500	2.500	4000.000		
Acetone	ug/L	MW-26	4	10.525	11.050	1.176	0.000	23.523	6300.000		
Benzene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-26	4	6.750	7.500	1.176	0.000	15.572	6.000		
Carbon disulfide	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	700.000		
Chlorobenzene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	100.000		
Chloroethane	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	70.000		
Ethylbenzene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	700.000		
Toluene	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	1000.000		
Vinyl chloride	ug/L	MW-26	4	0.500	0.000	1.176	0.500	0.500	2.000		
Xylenes, total	ug/L	MW-26	4	1.000	0.000	1.176	1.000	1.000	10000.000		
1,1-dichloroethane	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	75.000		
2-butanone	ug/L	MW-33	4	2.500	0.000	1.176	2.500	2.500	4000.000		
Acetone	ug/L	MW-33	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-33	3								*
Carbon disulfide	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	700.000		
Chlorobenzene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	100.000		
Chloroethane	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	70.000		
Ethylbenzene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	700.000		
Toluene	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	1000.000		
Vinyl chloride	ug/L	MW-33	4	0.500	0.000	1.176	0.500	0.500	2.000		
Xylenes, total	ug/L	MW-33	4	1.000	0.000	1.176	1.000	1.000	10000.000		
1,1-dichloroethane	ug/L	MW-5	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-5	4	0.625	0.250	1.176	0.331	0.919	75.000		
2-butanone	ug/L	MW-5	4	8.975	12.950	1.176	0.000	24.208	4000.000		
Acetone	ug/L	MW-5	4	191.500	373.000	1.176	0.000	630.256	6300.000		
Benzene	ug/L	MW-5	4	5.600	0.860	1.176	4.588	6.612	5.000	inc	
Bis(2-ethylhexyl) phthalate	ug/L	MW-5	4	3.000	0.000	1.176	3.000	3.000	6.000		
Carbon disulfide	ug/L	MW-5	4	0.975	0.950	1.176	0.000	2.092	700.000		
Chlorobenzene	ug/L	MW-5	4	1.175	0.222	1.176	0.914	1.436	100.000		
Chloroethane	ug/L	MW-5	4	4.150	1.025	1.176	2.945	5.355	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-5	4	1.675	0.150	1.176	1.499	1.851	70.000		
Ethylbenzene	ug/L	MW-5	4	3.900	5.433	1.176	0.000	10.291	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		
Xylenes, total	ug/L	MW-5	4	2.425	2.850	1.176	0.000	5.777	10000.000		
1,1-dichloroethane	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	75.000		
2-butanone	ug/L	MW-9	4	2.500	0.000	1.176	2.500	2.500	4000.000		
Acetone	ug/L	MW-9	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-9	4	0.250	0.000	1.176	0.250	0.250	5.000		
Bis(2-ethylhexyl) phthalate	ug/L	MW-9	4	3.750	1.500	1.176	1.986	5.514	6.000		
Carbon disulfide	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	700.000		
Chlorobenzene	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	100.000		
Chloroethane	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	2800.000		
Cis-1,2-dichloroethylene	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	70.000		
Ethylbenzene	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	700.000		
Toluene	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	1000.000		
Vinyl chloride	ug/L	MW-9	4	0.500	0.000	1.176	0.500	0.500	2.000		
Xylenes, total	ug/L	MW-9	4	1.000	0.000	1.176	1.000	1.000	10000.000		

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

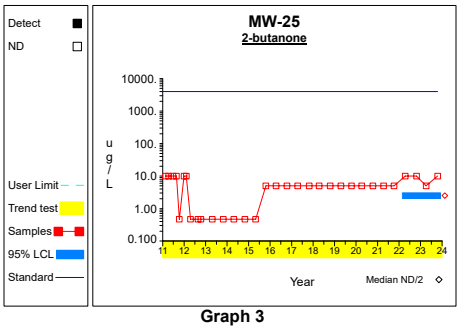
Confidence Limits (Assessment)



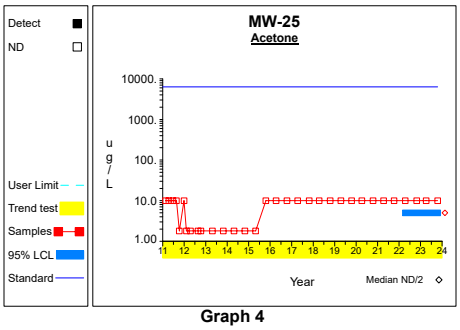
Graph 1



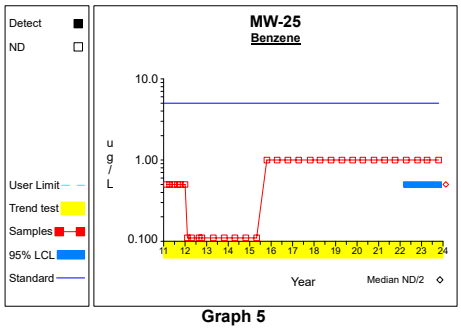
Graph 2



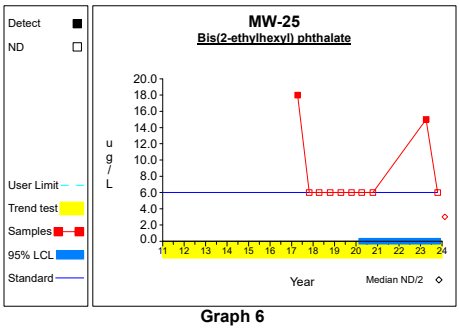
Graph 3



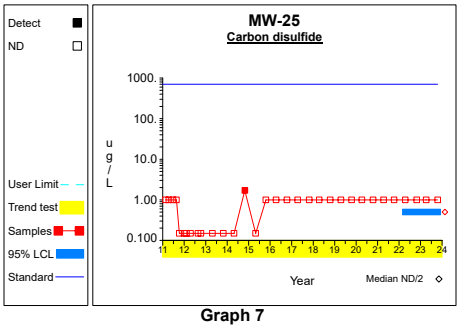
Graph 4



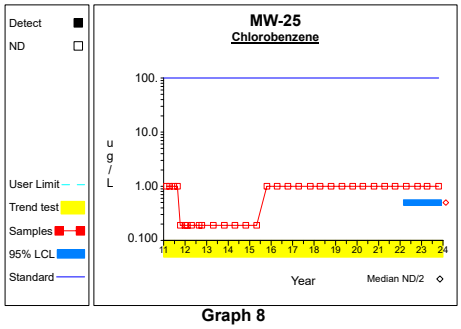
Graph 5



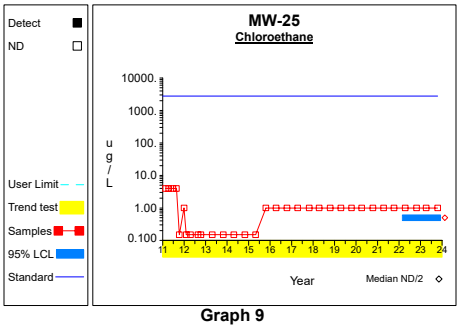
Graph 6



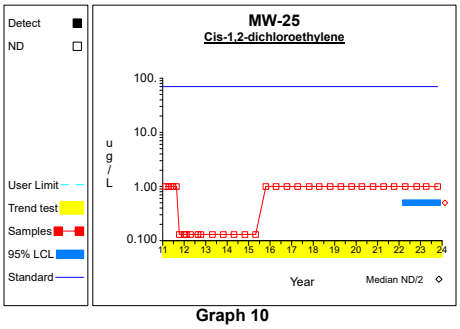
Graph 7



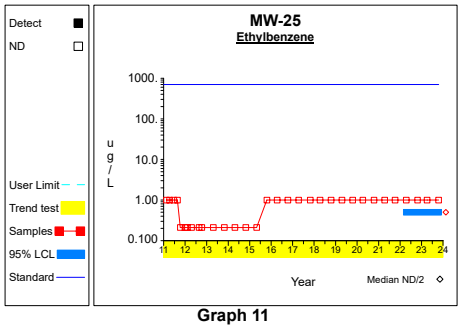
Graph 8



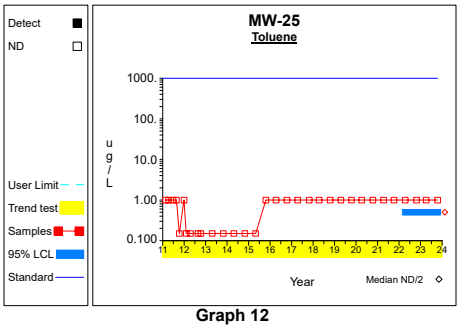
Graph 9



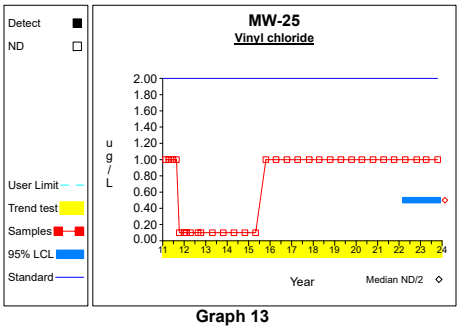
Graph 10



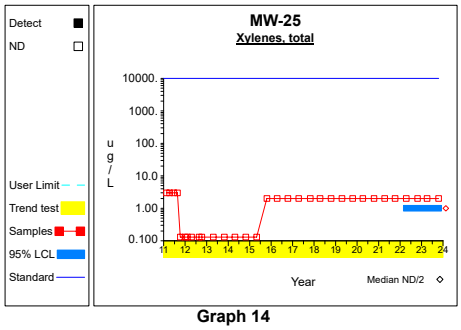
Graph 11



Graph 12

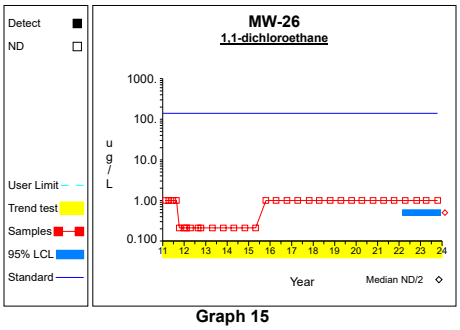


Graph 13

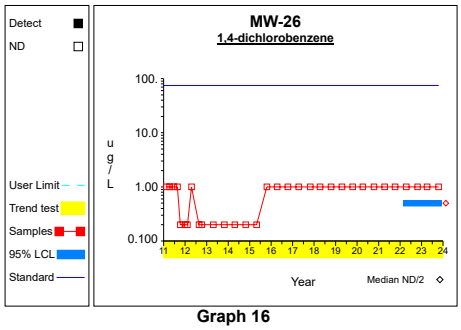


Graph 14

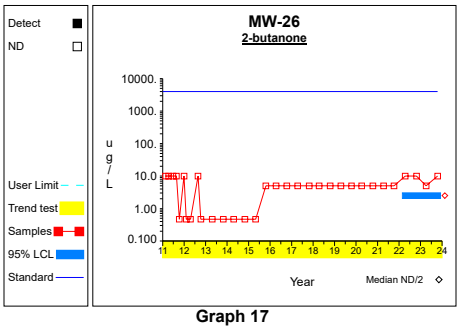
Confidence Limits (Assessment)



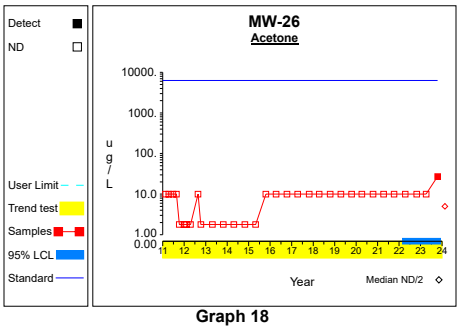
Graph 15



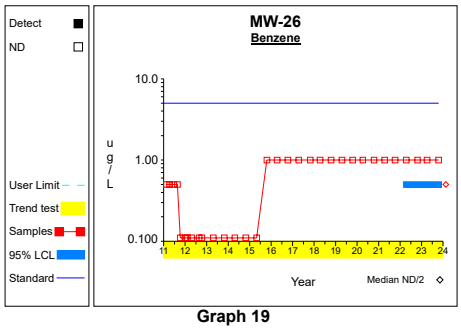
Graph 16



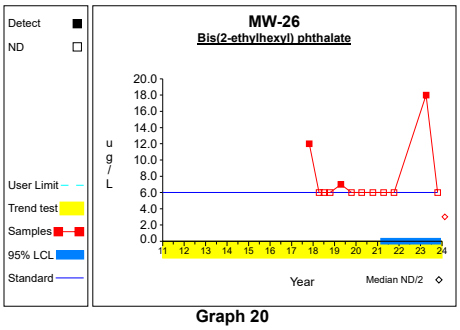
Graph 17



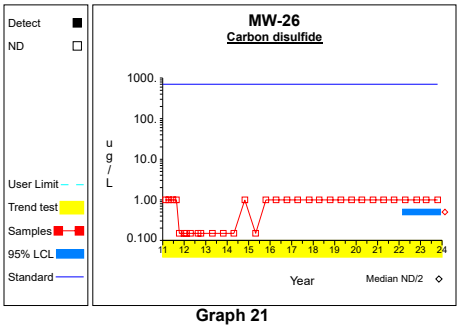
Graph 18



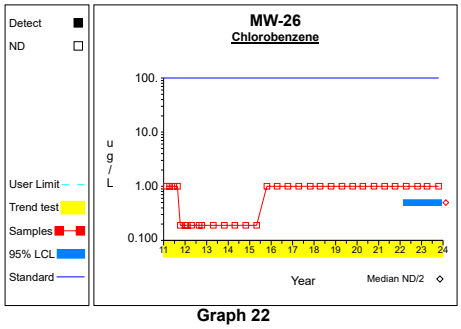
Graph 19



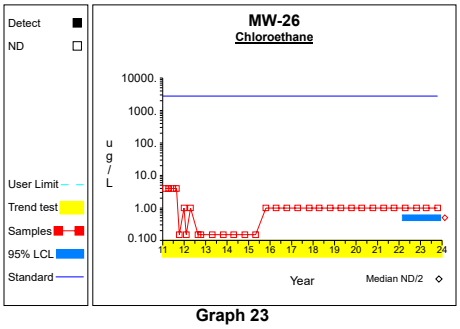
Graph 20



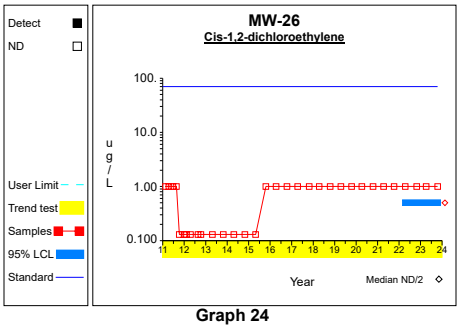
Graph 21



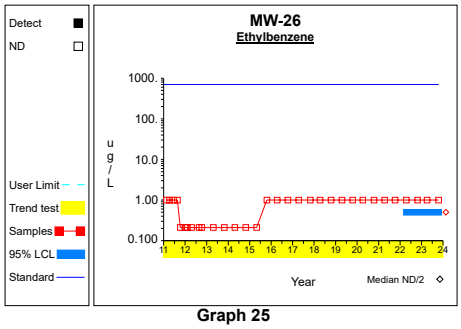
Graph 22



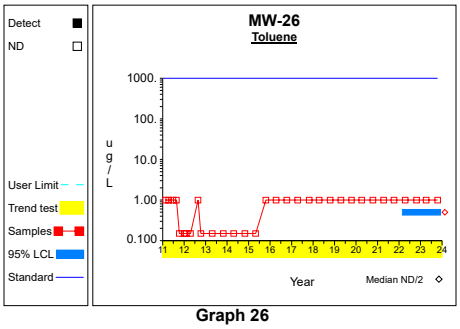
Graph 23



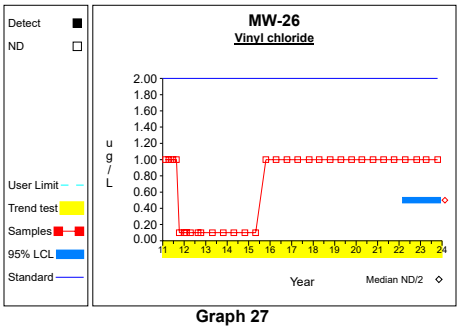
Graph 24



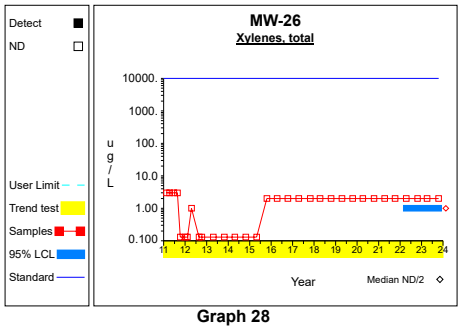
Graph 25



Graph 26



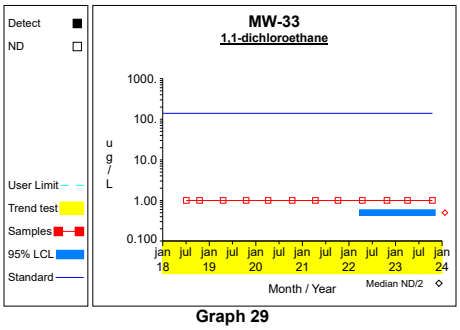
Graph 27



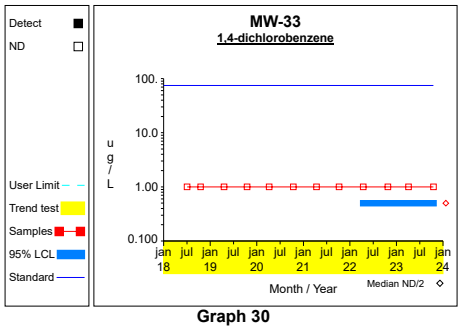
Graph 28

Prepared by: Otter Creek Environmental

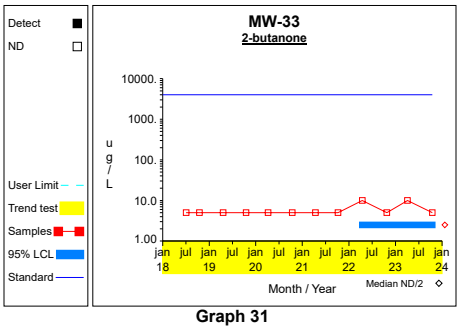
Confidence Limits (Assessment)



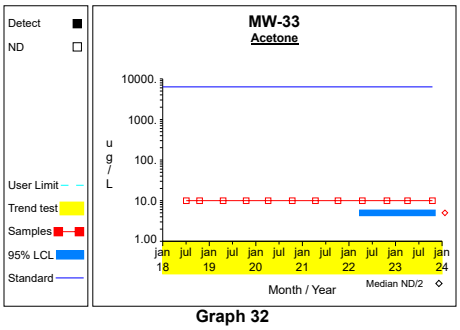
Graph 29



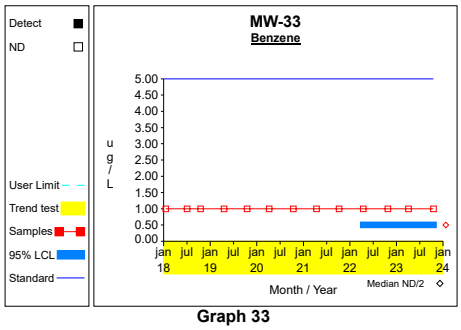
Graph 30



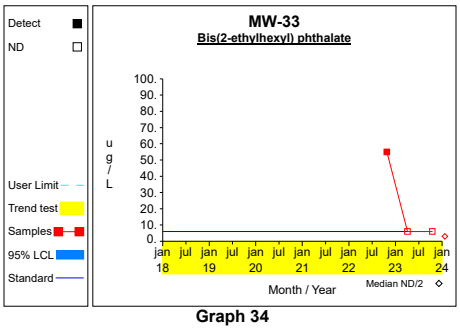
Graph 31



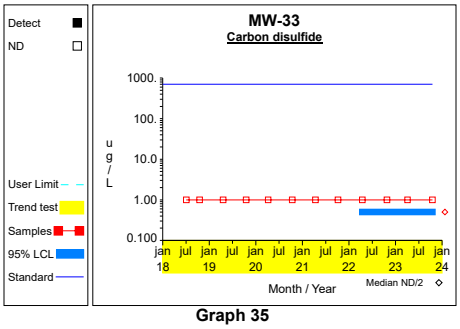
Graph 32



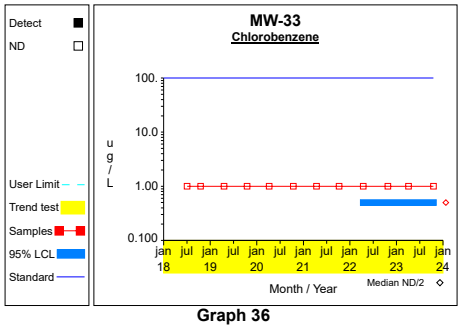
Graph 33



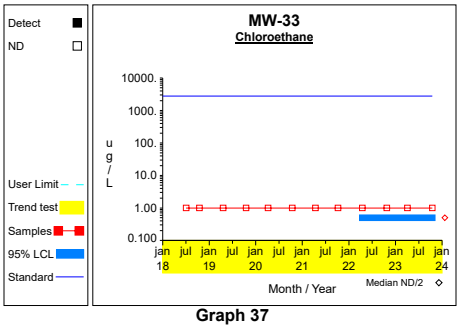
Graph 34



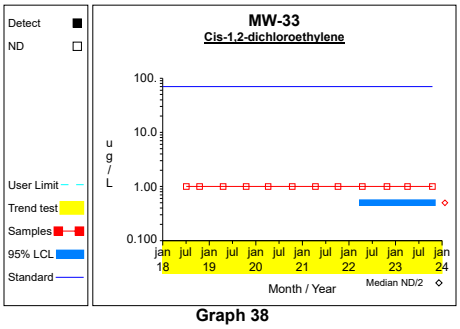
Graph 35



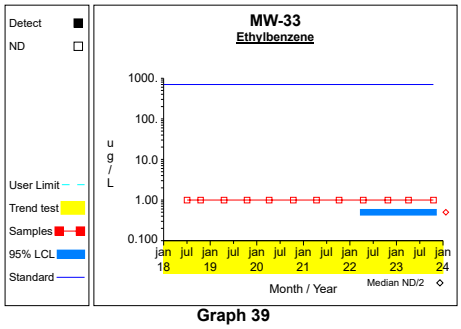
Graph 36



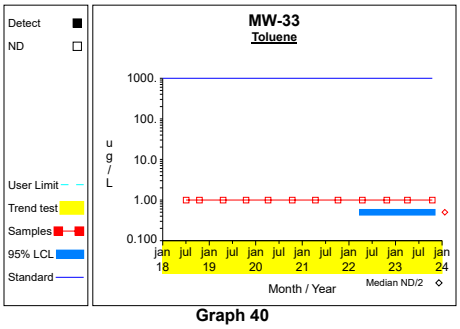
Graph 37



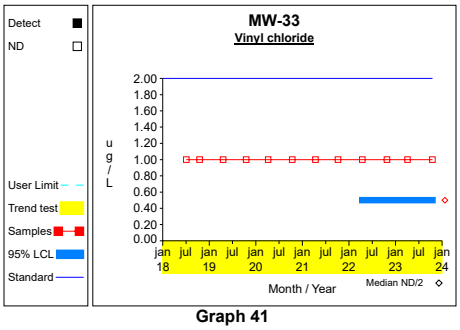
Graph 38



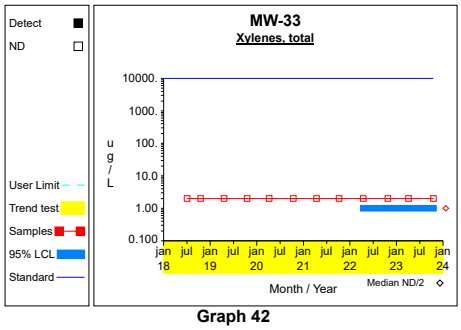
Graph 39



Graph 40

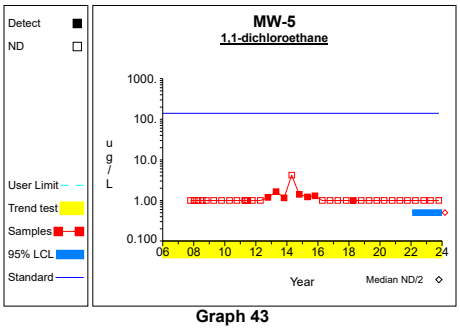


Graph 41

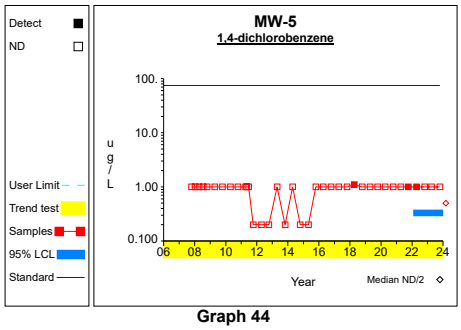


Graph 42

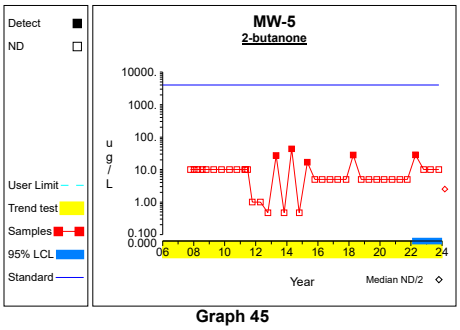
Confidence Limits (Assessment)



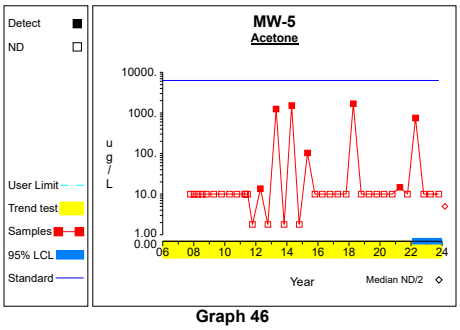
Graph 43



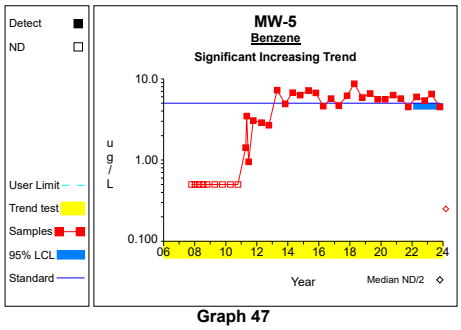
Graph 44



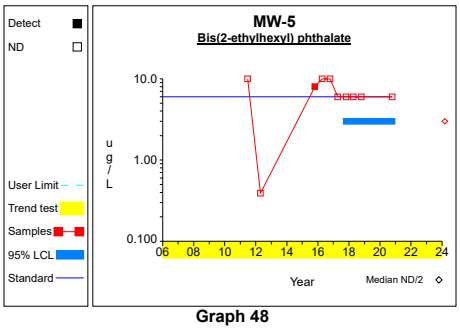
Graph 45



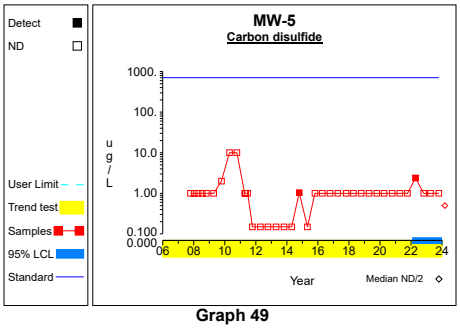
Graph 46



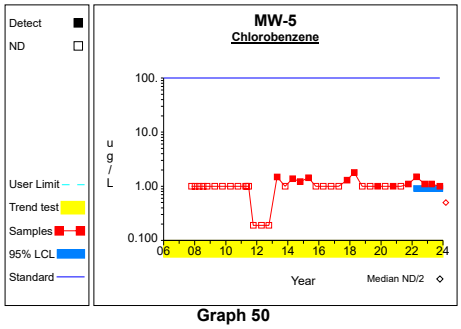
Graph 47



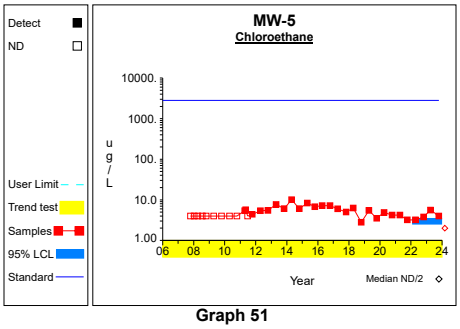
Graph 48



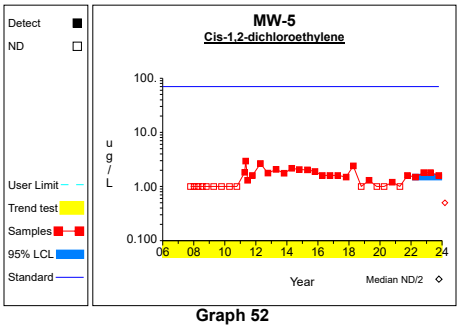
Graph 49



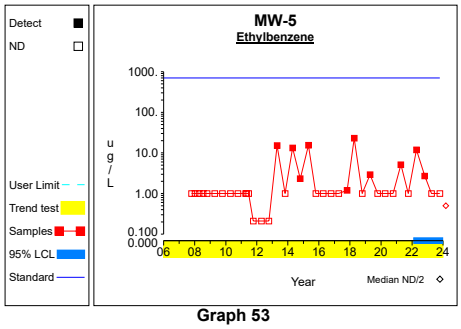
Graph 50



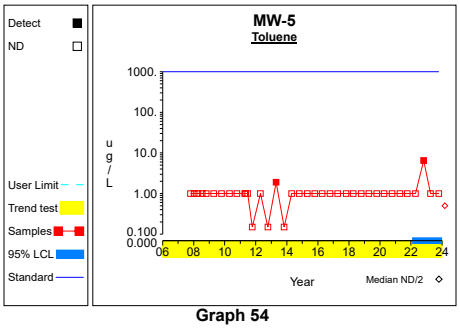
Graph 51



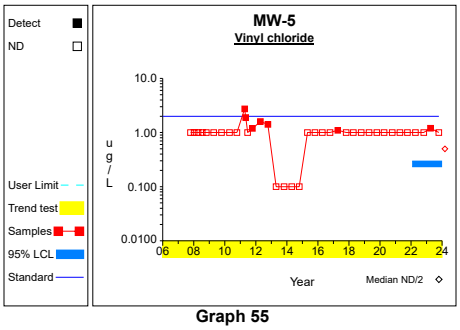
Graph 52



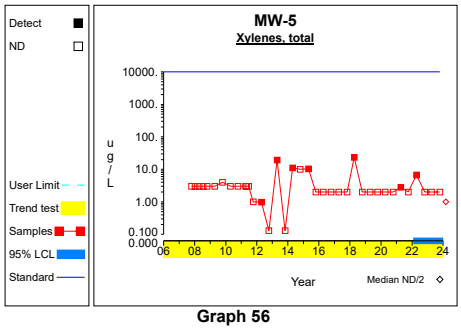
Graph 53



Graph 54

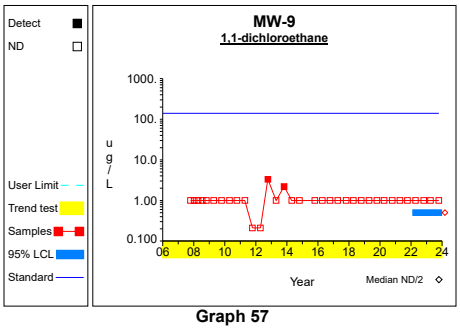


Graph 55

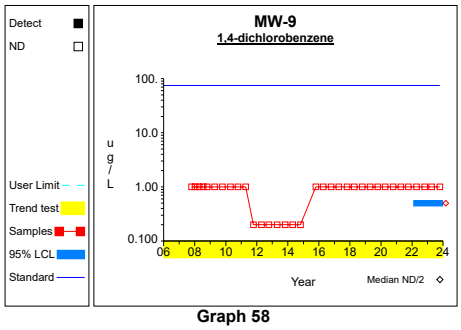


Graph 56

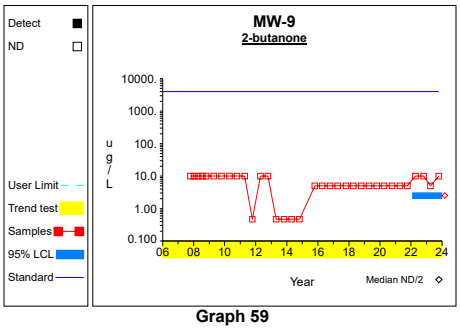
Confidence Limits (Assessment)



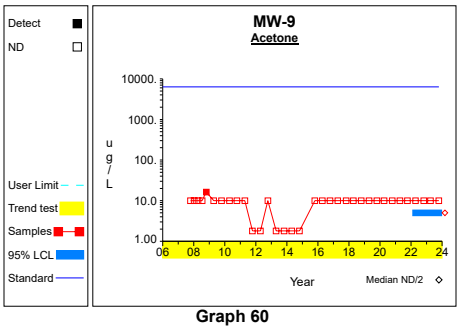
Graph 57



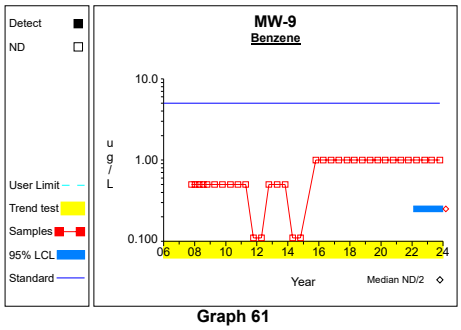
Graph 58



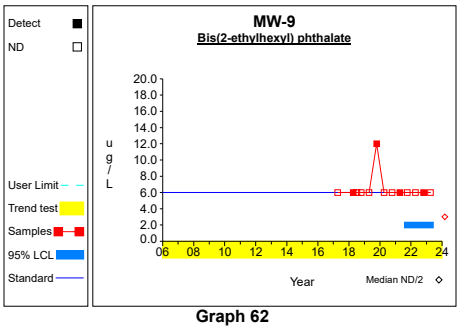
Graph 59



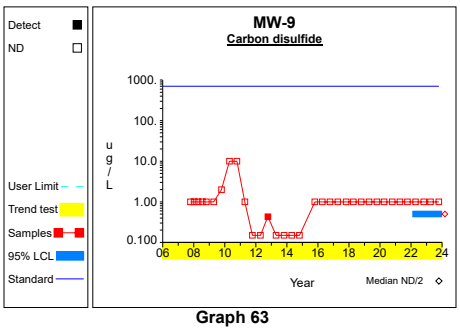
Graph 60



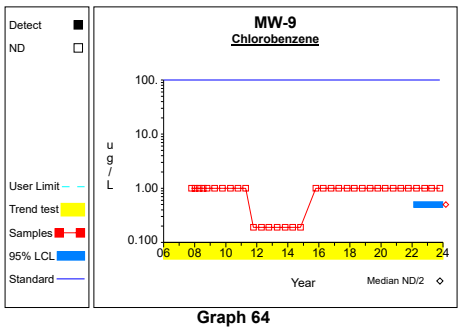
Graph 61



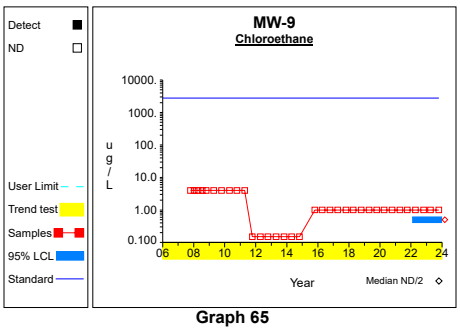
Graph 62



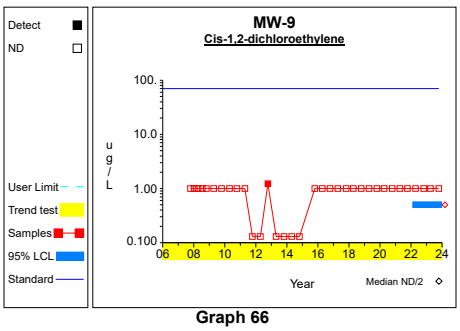
Graph 63



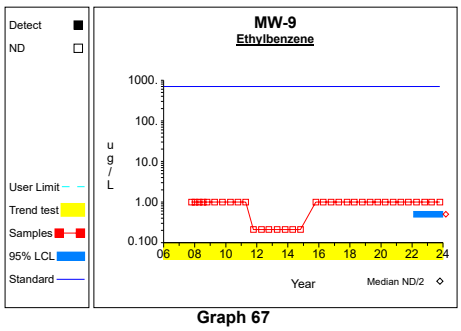
Graph 64



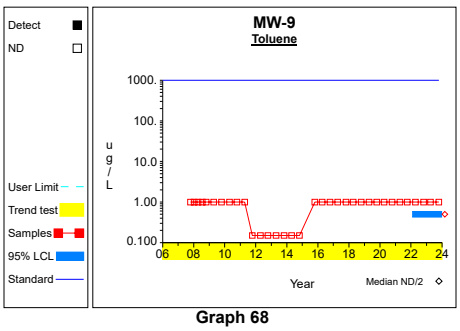
Graph 65



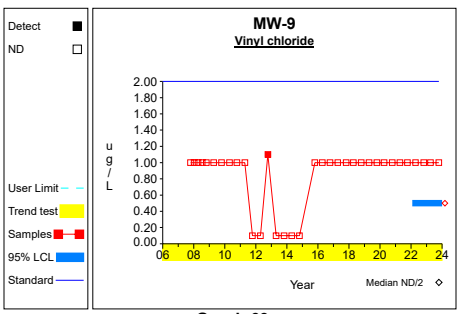
Graph 66



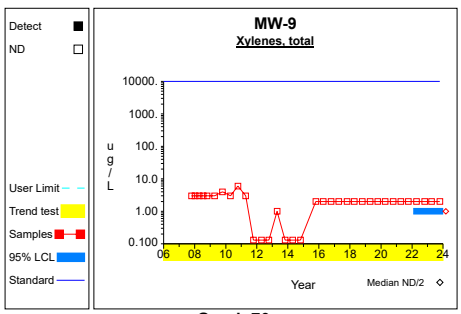
Graph 67



Graph 68



Graph 69



Graph 70

Attachment F

Assessment Statistics for Detected Trace Metals

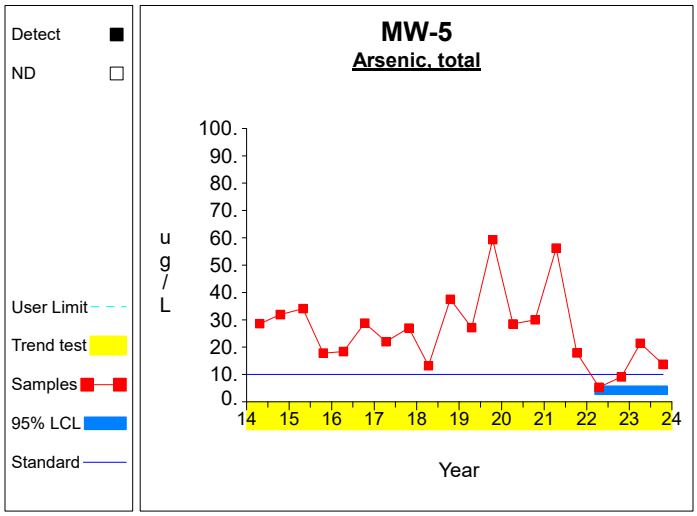
Table 1

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

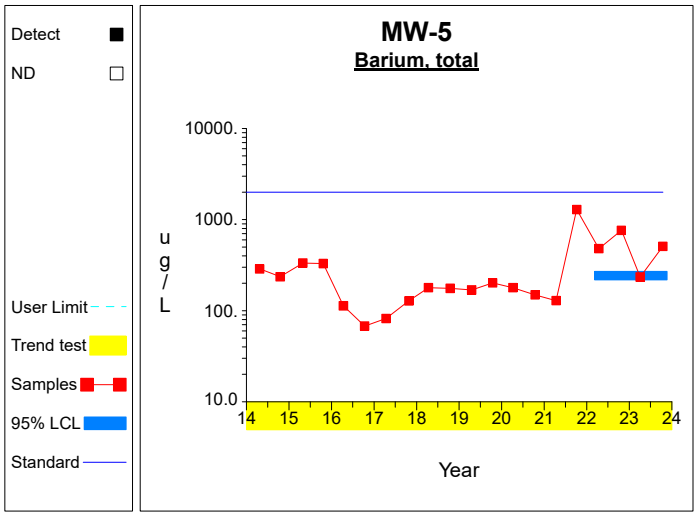
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Arsenic, total	ug/L	MW-5	4	12.375	6.928	1.176	4.226	20.524	10.000	
Barium, total	ug/L	MW-5	4	496.750	216.275	1.176	242.348	751.152	2000.000	
Cobalt, total	ug/L	MW-5	4	0.650	0.173	1.176	0.446	0.854	2.100	dec
Zinc, total	ug/L	MW-5	4	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	35.375	1.335	1.176	33.805	36.945	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	21.150	7.664	1.176	12.135	30.165	2000.000	

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

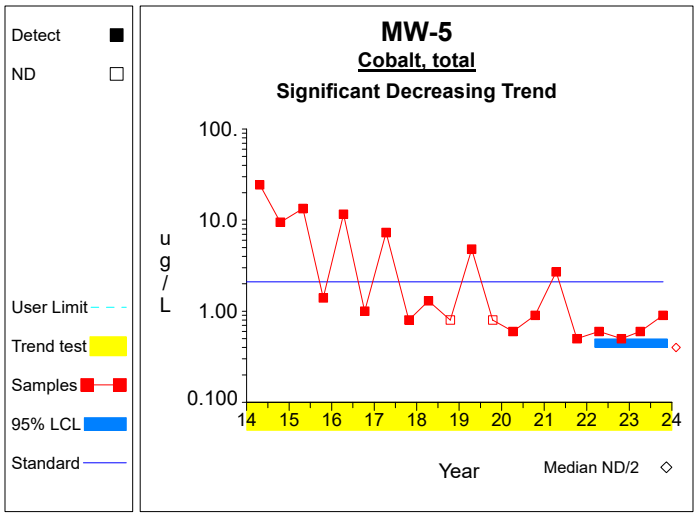
Confidence Limits (Assessment)



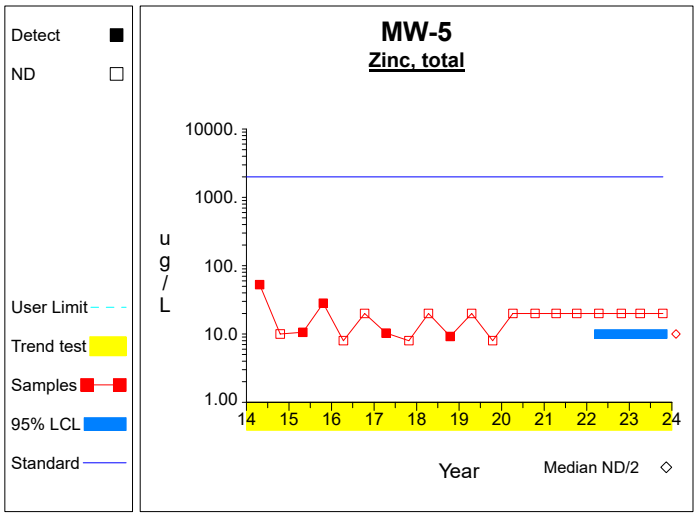
Graph 1



Graph 2

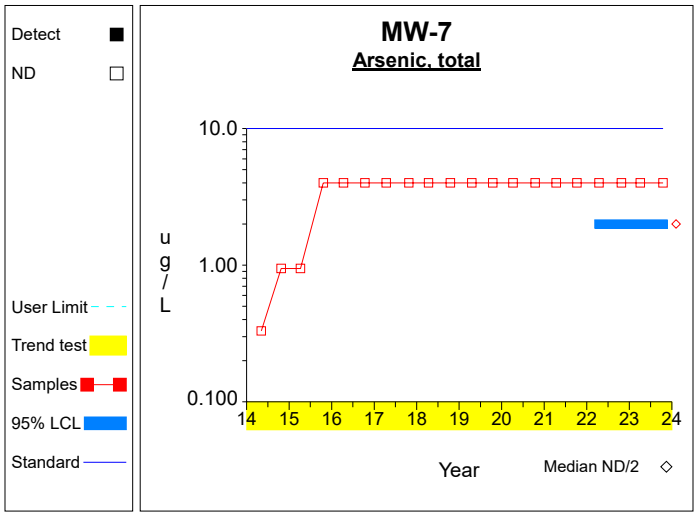


Graph 3

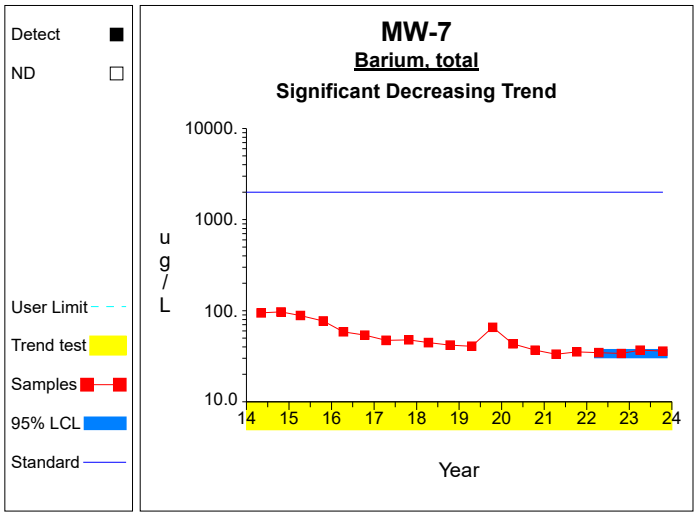


Graph 4

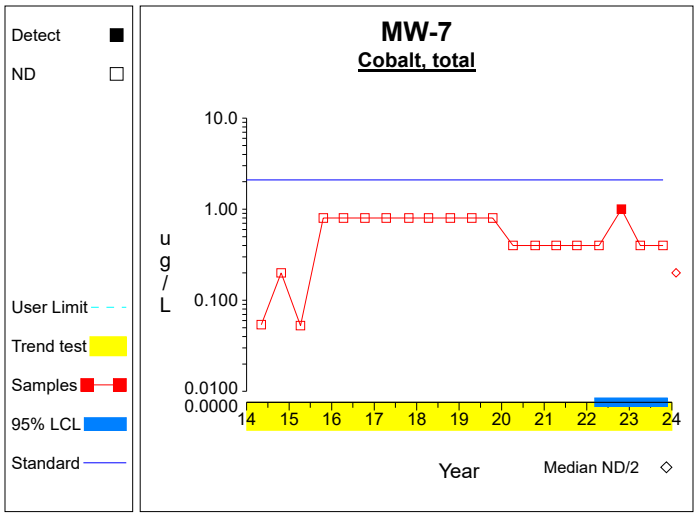
Confidence Limits (Assessment)



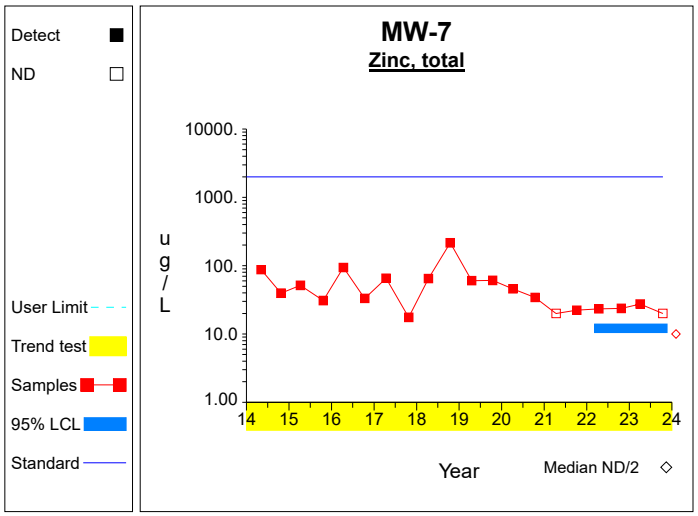
Graph 5



Graph 6



Graph 7



Graph 8

Appendix D.3 – Summary of Field Turbidity

Fayette County Sanitary Landfill

Field Turbidity Over Time

No-Purge Sampling

Date	Monitoring Well																				
	5	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**14R**	**16**	**17**	**18**	**20**	**21**	**24**	**25**	**26**	**27**	**28**	**32**	**33**
10/20/15	5.57	15.61	0.15	16.15	4.93	51.71	1.57	0.52	6.83	5.26	2.84	0.2	0.61	0.18	0.79	0.31	0.67	0.15	2.16		
2/25/16				46.4		422															
4/11/16	1.18	2.53	0.12	83.75	532.2	41.91	2.53	0.23	39.7	0.24	8.44	1.09	0.28	0.4	0.78	0.58	0.1	547	4.17		
7/13/16					6.64	20.18															
10/11/16	1.82	6.86	0.23	17.24	7.19	16.72	4.19	0.16	23.6	0.46	1.93	0.18	0.42	0.16	0.49	0.18	2.26	0.59	27.14		
1/24/17		4.27		78.06	97.74											1.49	3.59				
4/12/17	11.88	9.25	0.27	10.13	3.59	6.98	1.47	1.18	24.31	0.24	1.35	0.54	7.13	0.38	1.54	0.99	0.65	137.7	13.12		
7/10/17										17.42											
10/25/17	22.4	1.56	0.87	68.1	28.6	3.05	2.51	1.07	30.9	1.09	1.7	2.73	2.73	2.67	74.2	0.57	1.45	5.78	4.54		
1/17/18		4.16		14.7													10.5				
4/11/18	7.1	1.14	0.58	12.69	87.63	3.71	21.8	0.82	148	0.89	0.73	1.35	3.83	0.8	1.02	0.63	1.68			19.25	
7/2/18				51.65	4.21												3.84				0.56
10/16/18	8.43	1.25	0.66	16.46	6.61	1.25	0.86	0.85	38.87	0.86	0.55	0.42	0.58	0.41	1.33	0.49	0.6			9.07	0.67
4/17/19	3.18	7.04	0.18	0.73	362.2	1.74	4.79	0.62	142.7	0.81	1.76	1.34	2.02	3.2	4.62	1.5	1.2			12.17	3.75
7/23/19	2.61																				
10/15/19	32.41	1.53	0.78	6.54	2.66	10.65	4.21	0.77	194	0.91	0.86	1.78	1.12	0.69	1.14	0.67	0.91			3.68	1.09
4/6/20	15.16	2.92	1.8	79.96	228.8	1.95	5.9	1.08	202	0.96	1.41	0.64	0.74	0.6	6.41	1.73	1.28			6.16	3.8
7/1/20				15.75																	1.77
10/13/20	2.35	6.34	1.33	3.64	4.37	1.73	3.32	5.88	110.2	1.58	3.69	1.11	7.8	3.51	1.33	1.33	19.89			3.37	1.34
4/12/21	5.63	2.45	1.86	5.28	219.9	2.14	2.77	3.18	110.3	6.21	2.21	1.55	1.49	1.55	1.86	2.45	1.24			78.13	2.13
7/1/21																				25.74	
10/6/21	4.78	2.01	1.43	3.92	11.79	3.02	2.54	1.21	88.14	1.48	1.83	1.23	1.27	0.89	1.97	5.91	1.52			3.27	1.38
4/15/22	7.87	1.23	1.58	149	159.1	1.2	4.65	1.37	46.32	1.14	2.01	1.16	1.3	7.67	1.27	1.65	0.96			44.74	2.2
7/13/22				15																	7.55
10/25/22	2.81	1.03	1.14	8.17	3.43	4.17	4.15	1.69	25.07	0.95	7.21	0.84	8.51		11.32	1.04	1.22			1.2	3.76
1/9/23		2.46																			
4/3/23	2.75	1.9	0.88	1.63	32.28	1.62	1.06	1.6	98.61	1.08	1.44	0.73	1.1	0.91	5.14	0.69	0.61			115.9	77.56
10/16/23	14.26	3.02	5.11	2.02	29.14	1.97	4.35	2.7	11.07	2.07	2.1	3.08	2.39			3.97	1.5			72.86	57.47
Max	**32.41**	**15.61**	**5.11**	**149.00**	**532.20**	**422.00**	**21.80**	**5.88**	**202.00**	**17.42**	**8.44**	**3.08**	**8.51**	**7.67**	**74.20**	**5.91**	**19.89**	**547.00**	**27.14**	**115.90**	**77.56**
Min	**1.18**	**1.03**	**0.12**	**0.73**	**2.66**	**1.20**	**0.86**	**0.16**	**6.83**	**0.24**	**0.55**	**0.18**	**0.28**	**0.16**	**0.49**	**0.18**	**0.10**	**0.15**	**2.16**	**1.20**	**0.56**
Ave	**8.46**	**3.93**	**1.12**	**30.74**	**91.65**	**31.46**	**4.27**	**1.47**	**78.86**	**2.43**	**2.47**	**1.17**	**2.55**	**1.60**	**7.20**	**1.45**	**2.78**	**138.24**	**10.23**	**30.43**	**11.79**
Std Dev	**8.23**	**3.61**	**1.18**	**37.77**	**143.78**	**95.64**	**4.74**	**1.38**	**63.70**	**4.07**	**2.16**	**0.80**	**2.68**	**2.00**	**18.10**	**1.43**	**4.60**	**235.93**	**10.35**	**36.69**	**24.00**

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*

Appendix E

Laboratory Reports for Reporting Period

With Chain of Custody

ANALYTICAL REPORT

May 01, 2023

Work Order: 1GD0185

Report To	Work Order Information
Todd Whipple	Date Received: 4/4/2023 9:17:00AM
HLW Engineering	Collector: Whipple, Todd
PO Box 314	Phone: (515) 733-4144
Story City, IA 50248	PO Number:

Project: Fayette Co. Landfill-New Regs

Project Number: 6040

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-01 MW-12				Matrix: Water		Collected: 04/03/23 13:12	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Surrogate: Dibromofluoromethane	*105 %*			*80-126*	BDF	04/06/23 13:53	
Surrogate: 1,2-Dichloroethane-d4	*108 %*			*63-138*	BDF	04/06/23 13:53	
Surrogate: Toluene-d8	*101 %*			*87-116*	BDF	04/06/23 13:53	
Surrogate: 4-Bromofluorobenzene	*98.0 %*			*85-111*	BDF	04/06/23 13:53	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	

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HLW Engineering
PO Box 314
Story City, IA 50248

May 01, 2023
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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-01 MW-12				Matrix: Water		Collected: 04/03/23 13:12	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 13:53	
Surrogate: Dibromofluoromethane	*105 %*			*75-136*	BDF	04/06/23 13:53	
Surrogate: 1,2-Dichloroethane-d4	*108 %*			*61-142*	BDF	04/06/23 13:53	
Surrogate: Toluene-d8	*101 %*			*82-121*	BDF	04/06/23 13:53	
Surrogate: 4-Bromofluorobenzene	*98.0 %*			*80-116*	BDF	04/06/23 13:53	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Barium, total	**0.0996 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:15	

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PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-01 MW-12				Matrix: Water		Collected: 04/03/23 13:12	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/06/23 23:15	
1GD0185-01RE1 MW-12				Matrix: Water		Collected: 04/03/23 13:12	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/11/23 15:10	
1GD0185-02 MW-21				Matrix: Water		Collected: 04/03/23 10:53	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Surrogate: Dibromofluoromethane	*107 %*			*80-126*	BDF	04/06/23 14:40	
Surrogate: 1,2-Dichloroethane-d4	*112 %*			*63-138*	BDF	04/06/23 14:40	
Surrogate: Toluene-d8	*101 %*			*87-116*	BDF	04/06/23 14:40	
Surrogate: 4-Bromofluorobenzene	*98.4 %*			*85-111*	BDF	04/06/23 14:40	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	

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HLW Engineering
PO Box 314
Story City, IA 50248

May 01, 2023
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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-02 MW-21				Matrix: Water		Collected: 04/03/23 10:53	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 14:40	
Surrogate: Dibromofluoromethane	*107 %*			*75-136*	BDF	04/06/23 14:40	
Surrogate: 1,2-Dichloroethane-d4	*112 %*			*61-142*	BDF	04/06/23 14:40	
Surrogate: Toluene-d8	*101 %*			*82-121*	BDF	04/06/23 14:40	
Surrogate: 4-Bromofluorobenzene	*98.4 %*			*80-116*	BDF	04/06/23 14:40	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Barium, total	**0.0419 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/06/23 23:21	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-02 MW-21				Matrix: Water		Collected: 04/03/23 10:53	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/06/23 23:21	
1GD0185-03 MW-17				Matrix: Water		Collected: 04/03/23 11:23	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Surrogate: Dibromofluoromethane	*108 %*			*80-126*	BDF	04/06/23 15:27	
Surrogate: 1,2-Dichloroethane-d4	*113 %*			*63-138*	BDF	04/06/23 15:27	
Surrogate: Toluene-d8	*101 %*			*87-116*	BDF	04/06/23 15:27	
Surrogate: 4-Bromofluorobenzene	*97.9 %*			*85-111*	BDF	04/06/23 15:27	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-03 MW-17				Matrix: Water		Collected: 04/03/23 11:23	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 15:27	
Surrogate: Dibromofluoromethane	*108 %*			*75-136*	BDF	04/06/23 15:27	
Surrogate: 1,2-Dichloroethane-d4	*113 %*			*61-142*	BDF	04/06/23 15:27	
Surrogate: Toluene-d8	*101 %*			*82-121*	BDF	04/06/23 15:27	
Surrogate: 4-Bromofluorobenzene	*97.9 %*			*80-116*	BDF	04/06/23 15:27	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Barium, total	**0.109 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/06/23 23:27	
1GD0185-04 MW-5				Matrix: Water		Collected: 04/03/23 12:18	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-04 MW-5				Matrix: Water		Collected: 04/03/23 12:18	
Surrogate: Dibromofluoromethane	*108 %*			*80-126*	BDF	04/06/23 16:13	
Surrogate: 1,2-Dichloroethane-d4	*110 %*			*63-138*	BDF	04/06/23 16:13	
Surrogate: Toluene-d8	*101 %*			*87-116*	BDF	04/06/23 16:13	
Surrogate: 4-Bromofluorobenzene	*98.6 %*			*85-111*	BDF	04/06/23 16:13	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Vinyl Chloride	**1.2 ug/L**	**1.0**	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Chloroethane	**5.6 ug/L**	**1.0**	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
cis-1,2-Dichloroethylene	**1.8 ug/L**	**1.0**	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Benzene	**6.5 ug/L**	**1.0**	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	

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HLW Engineering
PO Box 314
Story City, IA 50248

May 01, 2023
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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-04 MW-5				Matrix: Water		Collected: 04/03/23 12:18	
Chlorobenzene	**1.1 ug/L**	**1.0**	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:13	
Surrogate: Dibromofluoromethane	*108 %*			*75-136*	BDF	04/06/23 16:13	
Surrogate: 1,2-Dichloroethane-d4	*110 %*			*61-142*	BDF	04/06/23 16:13	
Surrogate: Toluene-d8	*101 %*			*82-121*	BDF	04/06/23 16:13	
Surrogate: 4-Bromofluorobenzene	*98.6 %*			*80-116*	BDF	04/06/23 16:13	
Sulfide, total	<0.30 mg/L	0.30	1GD0441	EPA 376.2	JLW	04/10/23 16:01	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Arsenic, total	**0.0214 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Barium, total	**0.234 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Cobalt, total	**0.0006 mg/L**	**0.0004**	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/06/23 23:33	
1GD0185-05 MW-7				Matrix: Water		Collected: 04/03/23 14:42	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Surrogate: Dibromofluoromethane	*111 %*			*80-126*	BDF	04/06/23 16:59	
Surrogate: 1,2-Dichloroethane-d4	*114 %*			*63-138*	BDF	04/06/23 16:59	
Surrogate: Toluene-d8	*102 %*			*87-116*	BDF	04/06/23 16:59	
Surrogate: 4-Bromofluorobenzene	*98.2 %*			*85-111*	BDF	04/06/23 16:59	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-05 MW-7				Matrix: Water		Collected: 04/03/23 14:42	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-05 MW-7				Matrix: Water		Collected: 04/03/23 14:42	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 16:59	
Surrogate: Dibromofluoromethane	*111 %*			*75-136*	BDF	04/06/23 16:59	
Surrogate: 1,2-Dichloroethane-d4	*114 %*			*61-142*	BDF	04/06/23 16:59	
Surrogate: Toluene-d8	*102 %*			*82-121*	BDF	04/06/23 16:59	
Surrogate: 4-Bromofluorobenzene	*98.2 %*			*80-116*	BDF	04/06/23 16:59	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Barium, total	**0.0369 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
Zinc, total	**0.0275 mg/L**	**0.0200**	1GD0235	EPA 6020A	RVV	04/06/23 23:39	
1GD0185-06 MW-9				Matrix: Water		Collected: 04/03/23 15:38	
Dichlorodifluoromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Chloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Bromomethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Chloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Acetone	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-06 MW-9				Matrix: Water		Collected: 04/03/23 15:38	
Methyl Iodide	<2.0 ug/L	2.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Acetonitrile	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Methylene Chloride	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
2,2-Dichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
2-Butanone (MEK)	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Bromochloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Chloroform	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,1-Dichloropropene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Benzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Trichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Dibromomethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Toluene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Ethyl Methacrylate	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,3-Dichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Chlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Ethylbenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Xylenes, total	<2.0 ug/L	2.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Styrene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-06 MW-9				Matrix: Water		Collected: 04/03/23 15:38	
Bromoform	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,3-Dichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,2-Dibromo-3-chloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
1,2,4-Trichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Surrogate: Dibromofluoromethane	*114 %*			*80-126*	MSV	04/10/23 12:48	
Surrogate: 1,2-Dichloroethane-d4	*90.2 %*			*63-138*	MSV	04/10/23 12:48	
Surrogate: Toluene-d8	*99.3 %*			*87-116*	MSV	04/10/23 12:48	
Surrogate: 4-Bromofluorobenzene	*99.7 %*			*85-111*	MSV	04/10/23 12:48	
Allyl chloride	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 19:40	
Chloroprene	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 19:40	
Methacrylonitrile	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 19:40	
Methyl Methacrylate	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 19:40	
Propionitrile	<10.0 ug/L	10.0	1GD0508	EPA 8260B	MSV	04/11/23 19:40	
Surrogate: Dibromofluoromethane	*104 %*			*80-126*	MSV	04/11/23 19:40	
Surrogate: 1,2-Dichloroethane-d4	*100 %*			*63-138*	MSV	04/11/23 19:40	
Surrogate: Toluene-d8	*99.0 %*			*87-116*	MSV	04/11/23 19:40	
Surrogate: 4-Bromofluorobenzene	*105 %*			*85-111*	MSV	04/11/23 19:40	
Acrolein	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Acrylonitrile	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 12:48	
Surrogate: 1,2-Dichloroethane-d4	*90.2 %*			*63-138*	MSV	04/10/23 12:48	
Surrogate: Toluene-d8	*99.3 %*			*87-116*	MSV	04/10/23 12:48	
Surrogate: 4-Bromofluorobenzene	*99.7 %*			*85-111*	MSV	04/10/23 12:48	
Isobutanol	<1.0 mg/L	1.0	1GD0694	EPA 8015C	TJB	04/14/23 12:39	
N-Nitrosodimethylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Methyl Methanesulfonate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
N-Nitrosodiethylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
N-Nitrosomethylethylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Ethyl Methanesulfonate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Phenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Bis(2-Chloroethyl) Ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2-Chlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Benzyl Alcohol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2-Methylphenol (o-Cresol)	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	

HLW Engineering
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Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-06 MW-9				Matrix: Water		Collected: 04/03/23 15:38	
Bis[2-Chloroisopropyl]ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
n-Nitroso-di-n-propylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
N-Nitrosopyrrolidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Acetophenone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
o-Toluidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
(3 & 4)-Methylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Hexachloroethane	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Nitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
N-Nitrosopiperidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Isophorone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2-Nitrophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2,4-Dimethylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Bis (2-Chloroethoxy) Methane	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2,4-Dichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Naphthalene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
4-Chloroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2,6-Dichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Hexachloropropene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Hexachlorobutadiene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
N-Nitrosodi-n-butylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
1,4-Phenylenediamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
4-Chloro-3-methylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2-Methylnaphthalene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Isosafrole	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
1,2,4,5-Tetrachlorobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Hexachlorocyclopentadiene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2,4,6-Trichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2,4,5-Trichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Safrole	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2-Chloronaphthalene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2-Nitroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
1,4-Naphthoquinone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Dimethylphthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
1,3-Dinitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
1,2-Dinitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2,6-Dinitrotoluene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Acenaphthylene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-06 MW-9				Matrix: Water		Collected: 04/03/23 15:38	
3-Nitroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Acenaphthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2,4-Dinitrophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
4-Nitrophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Dibenzofuran	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2,4-Dinitrotoluene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2,3,4,6-Tetrachlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Pentachlorobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
1-Naphthylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2-Naphthylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Diethyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Fluorene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
4-Chlorophenyl Phenyl Ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
4-Nitroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
5-Nitro-o-toluidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
4,6-Dinitro-2-methylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
N-Nitrosodiphenylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Diphenylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Azobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Diallate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
1,3,5-Trinitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Phenacetin	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
4-Bromophenyl Phenyl Ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
4-Aminobiphenyl	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Pentachlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Pronamide	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Pentachloronitrobenzene (PCNB)	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Phenanthrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Di-n-butyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Methapyrilene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Fluoranthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Isodrin	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Chlorobenzilate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Pyrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
p-(Dimethylamino)azobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
3,3-Dimethylbenzidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	

HLW Engineering
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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-06 MW-9				Matrix: Water		Collected: 04/03/23 15:38	
Butyl Benzyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Benzo(a)anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Chrysene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Bis(2-Ethylhexyl) Phthalate	<6 ug/L	6	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Kepone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
3,3′-Dichlorobenzidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
2-Acetylaminofluorene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Di-n-octyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Benzo(b)Fluoranthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
7,12-Dimethylbenz [a] anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Benzo(k)Fluoranthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Benzo(a)Pyrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
3-Methylcholanthrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Dibenzo(a,h)anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Indeno(1,2,3-cd)Pyrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Benzo(g,h,i)perylene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:11	
Surrogate: 2-Fluorophenol	*70.8 %*			*24-136*	EPP	04/26/23 20:11	
Surrogate: Phenol-d6	*75.8 %*			*15-140*	EPP	04/26/23 20:11	
Surrogate: Nitrobenzene-d5	*64.1 %*			*29-130*	EPP	04/26/23 20:11	
Surrogate: 2-Fluorobiphenyl	*66.5 %*			*23-113*	EPP	04/26/23 20:11	
Surrogate: 2,4,6-Tribromophenol	*85.2 %*			*15-139*	EPP	04/26/23 20:11	
Surrogate: Terphenyl-dl4	*80.8 %*			*27-141*	EPP	04/26/23 20:11	
O,O,O-Triethyl phosphorothioate	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 19:57	
Thionazin	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 19:57	
Phorate	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 19:57	
Dimethoate	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 19:57	
Disulfoton	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 19:57	
Methyl Parathion	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 19:57	
Parathion	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 19:57	
Famphur	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 19:57	
Surrogate: 2-Nitro-m-xylene	*85.3 %*			*38-122*	EPP	04/25/23 19:57	
2,4-D	<2.0 ug/L	2.0	1GD0480	EPA 8151A	EPP	04/27/23 14:02	
2,4,5-TP (Silvex)	<0.5 ug/L	0.5	1GD0480	EPA 8151A	EPP	04/27/23 14:02	
2,4,5-T	<0.5 ug/L	0.5	1GD0480	EPA 8151A	EPP	04/27/23 14:02	
Dinoseb	<0.5 ug/L	0.5	1GD0480	EPA 8151A	EPP	04/27/23 14:02	
Surrogate: 2,5-Dichlorobenzoic Acid	*57.8 %*			*31-116*	EPP	04/27/23 14:02	
Alpha-BHC	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Gamma-BHC [Lindane]	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-06 MW-9				Matrix: Water		Collected: 04/03/23 15:38	
Beta-BHC	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Heptachlor	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Delta-BHC	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Aldrin	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Heptachlor Epoxide	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Endosulfan I	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
4,4`-DDE	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Dieldrin	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Endrin	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
4,4`-DDD	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Endosulfan II	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
4,4`-DDT	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Endrin Aldehyde	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Endosulfan Sulfate	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Methoxychlor	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Chlordane	<0.10 ug/L	0.10	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Toxaphene	<0.20 ug/L	0.20	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Hexachlorobenzene	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 14:49	
Surrogate: Tetrachloro-m-xylene	*66.2 %*			*10-121*	EPP	04/25/23 14:49	
Arochlor 1016	<0.10 ug/L	0.10	1GD0483	EPA 8082	EPP	04/25/23 14:49	
Arochlor 1221	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 14:49	
Arochlor 1232	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 14:49	
Arochlor 1242	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 14:49	
Arochlor 1248	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 14:49	
Arochlor 1254	<0.10 ug/L	0.10	1GD0483	EPA 8082	EPP	04/25/23 14:49	
Arochlor 1260	<0.10 ug/L	0.10	1GD0483	EPA 8082	EPP	04/25/23 14:49	
Surrogate: Tetrachloro-m-xylene	*69.2 %*			*38-121*	EPP	04/25/23 14:49	
Surrogate: Decachlorobiphenyl	*50.8 %*			*25-119*	EPP	04/25/23 14:49	
Cyanide, total	<0.005 mg/L	0.005	1GD0295	ASTM D7511-12(2017)	AKK	04/07/23 14:37	
Sulfide, total	<0.30 mg/L	0.30	1GD0441	EPA 376.2	JLW	04/10/23 16:01	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Arsenic, total	**0.0045 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Barium, total	**0.334 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Cobalt, total	**0.0011 mg/L**	**0.0004**	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:57	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-06 MW-9				Matrix: Water		Collected: 04/03/23 15:38	
Mercury, total	<0.00050 mg/L	0.00050	1GD0135	EPA 7470A	JAR	04/05/23 16:58	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Tin, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/06/23 23:57	
1GD0185-07 MW-16				Matrix: Water		Collected: 04/03/23 10:01	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Surrogate: Dibromofluoromethane	*109 %*			*80-126*	BDF	04/06/23 17:45	
Surrogate: 1,2-Dichloroethane-d4	*113 %*			*63-138*	BDF	04/06/23 17:45	
Surrogate: Toluene-d8	*102 %*			*87-116*	BDF	04/06/23 17:45	
Surrogate: 4-Bromofluorobenzene	*98.3 %*			*85-111*	BDF	04/06/23 17:45	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-07 MW-16				Matrix: Water		Collected: 04/03/23 10:01	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 17:45	
Surrogate: Dibromofluoromethane	*109 %*			*75-136*	BDF	04/06/23 17:45	
Surrogate: 1,2-Dichloroethane-d4	*113 %*			*61-142*	BDF	04/06/23 17:45	
Surrogate: Toluene-d8	*102 %*			*82-121*	BDF	04/06/23 17:45	
Surrogate: 4-Bromofluorobenzene	*98.3 %*			*80-116*	BDF	04/06/23 17:45	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Barium, total	**0.141 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:03	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-07 MW-16				Matrix: Water		Collected: 04/03/23 10:01	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:03	
1GD0185-08 MW-24				Matrix: Water		Collected: 04/03/23 14:26	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Surrogate: Dibromofluoromethane	*110 %*			*80-126*	BDF	04/06/23 18:32	
Surrogate: 1,2-Dichloroethane-d4	*115 %*			*63-138*	BDF	04/06/23 18:32	
Surrogate: Toluene-d8	*101 %*			*87-116*	BDF	04/06/23 18:32	
Surrogate: 4-Bromofluorobenzene	*102 %*			*85-111*	BDF	04/06/23 18:32	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	

HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-08 MW-24				Matrix: Water		Collected: 04/03/23 14:26	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 18:32	
Surrogate: Dibromofluoromethane	*110 %*			*75-136*	BDF	04/06/23 18:32	
Surrogate: 1,2-Dichloroethane-d4	*115 %*			*61-142*	BDF	04/06/23 18:32	
Surrogate: Toluene-d8	*101 %*			*82-121*	BDF	04/06/23 18:32	
Surrogate: 4-Bromofluorobenzene	*102 %*			*80-116*	BDF	04/06/23 18:32	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Barium, total	**0.389 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Cobalt, total	**0.0008 mg/L**	**0.0004**	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Nickel, total	**0.0276 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:09	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

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Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-08 MW-24				Matrix: Water		Collected: 04/03/23 14:26	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:09	
1GD0185-09 MW-25 + MS/MSD				Matrix: Water		Collected: 04/03/23 16:45	
Dichlorodifluoromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Chloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Bromomethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Chloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Acetone	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Methyl Iodide	<2.0 ug/L	2.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Acetonitrile	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Methylene Chloride	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
2,2-Dichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
2-Butanone (MEK)	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Bromochloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Chloroform	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,1-Dichloropropene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Benzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Trichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Dibromomethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Toluene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Ethyl Methacrylate	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-09 MW-25 + MS/MSD				Matrix: Water		Collected: 04/03/23 16:45	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,3-Dichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Chlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Ethylbenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Xylenes, total	<2.0 ug/L	2.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Styrene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Bromoform	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,3-Dichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,2-Dibromo-3-chloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
1,2,4-Trichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Surrogate: Dibromofluoromethane	*114 %*			*80-126*	MSV	04/10/23 13:15	
Surrogate: 1,2-Dichloroethane-d4	*90.4 %*			*63-138*	MSV	04/10/23 13:15	
Surrogate: Toluene-d8	*98.6 %*			*87-116*	MSV	04/10/23 13:15	
Surrogate: 4-Bromofluorobenzene	*102 %*			*85-111*	MSV	04/10/23 13:15	
Allyl chloride	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 20:28	
Chloroprene	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 20:28	
Methacrylonitrile	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 20:28	
Methyl Methacrylate	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 20:28	
Propionitrile	<10.0 ug/L	10.0	1GD0508	EPA 8260B	MSV	04/11/23 20:28	
Surrogate: Dibromofluoromethane	*103 %*			*80-126*	MSV	04/11/23 20:28	
Surrogate: 1,2-Dichloroethane-d4	*101 %*			*63-138*	MSV	04/11/23 20:28	
Surrogate: Toluene-d8	*99.2 %*			*87-116*	MSV	04/11/23 20:28	
Surrogate: 4-Bromofluorobenzene	*104 %*			*85-111*	MSV	04/11/23 20:28	
Acrolein	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Acrylonitrile	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:15	
Surrogate: 1,2-Dichloroethane-d4	*90.4 %*			*63-138*	MSV	04/10/23 13:15	
Surrogate: Toluene-d8	*98.6 %*			*87-116*	MSV	04/10/23 13:15	
Surrogate: 4-Bromofluorobenzene	*102 %*			*85-111*	MSV	04/10/23 13:15	
Isobutanol	<1.0 mg/L	1.0	1GD0694	EPA 8015C	TJB	04/14/23 13:04	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-09 MW-25 + MS/MSD				Matrix: Water		Collected: 04/03/23 16:45	
N-Nitrosodimethylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Methyl Methanesulfonate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
N-Nitrosodiethylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
N-Nitrosomethylethylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Ethyl Methanesulfonate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Phenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Bis(2-Chloroethyl) Ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2-Chlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Benzyl Alcohol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2-Methylphenol (o-Cresol)	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Bis[2-Chloroisopropyl]ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
n-Nitroso-di-n-propylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
N-Nitrosopyrrolidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Acetophenone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
o-Toluidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
(3 & 4)-Methylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Hexachloroethane	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Nitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
N-Nitrosopiperidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Isophorone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2-Nitrophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2,4-Dimethylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Bis (2-Chloroethoxy) Methane	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2,4-Dichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Naphthalene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
4-Chloroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2,6-Dichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Hexachloropropene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Hexachlorobutadiene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
N-Nitrosodi-n-butylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
1,4-Phenylenediamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
4-Chloro-3-methylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2-Methylnaphthalene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Isosafrole	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
1,2,4,5-Tetrachlorobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Hexachlorocyclopentadiene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2,4,6-Trichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	

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Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-09 MW-25 + MS/MSD				Matrix: Water		Collected: 04/03/23 16:45	
2,4,5-Trichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Safrole	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2-Chloronaphthalene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2-Nitroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
1,4-Naphthoquinone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Dimethylphthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
1,3-Dinitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
1,2-Dinitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2,6-Dinitrotoluene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Acenaphthylene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
3-Nitroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Acenaphthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2,4-Dinitrophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
4-Nitrophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Dibenzofuran	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2,4-Dinitrotoluene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2,3,4,6-Tetrachlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Pentachlorobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
1-Naphthylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2-Naphthylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Diethyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Fluorene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
4-Chlorophenyl Phenyl Ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
4-Nitroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
5-Nitro-o-toluidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
4,6-Dinitro-2-methylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
N-Nitrosodiphenylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Diphenylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Azobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Diallate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
1,3,5-Trinitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Phenacetin	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
4-Bromophenyl Phenyl Ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
4-Aminobiphenyl	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Pentachlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Pronamide	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Pentachloronitrobenzene (PCNB)	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-09 MW-25 + MS/MSD				Matrix: Water		Collected: 04/03/23 16:45	
Phenanthrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Di-n-butyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Methapyrilene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Fluoranthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Isodrin	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Chlorobenzilate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Pyrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
p-(Dimethylamino)azobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
3,3-Dimethylbenzidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Butyl Benzyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Benzo(a)anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Chrysene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Bis(2-Ethylhexyl) Phthalate	**15 ug/L**	**6**	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Kepone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
3,3′-Dichlorobenzidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
2-Acetylaminofluorene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Di-n-octyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Benzo(b)Fluoranthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
7,12-Dimethylbenz [a] anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Benzo(k)Fluoranthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Benzo(a)Pyrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
3-Methylcholanthrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Dibenzo(a,h)anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Indeno(1,2,3-cd)Pyrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Benzo(g,h,i)perylene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 20:36	
Surrogate: 2-Fluorophenol	*79.8 %*			*24-136*	EPP	04/26/23 20:36	
Surrogate: Phenol-d6	*81.3 %*			*15-140*	EPP	04/26/23 20:36	
Surrogate: Nitrobenzene-d5	*73.5 %*			*29-130*	EPP	04/26/23 20:36	
Surrogate: 2-Fluorobiphenyl	*75.9 %*			*23-113*	EPP	04/26/23 20:36	
Surrogate: 2,4,6-Tribromophenol	*97.6 %*			*15-139*	EPP	04/26/23 20:36	
Surrogate: Terphenyl-dl4	*105 %*			*27-141*	EPP	04/26/23 20:36	
O,O,O-Triethyl phosphorothioate	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 20:37	
Thionazin	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 20:37	
Phorate	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 20:37	
Dimethoate	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 20:37	
Disulfoton	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 20:37	
Methyl Parathion	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 20:37	

HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-09 MW-25 + MS/MSD				Matrix: Water		Collected: 04/03/23 16:45	
Parathion	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 20:37	
Famphur	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 20:37	
Surrogate: 2-Nitro-m-xylene	*75.1 %*			*38-122*	EPP	04/25/23 20:37	
2,4-D	<2.0 ug/L	2.0	1GD0480	EPA 8151A	EPP	04/27/23 19:30	
2,4,5-TP (Silvex)	<0.5 ug/L	0.5	1GD0480	EPA 8151A	EPP	04/27/23 19:30	
2,4,5-T	<0.5 ug/L	0.5	1GD0480	EPA 8151A	EPP	04/27/23 19:30	
Dinoseb	<0.5 ug/L	0.5	1GD0480	EPA 8151A	EPP	04/27/23 19:30	
Surrogate: 2,5-Dichlorobenzoic Acid	*58.8 %*			*31-116*	EPP	04/27/23 19:30	
Alpha-BHC	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Gamma-BHC [Lindane]	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Beta-BHC	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Heptachlor	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Delta-BHC	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Aldrin	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Heptachlor Epoxide	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Endosulfan I	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
4,4`-DDE	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Dieldrin	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Endrin	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
4,4`-DDD	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Endosulfan II	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
4,4`-DDT	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Endrin Aldehyde	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Endosulfan Sulfate	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Methoxychlor	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Chlordane	<0.10 ug/L	0.10	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Toxaphene	<0.20 ug/L	0.20	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Hexachlorobenzene	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:05	
Surrogate: Tetrachloro-m-xylene	*68.0 %*			*10-121*	EPP	04/25/23 15:05	
Arochlor 1016	<0.10 ug/L	0.10	1GD0483	EPA 8082	EPP	04/25/23 15:05	
Arochlor 1221	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 15:05	
Arochlor 1232	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 15:05	
Arochlor 1242	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 15:05	
Arochlor 1248	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 15:05	
Arochlor 1254	<0.10 ug/L	0.10	1GD0483	EPA 8082	EPP	04/25/23 15:05	
Arochlor 1260	<0.10 ug/L	0.10	1GD0483	EPA 8082	EPP	04/25/23 15:05	
Surrogate: Tetrachloro-m-xylene	*70.8 %*			*38-121*	EPP	04/25/23 15:05	
Surrogate: Decachlorobiphenyl	*90.0 %*			*25-119*	EPP	04/25/23 15:05	

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HLW Engineering
PO Box 314
Story City, IA 50248

May 01, 2023

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-09 MW-25 + MS/MSD				Matrix: Water		Collected: 04/03/23 16:45	
Cyanide, total	<0.005 mg/L	0.005	1GD0295	ASTM D7511-12(2017)	AKK	04/07/23 14:37	
Sulfide, total	<0.10 mg/L	0.10	1GD0441	EPA 376.2	JLW	04/10/23 16:01	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Barium, total	**0.102 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Cobalt, total	**0.0006 mg/L**	**0.0004**	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Mercury, total	<0.00050 mg/L	0.00050	1GD0135	EPA 7470A	JAR	04/05/23 17:00	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Tin, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:15	
1GD0185-10 MW-26				Matrix: Water		Collected: 04/03/23 16:12	
Dichlorodifluoromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Chloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Bromomethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Chloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Acetone	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Methyl Iodide	<2.0 ug/L	2.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Acetonitrile	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Methylene Chloride	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
2,2-Dichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	

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PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-10 MW-26				Matrix: Water		Collected: 04/03/23 16:12	
2-Butanone (MEK)	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Bromochloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Chloroform	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,1-Dichloropropene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Benzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Trichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Dibromomethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Toluene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Ethyl Methacrylate	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,3-Dichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Chlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Ethylbenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Xylenes, total	<2.0 ug/L	2.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Styrene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Bromoform	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,3-Dichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,2-Dibromo-3-chloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
1,2,4-Trichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	

HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-10 MW-26				Matrix: Water	Collected: 04/03/23 16:12		
Surrogate: Dibromofluoromethane	*116 %*			*80-126*	MSV	04/10/23 13:42	
Surrogate: 1,2-Dichloroethane-d4	*92.8 %*			*63-138*	MSV	04/10/23 13:42	
Surrogate: Toluene-d8	*98.1 %*			*87-116*	MSV	04/10/23 13:42	
Surrogate: 4-Bromofluorobenzene	*100 %*			*85-111*	MSV	04/10/23 13:42	
Allyl chloride	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 21:15	
Chloroprene	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 21:15	
Methacrylonitrile	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 21:15	
Methyl Methacrylate	<1.0 ug/L	1.0	1GD0508	EPA 8260B	MSV	04/11/23 21:15	
Propionitrile	<10.0 ug/L	10.0	1GD0508	EPA 8260B	MSV	04/11/23 21:15	
Surrogate: Dibromofluoromethane	*105 %*			*80-126*	MSV	04/11/23 21:15	
Surrogate: 1,2-Dichloroethane-d4	*101 %*			*63-138*	MSV	04/11/23 21:15	
Surrogate: Toluene-d8	*99.4 %*			*87-116*	MSV	04/11/23 21:15	
Surrogate: 4-Bromofluorobenzene	*104 %*			*85-111*	MSV	04/11/23 21:15	
Acrolein	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Acrylonitrile	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 13:42	
Surrogate: 1,2-Dichloroethane-d4	*92.8 %*			*63-138*	MSV	04/10/23 13:42	
Surrogate: Toluene-d8	*98.1 %*			*87-116*	MSV	04/10/23 13:42	
Surrogate: 4-Bromofluorobenzene	*100 %*			*85-111*	MSV	04/10/23 13:42	
Isobutanol	<1.0 mg/L	1.0	1GD0694	EPA 8015C	TJB	04/14/23 13:29	
N-Nitrosodimethylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Methyl Methanesulfonate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
N-Nitrosodiethylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
N-Nitrosomethylethylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Ethyl Methanesulfonate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Phenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Bis(2-Chloroethyl) Ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2-Chlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Benzyl Alcohol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2-Methylphenol (o-Cresol)	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Bis[2-Chloroisopropyl]ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
n-Nitroso-di-n-propylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
N-Nitrosopyrrolidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Acetophenone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
o-Toluidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
(3 & 4)-Methylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Hexachloroethane	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Nitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
N-Nitrosopiperidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-10 MW-26				Matrix: Water		Collected: 04/03/23 16:12	
Isophorone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2-Nitrophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2,4-Dimethylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Bis (2-Chloroethoxy) Methane	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2,4-Dichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Naphthalene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
4-Chloroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2,6-Dichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Hexachloropropene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Hexachlorobutadiene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
N-Nitrosodi-n-butylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
1,4-Phenylenediamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
4-Chloro-3-methylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2-Methylnaphthalene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Isosafrole	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
1,2,4,5-Tetrachlorobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Hexachlorocyclopentadiene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2,4,6-Trichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2,4,5-Trichlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Safrole	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2-Chloronaphthalene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2-Nitroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
1,4-Naphthoquinone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Dimethylphthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
1,3-Dinitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
1,2-Dinitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2,6-Dinitrotoluene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Acenaphthylene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
3-Nitroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Acenaphthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2,4-Dinitrophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
4-Nitrophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Dibenzofuran	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2,4-Dinitrotoluene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2,3,4,6-Tetrachlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Pentachlorobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
1-Naphthylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	

HLW Engineering
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Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-10 MW-26				Matrix: Water		Collected: 04/03/23 16:12	
2-Naphthylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Diethyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Fluorene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
4-Chlorophenyl Phenyl Ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
4-Nitroaniline	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
5-Nitro-o-toluidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
4,6-Dinitro-2-methylphenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
N-Nitrosodiphenylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Diphenylamine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Azobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Diallate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
1,3,5-Trinitrobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Phenacetin	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
4-Bromophenyl Phenyl Ether	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
4-Aminobiphenyl	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Pentachlorophenol	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Pronamide	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Pentachloronitrobenzene (PCNB)	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Phenanthrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Di-n-butyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Methapyrilene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Fluoranthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Isodrin	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Chlorobenzilate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Pyrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
p-(Dimethylamino)azobenzene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
3,3-Dimethylbenzidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Butyl Benzyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Benzo(a)anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Chrysene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Bis(2-Ethylhexyl) Phthalate	**18 ug/L**	**6**	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Kepone	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
3,3′-Dichlorobenzidine	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
2-Acetylaminofluorene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Di-n-octyl Phthalate	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Benzo(b)Fluoranthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-10 MW-26				Matrix: Water		Collected: 04/03/23 16:12	
7,12-Dimethylbenz [a] anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Benzo(k)Fluoranthene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Benzo(a)Pyrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
3-Methylcholanthrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Dibenzo(a,h)anthracene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Indeno(1,2,3-cd)Pyrene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Benzo(g,h,i)perylene	<8 ug/L	8	1GD0434	EPA 8270C	EPP	04/26/23 21:00	
Surrogate: 2-Fluorophenol	*74.7 %*			*24-136*	EPP	04/26/23 21:00	
Surrogate: Phenol-d6	*75.6 %*			*15-140*	EPP	04/26/23 21:00	
Surrogate: Nitrobenzene-d5	*70.5 %*			*29-130*	EPP	04/26/23 21:00	
Surrogate: 2-Fluorobiphenyl	*74.3 %*			*23-113*	EPP	04/26/23 21:00	
Surrogate: 2,4,6-Tribromophenol	*92.2 %*			*15-139*	EPP	04/26/23 21:00	
Surrogate: Terphenyl-dl4	*101 %*			*27-141*	EPP	04/26/23 21:00	
O,O,O-Triethyl phosphorothioate	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 21:17	
Thionazin	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 21:17	
Phorate	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 21:17	
Dimethoate	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 21:17	
Disulfoton	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 21:17	
Methyl Parathion	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 21:17	
Parathion	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 21:17	
Famphur	<0.4 ug/L	0.4	1GD0484	EPA 8141	EPP	04/25/23 21:17	
Surrogate: 2-Nitro-m-xylene	*67.8 %*			*38-122*	EPP	04/25/23 21:17	
2,4-D	<2.0 ug/L	2.0	1GD0480	EPA 8151A	EPP	04/27/23 15:07	
2,4,5-TP (Silvex)	<0.5 ug/L	0.5	1GD0480	EPA 8151A	EPP	04/27/23 15:07	
2,4,5-T	<0.5 ug/L	0.5	1GD0480	EPA 8151A	EPP	04/27/23 15:07	
Dinoseb	<0.5 ug/L	0.5	1GD0480	EPA 8151A	EPP	04/27/23 15:07	
Surrogate: 2,5-Dichlorobenzoic Acid	*78.7 %*			*31-116*	EPP	04/27/23 15:07	
Alpha-BHC	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Gamma-BHC [Lindane]	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Beta-BHC	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Heptachlor	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Delta-BHC	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Aldrin	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Heptachlor Epoxide	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Endosulfan I	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
4,4`-DDE	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Dieldrin	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Endrin	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-10 MW-26				Matrix: Water		Collected: 04/03/23 16:12	
4,4`-DDD	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Endosulfan II	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
4,4`-DDT	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Endrin Aldehyde	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Endosulfan Sulfate	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Methoxychlor	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Chlordane	<0.10 ug/L	0.10	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Toxaphene	<0.20 ug/L	0.20	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Hexachlorobenzene	<0.05 ug/L	0.05	1GD0482	EPA 8081	EPP	04/25/23 15:21	
Surrogate: Tetrachloro-m-xylene	*73.0 %*			*10-121*	EPP	04/25/23 15:21	
Arochlor 1016	<0.10 ug/L	0.10	1GD0483	EPA 8082	EPP	04/25/23 15:21	
Arochlor 1221	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 15:21	
Arochlor 1232	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 15:21	
Arochlor 1242	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 15:21	
Arochlor 1248	<0.20 ug/L	0.20	1GD0483	EPA 8082	EPP	04/25/23 15:21	
Arochlor 1254	<0.10 ug/L	0.10	1GD0483	EPA 8082	EPP	04/25/23 15:21	
Arochlor 1260	<0.10 ug/L	0.10	1GD0483	EPA 8082	EPP	04/25/23 15:21	
Surrogate: Tetrachloro-m-xylene	*75.8 %*			*38-121*	EPP	04/25/23 15:21	
Surrogate: Decachlorobiphenyl	*95.0 %*			*25-119*	EPP	04/25/23 15:21	
Cyanide, total	<0.005 mg/L	0.005	1GD0295	ASTM D7511-12(2017)	AKK	04/07/23 14:37	
Sulfide, total	<0.10 mg/L	0.10	1GD0441	EPA 376.2	JLW	04/10/23 16:01	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Barium, total	**0.0275 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Mercury, total	<0.00050 mg/L	0.00050	1GD0135	EPA 7470A	JAR	04/05/23 17:02	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Tin, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:39	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:39	

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HLW Engineering
PO Box 314
Story City, IA 50248

May 01, 2023

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-11 MW-32				Matrix: Water		Collected: 04/03/23 13:39	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Surrogate: Dibromofluoromethane	*110 %*			*80-126*	BDF	04/06/23 19:19	
Surrogate: 1,2-Dichloroethane-d4	*113 %*			*63-138*	BDF	04/06/23 19:19	
Surrogate: Toluene-d8	*102 %*			*87-116*	BDF	04/06/23 19:19	
Surrogate: 4-Bromofluorobenzene	*102 %*			*85-111*	BDF	04/06/23 19:19	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-11 MW-32				Matrix: Water		Collected: 04/03/23 13:39	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 19:19	
Surrogate: Dibromofluoromethane	*110 %*			*75-136*	BDF	04/06/23 19:19	
Surrogate: 1,2-Dichloroethane-d4	*113 %*			*61-142*	BDF	04/06/23 19:19	
Surrogate: Toluene-d8	*102 %*			*82-121*	BDF	04/06/23 19:19	
Surrogate: 4-Bromofluorobenzene	*102 %*			*80-116*	BDF	04/06/23 19:19	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Barium, total	**0.344 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Cobalt, total	**0.0006 mg/L**	**0.0004**	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:45	
1GD0185-12 MW-33				Matrix: Water		Collected: 04/03/23 13:58	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Surrogate: Dibromofluoromethane	*110 %*			*80-126*	BDF	04/06/23 20:04	
Surrogate: 1,2-Dichloroethane-d4	*116 %*			*63-138*	BDF	04/06/23 20:04	
Surrogate: Toluene-d8	*102 %*			*87-116*	BDF	04/06/23 20:04	
Surrogate: 4-Bromofluorobenzene	*103 %*			*85-111*	BDF	04/06/23 20:04	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-12 MW-33				Matrix: Water		Collected: 04/03/23 13:58	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-12 MW-33				Matrix: Water		Collected: 04/03/23 13:58	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/06/23 20:04	
Surrogate: Dibromofluoromethane	*110 %*			*75-136*	BDF	04/06/23 20:04	
Surrogate: 1,2-Dichloroethane-d4	*116 %*			*61-142*	BDF	04/06/23 20:04	
Surrogate: Toluene-d8	*102 %*			*82-121*	BDF	04/06/23 20:04	
Surrogate: 4-Bromofluorobenzene	*103 %*			*80-116*	BDF	04/06/23 20:04	
Bis(2-Ethylhexyl) Phthalate	<6 ug/L	6	1GD0431	EPA 8270C	EPP	04/25/23 13:48	
Surrogate: Nitrobenzene-d5	*82.4 %*			*29-130*	EPP	04/25/23 13:48	
Surrogate: 2-Fluorobiphenyl	*84.9 %*			*23-113*	EPP	04/25/23 13:48	
Surrogate: Terphenyl-dl4	*105 %*			*27-141*	EPP	04/25/23 13:48	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Barium, total	**0.160 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Cadmium, total	**0.0009 mg/L**	**0.0008**	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Cobalt, total	**0.0014 mg/L**	**0.0004**	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Nickel, total	**0.0058 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 0:51	
1GD0185-13 ACM Tile 1				Matrix: Water		Collected: 04/03/23 10:35	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Surrogate: Dibromofluoromethane	*112 %*			*80-126*	BDF	04/07/23 10:41	
Surrogate: 1,2-Dichloroethane-d4	*115 %*			*63-138*	BDF	04/07/23 10:41	
Surrogate: Toluene-d8	*101 %*			*87-116*	BDF	04/07/23 10:41	
Surrogate: 4-Bromofluorobenzene	*104 %*			*85-111*	BDF	04/07/23 10:41	

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HLW Engineering
PO Box 314
Story City, IA 50248

May 01, 2023

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-13 ACM Tile 1				Matrix: Water		Collected: 04/03/23 10:35	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-13 ACM Tile 1				Matrix: Water		Collected: 04/03/23 10:35	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 10:41	
Surrogate: Dibromofluoromethane	*112 %*			*75-136*	BDF	04/07/23 10:41	
Surrogate: 1,2-Dichloroethane-d4	*115 %*			*61-142*	BDF	04/07/23 10:41	
Surrogate: Toluene-d8	*101 %*			*82-121*	BDF	04/07/23 10:41	
Surrogate: 4-Bromofluorobenzene	*104 %*			*80-116*	BDF	04/07/23 10:41	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0382	EPA 6020A	RVV	04/11/23 18:46	
1GD0185-14 PECS-1				Matrix: Water		Collected: 04/03/23 10:40	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Surrogate: Dibromofluoromethane	*111 %*			*80-126*	BDF	04/07/23 11:26	
Surrogate: 1,2-Dichloroethane-d4	*115 %*			*63-138*	BDF	04/07/23 11:26	
Surrogate: Toluene-d8	*102 %*			*87-116*	BDF	04/07/23 11:26	
Surrogate: 4-Bromofluorobenzene	*104 %*			*85-111*	BDF	04/07/23 11:26	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-14 PECS-1				Matrix: Water		Collected: 04/03/23 10:40	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 11:26	
Surrogate: Dibromofluoromethane	*111 %*			*75-136*	BDF	04/07/23 11:26	
Surrogate: 1,2-Dichloroethane-d4	*115 %*			*61-142*	BDF	04/07/23 11:26	
Surrogate: Toluene-d8	*102 %*			*82-121*	BDF	04/07/23 11:26	
Surrogate: 4-Bromofluorobenzene	*104 %*			*80-116*	BDF	04/07/23 11:26	
1GD0185-15 MW-11				Matrix: Water		Collected: 04/03/23 13:04	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Surrogate: Dibromofluoromethane	*112 %*			*80-126*	BDF	04/07/23 12:12	
Surrogate: 1,2-Dichloroethane-d4	*116 %*			*63-138*	BDF	04/07/23 12:12	
Surrogate: Toluene-d8	*102 %*			*87-116*	BDF	04/07/23 12:12	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-15 MW-11				Matrix: Water		Collected: 04/03/23 13:04	
Surrogate: 4-Bromofluorobenzene	*102 %*			*85-111*	BDF	04/07/23 12:12	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	

HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-15 MW-11				Matrix: Water		Collected: 04/03/23 13:04	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:12	
Surrogate: Dibromofluoromethane	*112 %*			*75-136*	BDF	04/07/23 12:12	
Surrogate: 1,2-Dichloroethane-d4	*116 %*			*61-142*	BDF	04/07/23 12:12	
Surrogate: Toluene-d8	*102 %*			*82-121*	BDF	04/07/23 12:12	
Surrogate: 4-Bromofluorobenzene	*102 %*			*80-116*	BDF	04/07/23 12:12	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Barium, total	**0.0521 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Cobalt, total	**0.0010 mg/L**	**0.0004**	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:09	
1GD0185-16 MW-14R				Matrix: Water		Collected: 04/03/23 12:40	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Surrogate: Dibromofluoromethane	*112 %*			*80-126*	BDF	04/07/23 12:57	
Surrogate: 1,2-Dichloroethane-d4	*116 %*			*63-138*	BDF	04/07/23 12:57	
Surrogate: Toluene-d8	*101 %*			*87-116*	BDF	04/07/23 12:57	
Surrogate: 4-Bromofluorobenzene	*102 %*			*85-111*	BDF	04/07/23 12:57	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	

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PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-16 MW-14R				Matrix: Water		Collected: 04/03/23 12:40	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	

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May 01, 2023
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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-16 MW-14R				Matrix: Water		Collected: 04/03/23 12:40	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 12:57	
Surrogate: Dibromofluoromethane	*112 %*			*75-136*	BDF	04/07/23 12:57	
Surrogate: 1,2-Dichloroethane-d4	*116 %*			*61-142*	BDF	04/07/23 12:57	
Surrogate: Toluene-d8	*101 %*			*82-121*	BDF	04/07/23 12:57	
Surrogate: 4-Bromofluorobenzene	*102 %*			*80-116*	BDF	04/07/23 12:57	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Arsenic, total	**0.0087 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Barium, total	**0.0889 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:15	
1GD0185-16RE1 MW-14R				Matrix: Water		Collected: 04/03/23 12:40	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/11/23 15:22	
1GD0185-17 MW-18				Matrix: Water		Collected: 04/03/23 11:35	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Surrogate: Dibromofluoromethane	*114 %*			*80-126*	BDF	04/07/23 13:42	
Surrogate: 1,2-Dichloroethane-d4	*117 %*			*63-138*	BDF	04/07/23 13:42	
Surrogate: Toluene-d8	*102 %*			*87-116*	BDF	04/07/23 13:42	
Surrogate: 4-Bromofluorobenzene	*103 %*			*85-111*	BDF	04/07/23 13:42	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	

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Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-17 MW-18				Matrix: Water		Collected: 04/03/23 11:35	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-17 MW-18				Matrix: Water		Collected: 04/03/23 11:35	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 13:42	
Surrogate: Dibromofluoromethane	*114 %*			*75-136*	BDF	04/07/23 13:42	
Surrogate: 1,2-Dichloroethane-d4	*117 %*			*61-142*	BDF	04/07/23 13:42	
Surrogate: Toluene-d8	*102 %*			*82-121*	BDF	04/07/23 13:42	
Surrogate: 4-Bromofluorobenzene	*103 %*			*80-116*	BDF	04/07/23 13:42	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Barium, total	**0.432 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:21	
1GD0185-18 MW-20				Matrix: Water		Collected: 04/03/23 11:02	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Surrogate: Dibromofluoromethane	*113 %*			*80-126*	BDF	04/07/23 14:28	
Surrogate: 1,2-Dichloroethane-d4	*119 %*			*63-138*	BDF	04/07/23 14:28	
Surrogate: Toluene-d8	*102 %*			*87-116*	BDF	04/07/23 14:28	
Surrogate: 4-Bromofluorobenzene	*103 %*			*85-111*	BDF	04/07/23 14:28	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-18 MW-20				Matrix: Water		Collected: 04/03/23 11:02	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 14:28	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-18 MW-20				Matrix: Water	Collected: 04/03/23 11:02		
Surrogate: Dibromofluoromethane	*113 %*			*75-136*	BDF	04/07/23 14:28	
Surrogate: 1,2-Dichloroethane-d4	*119 %*			*61-142*	BDF	04/07/23 14:28	
Surrogate: Toluene-d8	*102 %*			*82-121*	BDF	04/07/23 14:28	
Surrogate: 4-Bromofluorobenzene	*103 %*			*80-116*	BDF	04/07/23 14:28	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Barium, total	**0.108 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Cobalt, total	**0.0005 mg/L**	**0.0004**	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:27	
1GD0185-19 MW-6				Matrix: Water	Collected: 04/03/23 10:12		
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Surrogate: Dibromofluoromethane	*112 %*			*80-126*	BDF	04/07/23 15:13	
Surrogate: 1,2-Dichloroethane-d4	*116 %*			*63-138*	BDF	04/07/23 15:13	
Surrogate: Toluene-d8	*104 %*			*87-116*	BDF	04/07/23 15:13	
Surrogate: 4-Bromofluorobenzene	*102 %*			*85-111*	BDF	04/07/23 15:13	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-19 MW-6				Matrix: Water		Collected: 04/03/23 10:12	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:13	
Surrogate: Dibromofluoromethane	*112 %*			*75-136*	BDF	04/07/23 15:13	
Surrogate: 1,2-Dichloroethane-d4	*116 %*			*61-142*	BDF	04/07/23 15:13	
Surrogate: Toluene-d8	*104 %*			*82-121*	BDF	04/07/23 15:13	
Surrogate: 4-Bromofluorobenzene	*102 %*			*80-116*	BDF	04/07/23 15:13	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:33	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-19 MW-6				Matrix: Water		Collected: 04/03/23 10:12	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Barium, total	**0.0903 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:33	
1GD0185-20 MW-8				Matrix: Water		Collected: 04/03/23 14:54	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Surrogate: Dibromofluoromethane	*112 %*			*80-126*	BDF	04/07/23 15:59	
Surrogate: 1,2-Dichloroethane-d4	*118 %*			*63-138*	BDF	04/07/23 15:59	
Surrogate: Toluene-d8	*102 %*			*87-116*	BDF	04/07/23 15:59	
Surrogate: 4-Bromofluorobenzene	*102 %*			*85-111*	BDF	04/07/23 15:59	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-20 MW-8				Matrix: Water		Collected: 04/03/23 14:54	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 15:59	
Surrogate: Dibromofluoromethane	*112 %*			*75-136*	BDF	04/07/23 15:59	
Surrogate: 1,2-Dichloroethane-d4	*118 %*			*61-142*	BDF	04/07/23 15:59	
Surrogate: Toluene-d8	*102 %*			*82-121*	BDF	04/07/23 15:59	
Surrogate: 4-Bromofluorobenzene	*102 %*			*80-116*	BDF	04/07/23 15:59	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Barium, total	**0.0466 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 1:39	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-20 MW-8				Matrix: Water		Collected: 04/03/23 14:54	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:39	
1GD0185-21 MW-10				Matrix: Water		Collected: 04/03/23 15:18	
Acrylonitrile	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Surrogate: Dibromofluoromethane	*113 %*			*80-126*	BDF	04/07/23 16:44	
Surrogate: 1,2-Dichloroethane-d4	*118 %*			*63-138*	BDF	04/07/23 16:44	
Surrogate: Toluene-d8	*102 %*			*87-116*	BDF	04/07/23 16:44	
Surrogate: 4-Bromofluorobenzene	*103 %*			*85-111*	BDF	04/07/23 16:44	
Chloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Bromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Chloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Acetone	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Methyl Iodide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Methylene Chloride	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Bromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Chloroform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Benzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-21 MW-10				Matrix: Water		Collected: 04/03/23 15:18	
Trichloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Dibromomethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Toluene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Chlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Ethylbenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Xylenes, total	<2.0 ug/L	2.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Styrene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Bromoform	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0287	EPA 8260B	BDF	04/07/23 16:44	
Surrogate: Dibromofluoromethane	*113 %*			*75-136*	BDF	04/07/23 16:44	
Surrogate: 1,2-Dichloroethane-d4	*118 %*			*61-142*	BDF	04/07/23 16:44	
Surrogate: Toluene-d8	*102 %*			*82-121*	BDF	04/07/23 16:44	
Surrogate: 4-Bromofluorobenzene	*103 %*			*80-116*	BDF	04/07/23 16:44	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Barium, total	**0.0345 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:45	

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-21 MW-10				Matrix: Water		Collected: 04/03/23 15:18	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:45	
1GD0185-21RE1 MW-10				Matrix: Water		Collected: 04/03/23 15:18	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/11/23 15:28	
1GD0185-22 Duplicate				Matrix: Water		Collected: 04/03/23 00:00	
Acrylonitrile	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Surrogate: Dibromofluoromethane	*116 %*			*80-126*	MSV	04/10/23 14:08	
Surrogate: 1,2-Dichloroethane-d4	*91.8 %*			*63-138*	MSV	04/10/23 14:08	
Surrogate: Toluene-d8	*98.4 %*			*87-116*	MSV	04/10/23 14:08	
Surrogate: 4-Bromofluorobenzene	*101 %*			*85-111*	MSV	04/10/23 14:08	
Chloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Vinyl Chloride	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Bromomethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Chloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Trichlorofluoromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Acetone	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Methyl Iodide	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Carbon Disulfide	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Methylene Chloride	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
trans-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,1-Dichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Vinyl Acetate	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
cis-1,2-Dichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
2-Butanone (MEK)	<10.0 ug/L	10.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Bromochloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Chloroform	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Carbon Tetrachloride	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Benzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,2-Dichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Trichloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,2-Dichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Dibromomethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-22 Duplicate				Matrix: Water		Collected: 04/03/23 00:00	
Bromodichloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
4-Methyl-2-pentanone (MIBK)	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Toluene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Tetrachloroethylene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
2-Hexanone (MBK)	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Dibromochloromethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,2-Dibromoethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Chlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Ethylbenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Xylenes, total	<2.0 ug/L	2.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Styrene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Bromoform	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
trans-1,4-Dichloro-2-butene	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
1,2-Dibromo-3-chloropropane	<5.0 ug/L	5.0	1GD0406	EPA 8260B	MSV	04/10/23 14:08	
Surrogate: Dibromofluoromethane	*116 %*			*75-136*	MSV	04/10/23 14:08	
Surrogate: 1,2-Dichloroethane-d4	*91.8 %*			*61-142*	MSV	04/10/23 14:08	
Surrogate: Toluene-d8	*98.4 %*			*82-121*	MSV	04/10/23 14:08	
Surrogate: 4-Bromofluorobenzene	*101 %*			*80-116*	MSV	04/10/23 14:08	
Silver, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Arsenic, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Barium, total	**0.0962 mg/L**	**0.0040**	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Beryllium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Cadmium, total	<0.0008 mg/L	0.0008	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Cobalt, total	<0.0004 mg/L	0.0004	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Chromium, total	<0.0080 mg/L	0.0080	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Copper, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Nickel, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Lead, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Antimony, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Selenium, total	<0.0040 mg/L	0.0040	1GD0235	EPA 6020A	RVV	04/07/23 1:51	

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Work Order: 1GD0185

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GD0185-22 Duplicate				Matrix: Water		Collected: 04/03/23 00:00	
Thallium, total	<0.0020 mg/L	0.0020	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Vanadium, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:51	
Zinc, total	<0.0200 mg/L	0.0200	1GD0235	EPA 6020A	RVV	04/07/23 1:51	

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Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0287 - EPA 5030B										
Blank (1GD0287-BLK1)				Prepared: 04/05/23 Analyzed: 04/06/23						
Surrogate: Dibromofluoromethane	*53.6*		*ug/L*	*50.3520*		*106*	*80-126*			
Surrogate: Dibromofluoromethane	*53.6*		*"*	*50.3520*		*106*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*55.1*		*"*	*50.4080*		*109*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*55.1*		*"*	*50.4080*		*109*	*61-142*			
Surrogate: Toluene-d8	*50.4*		*"*	*50.2360*		*100*	*87-116*			
Surrogate: Toluene-d8	*50.4*		*"*	*50.2360*		*100*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*49.8*		*"*	*50.4200*		*98.7*	*80-116*			
Surrogate: 4-Bromofluorobenzene	*49.8*		*"*	*50.4200*		*98.7*	*85-111*			
Chloromethane	ND	1.0	"							
Vinyl Chloride	ND	1.0	"							
Bromomethane	ND	1.0	"							
Chloroethane	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,1-Dichloroethylene	ND	1.0	"							
Acetone	ND	10.0	"							
Methyl Iodide	ND	1.0	"							
Carbon Disulfide	ND	1.0	"							
Methylene Chloride	ND	5.0	"							
Acrylonitrile	ND	5.0	"							
trans-1,2-Dichloroethylene	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
Vinyl Acetate	ND	5.0	"							
cis-1,2-Dichloroethylene	ND	1.0	"							
2-Butanone (MEK)	ND	10.0	"							
Bromochloromethane	ND	1.0	"							
Chloroform	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Carbon Tetrachloride	ND	1.0	"							
Benzene	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Trichloroethylene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
Dibromomethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
4-Methyl-2-pentanone (MIBK)	ND	5.0	"							
Toluene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0287 - EPA 5030B										
Blank (1GD0287-BLK1)				Prepared: 04/05/23 Analyzed: 04/06/23						
1,1,2-Trichloroethane	ND	1.0	ug/L							
Tetrachloroethylene	ND	1.0	"							
2-Hexanone (MBK)	ND	5.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromoethane	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	2.0	"							
Styrene	ND	1.0	"							
Bromoform	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
trans-1,4-Dichloro-2-butene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
LCS (1GD0287-BS1)				Prepared: 04/05/23 Analyzed: 04/06/23						
Surrogate: Dibromofluoromethane	*49.2*		*ug/L*	*50.3520*		*97.8*	*75-136*			
Surrogate: Dibromofluoromethane	*49.2*		*"*	*50.3520*		*97.8*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*46.9*		*"*	*50.4080*		*93.0*	*61-142*			
Surrogate: 1,2-Dichloroethane-d4	*46.9*		*"*	*50.4080*		*93.0*	*63-138*			
Surrogate: Toluene-d8	*48.9*		*"*	*50.2360*		*97.3*	*82-121*			
Surrogate: Toluene-d8	*48.9*		*"*	*50.2360*		*97.3*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*48.2*		*"*	*50.4200*		*95.5*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*48.2*		*"*	*50.4200*		*95.5*	*80-116*			
Chloromethane	29.19	1.0	"	30.0000		97.3	63-155			
Vinyl Chloride	29.86	1.0	"	30.0000		99.5	70-154			
Bromomethane	24.45	1.0	"	30.0000		81.5	52-176			
Chloroethane	32.12	1.0	"	30.0000		107	72-148			
Trichlorofluoromethane	28.75	1.0	"	30.0000		95.8	70-152			
1,1-Dichloroethylene	49.27	1.0	"	50.0000		98.5	70-148			
Acetone	114.8	10.0	"	104.100		110	43-172			
Methyl Iodide	110.3	1.0	"	112.563		98.0	69-170			
Carbon Disulfide	118.2	1.0	"	106.400		111	72-162			
Methylene Chloride	43.92	5.0	"	50.0000		87.8	68-142			
Acrylonitrile	110.4	5.0	"	100.500		110	67-144			
trans-1,2-Dichloroethylene	47.30	1.0	"	50.0000		94.6	66-148			

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0287 - EPA 5030B										
LCS (1GD0287-BS1)				Prepared: 04/05/23 Analyzed: 04/06/23						
1,1-Dichloroethane	45.20	1.0	ug/L	50.0000		90.4	66-143			
Vinyl Acetate	105.6	5.0	"	103.300		102	43-153			
cis-1,2-Dichloroethylene	50.39	1.0	"	50.0000		101	71-149			
2-Butanone (MEK)	114.1	10.0	"	106.200		107	52-159			
Bromochloromethane	52.19	1.0	"	50.0000		104	69-143			
Chloroform	48.68	1.0	"	50.0000		97.4	69-144			
1,1,1-Trichloroethane	50.77	1.0	"	49.9750		102	62-129			
Carbon Tetrachloride	48.82	1.0	"	50.0000		97.6	63-141			
Benzene	49.33	1.0	"	50.0000		98.7	71-134			
1,2-Dichloroethane	48.19	1.0	"	50.0000		96.4	72-132			
Trichloroethylene	48.45	1.0	"	50.0000		96.9	71-135			
1,2-Dichloropropane	48.85	1.0	"	50.0000		97.7	69-136			
Dibromomethane	65.30	1.0	"	50.0000		131	73-147			
Bromodichloromethane	49.55	1.0	"	50.0000		99.1	68-129			
cis-1,3-Dichloropropene	48.68	1.0	"	50.3250		96.7	65-134			
4-Methyl-2-pentanone (MIBK)	112.7	5.0	"	103.100		109	58-147			
Toluene	49.06	1.0	"	50.0000		98.1	72-133			
trans-1,3-Dichloropropene	47.80	1.0	"	50.4250		94.8	67-130			
1,1,2-Trichloroethane	51.15	1.0	"	50.0000		102	69-135			
Tetrachloroethylene	43.43	1.0	"	50.0000		86.9	69-130			
2-Hexanone (MBK)	122.4	5.0	"	110.300		111	55-144			
Dibromochloromethane	55.31	1.0	"	49.5000		112	73-127			
1,2-Dibromoethane	54.85	1.0	"	50.0000		110	67-132			
Chlorobenzene	47.81	1.0	"	50.0000		95.6	72-123			
1,1,1,2-Tetrachloroethane	52.82	1.0	"	50.0000		106	73-127			
Ethylbenzene	47.56	1.0	"	50.0000		95.1	71-127			
Xylenes, total	140.2	2.0	"	150.000		93.5	74-127			
Styrene	44.68	1.0	"	50.0000		89.4	66-126			
Bromoform	58.91	1.0	"	50.0000		118	68-130			
1,2,3-Trichloropropane	52.05	1.0	"	50.0000		104	63-136			
trans-1,4-Dichloro-2-butene	88.23	5.0	"	102.400		86.2	54-134			
1,1,2,2-Tetrachloroethane	54.57	1.0	"	49.8500		109	61-131			
1,4-Dichlorobenzene	48.55	1.0	"	50.0000		97.1	70-129			
1,2-Dichlorobenzene	47.09	1.0	"	50.0000		94.2	69-126			
1,2-Dibromo-3-chloropropane	58.79	5.0	"	50.0000		118	50-143			

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0287 - EPA 5030B										
LCS Dup (1GD0287-BSD1)				Prepared: 04/05/23 Analyzed: 04/06/23						
Surrogate: Dibromofluoromethane	*48.9*		*ug/L*	*50.3520*		*97.1*	*75-136*			
Surrogate: Dibromofluoromethane	*48.9*		*"*	*50.3520*		*97.1*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*47.0*		*"*	*50.4080*		*93.3*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*47.0*		*"*	*50.4080*		*93.3*	*61-142*			
Surrogate: Toluene-d8	*48.0*		*"*	*50.2360*		*95.6*	*87-116*			
Surrogate: Toluene-d8	*48.0*		*"*	*50.2360*		*95.6*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*49.1*		*"*	*50.4200*		*97.4*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*49.1*		*"*	*50.4200*		*97.4*	*80-116*			
Chloromethane	28.57	1.0	"	30.0000		95.2	63-155	2.15	24	
Vinyl Chloride	28.39	1.0	"	30.0000		94.6	70-154	5.05	25	
Bromomethane	25.92	1.0	"	30.0000		86.4	52-176	5.84	27	
Chloroethane	29.55	1.0	"	30.0000		98.5	72-148	8.33	25	
Trichlorofluoromethane	27.27	1.0	"	30.0000		90.9	70-152	5.28	26	
1,1-Dichloroethylene	47.24	1.0	"	50.0000		94.5	70-148	4.21	24	
Acetone	97.28	10.0	"	104.100		93.4	43-172	16.6	30	
Methyl Iodide	100.2	1.0	"	112.563		89.0	69-170	9.66	30	
Carbon Disulfide	113.8	1.0	"	106.400		107	72-162	3.79	24	
Methylene Chloride	42.62	5.0	"	50.0000		85.2	68-142	3.00	21	
Acrylonitrile	83.12	5.0	"	100.500		82.7	67-144	28.2	24	QR-02
trans-1,2-Dichloroethylene	45.59	1.0	"	50.0000		91.2	66-148	3.68	27	
1,1-Dichloroethane	43.70	1.0	"	50.0000		87.4	66-143	3.37	24	
Vinyl Acetate	23.21	5.0	"	103.300		22.5	43-153	128	30	QM-21
cis-1,2-Dichloroethylene	44.15	1.0	"	50.0000		88.3	71-149	13.2	26	
2-Butanone (MEK)	52.32	10.0	"	106.200		49.3	52-159	74.3	27	QM-21
Bromochloromethane	50.99	1.0	"	50.0000		102	69-143	2.33	23	
Chloroform	47.92	1.0	"	50.0000		95.8	69-144	1.57	23	
1,1,1-Trichloroethane	48.43	1.0	"	49.9750		96.9	62-129	4.72	24	
Carbon Tetrachloride	46.24	1.0	"	50.0000		92.5	63-141	5.43	25	
Benzene	47.54	1.0	"	50.0000		95.1	71-134	3.70	24	
1,2-Dichloroethane	47.20	1.0	"	50.0000		94.4	72-132	2.08	24	
Trichloroethylene	46.54	1.0	"	50.0000		93.1	71-135	4.02	24	
1,2-Dichloropropane	47.60	1.0	"	50.0000		95.2	69-136	2.59	24	
Dibromomethane	58.92	1.0	"	50.0000		118	73-147	10.3	25	
Bromodichloromethane	48.42	1.0	"	50.0000		96.8	68-129	2.31	22	
cis-1,3-Dichloropropene	46.75	1.0	"	50.3250		92.9	65-134	4.04	23	
4-Methyl-2-pentanone (MIBK)	108.3	5.0	"	103.100		105	58-147	3.93	27	
Toluene	47.36	1.0	"	50.0000		94.7	72-133	3.53	24	
trans-1,3-Dichloropropene	48.02	1.0	"	50.4250		95.2	67-130	0.459	24	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0287 - EPA 5030B										
LCS Dup (1GD0287-BSD1)				Prepared: 04/05/23 Analyzed: 04/06/23						
1,1,2-Trichloroethane	49.24	1.0	ug/L	50.0000		98.5	69-135	3.81	23	
Tetrachloroethylene	41.04	1.0	"	50.0000		82.1	69-130	5.66	25	
2-Hexanone (MBK)	109.4	5.0	"	110.300		99.2	55-144	11.2	25	
Dibromochloromethane	54.55	1.0	"	49.5000		110	73-127	1.38	22	
1,2-Dibromoethane	54.24	1.0	"	50.0000		108	67-132	1.12	24	
Chlorobenzene	47.00	1.0	"	50.0000		94.0	72-123	1.71	23	
1,1,1,2-Tetrachloroethane	51.99	1.0	"	50.0000		104	73-127	1.58	24	
Ethylbenzene	46.00	1.0	"	50.0000		92.0	71-127	3.33	26	
Xylenes, total	136.8	2.0	"	150.000		91.2	74-127	2.48	25	
Styrene	38.64	1.0	"	50.0000		77.3	66-126	14.5	23	
Bromoform	58.65	1.0	"	50.0000		117	68-130	0.442	23	
1,2,3-Trichloropropane	51.36	1.0	"	50.0000		103	63-136	1.33	24	
trans-1,4-Dichloro-2-butene	86.74	5.0	"	102.400		84.7	54-134	1.70	27	
1,1,2,2-Tetrachloroethane	52.70	1.0	"	49.8500		106	61-131	3.49	29	
1,4-Dichlorobenzene	47.41	1.0	"	50.0000		94.8	70-129	2.38	24	
1,2-Dichlorobenzene	46.80	1.0	"	50.0000		93.6	69-126	0.618	26	
1,2-Dibromo-3-chloropropane	59.91	5.0	"	50.0000		120	50-143	1.89	30	
Matrix Spike (1GD0287-MS1)		**Source: 1GD0185-01**		Prepared: 04/05/23 Analyzed: 04/07/23						
Surrogate: Dibromofluoromethane	*508*		*ug/L*	*503.520*		*101*	*75-136*			
Surrogate: Dibromofluoromethane	*508*		*"*	*503.520*		*101*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*457*		*"*	*504.080*		*90.7*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*457*		*"*	*504.080*		*90.7*	*61-142*			
Surrogate: Toluene-d8	*506*		*"*	*502.360*		*101*	*82-121*			
Surrogate: Toluene-d8	*506*		*"*	*502.360*		*101*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*498*		*"*	*504.200*		*98.8*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*498*		*"*	*504.200*		*98.8*	*80-116*			
Chloromethane	309.3	10.0	"	300.000	ND	103	61-152			
Vinyl Chloride	322.2	10.0	"	300.000	ND	107	66-149			
Bromomethane	220.1	10.0	"	300.000	ND	73.4	43-171			
Chloroethane	327.8	10.0	"	300.000	ND	109	69-148			
Trichlorofluoromethane	324.4	10.0	"	300.000	ND	108	62-163			
1,1-Dichloroethylene	665.4	10.0	"	500.000	ND	133	70-148			
Acetone	877.7	100	"	1041.00	ND	84.3	45-173			
Methyl Iodide	217.3	10.0	"	1125.63	ND	19.3	62-167			QM-05
Carbon Disulfide	1367	10.0	"	1064.00	ND	128	71-163			
Methylene Chloride	503.8	50.0	"	500.000	ND	101	69-140			
Acrylonitrile	954.3	50.0	"	1005.00	ND	95.0	58-151			
trans-1,2-Dichloroethylene	578.1	10.0	"	500.000	ND	116	69-144			

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0287 - EPA 5030B										
Matrix Spike (1GD0287-MS1)	**Source: 1GD0185-01**			Prepared: 04/05/23 Analyzed: 04/07/23						
1,1-Dichloroethane	513.2	10.0	ug/L	500.000	ND	103	70-138			
Vinyl Acetate	1026	50.0	"	1033.00	ND	99.4	58-142			
cis-1,2-Dichloroethylene	507.2	10.0	"	500.000	ND	101	68-151			
2-Butanone (MEK)	857.4	100	"	1062.00	ND	80.7	50-160			
Bromochloromethane	707.3	10.0	"	500.000	ND	141	65-143			
Chloroform	530.7	10.0	"	500.000	ND	106	71-143			
1,1,1-Trichloroethane	404.8	10.0	"	499.750	ND	81.0	63-133			
Carbon Tetrachloride	297.6	10.0	"	500.000	ND	59.5	63-142			QM-05
Benzene	476.9	10.0	"	500.000	ND	95.4	69-133			
1,2-Dichloroethane	444.1	10.0	"	500.000	ND	88.8	63-138			
Trichloroethylene	500.3	10.0	"	500.000	ND	100	71-133			
1,2-Dichloropropane	445.5	10.0	"	500.000	ND	89.1	69-132			
Dibromomethane	411.0	10.0	"	500.000	ND	82.2	70-147			
Bromodichloromethane	429.8	10.0	"	500.000	ND	86.0	67-130			
cis-1,3-Dichloropropene	139.7	10.0	"	503.250	ND	27.8	61-126			QM-05
4-Methyl-2-pentanone (MIBK)	939.0	50.0	"	1031.00	ND	91.1	55-147			
Toluene	522.9	10.0	"	500.000	ND	105	71-133			
trans-1,3-Dichloropropene	110.2	10.0	"	504.250	ND	21.9	63-124			QM-05
1,1,2-Trichloroethane	399.7	10.0	"	500.000	ND	79.9	69-133			
Tetrachloroethylene	463.1	10.0	"	500.000	ND	92.6	70-124			
2-Hexanone (MBK)	950.4	50.0	"	1103.00	ND	86.2	53-141			
Dibromochloromethane	350.4	10.0	"	495.000	ND	70.8	74-122			QM-05
1,2-Dibromoethane	86.40	10.0	"	500.000	ND	17.3	66-127			QM-05
Chlorobenzene	499.0	10.0	"	500.000	ND	99.8	76-116			
1,1,1,2-Tetrachloroethane	428.3	10.0	"	500.000	ND	85.7	77-121			
Ethylbenzene	496.2	10.0	"	500.000	ND	99.2	73-124			
Xylenes, total	1457	20.0	"	1500.00	ND	97.2	75-123			
Styrene	461.3	10.0	"	500.000	ND	92.3	70-120			
Bromoform	365.9	10.0	"	500.000	ND	73.2	70-124			
1,2,3-Trichloropropane	453.8	10.0	"	500.000	ND	90.8	62-135			
trans-1,4-Dichloro-2-butene	558.5	50.0	"	1024.00	ND	54.5	50-120			
1,1,2,2-Tetrachloroethane	461.4	10.0	"	498.500	ND	92.6	63-126			
1,4-Dichlorobenzene	493.9	10.0	"	500.000	ND	98.8	72-119			
1,2-Dichlorobenzene	474.1	10.0	"	500.000	ND	94.8	71-117			
1,2-Dibromo-3-chloropropane	450.9	50.0	"	500.000	ND	90.2	49-134			

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0287 - EPA 5030B										
Matrix Spike Dup (1GD0287-MSD1)	**Source: 1GD0185-01**			Prepared: 04/05/23 Analyzed: 04/07/23						
Surrogate: Dibromofluoromethane	*503*		*ug/L*	*503.520*		*99.9*	*75-136*			
Surrogate: Dibromofluoromethane	*503*		*"*	*503.520*		*99.9*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*477*		*"*	*504.080*		*94.7*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*477*		*"*	*504.080*		*94.7*	*61-142*			
Surrogate: Toluene-d8	*481*		*"*	*502.360*		*95.7*	*82-121*			
Surrogate: Toluene-d8	*481*		*"*	*502.360*		*95.7*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*513*		*"*	*504.200*		*102*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*513*		*"*	*504.200*		*102*	*80-116*			
Chloromethane	317.2	10.0	"	300.000	ND	106	61-152	2.52	26	
Vinyl Chloride	336.8	10.0	"	300.000	ND	112	66-149	4.43	23	
Bromomethane	370.9	10.0	"	300.000	ND	124	43-171	51.0	29	QM-05
Chloroethane	330.9	10.0	"	300.000	ND	110	69-148	0.941	25	
Trichlorofluoromethane	314.0	10.0	"	300.000	ND	105	62-163	3.26	25	
1,1-Dichloroethylene	538.8	10.0	"	500.000	ND	108	70-148	21.0	22	
Acetone	807.4	100	"	1041.00	ND	77.6	45-173	8.34	30	
Methyl Iodide	1340	10.0	"	1125.63	ND	119	62-167	144	24	QM-05
Carbon Disulfide	1254	10.0	"	1064.00	ND	118	71-163	8.58	22	
Methylene Chloride	470.4	50.0	"	500.000	ND	94.1	69-140	6.86	19	
Acrylonitrile	1036	50.0	"	1005.00	ND	103	58-151	8.18	15	
trans-1,2-Dichloroethylene	507.1	10.0	"	500.000	ND	101	69-144	13.1	22	
1,1-Dichloroethane	479.1	10.0	"	500.000	ND	95.8	70-138	6.87	20	
Vinyl Acetate	1021	50.0	"	1033.00	ND	98.8	58-142	0.528	24	
cis-1,2-Dichloroethylene	500.8	10.0	"	500.000	ND	100	68-151	1.27	22	
2-Butanone (MEK)	985.6	100	"	1062.00	ND	92.8	50-160	13.9	23	
Bromochloromethane	529.6	10.0	"	500.000	ND	106	65-143	28.7	22	QM-05
Chloroform	507.6	10.0	"	500.000	ND	102	71-143	4.45	21	
1,1,1-Trichloroethane	539.7	10.0	"	499.750	ND	108	63-133	28.6	23	QM-05
Carbon Tetrachloride	526.5	10.0	"	500.000	ND	105	63-142	55.6	22	QM-05
Benzene	496.9	10.0	"	500.000	ND	99.4	69-133	4.11	18	
1,2-Dichloroethane	483.2	10.0	"	500.000	ND	96.6	63-138	8.43	20	
Trichloroethylene	492.2	10.0	"	500.000	ND	98.4	71-133	1.63	23	
1,2-Dichloropropane	490.2	10.0	"	500.000	ND	98.0	69-132	9.55	20	
Dibromomethane	623.8	10.0	"	500.000	ND	125	70-147	41.1	22	QM-05
Bromodichloromethane	495.4	10.0	"	500.000	ND	99.1	67-130	14.2	21	
cis-1,3-Dichloropropene	443.6	10.0	"	503.250	ND	88.1	61-126	104	21	QM-05
4-Methyl-2-pentanone (MIBK)	956.8	50.0	"	1031.00	ND	92.8	55-147	1.88	23	
Toluene	486.6	10.0	"	500.000	ND	97.3	71-133	7.19	19	
trans-1,3-Dichloropropene	423.4	10.0	"	504.250	ND	84.0	63-124	117	21	QM-05

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0287 - EPA 5030B										
Matrix Spike Dup (1GD0287-MSD1)	**Source: 1GD0185-01**			Prepared: 04/05/23 Analyzed: 04/07/23						
1,1,2-Trichloroethane	474.0	10.0	ug/L	500.000	ND	94.8	69-133	17.0	19	
Tetrachloroethylene	453.4	10.0	"	500.000	ND	90.7	70-124	2.12	24	
2-Hexanone (MBK)	978.4	50.0	"	1103.00	ND	88.7	53-141	2.90	24	
Dibromochloromethane	537.5	10.0	"	495.000	ND	109	74-122	42.1	21	QM-05
1,2-Dibromoethane	516.5	10.0	"	500.000	ND	103	66-127	143	23	QM-05
Chlorobenzene	491.4	10.0	"	500.000	ND	98.3	76-116	1.53	21	
1,1,1,2-Tetrachloroethane	534.2	10.0	"	500.000	ND	107	77-121	22.0	25	
Ethylbenzene	486.6	10.0	"	500.000	ND	97.3	73-124	1.95	20	
Xylenes, total	1437	20.0	"	1500.00	ND	95.8	75-123	1.44	20	
Styrene	458.0	10.0	"	500.000	ND	91.6	70-120	0.718	23	
Bromoform	548.7	10.0	"	500.000	ND	110	70-124	40.0	22	QM-05
1,2,3-Trichloropropane	488.1	10.0	"	500.000	ND	97.6	62-135	7.28	28	
trans-1,4-Dichloro-2-butene	709.0	50.0	"	1024.00	ND	69.2	50-120	23.7	26	
1,1,2,2-Tetrachloroethane	489.1	10.0	"	498.500	ND	98.1	63-126	5.83	24	
1,4-Dichlorobenzene	495.6	10.0	"	500.000	ND	99.1	72-119	0.344	24	
1,2-Dichlorobenzene	484.9	10.0	"	500.000	ND	97.0	71-117	2.25	24	
1,2-Dibromo-3-chloropropane	503.3	50.0	"	500.000	ND	101	49-134	11.0	28	
Batch 1GD0406 - EPA 5030B										
Blank (1GD0406-BLK1)				Prepared & Analyzed: 04/10/23						
Surrogate: Dibromofluoromethane	*55.7*		*ug/L*	*50.3520*		*111*	*75-136*			
Surrogate: Dibromofluoromethane	*55.7*		*"*	*50.3520*		*111*	*80-126*			
Surrogate: Dibromofluoromethane	*55.7*		*"*	*50.3520*		*111*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*45.2*		*"*	*50.4080*		*89.7*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*45.2*		*"*	*50.4080*		*89.7*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*45.2*		*"*	*50.4080*		*89.7*	*61-142*			
Surrogate: 1,2-Dichloroethane-d4	*45.2*		*"*	*50.4080*		*89.7*	*63-138*			
Surrogate: Toluene-d8	*49.7*		*"*	*50.2360*		*99.0*	*82-121*			
Surrogate: Toluene-d8	*49.7*		*"*	*50.2360*		*99.0*	*87-116*			
Surrogate: Toluene-d8	*49.7*		*"*	*50.2360*		*99.0*	*87-116*			
Surrogate: Toluene-d8	*49.7*		*"*	*50.2360*		*99.0*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*51.5*		*"*	*50.4200*		*102*	*80-116*			
Surrogate: 4-Bromofluorobenzene	*51.5*		*"*	*50.4200*		*102*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*51.5*		*"*	*50.4200*		*102*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*51.5*		*"*	*50.4200*		*102*	*85-111*			
Dichlorodifluoromethane	ND	1.0	"							
Chloromethane	ND	1.0	"							
Chloromethane	ND	1.0	"							

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
Blank (1GD0406-BLK1)				Prepared & Analyzed: 04/10/23						
Vinyl Chloride	ND	1.0	ug/L							
Vinyl Chloride	ND	1.0	"							
Bromomethane	ND	1.0	"							
Bromomethane	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroethane	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
Acrolein	ND	10.0	"							
1,1-Dichloroethylene	ND	1.0	"							
1,1-Dichloroethylene	ND	1.0	"							
Acetone	ND	10.0	"							
Acetone	ND	10.0	"							
Methyl Iodide	ND	1.0	"							
Methyl Iodide	ND	2.0	"							
Carbon Disulfide	ND	1.0	"							
Carbon Disulfide	ND	1.0	"							
Acetonitrile	ND	10.0	"							
Methylene Chloride	ND	5.0	"							
Methylene Chloride	ND	5.0	"							
Acrylonitrile	ND	5.0	"							
Acrylonitrile	ND	5.0	"							
trans-1,2-Dichloroethylene	ND	1.0	"							
trans-1,2-Dichloroethylene	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
Vinyl Acetate	ND	5.0	"							
Vinyl Acetate	ND	5.0	"							
2,2-Dichloropropane	ND	1.0	"							
cis-1,2-Dichloroethylene	ND	1.0	"							
cis-1,2-Dichloroethylene	ND	1.0	"							
2-Butanone (MEK)	ND	5.0	"							
2-Butanone (MEK)	ND	10.0	"							
Bromochloromethane	ND	1.0	"							
Bromochloromethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloroform	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							

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Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
Blank (1GD0406-BLK1)				Prepared & Analyzed: 04/10/23						
1,1-Dichloropropene	ND	1.0	ug/L							
Carbon Tetrachloride	ND	1.0	"							
Carbon Tetrachloride	ND	1.0	"							
Benzene	ND	1.0	"							
Benzene	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Trichloroethylene	ND	1.0	"							
Trichloroethylene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
Dibromomethane	ND	1.0	"							
Dibromomethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
4-Methyl-2-pentanone (MIBK)	ND	5.0	"							
4-Methyl-2-pentanone (MIBK)	ND	5.0	"							
Toluene	ND	1.0	"							
Toluene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
Ethyl Methacrylate	ND	10.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
Tetrachloroethylene	ND	1.0	"							
Tetrachloroethylene	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2-Hexanone (MBK)	ND	5.0	"							
2-Hexanone (MBK)	ND	5.0	"							
Dibromochloromethane	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dibromoethane	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							

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Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
Blank (1GD0406-BLK1)				Prepared & Analyzed: 04/10/23						
Ethylbenzene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	2.0	"							
Xylenes, total	ND	2.0	"							
Styrene	ND	1.0	"							
Styrene	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromoform	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
trans-1,4-Dichloro-2-butene	ND	5.0	"							
trans-1,4-Dichloro-2-butene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
LCS (1GD0406-BS1)				Prepared & Analyzed: 04/10/23						
Surrogate: Dibromofluoromethane	*51.7*		*ug/L*	*50.3520*		*103*	*75-136*			
Surrogate: Dibromofluoromethane	*51.7*		*"*	*50.3520*		*103*	*80-126*			
Surrogate: Dibromofluoromethane	*51.7*		*"*	*50.3520*		*103*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*44.2*		*"*	*50.4080*		*87.8*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*44.2*		*"*	*50.4080*		*87.8*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*44.2*		*"*	*50.4080*		*87.8*	*61-142*			
Surrogate: 1,2-Dichloroethane-d4	*44.2*		*"*	*50.4080*		*87.8*	*63-138*			
Surrogate: Toluene-d8	*50.5*		*"*	*50.2360*		*101*	*87-116*			
Surrogate: Toluene-d8	*50.5*		*"*	*50.2360*		*101*	*82-121*			
Surrogate: Toluene-d8	*50.5*		*"*	*50.2360*		*101*	*87-116*			
Surrogate: Toluene-d8	*50.5*		*"*	*50.2360*		*101*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*49.7*		*"*	*50.4200*		*98.7*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*49.7*		*"*	*50.4200*		*98.7*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*49.7*		*"*	*50.4200*		*98.7*	*80-116*			
Surrogate: 4-Bromofluorobenzene	*49.7*		*"*	*50.4200*		*98.7*	*85-111*			

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Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
LCS (1GD0406-BS1)				Prepared & Analyzed: 04/10/23						
Dichlorodifluoromethane	19.64	1.0	ug/L	30.0000		65.5	44-139			
Chloromethane	25.18	1.0	"	30.0000		83.9	63-155			
Chloromethane	25.18	1.0	"	30.0000		83.9	56-152			
Vinyl Chloride	23.50	1.0	"	30.0000		78.3	70-154			
Vinyl Chloride	23.50	1.0	"	30.0000		78.3	62-151			
Bromomethane	22.73	1.0	"	30.0000		75.8	52-176			
Bromomethane	22.73	1.0	"	30.0000		75.8	61-162			
Chloroethane	23.75	1.0	"	30.0000		79.2	72-148			
Chloroethane	23.75	1.0	"	30.0000		79.2	69-138			
Trichlorofluoromethane	21.37	1.0	"	30.0000		71.2	70-152			
Trichlorofluoromethane	21.37	1.0	"	30.0000		71.2	70-143			
Acrolein	89.04	10.0	"	100.200		88.9	27-144			
1,1-Dichloroethylene	41.73	1.0	"	50.0000		83.5	76-140			
1,1-Dichloroethylene	41.73	1.0	"	50.0000		83.5	70-148			
Acetone	95.74	10.0	"	104.100		92.0	43-172			
Acetone	95.74	10.0	"	104.100		92.0	51-156			
Methyl Iodide	95.84	1.0	"	112.563		85.1	69-170			
Methyl Iodide	95.84	2.0	"	112.563		85.1	81-166			
Carbon Disulfide	86.12	1.0	"	106.400		80.9	72-162			
Carbon Disulfide	86.12	1.0	"	106.400		80.9	76-147			
Acetonitrile	100.3	10.0	"	101.996		98.3	46-156			
Methylene Chloride	39.20	5.0	"	50.0000		78.4	68-142			
Methylene Chloride	39.20	5.0	"	50.0000		78.4	67-139			
Acrylonitrile	84.85	5.0	"	100.500		84.4	67-144			
Acrylonitrile	84.85	5.0	"	100.500		84.4	67-144			
trans-1,2-Dichloroethylene	39.70	1.0	"	50.0000		79.4	66-148			
trans-1,2-Dichloroethylene	39.70	1.0	"	50.0000		79.4	72-135			
1,1-Dichloroethane	39.47	1.0	"	50.0000		78.9	66-143			
1,1-Dichloroethane	39.47	1.0	"	50.0000		78.9	72-129			
Vinyl Acetate	146.3	5.0	"	103.300		142	43-153			
Vinyl Acetate	146.3	5.0	"	103.300		142	24-144			
2,2-Dichloropropane	37.28	1.0	"	50.0000		74.6	64-131			
cis-1,2-Dichloroethylene	47.15	1.0	"	50.0000		94.3	81-137			
cis-1,2-Dichloroethylene	47.15	1.0	"	50.0000		94.3	71-149			
2-Butanone (MEK)	95.01	5.0	"	106.200		89.5	47-149			
2-Butanone (MEK)	95.01	10.0	"	106.200		89.5	52-159			
Bromochloromethane	42.78	1.0	"	50.0000		85.6	69-143			
Bromochloromethane	42.78	1.0	"	50.0000		85.6	75-138			
Chloroform	38.51	1.0	"	50.0000		77.0	78-131			QS-01

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Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
LCS (1GD0406-BS1)				Prepared & Analyzed: 04/10/23						
Chloroform	38.51	1.0	ug/L	50.0000		77.0	69-144			
1,1,1-Trichloroethane	34.06	1.0	"	49.9750		68.2	67-121			
1,1,1-Trichloroethane	34.06	1.0	"	49.9750		68.2	62-129			
1,1-Dichloropropene	39.97	1.0	"	50.0000		79.9	80-131			QS-01
Carbon Tetrachloride	40.98	1.0	"	50.0000		82.0	71-131			
Carbon Tetrachloride	40.98	1.0	"	50.0000		82.0	63-141			
Benzene	46.31	1.0	"	50.0000		92.6	71-134			
Benzene	46.31	1.0	"	50.0000		92.6	77-130			
1,2-Dichloroethane	45.99	1.0	"	50.0000		92.0	76-126			
1,2-Dichloroethane	45.99	1.0	"	50.0000		92.0	72-132			
Trichloroethylene	37.51	1.0	"	50.0000		75.0	80-124			QS-01
Trichloroethylene	37.51	1.0	"	50.0000		75.0	71-135			
1,2-Dichloropropane	49.20	1.0	"	50.0000		98.4	69-136			
1,2-Dichloropropane	49.20	1.0	"	50.0000		98.4	81-125			
Dibromomethane	48.67	1.0	"	50.0000		97.3	84-134			
Dibromomethane	48.67	1.0	"	50.0000		97.3	73-147			
Bromodichloromethane	45.66	1.0	"	50.0000		91.3	68-129			
Bromodichloromethane	45.66	1.0	"	50.0000		91.3	78-121			
cis-1,3-Dichloropropene	46.86	1.0	"	50.3250		93.1	65-134			
cis-1,3-Dichloropropene	46.86	1.0	"	50.3250		93.1	78-120			
4-Methyl-2-pentanone (MIBK)	105.0	5.0	"	103.100		102	67-143			
4-Methyl-2-pentanone (MIBK)	105.0	5.0	"	103.100		102	58-147			
Toluene	44.69	1.0	"	50.0000		89.4	72-133			
Toluene	44.69	1.0	"	50.0000		89.4	77-130			
trans-1,3-Dichloropropene	46.40	1.0	"	50.4250		92.0	67-130			
trans-1,3-Dichloropropene	46.40	1.0	"	50.4250		92.0	77-123			
Ethyl Methacrylate	117.0	10.0	"	122.700		95.3	52-148			
1,1,2-Trichloroethane	44.38	1.0	"	50.0000		88.8	78-124			
1,1,2-Trichloroethane	44.38	1.0	"	50.0000		88.8	69-135			
Tetrachloroethylene	61.21	1.0	"	50.0000		122	73-124			
Tetrachloroethylene	61.21	1.0	"	50.0000		122	69-130			
1,3-Dichloropropane	53.31	1.0	"	50.0000		107	78-131			
2-Hexanone (MBK)	118.6	5.0	"	110.300		107	57-145			
2-Hexanone (MBK)	118.6	5.0	"	110.300		107	55-144			
Dibromochloromethane	48.62	1.0	"	49.5000		98.2	78-126			
Dibromochloromethane	48.62	1.0	"	49.5000		98.2	73-127			
1,2-Dibromoethane	47.71	1.0	"	50.0000		95.4	69-126			
1,2-Dibromoethane	47.71	1.0	"	50.0000		95.4	67-132			
Chlorobenzene	44.84	1.0	"	50.0000		89.7	72-123			

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
LCS (1GD0406-BS1)				Prepared & Analyzed: 04/10/23						
Chlorobenzene	44.84	1.0	ug/L	50.0000		89.7	76-120			
1,1,1,2-Tetrachloroethane	45.70	1.0	"	50.0000		91.4	81-122			
1,1,1,2-Tetrachloroethane	45.70	1.0	"	50.0000		91.4	73-127			
Ethylbenzene	45.91	1.0	"	50.0000		91.8	74-121			
Ethylbenzene	45.91	1.0	"	50.0000		91.8	71-127			
Xylenes, total	137.7	2.0	"	150.000		91.8	74-127			
Xylenes, total	137.7	2.0	"	150.000		91.8	75-122			
Styrene	44.35	1.0	"	50.0000		88.7	66-126			
Styrene	44.35	1.0	"	50.0000		88.7	76-119			
Bromoform	47.86	1.0	"	50.0000		95.7	68-130			
Bromoform	47.86	1.0	"	50.0000		95.7	74-127			
1,2,3-Trichloropropane	47.10	1.0	"	50.0000		94.2	63-136			
1,2,3-Trichloropropane	47.10	1.0	"	50.0000		94.2	73-125			
trans-1,4-Dichloro-2-butene	89.47	5.0	"	102.400		87.4	54-134			
trans-1,4-Dichloro-2-butene	89.47	5.0	"	102.400		87.4	55-135			
1,1,2,2-Tetrachloroethane	52.22	1.0	"	49.8500		105	61-131			
1,1,2,2-Tetrachloroethane	52.22	1.0	"	49.8500		105	58-133			
1,3-Dichlorobenzene	45.23	1.0	"	50.0000		90.5	70-125			
1,4-Dichlorobenzene	46.38	1.0	"	50.0000		92.8	69-128			
1,4-Dichlorobenzene	46.38	1.0	"	50.0000		92.8	70-129			
1,2-Dichlorobenzene	45.58	1.0	"	50.0000		91.2	70-125			
1,2-Dichlorobenzene	45.58	1.0	"	50.0000		91.2	69-126			
1,2-Dibromo-3-chloropropane	47.07	1.0	"	50.0000		94.1	54-147			
1,2-Dibromo-3-chloropropane	47.07	5.0	"	50.0000		94.1	50-143			
1,2,4-Trichlorobenzene	44.85	1.0	"	50.0000		89.7	55-149			
LCS Dup (1GD0406-BSD1)				Prepared & Analyzed: 04/10/23						
Surrogate: Dibromofluoromethane	*51.6*		*ug/L*	*50.3520*		*102*	*80-126*			
Surrogate: Dibromofluoromethane	*51.6*		*"*	*50.3520*		*102*	*75-136*			
Surrogate: Dibromofluoromethane	*51.6*		*"*	*50.3520*		*102*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*44.7*		*"*	*50.4080*		*88.6*	*61-142*			
Surrogate: 1,2-Dichloroethane-d4	*44.7*		*"*	*50.4080*		*88.6*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*44.7*		*"*	*50.4080*		*88.6*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*44.7*		*"*	*50.4080*		*88.6*	*63-138*			
Surrogate: Toluene-d8	*50.5*		*"*	*50.2360*		*100*	*82-121*			
Surrogate: Toluene-d8	*50.5*		*"*	*50.2360*		*100*	*87-116*			
Surrogate: Toluene-d8	*50.5*		*"*	*50.2360*		*100*	*87-116*			
Surrogate: Toluene-d8	*50.5*		*"*	*50.2360*		*100*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*50.0*		*"*	*50.4200*		*99.3*	*85-111*			

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
LCS Dup (1GD0406-BSD1)				Prepared & Analyzed: 04/10/23						
Surrogate: 4-Bromofluorobenzene	*50.0*		*ug/L*	*50.4200*		*99.3*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*50.0*		*"*	*50.4200*		*99.3*	*80-116*			
Surrogate: 4-Bromofluorobenzene	*50.0*		*"*	*50.4200*		*99.3*	*85-111*			
Dichlorodifluoromethane	19.31	1.0	"	30.0000		64.4	44-139	1.69	30	
Chloromethane	24.95	1.0	"	30.0000		83.2	56-152	0.918	30	
Chloromethane	24.95	1.0	"	30.0000		83.2	63-155	0.918	24	
Vinyl Chloride	23.06	1.0	"	30.0000		76.9	62-151	1.89	28	
Vinyl Chloride	23.06	1.0	"	30.0000		76.9	70-154	1.89	25	
Bromomethane	22.65	1.0	"	30.0000		75.5	61-162	0.353	28	
Bromomethane	22.65	1.0	"	30.0000		75.5	52-176	0.353	27	
Chloroethane	23.61	1.0	"	30.0000		78.7	72-148	0.591	25	
Chloroethane	23.61	1.0	"	30.0000		78.7	69-138	0.591	29	
Trichlorofluoromethane	20.85	1.0	"	30.0000		69.5	70-152	2.46	26	QS-01
Trichlorofluoromethane	20.85	1.0	"	30.0000		69.5	70-143	2.46	27	QS-01
Acrolein	89.42	10.0	"	100.200		89.2	27-144	0.426	30	
1,1-Dichloroethylene	41.12	1.0	"	50.0000		82.2	70-148	1.47	24	
1,1-Dichloroethylene	41.12	1.0	"	50.0000		82.2	76-140	1.47	30	
Acetone	97.84	10.0	"	104.100		94.0	51-156	2.17	30	
Acetone	97.84	10.0	"	104.100		94.0	43-172	2.17	30	
Methyl Iodide	94.64	1.0	"	112.563		84.1	69-170	1.26	30	
Methyl Iodide	94.64	2.0	"	112.563		84.1	81-166	1.26	29	
Carbon Disulfide	84.72	1.0	"	106.400		79.6	72-162	1.64	24	
Carbon Disulfide	84.72	1.0	"	106.400		79.6	76-147	1.64	27	
Acetonitrile	102.5	10.0	"	101.996		100	46-156	2.15	30	
Methylene Chloride	39.68	5.0	"	50.0000		79.4	68-142	1.22	21	
Methylene Chloride	39.68	5.0	"	50.0000		79.4	67-139	1.22	26	
Acrylonitrile	85.73	5.0	"	100.500		85.3	67-144	1.03	24	
Acrylonitrile	85.73	5.0	"	100.500		85.3	67-144	1.03	24	
trans-1,2-Dichloroethylene	39.42	1.0	"	50.0000		78.8	72-135	0.708	28	
trans-1,2-Dichloroethylene	39.42	1.0	"	50.0000		78.8	66-148	0.708	27	
1,1-Dichloroethane	39.28	1.0	"	50.0000		78.6	66-143	0.483	24	
1,1-Dichloroethane	39.28	1.0	"	50.0000		78.6	72-129	0.483	26	
Vinyl Acetate	108.5	5.0	"	103.300		105	43-153	29.6	30	
Vinyl Acetate	108.5	5.0	"	103.300		105	24-144	29.6	30	
2,2-Dichloropropane	36.57	1.0	"	50.0000		73.1	64-131	1.92	26	
cis-1,2-Dichloroethylene	46.92	1.0	"	50.0000		93.8	71-149	0.489	26	
cis-1,2-Dichloroethylene	46.92	1.0	"	50.0000		93.8	81-137	0.489	27	
2-Butanone (MEK)	94.31	5.0	"	106.200		88.8	47-149	0.739	30	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
LCS Dup (1GD0406-BSD1)				Prepared & Analyzed: 04/10/23						
2-Butanone (MEK)	94.31	10.0	ug/L	106.200		88.8	52-159	0.739	27	
Bromochloromethane	42.81	1.0	"	50.0000		85.6	75-138	0.0701	24	
Bromochloromethane	42.81	1.0	"	50.0000		85.6	69-143	0.0701	23	
Chloroform	38.49	1.0	"	50.0000		77.0	78-131	0.0519	27	QS-01
Chloroform	38.49	1.0	"	50.0000		77.0	69-144	0.0519	23	
1,1,1-Trichloroethane	33.52	1.0	"	49.9750		67.1	62-129	1.60	24	
1,1,1-Trichloroethane	33.52	1.0	"	49.9750		67.1	67-121	1.60	28	
1,1-Dichloropropene	39.00	1.0	"	50.0000		78.0	80-131	2.46	30	QS-01
Carbon Tetrachloride	40.38	1.0	"	50.0000		80.8	63-141	1.47	25	
Carbon Tetrachloride	40.38	1.0	"	50.0000		80.8	71-131	1.47	28	
Benzene	46.24	1.0	"	50.0000		92.5	77-130	0.151	25	
Benzene	46.24	1.0	"	50.0000		92.5	71-134	0.151	24	
1,2-Dichloroethane	46.80	1.0	"	50.0000		93.6	76-126	1.75	24	
1,2-Dichloroethane	46.80	1.0	"	50.0000		93.6	72-132	1.75	24	
Trichloroethylene	37.54	1.0	"	50.0000		75.1	71-135	0.0800	24	
Trichloroethylene	37.54	1.0	"	50.0000		75.1	80-124	0.0800	27	QS-01
1,2-Dichloropropane	49.57	1.0	"	50.0000		99.1	81-125	0.749	25	
1,2-Dichloropropane	49.57	1.0	"	50.0000		99.1	69-136	0.749	24	
Dibromomethane	50.06	1.0	"	50.0000		100	73-147	2.82	25	
Dibromomethane	50.06	1.0	"	50.0000		100	84-134	2.82	23	
Bromodichloromethane	45.67	1.0	"	50.0000		91.3	78-121	0.0219	25	
Bromodichloromethane	45.67	1.0	"	50.0000		91.3	68-129	0.0219	22	
cis-1,3-Dichloropropene	47.07	1.0	"	50.3250		93.5	78-120	0.447	26	
cis-1,3-Dichloropropene	47.07	1.0	"	50.3250		93.5	65-134	0.447	23	
4-Methyl-2-pentanone (MIBK)	107.2	5.0	"	103.100		104	67-143	2.16	26	
4-Methyl-2-pentanone (MIBK)	107.2	5.0	"	103.100		104	58-147	2.16	27	
Toluene	44.39	1.0	"	50.0000		88.8	77-130	0.674	27	
Toluene	44.39	1.0	"	50.0000		88.8	72-133	0.674	24	
trans-1,3-Dichloropropene	47.01	1.0	"	50.4250		93.2	67-130	1.31	24	
trans-1,3-Dichloropropene	47.01	1.0	"	50.4250		93.2	77-123	1.31	28	
Ethyl Methacrylate	119.5	10.0	"	122.700		97.4	52-148	2.11	30	
1,1,2-Trichloroethane	44.49	1.0	"	50.0000		89.0	69-135	0.248	23	
1,1,2-Trichloroethane	44.49	1.0	"	50.0000		89.0	78-124	0.248	24	
Tetrachloroethylene	60.24	1.0	"	50.0000		120	73-124	1.60	26	
Tetrachloroethylene	60.24	1.0	"	50.0000		120	69-130	1.60	25	
1,3-Dichloropropane	53.74	1.0	"	50.0000		107	78-131	0.803	24	
2-Hexanone (MBK)	121.1	5.0	"	110.300		110	57-145	2.09	30	
2-Hexanone (MBK)	121.1	5.0	"	110.300		110	55-144	2.09	25	
Dibromochloromethane	49.07	1.0	"	49.5000		99.1	73-127	0.921	22	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
LCS Dup (1GD0406-BSD1)				Prepared & Analyzed: 04/10/23						
Dibromochloromethane	49.07	1.0	ug/L	49.5000		99.1	78-126	0.921	23	
1,2-Dibromoethane	47.90	1.0	"	50.0000		95.8	69-126	0.397	22	
1,2-Dibromoethane	47.90	1.0	"	50.0000		95.8	67-132	0.397	24	
Chlorobenzene	44.78	1.0	"	50.0000		89.6	72-123	0.134	23	
Chlorobenzene	44.78	1.0	"	50.0000		89.6	76-120	0.134	25	
1,1,1,2-Tetrachloroethane	45.53	1.0	"	50.0000		91.1	81-122	0.373	23	
1,1,1,2-Tetrachloroethane	45.53	1.0	"	50.0000		91.1	73-127	0.373	24	
Ethylbenzene	45.40	1.0	"	50.0000		90.8	71-127	1.12	26	
Ethylbenzene	45.40	1.0	"	50.0000		90.8	74-121	1.12	27	
Xylenes, total	136.3	2.0	"	150.000		90.9	75-122	1.02	26	
Xylenes, total	136.3	2.0	"	150.000		90.9	74-127	1.02	25	
Styrene	44.28	1.0	"	50.0000		88.6	66-126	0.158	23	
Styrene	44.28	1.0	"	50.0000		88.6	76-119	0.158	26	
Bromoform	49.38	1.0	"	50.0000		98.8	68-130	3.13	23	
Bromoform	49.38	1.0	"	50.0000		98.8	74-127	3.13	22	
1,2,3-Trichloropropane	48.00	1.0	"	50.0000		96.0	63-136	1.89	24	
1,2,3-Trichloropropane	48.00	1.0	"	50.0000		96.0	73-125	1.89	20	
trans-1,4-Dichloro-2-butene	90.29	5.0	"	102.400		88.2	55-135	0.912	26	
trans-1,4-Dichloro-2-butene	90.29	5.0	"	102.400		88.2	54-134	0.912	27	
1,1,2,2-Tetrachloroethane	51.22	1.0	"	49.8500		103	58-133	1.93	28	
1,1,2,2-Tetrachloroethane	51.22	1.0	"	49.8500		103	61-131	1.93	29	
1,3-Dichlorobenzene	45.46	1.0	"	50.0000		90.9	70-125	0.507	27	
1,4-Dichlorobenzene	47.52	1.0	"	50.0000		95.0	70-129	2.43	24	
1,4-Dichlorobenzene	47.52	1.0	"	50.0000		95.0	69-128	2.43	29	
1,2-Dichlorobenzene	46.98	1.0	"	50.0000		94.0	70-125	3.03	25	
1,2-Dichlorobenzene	46.98	1.0	"	50.0000		94.0	69-126	3.03	26	
1,2-Dibromo-3-chloropropane	48.77	1.0	"	50.0000		97.5	54-147	3.55	29	
1,2-Dibromo-3-chloropropane	48.77	5.0	"	50.0000		97.5	50-143	3.55	30	
1,2,4-Trichlorobenzene	45.85	1.0	"	50.0000		91.7	55-149	2.21	30	

HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
Matrix Spike (1GD0406-MS1)	**Source: 1GD0185-09**			Prepared & Analyzed: 04/10/23						
Surrogate: Dibromofluoromethane	*491*		*ug/L*	*503.520*		*97.5*	*80-126*			
Surrogate: Dibromofluoromethane	*491*		*"*	*503.520*		*97.5*	*75-136*			
Surrogate: Dibromofluoromethane	*491*		*"*	*503.520*		*97.5*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*467*		*"*	*504.080*		*92.7*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*467*		*"*	*504.080*		*92.7*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*467*		*"*	*504.080*		*92.7*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*467*		*"*	*504.080*		*92.7*	*61-142*			
Surrogate: Toluene-d8	*511*		*"*	*502.360*		*102*	*87-116*			
Surrogate: Toluene-d8	*511*		*"*	*502.360*		*102*	*87-116*			
Surrogate: Toluene-d8	*511*		*"*	*502.360*		*102*	*87-116*			
Surrogate: Toluene-d8	*511*		*"*	*502.360*		*102*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*503*		*"*	*504.200*		*99.7*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*503*		*"*	*504.200*		*99.7*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*503*		*"*	*504.200*		*99.7*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*503*		*"*	*504.200*		*99.7*	*80-116*			
Dichlorodifluoromethane	214.5	10.0	"	300.000	ND	71.5	47-137			
Chloromethane	281.4	10.0	"	300.000	ND	93.8	61-152			
Chloromethane	281.4	10.0	"	300.000	ND	93.8	49-154			
Vinyl Chloride	266.2	10.0	"	300.000	ND	88.7	66-149			
Vinyl Chloride	266.2	10.0	"	300.000	ND	88.7	61-152			
Bromomethane	208.7	10.0	"	300.000	ND	69.6	43-171			
Bromomethane	208.7	10.0	"	300.000	ND	69.6	47-168			
Chloroethane	265.3	10.0	"	300.000	ND	88.4	61-148			
Chloroethane	265.3	10.0	"	300.000	ND	88.4	69-148			
Trichlorofluoromethane	232.9	10.0	"	300.000	ND	77.6	73-147			
Trichlorofluoromethane	232.9	10.0	"	300.000	ND	77.6	62-163			
Acrolein	1027	100	"	1002.00	ND	102	20-164			
1,1-Dichloroethylene	459.4	10.0	"	500.000	ND	91.9	68-153			
1,1-Dichloroethylene	459.4	10.0	"	500.000	ND	91.9	70-148			
Acetone	1205	100	"	1041.00	ND	116	45-173			
Acetone	1205	100	"	1041.00	ND	116	45-175			
Methyl Iodide	820.8	10.0	"	1125.63	ND	72.9	62-167			
Methyl Iodide	820.8	20.0	"	1125.63	ND	72.9	79-167			QM-19
Carbon Disulfide	915.4	10.0	"	1064.00	ND	86.0	71-163			
Carbon Disulfide	915.4	10.0	"	1064.00	ND	86.0	72-156			
Acetonitrile	1203	100	"	1019.96	ND	118	38-166			
Methylene Chloride	426.7	50.0	"	500.000	ND	85.3	64-143			
Methylene Chloride	426.7	50.0	"	500.000	ND	85.3	69-140			

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
Matrix Spike (1GD0406-MS1)	**Source: 1GD0185-09**			Prepared & Analyzed: 04/10/23						
Acrylonitrile	1007	50.0	ug/L	1005.00	ND	100	58-151			
Acrylonitrile	1007	50.0	"	1005.00	ND	100	58-151			
trans-1,2-Dichloroethylene	432.3	10.0	"	500.000	ND	86.5	69-144			
trans-1,2-Dichloroethylene	432.3	10.0	"	500.000	ND	86.5	65-145			
1,1-Dichloroethane	425.0	10.0	"	500.000	ND	85.0	70-138			
1,1-Dichloroethane	425.0	10.0	"	500.000	ND	85.0	68-136			
Vinyl Acetate	1064	50.0	"	1033.00	ND	103	58-143			
Vinyl Acetate	1064	50.0	"	1033.00	ND	103	58-142			
2,2-Dichloropropane	352.5	10.0	"	500.000	ND	70.5	50-118			
cis-1,2-Dichloroethylene	509.0	10.0	"	500.000	ND	102	67-153			
cis-1,2-Dichloroethylene	509.0	10.0	"	500.000	ND	102	68-151			
2-Butanone (MEK)	1213	50.0	"	1062.00	ND	114	52-159			
2-Butanone (MEK)	1213	100	"	1062.00	ND	114	50-160			
Bromochloromethane	470.7	10.0	"	500.000	ND	94.1	65-143			
Bromochloromethane	470.7	10.0	"	500.000	ND	94.1	61-151			
Chloroform	410.7	10.0	"	500.000	ND	82.1	77-132			
Chloroform	410.7	10.0	"	500.000	ND	82.1	71-143			
1,1,1-Trichloroethane	359.4	10.0	"	499.750	ND	71.9	71-118			
1,1,1-Trichloroethane	359.4	10.0	"	499.750	ND	71.9	63-133			
1,1-Dichloropropene	425.9	10.0	"	500.000	ND	85.2	82-128			
Carbon Tetrachloride	430.7	10.0	"	500.000	ND	86.1	63-142			
Carbon Tetrachloride	430.7	10.0	"	500.000	ND	86.1	71-133			
Benzene	481.6	10.0	"	500.000	ND	96.3	69-133			
Benzene	481.6	10.0	"	500.000	ND	96.3	81-125			
1,2-Dichloroethane	485.8	10.0	"	500.000	ND	97.2	63-138			
1,2-Dichloroethane	485.8	10.0	"	500.000	ND	97.2	75-125			
Trichloroethylene	423.9	10.0	"	500.000	ND	84.8	71-133			
Trichloroethylene	423.9	10.0	"	500.000	ND	84.8	83-120			
1,2-Dichloropropane	513.3	10.0	"	500.000	ND	103	80-124			
1,2-Dichloropropane	513.3	10.0	"	500.000	ND	103	69-132			
Dibromomethane	511.3	10.0	"	500.000	ND	102	70-147			
Dibromomethane	511.3	10.0	"	500.000	ND	102	84-131			
Bromodichloromethane	460.6	10.0	"	500.000	ND	92.1	79-118			
Bromodichloromethane	460.6	10.0	"	500.000	ND	92.1	67-130			
cis-1,3-Dichloropropene	469.6	10.0	"	503.250	ND	93.3	61-126			
cis-1,3-Dichloropropene	469.6	10.0	"	503.250	ND	93.3	75-116			
4-Methyl-2-pentanone (MIBK)	1276	50.0	"	1031.00	ND	124	65-149			
4-Methyl-2-pentanone (MIBK)	1276	50.0	"	1031.00	ND	124	55-147			
Toluene	460.7	10.0	"	500.000	ND	92.1	71-133			

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
Matrix Spike (1GD0406-MS1)	**Source: 1GD0185-09**			Prepared & Analyzed: 04/10/23						
Toluene	460.7	10.0	ug/L	500.000	ND	92.1	82-123			
trans-1,3-Dichloropropene	461.4	10.0	"	504.250	ND	91.5	75-117			
trans-1,3-Dichloropropene	461.4	10.0	"	504.250	ND	91.5	63-124			
Ethyl Methacrylate	1341	100	"	1227.00	ND	109	73-135			
1,1,2-Trichloroethane	466.7	10.0	"	500.000	ND	93.3	77-122			
1,1,2-Trichloroethane	466.7	10.0	"	500.000	ND	93.3	69-133			
Tetrachloroethylene	611.6	10.0	"	500.000	ND	122	74-120			QS-02
Tetrachloroethylene	611.6	10.0	"	500.000	ND	122	70-124			
1,3-Dichloropropane	553.3	10.0	"	500.000	ND	111	80-127			
2-Hexanone (MBK)	1460	50.0	"	1103.00	ND	132	57-150			
2-Hexanone (MBK)	1460	50.0	"	1103.00	ND	132	53-141			
Dibromochloromethane	475.8	10.0	"	495.000	ND	96.1	80-120			
Dibromochloromethane	475.8	10.0	"	495.000	ND	96.1	74-122			
1,2-Dibromoethane	487.3	10.0	"	500.000	ND	97.5	67-125			
1,2-Dibromoethane	487.3	10.0	"	500.000	ND	97.5	66-127			
Chlorobenzene	453.7	10.0	"	500.000	ND	90.7	76-116			
Chlorobenzene	453.7	10.0	"	500.000	ND	90.7	81-113			
1,1,1,2-Tetrachloroethane	458.9	10.0	"	500.000	ND	91.8	77-121			
1,1,1,2-Tetrachloroethane	458.9	10.0	"	500.000	ND	91.8	80-119			
Ethylbenzene	469.8	10.0	"	500.000	ND	94.0	73-124			
Ethylbenzene	469.8	10.0	"	500.000	ND	94.0	78-114			
Xylenes, total	1431	20.0	"	1500.00	ND	95.4	77-116			
Xylenes, total	1431	20.0	"	1500.00	ND	95.4	75-123			
Styrene	454.4	10.0	"	500.000	ND	90.9	70-120			
Styrene	454.4	10.0	"	500.000	ND	90.9	78-114			
Bromoform	467.3	10.0	"	500.000	ND	93.5	69-125			
Bromoform	467.3	10.0	"	500.000	ND	93.5	70-124			
1,2,3-Trichloropropane	509.9	10.0	"	500.000	ND	102	72-125			
1,2,3-Trichloropropane	509.9	10.0	"	500.000	ND	102	62-135			
trans-1,4-Dichloro-2-butene	921.7	50.0	"	1024.00	ND	90.0	48-131			
trans-1,4-Dichloro-2-butene	921.7	50.0	"	1024.00	ND	90.0	50-120			
1,1,2,2-Tetrachloroethane	542.7	10.0	"	498.500	ND	109	63-126			
1,1,2,2-Tetrachloroethane	542.7	10.0	"	498.500	ND	109	51-138			
1,3-Dichlorobenzene	458.4	10.0	"	500.000	ND	91.7	70-122			
1,4-Dichlorobenzene	470.5	10.0	"	500.000	ND	94.1	70-124			
1,4-Dichlorobenzene	470.5	10.0	"	500.000	ND	94.1	72-119			
1,2-Dichlorobenzene	467.1	10.0	"	500.000	ND	93.4	68-123			
1,2-Dichlorobenzene	467.1	10.0	"	500.000	ND	93.4	71-117			
1,2-Dibromo-3-chloropropane	522.7	50.0	"	500.000	ND	105	49-134			

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
Matrix Spike (1GD0406-MS1)		**Source: 1GD0185-09**		Prepared & Analyzed: 04/10/23						
1,2-Dibromo-3-chloropropane	522.7	10.0	ug/L	500.000	ND	105	46-149			
1,2,4-Trichlorobenzene	462.6	10.0	"	500.000	ND	92.5	60-137			
Matrix Spike Dup (1GD0406-MSD1)		**Source: 1GD0185-09**		Prepared & Analyzed: 04/10/23						
Surrogate: Dibromofluoromethane	*492*		*ug/L*	*503.520*		*97.8*	*80-126*			
Surrogate: Dibromofluoromethane	*492*		*"*	*503.520*		*97.8*	*80-126*			
Surrogate: Dibromofluoromethane	*492*		*"*	*503.520*		*97.8*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*465*		*"*	*504.080*		*92.3*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*465*		*"*	*504.080*		*92.3*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*465*		*"*	*504.080*		*92.3*	*61-142*			
Surrogate: 1,2-Dichloroethane-d4	*465*		*"*	*504.080*		*92.3*	*63-138*			
Surrogate: Toluene-d8	*509*		*"*	*502.360*		*101*	*87-116*			
Surrogate: Toluene-d8	*509*		*"*	*502.360*		*101*	*87-116*			
Surrogate: Toluene-d8	*509*		*"*	*502.360*		*101*	*87-116*			
Surrogate: Toluene-d8	*509*		*"*	*502.360*		*101*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*508*		*"*	*504.200*		*101*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*508*		*"*	*504.200*		*101*	*80-116*			
Surrogate: 4-Bromofluorobenzene	*508*		*"*	*504.200*		*101*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*508*		*"*	*504.200*		*101*	*85-111*			
Dichlorodifluoromethane	217.5	10.0	"	300.000	ND	72.5	47-137	1.39	20	
Chloromethane	286.4	10.0	"	300.000	ND	95.5	49-154	1.76	25	
Chloromethane	286.4	10.0	"	300.000	ND	95.5	61-152	1.76	26	
Vinyl Chloride	264.8	10.0	"	300.000	ND	88.3	61-152	0.527	24	
Vinyl Chloride	264.8	10.0	"	300.000	ND	88.3	66-149	0.527	23	
Bromomethane	235.4	10.0	"	300.000	ND	78.5	43-171	12.0	29	
Bromomethane	235.4	10.0	"	300.000	ND	78.5	47-168	12.0	30	
Chloroethane	263.9	10.0	"	300.000	ND	88.0	69-148	0.529	25	
Chloroethane	263.9	10.0	"	300.000	ND	88.0	61-148	0.529	29	
Trichlorofluoromethane	237.4	10.0	"	300.000	ND	79.1	62-163	1.91	25	
Trichlorofluoromethane	237.4	10.0	"	300.000	ND	79.1	73-147	1.91	24	
Acrolein	1045	100	"	1002.00	ND	104	20-164	1.73	24	
1,1-Dichloroethylene	470.7	10.0	"	500.000	ND	94.1	70-148	2.43	22	
1,1-Dichloroethylene	470.7	10.0	"	500.000	ND	94.1	68-153	2.43	21	
Acetone	1192	100	"	1041.00	ND	114	45-173	1.14	30	
Acetone	1192	100	"	1041.00	ND	114	45-175	1.14	23	
Methyl Iodide	972.3	10.0	"	1125.63	ND	86.4	62-167	16.9	24	
Methyl Iodide	972.3	20.0	"	1125.63	ND	86.4	79-167	16.9	14	QM-19
Carbon Disulfide	951.8	10.0	"	1064.00	ND	89.5	72-156	3.90	19	
Carbon Disulfide	951.8	10.0	"	1064.00	ND	89.5	71-163	3.90	22	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
Matrix Spike Dup (1GD0406-MSD1)	**Source: 1GD0185-09**			Prepared & Analyzed: 04/10/23						
Acetonitrile	1176	100	ug/L	1019.96	ND	115	38-166	2.29	20	
Methylene Chloride	437.6	50.0	"	500.000	ND	87.5	69-140	2.52	19	
Methylene Chloride	437.6	50.0	"	500.000	ND	87.5	64-143	2.52	19	
Acrylonitrile	1003	50.0	"	1005.00	ND	99.8	58-151	0.368	15	
Acrylonitrile	1003	50.0	"	1005.00	ND	99.8	58-151	0.368	15	
trans-1,2-Dichloroethylene	441.7	10.0	"	500.000	ND	88.3	69-144	2.15	22	
trans-1,2-Dichloroethylene	441.7	10.0	"	500.000	ND	88.3	65-145	2.15	18	
1,1-Dichloroethane	437.5	10.0	"	500.000	ND	87.5	70-138	2.90	20	
1,1-Dichloroethane	437.5	10.0	"	500.000	ND	87.5	68-136	2.90	17	
Vinyl Acetate	1005	50.0	"	1033.00	ND	97.3	58-142	5.64	24	
Vinyl Acetate	1005	50.0	"	1033.00	ND	97.3	58-143	5.64	14	
2,2-Dichloropropane	360.0	10.0	"	500.000	ND	72.0	50-118	2.11	17	
cis-1,2-Dichloroethylene	523.4	10.0	"	500.000	ND	105	68-151	2.79	22	
cis-1,2-Dichloroethylene	523.4	10.0	"	500.000	ND	105	67-153	2.79	22	
2-Butanone (MEK)	1246	100	"	1062.00	ND	117	50-160	2.70	23	
2-Butanone (MEK)	1246	50.0	"	1062.00	ND	117	52-159	2.70	28	
Bromochloromethane	474.8	10.0	"	500.000	ND	95.0	65-143	0.867	22	
Bromochloromethane	474.8	10.0	"	500.000	ND	95.0	61-151	0.867	27	
Chloroform	418.3	10.0	"	500.000	ND	83.7	77-132	1.83	17	
Chloroform	418.3	10.0	"	500.000	ND	83.7	71-143	1.83	21	
1,1,1-Trichloroethane	372.9	10.0	"	499.750	ND	74.6	71-118	3.69	15	
1,1,1-Trichloroethane	372.9	10.0	"	499.750	ND	74.6	63-133	3.69	23	
1,1-Dichloropropene	444.6	10.0	"	500.000	ND	88.9	82-128	4.30	16	
Carbon Tetrachloride	451.6	10.0	"	500.000	ND	90.3	63-142	4.74	22	
Carbon Tetrachloride	451.6	10.0	"	500.000	ND	90.3	71-133	4.74	14	
Benzene	492.2	10.0	"	500.000	ND	98.4	69-133	2.18	18	
Benzene	492.2	10.0	"	500.000	ND	98.4	81-125	2.18	12	
1,2-Dichloroethane	489.1	10.0	"	500.000	ND	97.8	63-138	0.677	20	
1,2-Dichloroethane	489.1	10.0	"	500.000	ND	97.8	75-125	0.677	13	
Trichloroethylene	434.3	10.0	"	500.000	ND	86.9	71-133	2.42	23	
Trichloroethylene	434.3	10.0	"	500.000	ND	86.9	83-120	2.42	11	
1,2-Dichloropropane	522.8	10.0	"	500.000	ND	105	80-124	1.83	11	
1,2-Dichloropropane	522.8	10.0	"	500.000	ND	105	69-132	1.83	20	
Dibromomethane	521.5	10.0	"	500.000	ND	104	70-147	1.98	22	
Dibromomethane	521.5	10.0	"	500.000	ND	104	84-131	1.98	13	
Bromodichloromethane	471.2	10.0	"	500.000	ND	94.2	79-118	2.28	11	
Bromodichloromethane	471.2	10.0	"	500.000	ND	94.2	67-130	2.28	21	
cis-1,3-Dichloropropene	478.9	10.0	"	503.250	ND	95.2	61-126	1.96	21	
cis-1,3-Dichloropropene	478.9	10.0	"	503.250	ND	95.2	75-116	1.96	11	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
Matrix Spike Dup (1GD0406-MSD1)	**Source: 1GD0185-09**			Prepared & Analyzed: 04/10/23						
4-Methyl-2-pentanone (MIBK)	1272	50.0	ug/L	1031.00	ND	123	65-149	0.251	14	
4-Methyl-2-pentanone (MIBK)	1272	50.0	"	1031.00	ND	123	55-147	0.251	23	
Toluene	476.5	10.0	"	500.000	ND	95.3	71-133	3.37	19	
Toluene	476.5	10.0	"	500.000	ND	95.3	82-123	3.37	12	
trans-1,3-Dichloropropene	476.0	10.0	"	504.250	ND	94.4	63-124	3.12	21	
trans-1,3-Dichloropropene	476.0	10.0	"	504.250	ND	94.4	75-117	3.12	11	
Ethyl Methacrylate	1366	100	"	1227.00	ND	111	73-135	1.81	10	
1,1,2-Trichloroethane	477.0	10.0	"	500.000	ND	95.4	69-133	2.18	19	
1,1,2-Trichloroethane	477.0	10.0	"	500.000	ND	95.4	77-122	2.18	11	
Tetrachloroethylene	638.4	10.0	"	500.000	ND	128	70-124	4.29	24	QS-02
Tetrachloroethylene	638.4	10.0	"	500.000	ND	128	74-120	4.29	17	QS-02
1,3-Dichloropropane	564.5	10.0	"	500.000	ND	113	80-127	2.00	13	
2-Hexanone (MBK)	1454	50.0	"	1103.00	ND	132	57-150	0.391	17	
2-Hexanone (MBK)	1454	50.0	"	1103.00	ND	132	53-141	0.391	24	
Dibromochloromethane	490.1	10.0	"	495.000	ND	99.0	80-120	2.96	12	
Dibromochloromethane	490.1	10.0	"	495.000	ND	99.0	74-122	2.96	21	
1,2-Dibromoethane	501.2	10.0	"	500.000	ND	100	67-125	2.81	12	
1,2-Dibromoethane	501.2	10.0	"	500.000	ND	100	66-127	2.81	23	
Chlorobenzene	468.5	10.0	"	500.000	ND	93.7	76-116	3.21	21	
Chlorobenzene	468.5	10.0	"	500.000	ND	93.7	81-113	3.21	14	
1,1,1,2-Tetrachloroethane	470.2	10.0	"	500.000	ND	94.0	80-119	2.43	15	
1,1,1,2-Tetrachloroethane	470.2	10.0	"	500.000	ND	94.0	77-121	2.43	25	
Ethylbenzene	486.3	10.0	"	500.000	ND	97.3	73-124	3.45	20	
Ethylbenzene	486.3	10.0	"	500.000	ND	97.3	78-114	3.45	14	
Xylenes, total	1479	20.0	"	1500.00	ND	98.6	75-123	3.33	20	
Xylenes, total	1479	20.0	"	1500.00	ND	98.6	77-116	3.33	13	
Styrene	468.1	10.0	"	500.000	ND	93.6	70-120	2.97	23	
Styrene	468.1	10.0	"	500.000	ND	93.6	78-114	2.97	12	
Bromoform	483.5	10.0	"	500.000	ND	96.7	70-124	3.41	22	
Bromoform	483.5	10.0	"	500.000	ND	96.7	69-125	3.41	14	
1,2,3-Trichloropropane	518.6	10.0	"	500.000	ND	104	72-125	1.69	18	
1,2,3-Trichloropropane	518.6	10.0	"	500.000	ND	104	62-135	1.69	28	
trans-1,4-Dichloro-2-butene	945.5	50.0	"	1024.00	ND	92.3	50-120	2.55	26	
trans-1,4-Dichloro-2-butene	945.5	50.0	"	1024.00	ND	92.3	48-131	2.55	17	
1,1,2,2-Tetrachloroethane	562.6	10.0	"	498.500	ND	113	63-126	3.60	24	
1,1,2,2-Tetrachloroethane	562.6	10.0	"	498.500	ND	113	51-138	3.60	30	
1,3-Dichlorobenzene	472.3	10.0	"	500.000	ND	94.5	70-122	2.99	30	
1,4-Dichlorobenzene	481.2	10.0	"	500.000	ND	96.2	70-124	2.25	28	
1,4-Dichlorobenzene	481.2	10.0	"	500.000	ND	96.2	72-119	2.25	24	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0406 - EPA 5030B										
Matrix Spike Dup (1GD0406-MSD1)	**Source: 1GD0185-09**			Prepared & Analyzed: 04/10/23						
1,2-Dichlorobenzene	480.6	10.0	ug/L	500.000	ND	96.1	71-117	2.85	24	
1,2-Dichlorobenzene	480.6	10.0	"	500.000	ND	96.1	68-123	2.85	29	
1,2-Dibromo-3-chloropropane	525.7	50.0	"	500.000	ND	105	49-134	0.572	28	
1,2-Dibromo-3-chloropropane	525.7	10.0	"	500.000	ND	105	46-149	0.572	30	
1,2,4-Trichlorobenzene	468.0	10.0	"	500.000	ND	93.6	60-137	1.16	30	
Batch 1GD0508 - EPA 5030B										
Blank (1GD0508-BLK1)				Prepared & Analyzed: 04/11/23						
Surrogate: Dibromofluoromethane	*51.5*		*ug/L*	*50.3520*		*102*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*50.1*		*"*	*50.4080*		*99.4*	*63-138*			
Surrogate: Toluene-d8	*49.5*		*"*	*50.2360*		*98.5*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*50.1*		*"*	*50.4200*		*99.4*	*85-111*			
Allyl chloride	ND	1.0	"							
Chloroprene	ND	1.0	"							
Methacrylonitrile	ND	1.0	"							
Methyl Methacrylate	ND	1.0	"							
Propionitrile	ND	10.0	"							
LCS (1GD0508-BS1)				Prepared & Analyzed: 04/11/23						
Surrogate: Dibromofluoromethane	*49.8*		*ug/L*	*50.3520*		*99.0*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*48.9*		*"*	*50.4080*		*97.1*	*63-138*			
Surrogate: Toluene-d8	*49.5*		*"*	*50.2360*		*98.5*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*50.1*		*"*	*50.4200*		*99.3*	*85-111*			
Allyl chloride	46.20	1.0	"	50.1000		92.2	76-134			
Chloroprene	25.13	1.0	"	25.0450		100	74-141			
Methacrylonitrile	43.67	1.0	"	49.9800		87.4	73-143			
Methyl Methacrylate	48.36	1.0	"	50.1000		96.5	72-123			
Propionitrile	47.82	10.0	"	50.1000		95.4	50-151			

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Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0508 - EPA 5030B										
LCS Dup (1GD0508-BSD1)				Prepared & Analyzed: 04/11/23						
Surrogate: Dibromofluoromethane	*50.3*		*ug/L*	*50.3520*		*99.9*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*49.5*		*"*	*50.4080*		*98.3*	*63-138*			
Surrogate: Toluene-d8	*49.3*		*"*	*50.2360*		*98.1*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*49.9*		*"*	*50.4200*		*99.0*	*85-111*			
Allyl chloride	47.21	1.0	"	50.1000		94.2	76-134	2.16	30	
Chloroprene	24.48	1.0	"	25.0450		97.7	74-141	2.62	30	
Methacrylonitrile	44.66	1.0	"	49.9800		89.4	73-143	2.24	30	
Methyl Methacrylate	48.09	1.0	"	50.1000		96.0	72-123	0.560	30	
Propionitrile	48.84	10.0	"	50.1000		97.5	50-151	2.11	30	

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Work Order: 1GD0185

Determination of General Solvents - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0694 - Semi-Vol GC										
Blank (1GD0694-BLK1)				Prepared: 04/13/23 Analyzed: 04/14/23						
Isobutanol	ND	1.0	mg/L							
LCS (1GD0694-BS1)				Prepared: 04/13/23 Analyzed: 04/14/23						
Isobutanol	46.16	1.0	mg/L	49.6560		93.0	40-135			
Matrix Spike (1GD0694-MS1)		**Source: 1GD0185-09**		Prepared: 04/13/23 Analyzed: 04/14/23						
Isobutanol	51.16	1.0	mg/L	49.6560	ND	103	63-135			
Matrix Spike Dup (1GD0694-MSD1)		**Source: 1GD0185-09**		Prepared: 04/13/23 Analyzed: 04/14/23						
Isobutanol	51.90	1.0	mg/L	49.6560	ND	105	63-135	1.44	30	

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Work Order: 1GD0185

Determination of Base/Neutral Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0431 - EPA 625 BNA										
Blank (1GD0431-BLK1)				Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: Nitrobenzene-d5	*53.8*		*ug/L*	*62.8500*		*85.6*	*29-130*			
Surrogate: 2-Fluorobiphenyl	*51.4*		*"*	*61.0000*		*84.3*	*23-113*			
Surrogate: Terphenyl-dl4	*58.6*		*"*	*65.1000*		*89.9*	*27-141*			
Bis(2-Ethylhexyl) Phthalate	ND	6	"							
LCS (1GD0431-BS1)				Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: Nitrobenzene-d5	*25.4*		*ug/L*	*62.8500*		*40.4*	*38-115*			
Surrogate: 2-Fluorobiphenyl	*26.9*		*"*	*61.0000*		*44.1*	*33-110*			
Surrogate: Terphenyl-dl4	*30.9*		*"*	*65.1000*		*47.4*	*30-142*			
Bis(2-Ethylhexyl) Phthalate	36.2	6	"	41.6667		86.9	33-184			
LCS Dup (1GD0431-BSD1)				Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: Nitrobenzene-d5	*37.8*		*ug/L*	*62.8500*		*60.1*	*38-115*			
Surrogate: 2-Fluorobiphenyl	*45.1*		*"*	*61.0000*		*73.9*	*33-110*			
Surrogate: Terphenyl-dl4	*51.3*		*"*	*65.1000*		*78.7*	*30-142*			
Bis(2-Ethylhexyl) Phthalate	32.5	6	"	41.6667		78.0	33-184	10.8	30	

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Work Order: 1GD0185

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
Blank (1GD0434-BLK1)				Prepared: 04/10/23 Analyzed: 04/26/23						
Surrogate: 2-Fluorophenol	*42.2*		*ug/L*	*60.6000*		*69.7*	*24-136*			
Surrogate: Phenol-d6	*45.6*		*"*	*61.9000*		*73.7*	*15-140*			
Surrogate: Nitrobenzene-d5	*40.1*		*"*	*62.8500*		*63.7*	*29-130*			
Surrogate: 2-Fluorobiphenyl	*39.5*		*"*	*61.0000*		*64.8*	*23-113*			
Surrogate: 2,4,6-Tribromophenol	*52.6*		*"*	*62.2500*		*84.4*	*15-139*			
Surrogate: Terphenyl-dl4	*67.0*		*"*	*65.1000*		*103*	*27-141*			
N-Nitrosodimethylamine	ND	8	"							
Methyl Methanesulfonate	ND	8	"							
N-Nitrosodiethylamine	ND	8	"							
N-Nitrosomethylethylamine	ND	8	"							
Ethyl Methanesulfonate	ND	8	"							
Phenol	ND	8	"							
Bis(2-Chloroethyl) Ether	ND	8	"							
2-Chlorophenol	ND	8	"							
Benzyl Alcohol	ND	8	"							
2-Methylphenol (o-Cresol)	ND	8	"							
Bis[2-Chloroisopropyl]ether	ND	8	"							
n-Nitroso-di-n-propylamine	ND	8	"							
N-Nitrosopyrrolidine	ND	8	"							
Acetophenone	ND	8	"							
o-Toluidine	ND	8	"							
(3 & 4)-Methylphenol	ND	8	"							
Hexachloroethane	ND	8	"							
Nitrobenzene	ND	8	"							
N-Nitrosopiperidine	ND	8	"							
Isophorone	ND	8	"							
2-Nitrophenol	ND	8	"							
2,4-Dimethylphenol	ND	8	"							
Bis (2-Chloroethoxy) Methane	ND	8	"							
2,4-Dichlorophenol	ND	8	"							
Naphthalene	ND	8	"							
4-Chloroaniline	ND	8	"							
2,6-Dichlorophenol	ND	8	"							
Hexachloropropene	ND	8	"							
Hexachlorobutadiene	ND	8	"							
N-Nitrosodi-n-butylamine	ND	8	"							
1,4-Phenylenediamine	ND	8	"							
4-Chloro-3-methylphenol	ND	8	"							

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Work Order: 1GD0185

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
Blank (1GD0434-BLK1)				Prepared: 04/10/23 Analyzed: 04/26/23						
2-Methylnaphthalene	ND	8	ug/L							
Isosafrole	ND	8	"							
1,2,4,5-Tetrachlorobenzene	ND	8	"							
Hexachlorocyclopentadiene	ND	8	"							
2,4,6-Trichlorophenol	ND	8	"							
2,4,5-Trichlorophenol	ND	8	"							
Safrole	ND	8	"							
2-Chloronaphthalene	ND	8	"							
2-Nitroaniline	ND	8	"							
1,4-Naphthoquinone	ND	8	"							
Dimethylphthalate	ND	8	"							
1,3-Dinitrobenzene	ND	8	"							
1,2-Dinitrobenzene	ND	8	"							
2,6-Dinitrotoluene	ND	8	"							
Acenaphthylene	ND	8	"							
3-Nitroaniline	ND	8	"							
Acenaphthene	ND	8	"							
2,4-Dinitrophenol	ND	8	"							
4-Nitrophenol	ND	8	"							
Dibenzofuran	ND	8	"							
2,4-Dinitrotoluene	ND	8	"							
2,3,4,6-Tetrachlorophenol	ND	8	"							
Pentachlorobenzene	ND	8	"							
1-Naphthylamine	ND	8	"							
2-Naphthylamine	ND	8	"							
Diethyl Phthalate	ND	8	"							
Fluorene	ND	8	"							
4-Chlorophenyl Phenyl Ether	ND	8	"							
4-Nitroaniline	ND	8	"							
5-Nitro-o-toluidine	ND	8	"							
4,6-Dinitro-2-methylphenol	ND	8	"							
N-Nitrosodiphenylamine	ND	8	"							
Diphenylamine	ND	8	"							
Azobenzene	ND	8	"							
Diallate	ND	8	"							
1,3,5-Trinitrobenzene	ND	8	"							
Phenacetin	ND	8	"							
4-Bromophenyl Phenyl Ether	ND	8	"							
4-Aminobiphenyl	ND	8	"							

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Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
Blank (1GD0434-BLK1)				Prepared: 04/10/23 Analyzed: 04/26/23						
Pentachlorophenol	ND	8	ug/L							
Pronamide	ND	8	"							
Pentachloronitrobenzene (PCNB)	ND	8	"							
Phenanthrene	ND	8	"							
Anthracene	ND	8	"							
Di-n-butyl Phthalate	ND	8	"							
Methapyrilene	ND	8	"							
Fluoranthene	ND	8	"							
Isodrin	ND	8	"							
Chlorobenzilate	ND	8	"							
Pyrene	ND	8	"							
p-(Dimethylamino)azobenzene	ND	8	"							
3,3-Dimethylbenzidine	ND	8	"							
Butyl Benzyl Phthalate	ND	8	"							
Benzo(a)anthracene	ND	8	"							
Chrysene	ND	8	"							
Bis(2-Ethylhexyl) Phthalate	ND	6	"							
Kepone	ND	8	"							
3,3′-Dichlorobenzidine	ND	8	"							
2-Acetylaminofluorene	ND	8	"							
Di-n-octyl Phthalate	ND	8	"							
Benzo(b)Fluoranthene	ND	8	"							
7,12-Dimethylbenz [a] anthracene	ND	8	"							
Benzo(k)Fluoranthene	ND	8	"							
Benzo(a)Pyrene	ND	8	"							
3-Methylcholanthrene	ND	8	"							
Dibenzo(a,h)anthracene	ND	8	"							
Indeno(1,2,3-cd)Pyrene	ND	8	"							
Benzo(g,h,i)perylene	ND	8	"							

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Work Order: 1GD0185

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
LCS (1GD0434-BS1)				Prepared: 04/10/23 Analyzed: 04/27/23						
Surrogate: 2-Fluorophenol	*28.1*		*ug/L*	*60.6000*		*46.3*	*24-136*			
Surrogate: Phenol-d6	*29.3*		*"*	*61.9000*		*47.4*	*15-140*			
Surrogate: Nitrobenzene-d5	*32.4*		*"*	*62.8500*		*51.5*	*38-115*			
Surrogate: 2-Fluorobiphenyl	*32.3*		*"*	*61.0000*		*53.0*	*33-110*			
Surrogate: 2,4,6-Tribromophenol	*34.3*		*"*	*62.2500*		*55.1*	*15-139*			
Surrogate: Terphenyl-dl4	*35.9*		*"*	*65.1000*		*55.2*	*30-142*			
N-Nitrosodimethylamine	15.0	8	"	41.6667		36.0	36-138			QS-01
Phenol	20.6	8	"	41.6667		49.3	50-112			QS-01
Bis(2-Chloroethyl) Ether	23.5	8	"	41.6667		56.4	39-151			
2-Chlorophenol	20.6	8	"	41.6667		49.5	56-116			QS-01
Benzyl Alcohol	17.1	8	"	41.6667		41.1	13-158			
2-Methylphenol (o-Cresol)	24.6	8	"	41.6667		59.1	53-131			
Bis[2-Chloroisopropyl]ether	22.8	8	"	41.6667		54.7	50-121			
n-Nitroso-di-n-propylamine	21.1	8	"	41.6667		50.6	50-138			
(3 & 4)-Methylphenol	18.0	8	"	41.6667		43.3	30-164			
Hexachloroethane	17.0	8	"	41.6667		40.7	10-110			
Nitrobenzene	21.3	8	"	41.6667		51.2	47-134			
Isophorone	20.7	8	"	41.6667		49.6	54-128			QS-01
2-Nitrophenol	25.5	8	"	41.6667		61.3	54-117			
2,4-Dimethylphenol	20.9	8	"	41.6667		50.1	52-118			QS-01
Bis (2-Chloroethoxy) Methane	20.8	8	"	41.6667		50.0	13-132			
2,4-Dichlorophenol	20.2	8	"	41.6667		48.6	58-114			QS-01
Naphthalene	20.8	8	"	41.6667		49.8	37-116			
4-Chloroaniline	14.2	8	"	41.6667		34.1	10-198			
Hexachlorobutadiene	18.7	8	"	41.6667		45.0	14-110			
4-Chloro-3-methylphenol	17.6	8	"	41.6667		42.4	57-136			QS-01
2-Methylnaphthalene	19.0	8	"	41.6667		45.6	44-111			
Hexachlorocyclopentadiene	10.7	8	"	41.6667		25.8	11-110			
2,4,6-Trichlorophenol	21.0	8	"	41.6667		50.4	55-120			QS-01
2,4,5-Trichlorophenol	20.8	8	"	41.6667		49.9	55-121			QS-01
2-Chloronaphthalene	35.2	8	"	41.6667		84.5	47-127			
2-Nitroaniline	22.9	8	"	41.6667		55.0	36-143			
Dimethylphthalate	22.4	8	"	41.6667		53.7	59-128			QS-01
1,3-Dinitrobenzene	26.1	8	"	41.6667		62.7	63-125			QS-01
1,2-Dinitrobenzene	26.7	8	"	41.6667		64.1	63-123			
2,6-Dinitrotoluene	25.3	8	"	41.6667		60.7	60-127			
Acenaphthylene	20.3	8	"	41.6667		48.8	49-113			QS-01
3-Nitroaniline	21.6	8	"	41.6667		51.7	10-162			

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Work Order: 1GD0185

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
LCS (1GD0434-BS1)				Prepared: 04/10/23 Analyzed: 04/27/23						
Acenaphthene	20.7	8	ug/L	41.6667		49.7	50-119			QS-01
2,4-Dinitrophenol	21.0	8	"	41.6667		50.5	27-157			
4-Nitrophenol	21.0	8	"	41.6667		50.5	49-154			
Dibenzofuran	21.4	8	"	41.6667		51.3	56-121			QS-01
2,4-Dinitrotoluene	24.9	8	"	41.6667		59.8	53-138			
2,3,4,6-Tetrachlorophenol	20.2	8	"	41.6667		48.6	47-132			
Diethyl Phthalate	22.2	8	"	41.6667		53.2	53-138			
Fluorene	20.5	8	"	41.6667		49.2	54-125			QS-01
4-Chlorophenyl Phenyl Ether	20.9	8	"	41.6667		50.2	51-122			QS-01
4-Nitroaniline	20.6	8	"	41.6667		49.4	10-136			
4,6-Dinitro-2-methylphenol	24.9	8	"	41.6667		59.8	49-137			
Diphenylamine	22.4	8	"	41.6667		53.8	35-151			
Azobenzene	23.1	8	"	41.6667		55.5	16-156			
4-Bromophenyl Phenyl Ether	22.3	8	"	41.6667		53.5	53-122			
Pentachlorophenol	14.6	8	"	41.6667		35.1	18-152			
Phenanthrene	21.8	8	"	41.6667		52.2	59-131			QS-01
Anthracene	21.1	8	"	41.6667		50.7	59-127			QS-01
Di-n-butyl Phthalate	22.0	8	"	41.6667		52.8	64-148			QS-01
Fluoranthene	21.5	8	"	41.6667		51.5	62-132			QS-01
Pyrene	22.3	8	"	41.6667		53.6	58-135			QS-01
Butyl Benzyl Phthalate	24.0	8	"	41.6667		57.6	52-150			
Benzo(a)anthracene	23.4	8	"	41.6667		56.2	58-131			QS-01
Chrysene	23.7	8	"	41.6667		56.8	59-131			QS-01
Bis(2-Ethylhexyl) Phthalate	27.9	6	"	41.6667		67.0	33-184			
Di-n-octyl Phthalate	21.5	8	"	41.6667		51.7	48-162			
Benzo(b)Fluoranthene	21.7	8	"	41.6667		52.0	50-146			
Benzo(k)Fluoranthene	21.8	8	"	41.6667		52.4	54-144			QS-01
Benzo(a)Pyrene	20.9	8	"	41.6667		50.2	39-148			
Dibenzo(a,h)anthracene	20.2	8	"	41.6667		48.5	46-153			
Indeno(1,2,3-cd)Pyrene	20.7	8	"	41.6667		49.8	48-152			
Benzo(g,h,i)perylene	20.5	8	"	41.6667		49.3	47-161			

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
Matrix Spike (1GD0434-MS1)	**Source: 1GD0765-15**			Prepared: 04/10/23 Analyzed: 04/26/23						
Surrogate: 2-Fluorophenol	*41.0*		*ug/L*	*60.0595*		*68.2*	*24-136*			
Surrogate: Phenol-d6	*44.6*		*"*	*61.3479*		*72.6*	*15-140*			
Surrogate: Nitrobenzene-d5	*42.8*		*"*	*62.2894*		*68.8*	*28-133*			
Surrogate: 2-Fluorobiphenyl	*43.8*		*"*	*60.4559*		*72.5*	*39-110*			
Surrogate: 2,4,6-Tribromophenol	*66.3*		*"*	*61.6948*		*107*	*15-139*			
Surrogate: Terphenyl-dl4	*66.5*		*"*	*64.5193*		*103*	*41-135*			
N-Nitrosodimethylamine	27.9	8	"	41.2950	ND	67.6	60-140			
Methyl Methanesulfonate	10.8	8	"	24.7770	ND	43.4	60-140			QS-06
N-Nitrosodiethylamine	31.5	8	"	49.5540	ND	63.5	60-140			
N-Nitrosomethylethylamine	28.9	8	"	49.5540	ND	58.3	60-140			QS-06
Ethyl Methanesulfonate	12.4	8	"	24.7770	ND	50.0	60-140			QS-06
Phenol	28.9	8	"	41.2950	ND	70.1	60-139			
Bis(2-Chloroethyl) Ether	31.2	8	"	41.2950	ND	75.6	60-140			
2-Chlorophenol	29.9	8	"	41.2950	ND	72.3	42-104			
Benzyl Alcohol	15.6	8	"	41.2950	1.2	34.8	60-140			QS-06
2-Methylphenol (o-Cresol)	31.0	8	"	41.2950	ND	75.1	44-110			
Bis[2-Chloroisopropyl]ether	30.4	8	"	41.2950	ND	73.7	60-140			
n-Nitroso-di-n-propylamine	32.1	8	"	41.2950	ND	77.8	50-138			
N-Nitrosopyrrolidine	35.4	8	"	49.5540	ND	71.4	60-140			
Acetophenone	17.2	8	"	24.7770	ND	69.4	60-140			
(3 & 4)-Methylphenol	31.9	8	"	41.2950	ND	77.4	42-117			
Hexachloroethane	25.4	8	"	41.2950	ND	61.6	18-200			
Nitrobenzene	28.4	8	"	41.2950	ND	68.7	11-156			
N-Nitrosopiperidine	30.9	8	"	49.5540	ND	62.4	60-140			
Isophorone	28.0	8	"	41.2950	ND	67.7	60-140			
2-Nitrophenol	32.3	8	"	41.2950	ND	78.2	38-112			
2,4-Dimethylphenol	30.7	8	"	41.2950	ND	74.3	32-110			
Bis (2-Chloroethoxy) Methane	26.0	8	"	41.2950	ND	63.0	60-140			
2,4-Dichlorophenol	29.8	8	"	41.2950	ND	72.1	43-104			
Naphthalene	27.2	8	"	41.2950	ND	65.8	60-140			
2,6-Dichlorophenol	18.4	8	"	24.7770	ND	74.2	60-140			
Hexachlorobutadiene	17.4	8	"	41.2950	ND	42.2	20-200			
N-Nitrosodi-n-butylamine	27.8	8	"	49.5540	ND	56.1	60-140			QS-06
4-Chloro-3-methylphenol	32.2	8	"	41.2950	ND	78.1	49-125			
2-Methylnaphthalene	25.5	8	"	41.2950	ND	61.7	65-127			QS-06
Isosafrole	18.4	8	"	24.7770	ND	74.3	60-140			
1,2,4,5-Tetrachlorobenzene	16.0	8	"	24.7770	ND	64.6	60-140			
Hexachlorocyclopentadiene	12.6	8	"	41.2950	ND	30.5	60-140			QS-06

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
Matrix Spike (1GD0434-MS1)	**Source: 1GD0765-15**			Prepared: 04/10/23 Analyzed: 04/26/23						
2,4,6-Trichlorophenol	34.6	8	ug/L	41.2950	ND	83.9	13-147			
2,4,5-Trichlorophenol	37.0	8	"	41.2950	ND	89.5	35-145			
Safrole	18.8	8	"	24.7770	ND	75.7	60-140			
2-Chloronaphthalene	47.9	8	"	41.2950	ND	116	60-140			
2-Nitroaniline	41.2	8	"	41.2950	ND	99.8	60-140			
1,4-Naphthoquinone	43.6	8	"	24.7770	ND	176	60-140			QS-02
Dimethylphthalate	37.7	8	"	41.2950	ND	91.3	63-110			
1,3-Dinitrobenzene	38.7	8	"	41.2950	ND	93.6	60-140			
1,2-Dinitrobenzene	41.3	8	"	41.2950	ND	100	60-140			
2,6-Dinitrotoluene	40.7	8	"	41.2950	ND	98.5	59-127			
Acenaphthylene	29.6	8	"	41.2950	ND	71.6	63-133			
3-Nitroaniline	4.7	8	"	41.2950	ND	11.4	60-140			QS-06
Acenaphthene	30.9	8	"	41.2950	ND	74.8	60-140			
2,4-Dinitrophenol	37.2	8	"	41.2950	ND	90.0	60-138			
4-Nitrophenol	39.8	8	"	41.2950	ND	96.5	37-169			
Dibenzofuran	33.3	8	"	41.2950	ND	80.6	60-140			
2,4-Dinitrotoluene	45.1	8	"	41.2950	ND	109	29-142			
2,3,4,6-Tetrachlorophenol	34.4	8	"	41.2950	ND	83.3	60-140			
Pentachlorobenzene	19.4	8	"	24.7770	ND	78.4	60-140			
Diethyl Phthalate	39.7	8	"	41.2950	ND	96.1	60-140			
Fluorene	34.9	8	"	41.2950	ND	84.6	50-140			
4-Chlorophenyl Phenyl Ether	32.4	8	"	41.2950	ND	78.5	60-140			
4-Nitroaniline	25.7	8	"	41.2950	ND	62.3	60-140			
5-Nitro-o-toluidine	19.8	8	"	49.5540	ND	39.9	60-140			QS-06
4,6-Dinitro-2-methylphenol	40.8	8	"	41.2950	ND	98.7	60-135			
Diphenylamine	34.3	8	"	41.2950	ND	83.1	60-140			
Azobenzene	33.6	8	"	41.2950	ND	81.3	60-140			
Diallate	25.1	8	"	24.7770	ND	101	60-140			
1,3,5-Trinitrobenzene	34.1	8	"	24.7770	ND	138	60-140			
Phenacetin	25.2	8	"	24.7770	ND	102	60-140			
4-Bromophenyl Phenyl Ether	33.4	8	"	41.2950	ND	80.8	60-140			
Pentachlorophenol	26.2	8	"	41.2950	ND	63.4	14-164			
Pronamide	23.1	8	"	24.7770	ND	93.2	60-140			
Pentachloronitrobenzene (PCNB)	26.2	8	"	24.7770	ND	106	60-140			
Phenanthrene	36.3	8	"	41.2950	ND	87.8	72-111			
Anthracene	34.5	8	"	41.2950	ND	83.5	53-110			
Di-n-butyl Phthalate	40.6	8	"	41.2950	ND	98.4	56-138			
Fluoranthene	38.7	8	"	41.2950	ND	93.8	62-110			
Isodrin	19.3	8	"	24.7770	ND	78.0	60-140			

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
Matrix Spike (1GD0434-MS1)	**Source: 1GD0765-15**			Prepared: 04/10/23 Analyzed: 04/26/23						
Chlorobenzilate	22.1	8	ug/L	24.7770	ND	89.2	60-140			
Pyrene	37.6	8	"	41.2950	ND	91.0	50-122			
p-(Dimethylamino)azobenzene	35.3	8	"	49.5540	ND	71.2	60-140			
Butyl Benzyl Phthalate	40.1	8	"	41.2950	ND	97.1	60-140			
Benzo(a)anthracene	38.9	8	"	41.2950	ND	94.2	60-140			
Chrysene	37.1	8	"	41.2950	ND	89.7	53-140			
Bis(2-Ethylhexyl) Phthalate	47.7	6	"	41.2950	7.4	97.5	60-140			
Kepone	12.8	8	"	24.7770	ND	51.5	17-151			
2-Acetylaminofluorene	57.8	8	"	49.5540	ND	117	60-140			
Di-n-octyl Phthalate	44.5	8	"	41.2950	ND	108	60-140			
Benzo(b)Fluoranthene	43.4	8	"	41.2950	ND	105	60-140			
7,12-Dimethylbenz [a] anthracene	20.6	8	"	24.7770	ND	83.3	60-140			
Benzo(k)Fluoranthene	39.9	8	"	41.2950	ND	96.7	60-140			
Benzo(a)Pyrene	38.5	8	"	41.2950	ND	93.2	60-140			
3-Methylcholanthrene	19.2	8	"	24.7770	ND	77.6	60-140			
Dibenzo(a,h)anthracene	37.4	8	"	41.2950	ND	90.5	60-140			
Indeno(1,2,3-cd)Pyrene	37.7	8	"	41.2950	ND	91.3	60-140			
Benzo(g,h,i)perylene	36.1	8	"	41.2950	ND	87.3	60-140			
Matrix Spike Dup (1GD0434-MSD1)	**Source: 1GD0765-15**			Prepared: 04/10/23 Analyzed: 04/26/23						
Surrogate: 2-Fluorophenol	*48.3*		*ug/L*	*60.4790*		*79.8*	*24-136*			
Surrogate: Phenol-d6	*52.9*		*"*	*61.7764*		*85.6*	*15-140*			
Surrogate: Nitrobenzene-d5	*45.4*		*"*	*62.7246*		*72.3*	*28-133*			
Surrogate: 2-Fluorobiphenyl	*49.0*		*"*	*60.8782*		*80.5*	*39-110*			
Surrogate: 2,4,6-Tribromophenol	*67.8*		*"*	*62.1258*		*109*	*15-139*			
Surrogate: Terphenyl-dl4	*65.5*		*"*	*64.9701*		*101*	*41-135*			
N-Nitrosodimethylamine	31.4	8	"	41.5835	ND	75.5	60-140	11.8	40	
Methyl Methanesulfonate	12.2	8	"	24.9501	ND	48.9	60-140	12.7	40	QS-06
N-Nitrosodiethylamine	36.7	8	"	49.9002	ND	73.6	60-140	15.5	30	
N-Nitrosomethylethylamine	34.5	8	"	49.9002	ND	69.1	60-140	17.6	40	
Ethyl Methanesulfonate	14.1	8	"	24.9501	ND	56.4	60-140	12.8	40	QS-06
Phenol	34.6	8	"	41.5835	ND	83.2	60-139	17.8	40	
Bis(2-Chloroethyl) Ether	35.0	8	"	41.5835	ND	84.1	60-140	11.3	40	
2-Chlorophenol	34.2	8	"	41.5835	ND	82.1	42-104	13.4	40	
Benzyl Alcohol	18.2	8	"	41.5835	1.2	40.9	60-140	15.6	40	QS-06
2-Methylphenol (o-Cresol)	35.7	8	"	41.5835	ND	85.8	44-110	14.0	22	
Bis[2-Chloroisopropyl]ether	34.2	8	"	41.5835	ND	82.3	60-140	11.8	40	
n-Nitroso-di-n-propylamine	38.1	8	"	41.5835	ND	91.6	50-138	17.0	18	
N-Nitrosopyrrolidine	43.6	8	"	49.9002	ND	87.4	60-140	20.9	40	

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
Matrix Spike Dup (1GD0434-MSD1)	**Source: 1GD0765-15**			Prepared: 04/10/23 Analyzed: 04/26/23						
Acetophenone	19.5	8	ug/L	24.9501	ND	78.2	60-140	12.5	40	
(3 & 4)-Methylphenol	37.7	8	"	41.5835	ND	90.6	42-117	16.4	40	
Hexachloroethane	29.8	8	"	41.5835	ND	71.6	18-200	15.7	30	
Nitrobenzene	30.8	8	"	41.5835	ND	74.1	11-156	8.29	15	
N-Nitrosopiperidine	35.9	8	"	49.9002	ND	71.9	60-140	14.9	40	
Isophorone	31.7	8	"	41.5835	ND	76.1	60-140	12.4	40	
2-Nitrophenol	35.0	8	"	41.5835	ND	84.2	38-112	8.02	40	
2,4-Dimethylphenol	33.5	8	"	41.5835	ND	80.6	32-110	8.84	40	
Bis (2-Chloroethoxy) Methane	29.8	8	"	41.5835	ND	71.6	60-140	13.5	40	
2,4-Dichlorophenol	33.4	8	"	41.5835	ND	80.4	43-104	11.5	40	
Naphthalene	29.6	8	"	41.5835	ND	71.1	60-140	8.41	40	
2,6-Dichlorophenol	20.3	8	"	24.9501	ND	81.4	60-140	10.0	40	
Hexachlorobutadiene	24.1	8	"	41.5835	ND	57.9	20-200	32.0	24	QR-02
N-Nitrosodi-n-butylamine	33.1	8	"	49.9002	ND	66.4	60-140	17.5	40	
4-Chloro-3-methylphenol	36.5	8	"	41.5835	ND	87.7	49-125	12.2	40	
2-Methylnaphthalene	29.7	8	"	41.5835	ND	71.4	65-127	15.2	23	
Isosafrole	19.2	8	"	24.9501	ND	77.0	60-140	4.19	40	
1,2,4,5-Tetrachlorobenzene	18.0	8	"	24.9501	ND	72.1	60-140	11.7	40	
Hexachlorocyclopentadiene	17.4	8	"	41.5835	ND	41.9	60-140	32.2	40	QS-06
2,4,6-Trichlorophenol	37.5	8	"	41.5835	ND	90.1	13-147	7.92	16	
2,4,5-Trichlorophenol	39.1	8	"	41.5835	ND	93.9	35-145	5.46	27	
Safrole	20.2	8	"	24.9501	ND	80.9	60-140	7.29	40	
2-Chloronaphthalene	40.1	8	"	41.5835	ND	96.5	60-140	17.8	40	
2-Nitroaniline	43.1	8	"	41.5835	ND	104	60-140	4.52	40	
1,4-Naphthoquinone	44.2	8	"	24.9501	ND	177	60-140	1.33	40	QS-02
Dimethylphthalate	39.4	8	"	41.5835	ND	94.7	63-110	4.31	40	
1,3-Dinitrobenzene	42.0	8	"	41.5835	ND	101	60-140	8.20	40	
1,2-Dinitrobenzene	43.8	8	"	41.5835	ND	105	60-140	5.93	40	
2,6-Dinitrotoluene	43.1	8	"	41.5835	ND	104	59-127	5.71	26	
Acenaphthylene	31.9	8	"	41.5835	ND	76.7	63-133	7.49	26	
3-Nitroaniline	8.6	8	"	41.5835	ND	20.7	60-140	58.4	40	QS-06
Acenaphthene	33.8	8	"	41.5835	ND	81.3	60-140	9.09	10.1	
2,4-Dinitrophenol	42.0	8	"	41.5835	ND	101	60-138	12.2	40	
4-Nitrophenol	44.4	8	"	41.5835	ND	107	37-169	10.8	20	
Dibenzofuran	35.6	8	"	41.5835	ND	85.7	60-140	6.87	40	
2,4-Dinitrotoluene	47.5	8	"	41.5835	ND	114	29-142	5.17	22	
2,3,4,6-Tetrachlorophenol	37.9	8	"	41.5835	ND	91.1	60-140	9.59	40	
Pentachlorobenzene	20.9	8	"	24.9501	ND	83.6	60-140	7.17	40	
Diethyl Phthalate	41.5	8	"	41.5835	ND	99.8	60-140	4.52	25	

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Story City, IA 50248

Work Order: 1GD0185

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
Matrix Spike Dup (1GD0434-MSD1)	**Source: 1GD0765-15**			Prepared: 04/10/23 Analyzed: 04/26/23						
Fluorene	36.6	8	ug/L	41.5835	ND	88.1	50-140	4.73	200	
4-Chlorophenyl Phenyl Ether	34.4	8	"	41.5835	ND	82.7	60-140	5.94	40	
4-Nitroaniline	25.5	8	"	41.5835	ND	61.3	60-140	0.819	40	
5-Nitro-o-toluidine	27.8	8	"	49.9002	ND	55.7	60-140	33.6	40	QS-06
4,6-Dinitro-2-methylphenol	44.2	8	"	41.5835	ND	106	60-135	8.14	40	
Diphenylamine	34.6	8	"	41.5835	ND	83.1	60-140	0.667	40	
Azobenzene	36.3	8	"	41.5835	ND	87.3	60-140	7.75	40	
Diallate	26.7	8	"	24.9501	ND	107	60-140	6.15	40	
1,3,5-Trinitrobenzene	35.6	8	"	24.9501	ND	143	60-140	4.34	40	QS-02
Phenacetin	25.7	8	"	24.9501	ND	103	60-140	2.18	40	
4-Bromophenyl Phenyl Ether	35.4	8	"	41.5835	ND	85.2	60-140	5.99	40	
Pentachlorophenol	28.3	8	"	41.5835	ND	68.0	14-164	7.64	30	
Pronamide	25.0	8	"	24.9501	ND	100	60-140	7.97	40	
Pentachloronitrobenzene (PCNB)	27.3	8	"	24.9501	ND	109	60-140	3.93	40	
Phenanthrene	37.5	8	"	41.5835	ND	90.1	72-111	3.31	40	
Anthracene	35.3	8	"	41.5835	ND	84.9	53-110	2.35	40	
Di-n-butyl Phthalate	40.8	8	"	41.5835	ND	98.1	56-138	0.403	40	
Fluoranthene	39.6	8	"	41.5835	ND	95.3	62-110	2.27	24	
Isodrin	21.0	8	"	24.9501	ND	84.2	60-140	8.24	40	
Chlorobenzilate	22.8	8	"	24.9501	ND	91.3	60-140	2.96	40	
Pyrene	38.8	8	"	41.5835	ND	93.3	50-122	3.12	40	
p-(Dimethylamino)azobenzene	39.1	8	"	49.9002	ND	78.4	60-140	10.4	40	
Butyl Benzyl Phthalate	41.4	8	"	41.5835	ND	99.5	60-140	3.11	40	
Benzo(a)anthracene	38.5	8	"	41.5835	ND	92.6	60-140	1.05	40	
Chrysene	37.5	8	"	41.5835	ND	90.2	53-140	1.18	18	
Bis(2-Ethylhexyl) Phthalate	85.3	6	"	41.5835	7.4	187	60-140	56.6	40	QS-02
Kepone	13.3	8	"	24.9501	ND	53.2	17-151	3.90	22	
2-Acetylaminofluorene	60.2	8	"	49.9002	ND	121	60-140	4.03	40	
Di-n-octyl Phthalate	45.6	8	"	41.5835	ND	110	60-140	2.59	40	
Benzo(b)Fluoranthene	43.6	8	"	41.5835	ND	105	60-140	0.490	40	
7,12-Dimethylbenz [a] anthracene	21.6	8	"	24.9501	ND	86.4	60-140	4.33	40	
Benzo(k)Fluoranthene	41.3	8	"	41.5835	ND	99.4	60-140	3.44	40	
Benzo(a)Pyrene	39.0	8	"	41.5835	ND	93.7	60-140	1.29	19	
3-Methylcholanthrene	19.0	8	"	24.9501	ND	76.3	60-140	0.916	40	
Dibenzo(a,h)anthracene	38.4	8	"	41.5835	ND	92.3	60-140	2.69	40	
Indeno(1,2,3-cd)Pyrene	38.3	8	"	41.5835	ND	92.1	60-140	1.51	40	
Benzo(g,h,i)perylene	36.7	8	"	41.5835	ND	88.3	60-140	1.84	40	

HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
Reference (1GD0434-SRM1)			Prepared: 04/10/23 Analyzed: 04/26/23							
Surrogate: 2-Fluorophenol	*65.1*		*ug/L*	*60.6000*		*107*	*24-136*			
Surrogate: Phenol-d6	*67.1*		*"*	*61.9000*		*108*	*15-140*			
Surrogate: Nitrobenzene-d5	*52.1*		*"*	*62.8500*		*82.9*	*29-130*			
Surrogate: 2-Fluorobiphenyl	*67.7*		*"*	*61.0000*		*111*	*23-113*			
Surrogate: 2,4,6-Tribromophenol	*69.5*		*"*	*62.2500*		*112*	*15-139*			
Surrogate: Terphenyl-dl4	*76.6*		*"*	*65.1000*		*118*	*27-141*			
N-Nitrosodimethylamine	40.1	8	"	41.6667		96.3	80-120			
Methyl Methanesulfonate	19.3	8	"	25.0000		77.2	80-120			QR-06
N-Nitrosodiethylamine	46.3	8	"	50.0000		92.6	80-120			
N-Nitrosomethylethylamine	43.1	8	"	50.0000		86.2	80-120			
Ethyl Methanesulfonate	21.5	8	"	25.0000		86.0	80-120			
Phenol	50.1	8	"	41.6667		120	80-120			QR-05
Bis(2-Chloroethyl) Ether	47.7	8	"	41.6667		115	80-120			
2-Chlorophenol	44.4	8	"	41.6667		107	80-120			
Benzyl Alcohol	22.6	8	"	41.6667		54.2	80-120			QR-06
2-Methylphenol (o-Cresol)	43.9	8	"	41.6667		105	80-120			
Bis[2-Chloroisopropyl]ether	44.6	8	"	41.6667		107	80-120			
n-Nitroso-di-n-propylamine	48.4	8	"	41.6667		116	80-120			
N-Nitrosopyrrolidine	53.7	8	"	50.0000		107	80-120			
Acetophenone	24.6	8	"	25.0000		98.4	80-120			
(3 & 4)-Methylphenol	46.6	8	"	41.6667		112	80-120			
Hexachloroethane	43.8	8	"	41.6667		105	80-120			
Nitrobenzene	36.3	8	"	41.6667		87.0	80-120			
Isophorone	36.4	8	"	41.6667		87.5	80-120			
2-Nitrophenol	40.0	8	"	41.6667		95.9	80-120			
2,4-Dimethylphenol	36.8	8	"	41.6667		88.3	80-120			
Bis (2-Chloroethoxy) Methane	35.4	8	"	41.6667		85.0	80-120			
2,4-Dichlorophenol	36.9	8	"	41.6667		88.6	80-120			
Naphthalene	36.3	8	"	41.6667		87.2	80-120			
2,6-Dichlorophenol	22.6	8	"	25.0000		90.2	80-120			
Hexachlorobutadiene	40.7	8	"	41.6667		97.7	80-120			
N-Nitrosodi-n-butylamine	36.4	8	"	50.0000		72.8	80-120			QR-06
4-Chloro-3-methylphenol	39.0	8	"	41.6667		93.7	80-120			
2-Methylnaphthalene	37.2	8	"	41.6667		89.3	80-120			
Isosafrole	24.4	8	"	25.0000		97.6	80-120			
1,2,4,5-Tetrachlorobenzene	25.1	8	"	25.0000		100	80-120			
Hexachlorocyclopentadiene	24.0	8	"	41.6667		57.6	80-120			QR-06
2,4,6-Trichlorophenol	34.2	8	"	41.6667		82.2	80-120			

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Story City, IA 50248

Work Order: 1GD0185

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
Reference (1GD0434-SRM1)				Prepared: 04/10/23 Analyzed: 04/26/23						
2,4,5-Trichlorophenol	36.8	8	ug/L	41.6667		88.4	80-120			
Safrole	25.7	8	"	25.0000		103	80-120			
2-Chloronaphthalene	52.5	8	"	41.6667		126	80-120			QR-06
2-Nitroaniline	47.5	8	"	41.6667		114	80-120			
1,4-Naphthoquinone	24.6	8	"	25.0000		98.5	80-120			
Dimethylphthalate	43.3	8	"	41.6667		104	80-120			
1,3-Dinitrobenzene	45.0	8	"	41.6667		108	80-120			
1,2-Dinitrobenzene	48.6	8	"	41.6667		117	80-120			
2,6-Dinitrotoluene	47.0	8	"	41.6667		113	80-120			
Acenaphthylene	42.0	8	"	41.6667		101	80-120			
3-Nitroaniline	46.6	8	"	41.6667		112	80-120			
Acenaphthene	41.7	8	"	41.6667		100	80-120			
2,4-Dinitrophenol	39.0	8	"	41.6667		93.6	80-120			
4-Nitrophenol	42.5	8	"	41.6667		102	80-120			
Dibenzofuran	43.4	8	"	41.6667		104	80-120			
2,4-Dinitrotoluene	49.9	8	"	41.6667		120	80-120			
2,3,4,6-Tetrachlorophenol	31.5	8	"	41.6667		75.6	80-120			QR-06
Pentachlorobenzene	26.4	8	"	25.0000		106	80-120			
Diethyl Phthalate	45.5	8	"	41.6667		109	80-120			
Fluorene	45.0	8	"	41.6667		108	80-120			
4-Chlorophenyl Phenyl Ether	43.0	8	"	41.6667		103	80-120			
4-Nitroaniline	44.4	8	"	41.6667		107	80-120			
5-Nitro-o-toluidine	65.7	8	"	50.0000		131	80-120			QR-06
4,6-Dinitro-2-methylphenol	46.0	8	"	41.6667		110	80-120			
Diphenylamine	42.6	8	"	41.6667		102	80-120			
Azobenzene	42.6	8	"	41.6667		102	80-120			
Diallate	29.6	8	"	25.0000		119	80-120			
1,3,5-Trinitrobenzene	39.3	8	"	25.0000		157	80-120			QR-06
Phenacetin	27.4	8	"	25.0000		110	80-120			
4-Bromophenyl Phenyl Ether	42.4	8	"	41.6667		102	80-120			
Pentachlorophenol	18.9	8	"	41.6667		45.4	80-120			QR-06
Pronamide	27.0	8	"	25.0000		108	80-120			
Pentachloronitrobenzene (PCNB)	29.0	8	"	25.0000		116	80-120			
Phenanthrene	42.2	8	"	41.6667		101	80-120			
Anthracene	42.1	8	"	41.6667		101	80-120			
Di-n-butyl Phthalate	44.6	8	"	41.6667		107	80-120			
Fluoranthene	43.7	8	"	41.6667		105	80-120			
Isodrin	21.8	8	"	25.0000		87.4	80-120			
Chlorobenzilate	24.3	8	"	25.0000		97.1	80-120			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Determination of Base/Neutral/Acid Extractable Compounds - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0434 - 3520C BNA Cont Liq										
Reference (1GD0434-SRM1)				Prepared: 04/10/23 Analyzed: 04/26/23						
Pyrene	43.6	8	ug/L	41.6667		105	80-120			
p-(Dimethylamino)azobenzene	56.6	8	"	50.0000		113	80-120			
Butyl Benzyl Phthalate	50.6	8	"	41.6667		121	80-120			QR-06
Benzo(a)anthracene	43.7	8	"	41.6667		105	80-120			
Chrysene	41.8	8	"	41.6667		100	80-120			
Bis(2-Ethylhexyl) Phthalate	44.8	6	"	41.6667		107	80-120			
2-Acetylaminofluorene	63.4	8	"	50.0000		127	80-120			QR-06
Di-n-octyl Phthalate	49.7	8	"	41.6667		119	80-120			
Benzo(b)Fluoranthene	47.7	8	"	41.6667		114	80-120			
7,12-Dimethylbenz [a] anthracene	26.7	8	"	25.0000		107	80-120			
Benzo(k)Fluoranthene	44.8	8	"	41.6667		108	80-120			
Benzo(a)Pyrene	45.1	8	"	41.6667		108	80-120			
3-Methylcholanthrene	25.3	8	"	25.0000		101	80-120			
Dibenzo(a,h)anthracene	41.4	8	"	41.6667		99.3	80-120			
Indeno(1,2,3-cd)Pyrene	41.5	8	"	41.6667		99.6	80-120			
Benzo(g,h,i)perylene	39.8	8	"	41.6667		95.4	80-120			

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Work Order: 1GD0185

Determination of Organophosphorus Insecticides - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0484 - 3510C NP/OC Sep Fnl										
Blank (1GD0484-BLK1)				Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: 2-Nitro-m-xylene	*7.58*		*ug/L*	*8.18000*		*92.7*	*38-122*			
O,O,O-Triethyl phosphorothioate	ND	0.4	"							
Thionazin	ND	0.4	"							
Phorate	ND	0.4	"							
Dimethoate	ND	0.4	"							
Disulfoton	ND	0.4	"							
Methyl Parathion	ND	0.4	"							
Parathion	ND	0.4	"							
Famphur	ND	0.4	"							
LCS (1GD0484-BS1)				Prepared: 04/10/23 Analyzed: 04/26/23						
Surrogate: 2-Nitro-m-xylene	*14.2*		*ug/L*	*16.3600*		*86.6*	*38-122*			
O,O,O-Triethyl phosphorothioate	6.75	0.4	"	16.0000		42.2	42-115			
Thionazin	8.28	0.4	"	16.0000		51.7	28-118			
Phorate	3.04	0.4	"	16.0000		19.0	18-159			
Dimethoate	0.54	0.4	"	16.0000		3.34	43-155			QS-01
Disulfoton	7.68	0.4	"	16.0000		48.0	37-126			
Methyl Parathion	9.16	0.4	"	16.0000		57.3	28-145			
Parathion	8.09	0.4	"	16.0000		50.6	52-121			QS-01
Famphur	7.50	0.4	"	16.1600		46.4	44-144			
Matrix Spike (1GD0484-MS1)		**Source: 1GD0765-15**		Prepared: 04/10/23 Analyzed: 04/26/23						
Surrogate: 2-Nitro-m-xylene	*6.22*		*ug/L*	*7.98049*		*78.0*	*38-122*			
O,O,O-Triethyl phosphorothioate	3.34	0.4	"	3.90244	ND	85.6	70-130			
Thionazin	4.19	0.4	"	3.90244	ND	107	70-130			
Phorate	2.88	0.4	"	3.90244	ND	73.8	62-127			
Dimethoate	3.65	0.4	"	3.90244	ND	93.6	70-130			
Disulfoton	3.83	0.4	"	3.90244	ND	98.2	70-130			
Methyl Parathion	4.63	0.4	"	3.90244	ND	119	70-130			
Parathion	3.53	0.4	"	3.90244	ND	90.5	70-130			
Famphur	3.93	0.4	"	3.94146	ND	99.8	70-130			

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Work Order: 1GD0185

Determination of Organophosphorus Insecticides - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0484 - 3510C NP/OC Sep Fnl										
Matrix Spike Dup (1GD0484-MSD1)	**Source: 1GD0765-15**			Prepared: 04/10/23 Analyzed: 04/26/23						
Surrogate: 2-Nitro-m-xylene	*9.43*		*ug/L*	*8.14741*		*116*	*38-122*			
O,O,O-Triethyl phosphorothioate	3.91	0.4	"	3.98406	ND	98.1	70-130	15.7	20	
Thionazin	4.95	0.4	"	3.98406	ND	124	70-130	16.6	20	
Phorate	3.68	0.4	"	3.98406	ND	92.4	62-127	24.5	20	QR-02
Dimethoate	4.38	0.4	"	3.98406	ND	110	70-130	18.1	20	
Disulfoton	4.40	0.4	"	3.98406	ND	110	70-130	13.8	20	
Methyl Parathion	5.52	0.4	"	3.98406	ND	139	70-130	17.5	20	QM-07
Parathion	4.48	0.4	"	3.98406	ND	112	70-130	23.7	20	QR-02
Famphur	4.39	0.4	"	4.02390	ND	109	70-130	11.1	20	

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Determination of Chlorinated Phenoxy Herbicides - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0480 - EPA 8151A										
Blank (1GD0480-BLK1)				Prepared: 04/10/23 Analyzed: 04/27/23						
Surrogate: 2,5-Dichlorobenzoic Acid	*0.925*		*ug/L*	*2.04000*		*45.3*	*31-116*			
2,4-D	ND	2.0	"							
2,4,5-TP (Silvex)	ND	0.5	"							
2,4,5-T	ND	0.5	"							
Dinoseb	ND	0.5	"							
LCS (1GD0480-BS1)				Prepared: 04/10/23 Analyzed: 04/27/23						
Surrogate: 2,5-Dichlorobenzoic Acid	*1.06*		*ug/L*	*2.04000*		*52.2*	*31-116*			
2,4-D	0.56	2.0	"	1.15000		48.3	16-161			
2,4,5-TP (Silvex)	0.37	0.5	"	0.575000		64.3	35-141			
2,4,5-T	0.30	0.5	"	0.575000		52.2	54-149			QS-01
Dinoseb	0.82	0.5	"	1.15000		70.9	10-133			
Matrix Spike (1GD0480-MS1)	**Source: 1GD0765-15**			Prepared: 04/10/23 Analyzed: 04/27/23						
Surrogate: 2,5-Dichlorobenzoic Acid	*1.36*		*ug/L*	*2.04000*		*66.4*	*31-116*			
2,4-D	0.75	2.0	"	1.15000	ND	65.2	50-131			
2,4,5-TP (Silvex)	0.46	0.5	"	0.575000	ND	79.1	50-129			
2,4,5-T	0.36	0.5	"	0.575000	ND	62.6	50-123			
Dinoseb	0.75	0.5	"	1.15000	ND	65.2	50-138			
Matrix Spike Dup (1GD0480-MSD1)	**Source: 1GD0765-15**			Prepared: 04/10/23 Analyzed: 04/27/23						
Surrogate: 2,5-Dichlorobenzoic Acid	*1.52*		*ug/L*	*2.04000*		*74.3*	*31-116*			
2,4-D	0.75	2.0	"	1.15000	ND	65.2	50-131	0.00	30	
2,4,5-TP (Silvex)	0.47	0.5	"	0.575000	ND	81.7	50-129	3.24	30	
2,4,5-T	0.40	0.5	"	0.575000	ND	69.6	50-123	10.5	30	
Dinoseb	0.71	0.5	"	1.15000	ND	61.7	50-138	5.48	30	

Determination of Organochlorine Insecticides & Metabolites - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0482 - 3510C NP/OC Sep Fnl										
Blank (1GD0482-BLK1)				Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: Tetrachloro-m-xylene	*0.373*		*ug/L*	*0.600000*		*62.2*	*10-121*			
Alpha-BHC	ND	0.05	"							
Gamma-BHC [Lindane]	ND	0.05	"							
Beta-BHC	ND	0.05	"							
Heptachlor	ND	0.05	"							
Delta-BHC	ND	0.05	"							
Aldrin	ND	0.05	"							
Heptachlor Epoxide	ND	0.05	"							
Endosulfan I	ND	0.05	"							
4,4`-DDE	ND	0.05	"							
Dieldrin	ND	0.05	"							
Endrin	ND	0.05	"							
4,4`-DDD	ND	0.05	"							
Endosulfan II	ND	0.05	"							
4,4`-DDT	ND	0.05	"							
Endrin Aldehyde	ND	0.05	"							
Endosulfan Sulfate	ND	0.05	"							
Methoxychlor	ND	0.05	"							
Chlordane	ND	0.10	"							
Toxaphene	ND	0.20	"							
Hexachlorobenzene	ND	0.05	"							
LCS (1GD0482-BS1)				Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: Tetrachloro-m-xylene	*0.758*		*ug/L*	*0.600000*		*126*	*10-121*			*S-07*
Alpha-BHC	0.258	0.05	"	0.250000		103	33-123			
Gamma-BHC [Lindane]	0.270	0.05	"	0.250000		108	34-120			
Beta-BHC	0.261	0.05	"	0.250000		104	33-125			
Heptachlor	0.140	0.05	"	0.250000		55.8	32-117			
Delta-BHC	0.285	0.05	"	0.250000		114	24-140			
Aldrin	0.250	0.05	"	0.250000		99.9	29-122			
Heptachlor Epoxide	0.295	0.05	"	0.250000		118	37-137			
Endosulfan I	0.305	0.05	"	0.250000		122	27-141			
4,4`-DDE	0.256	0.05	"	0.250000		102	38-147			
Dieldrin	0.306	0.05	"	0.250000		123	32-137			
Endrin	0.318	0.05	"	0.250000		127	25-142			
4,4`-DDD	0.305	0.05	"	0.250000		122	43-146			
Endosulfan II	0.291	0.05	"	0.250000		116	36-140			
4,4`-DDT	0.323	0.05	"	0.250000		129	39-140			
Endrin Aldehyde	0.323	0.05	"	0.250000		129	17-150			

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Work Order: 1GD0185

Determination of Organochlorine Insecticides & Metabolites - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0482 - 3510C NP/OC Sep Fnl										
LCS (1GD0482-BS1)				Prepared: 04/10/23 Analyzed: 04/25/23						
Endosulfan Sulfate	0.285	0.05	ug/L	0.250000		114	41-135			
Methoxychlor	0.320	0.05	"	0.250000		128	40-148			
Matrix Spike (1GD0482-MS1)		**Source: 1GD0765-15**		Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: Tetrachloro-m-xylene	*0.408*		*ug/L*	*0.591716*		*69.0*	*10-121*			
Alpha-BHC	0.024	0.05	"	0.246548	ND	9.58	64-116			QM-07
Gamma-BHC [Lindane]	0.023	0.05	"	0.246548	ND	9.51	62-125			QM-07
Beta-BHC	0.022	0.05	"	0.246548	ND	8.99	60-119			QM-07
Heptachlor	0.024	0.05	"	0.246548	ND	9.86	51-136			QM-07
Delta-BHC	0.024	0.05	"	0.246548	ND	9.63	58-134			QM-07
Aldrin	0.017	0.05	"	0.246548	ND	6.89	60-121			QM-07
Heptachlor Epoxide	0.025	0.05	"	0.246548	ND	10.3	55-140			QM-07
Endosulfan I	0.025	0.05	"	0.246548	ND	10.1	74-131			QM-07
4,4`-DDE	0.019	0.05	"	0.246548	ND	7.54	72-125			QM-07
Dieldrin	0.026	0.05	"	0.246548	ND	10.4	60-143			QM-07
Endrin	ND	0.05	"	0.246548	ND		63-139			QM-07
4,4`-DDD	0.024	0.05	"	0.246548	ND	9.92	63-143			QM-07
Endosulfan II	0.024	0.05	"	0.246548	0.008	9.84	68-143			QM-07
4,4`-DDT	0.024	0.05	"	0.246548	ND	9.71	46-172			QM-07
Endrin Aldehyde	0.033	0.05	"	0.246548	ND	13.5	50-110			QM-07
Endosulfan Sulfate	0.027	0.05	"	0.246548	ND	11.1	65-145			QM-07
Methoxychlor	0.030	0.05	"	0.246548	ND	12.2	60-125			QM-07
Matrix Spike Dup (1GD0482-MSD1)		**Source: 1GD0765-15**		Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: Tetrachloro-m-xylene	*0.394*		*ug/L*	*0.593472*		*66.4*	*10-121*			
Alpha-BHC	0.053	0.05	"	0.247280	ND	21.4	64-116	76.6	19	QM-07
Gamma-BHC [Lindane]	0.058	0.05	"	0.247280	ND	23.6	62-125	85.3	18	QM-07
Beta-BHC	0.061	0.05	"	0.247280	ND	24.8	60-119	93.7	18	QM-07
Heptachlor	0.054	0.05	"	0.247280	ND	21.7	51-136	75.4	23	QM-07
Delta-BHC	0.065	0.05	"	0.247280	ND	26.2	58-134	92.8	21	QM-07
Aldrin	0.044	0.05	"	0.247280	ND	18.0	60-121	89.4	21	QM-07
Heptachlor Epoxide	0.070	0.05	"	0.247280	ND	28.4	55-140	93.8	19	QM-07
Endosulfan I	0.067	0.05	"	0.247280	ND	27.2	74-131	92.1	19	QM-07
4,4`-DDE	0.052	0.05	"	0.247280	ND	20.9	72-125	94.0	22	QM-07
Dieldrin	0.065	0.05	"	0.247280	ND	26.4	60-143	87.4	18	QM-07
Endrin	0.079	0.05	"	0.247280	ND	32.1	63-139		23	QM-07
4,4`-DDD	0.067	0.05	"	0.247280	ND	27.1	63-143	93.1	23	QM-07
Endosulfan II	0.067	0.05	"	0.247280	0.008	27.1	68-143	93.8	19	QM-07
4,4`-DDT	0.076	0.05	"	0.247280	ND	30.7	46-172	104	26	QM-07

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HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Organochlorine Insecticides & Metabolites - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0482 - 3510C NP/OC Sep Fnl										
Matrix Spike Dup (1GD0482-MSD1)	**Source: 1GD0765-15**			Prepared: 04/10/23 Analyzed: 04/25/23						
Endrin Aldehyde	0.075	0.05	ug/L	0.247280	ND	30.4	50-110	77.3	24	QM-07
Endosulfan Sulfate	0.069	0.05	"	0.247280	ND	27.9	65-145	86.4	26	QM-07
Methoxychlor	0.084	0.05	"	0.247280	ND	34.0	60-125	94.8	26	QM-07

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PO Box 314
Story City, IA 50248

Work Order: 1GD0185

Determination of Polychlorinated Biphenyls (PCB) - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0483 - 3510C NP/OC Sep Fnl										
Blank (1GD0483-BLK1)				Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: Tetrachloro-m-xylene	*0.390*		*ug/L*	*0.600000*		*65.0*	*38-121*			
Surrogate: Decachlorobiphenyl	*0.360*		*"*	*0.600000*		*60.0*	*25-119*			
Arochlor 1016	ND	0.10	"							
Arochlor 1221	ND	0.20	"							
Arochlor 1232	ND	0.20	"							
Arochlor 1242	ND	0.20	"							
Arochlor 1248	ND	0.20	"							
Arochlor 1254	ND	0.10	"							
Arochlor 1260	ND	0.10	"							
LCS (1GD0483-BS1)				Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: Tetrachloro-m-xylene	*0.715*		*ug/L*	*0.600000*		*119*	*38-121*			
Surrogate: Decachlorobiphenyl	*0.905*		*"*	*0.600000*		*151*	*25-119*			*S-GC*
Arochlor 1016	3.780	0.10	"	2.80000		135	25-126			QS-01
Arochlor 1260	4.065	0.10	"	2.80000		145	29-142			QS-01
Matrix Spike (1GD0483-MS1)		**Source: 1GD0765-15**		Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: Tetrachloro-m-xylene	*0.365*		*ug/L*	*0.584795*		*62.5*	*38-121*			
Surrogate: Decachlorobiphenyl	*0.585*		*"*	*0.584795*		*100*	*25-119*			
Arochlor 1016	2.320	0.10	"	2.72904	ND	85.0	61-127			
Arochlor 1260	2.256	0.10	"	2.72904	ND	82.7	58-140			
Matrix Spike Dup (1GD0483-MSD1)		**Source: 1GD0765-15**		Prepared: 04/10/23 Analyzed: 04/25/23						
Surrogate: Tetrachloro-m-xylene	*0.413*		*ug/L*	*0.590551*		*70.0*	*38-121*			
Surrogate: Decachlorobiphenyl	*0.531*		*"*	*0.590551*		*90.0*	*25-119*			
Arochlor 1016	1.924	0.10	"	2.75591	ND	69.8	61-127	18.6	10	QR-02
Arochlor 1260	2.023	0.10	"	2.75591	ND	73.4	58-140	10.9	25	

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Story City, IA 50248

Work Order: 1GD0185

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0295 - Wet Chem Preparation										
Blank (1GD0295-BLK1)				Prepared: 04/06/23 Analyzed: 04/07/23						
Cyanide, total	ND	0.005	mg/L							
LCS (1GD0295-BS1)				Prepared: 04/06/23 Analyzed: 04/07/23						
Cyanide, total	0.089	0.005	mg/L	0.100000		88.9	67-110			
MRL Check (1GD0295-MRL1)				Prepared: 04/06/23 Analyzed: 04/07/23						
Cyanide, total	0.003	0.005	mg/L	0.00500000		52.0	0-200			
Matrix Spike (1GD0295-MS1)		**Source: 1GD0185-09**		Prepared: 04/06/23 Analyzed: 04/07/23						
Cyanide, total	0.110	0.005	mg/L	0.100000	ND	110	53-120			
Matrix Spike Dup (1GD0295-MSD1)		**Source: 1GD0185-09**		Prepared: 04/06/23 Analyzed: 04/07/23						
Cyanide, total	0.108	0.005	mg/L	0.100000	ND	108	53-120	2.11	30	
Batch 1GD0441 - Wet Chem Preparation										
Blank (1GD0441-BLK1)				Prepared & Analyzed: 04/10/23						
Sulfide, total	ND	0.10	mg/L							
LCS (1GD0441-BS1)				Prepared & Analyzed: 04/10/23						
Sulfide, total	0.144	0.10	mg/L	0.195160		73.7	59-110			
Matrix Spike (1GD0441-MS1)		**Source: 1GD0185-09**		Prepared & Analyzed: 04/10/23						
Sulfide, total	0.0714	0.10	mg/L	0.195160	ND	36.6	50-150			QM-07
Matrix Spike Dup (1GD0441-MSD1)		**Source: 1GD0185-09**		Prepared & Analyzed: 04/10/23						
Sulfide, total	0.0805	0.10	mg/L	0.195160	ND	41.2	50-150	11.9	30	QM-07

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Work Order: 1GD0185

Determination of Total Metals - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0135 - EPA 7470A Hg Water										
Blank (1GD0135-BLK1)				Prepared: 04/04/23 Analyzed: 04/05/23						
Mercury, total	ND	0.00050	mg/L							
LCS (1GD0135-BS1)				Prepared: 04/04/23 Analyzed: 04/05/23						
Mercury, total	0.00246	0.00050	mg/L	0.00250000		98.3	80-120			
Matrix Spike (1GD0135-MS1)		Source: 1GC2698-04		Prepared: 04/04/23 Analyzed: 04/05/23						
Mercury, total	0.00250	0.00050	mg/L	0.00250000	ND	99.9	75-125			
Matrix Spike Dup (1GD0135-MSD1)		Source: 1GC2698-04		Prepared: 04/04/23 Analyzed: 04/05/23						
Mercury, total	0.00255	0.00050	mg/L	0.00250000	ND	102	75-125	2.24	20	
Batch 1GD0235 - EPA 3005A Total Recoverable Metals										
Blank (1GD0235-BLK1)				Prepared: 04/05/23 Analyzed: 04/06/23						
Antimony, total	ND	0.0020	mg/L							
Arsenic, total	ND	0.0040	"							
Barium, total	ND	0.0040	"							
Beryllium, total	ND	0.0040	"							
Cadmium, total	ND	0.0008	"							
Chromium, total	ND	0.0080	"							
Cobalt, total	ND	0.0004	"							
Copper, total	ND	0.0040	"							
Lead, total	ND	0.0040	"							
Nickel, total	ND	0.0040	"							
Selenium, total	ND	0.0040	"							
Silver, total	ND	0.0040	"							
Thallium, total	ND	0.0020	"							
Tin, total	ND	0.0200	"							
Vanadium, total	ND	0.0200	"							
Zinc, total	ND	0.0200	"							QB-12

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Work Order: 1GD0185

Determination of Total Metals - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0235 - EPA 3005A Total Recoverable Metals										
LCS (1GD0235-BS1)				Prepared: 04/05/23 Analyzed: 04/06/23						
Antimony, total	0.0940	0.0020	mg/L	0.100000		94.0	80-120			
Arsenic, total	0.0985	0.0040	"	0.100000		98.5	80-120			
Barium, total	0.103	0.0040	"	0.100000		103	80-120			
Beryllium, total	0.0951	0.0040	"	0.100000		95.1	80-120			
Cadmium, total	0.0975	0.0008	"	0.100000		97.5	80-120			
Chromium, total	0.0950	0.0080	"	0.100000		95.0	80-120			
Cobalt, total	0.102	0.0004	"	0.100000		102	80-120			
Copper, total	0.102	0.0040	"	0.100000		102	80-120			
Lead, total	0.0965	0.0040	"	0.100000		96.5	80-120			
Nickel, total	0.0998	0.0040	"	0.100000		99.8	80-120			
Selenium, total	0.0974	0.0040	"	0.100000		97.4	80-120			
Silver, total	0.110	0.0040	"	0.100000		110	80-120			
Thallium, total	0.0977	0.0020	"	0.100000		97.7	80-120			
Tin, total	0.0994	0.0200	"	0.100000		99.4	80-120			
Vanadium, total	0.104	0.0200	"	0.100000		104	80-120			
Zinc, total	0.107	0.0200	"	0.100000		107	80-120			
Matrix Spike (1GD0235-MS1)		**Source: 1GD0185-09**		Prepared: 04/05/23 Analyzed: 04/07/23						
Antimony, total	0.0924	0.0020	mg/L	0.100000	ND	92.4	75-125			
Arsenic, total	0.0950	0.0040	"	0.100000	0.0014	93.6	75-125			
Barium, total	0.199	0.0040	"	0.100000	0.102	96.0	75-125			
Beryllium, total	0.0927	0.0040	"	0.100000	ND	92.7	75-125			
Cadmium, total	0.0919	0.0008	"	0.100000	ND	91.9	75-125			
Chromium, total	0.0885	0.0080	"	0.100000	ND	88.5	75-125			
Cobalt, total	0.0932	0.0004	"	0.100000	0.0006	92.6	75-125			
Copper, total	0.0864	0.0040	"	0.100000	ND	86.4	75-125			
Lead, total	0.0890	0.0040	"	0.100000	ND	89.0	75-125			
Nickel, total	0.0916	0.0040	"	0.100000	0.0018	89.8	75-125			
Selenium, total	0.0937	0.0040	"	0.100000	ND	93.7	75-125			
Silver, total	0.100	0.0040	"	0.100000	ND	100	75-125			
Thallium, total	0.0898	0.0020	"	0.100000	ND	89.8	75-125			
Tin, total	0.0963	0.0200	"	0.100000	ND	96.3	75-125			
Vanadium, total	0.0943	0.0200	"	0.100000	ND	94.3	75-125			
Zinc, total	0.0974	0.0200	"	0.100000	0.0168	80.6	75-125			

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Work Order: 1GD0185

Determination of Total Metals - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0235 - EPA 3005A Total Recoverable Metals										
Matrix Spike Dup (1GD0235-MSD1)	**Source: 1GD0185-09**			Prepared: 04/05/23 Analyzed: 04/07/23						
Antimony, total	0.0952	0.0020	mg/L	0.100000	ND	95.2	75-125	3.04	20	
Arsenic, total	0.0990	0.0040	"	0.100000	0.0014	97.6	75-125	4.11	20	
Barium, total	0.199	0.0040	"	0.100000	0.102	96.2	75-125	0.0800	20	
Beryllium, total	0.0931	0.0040	"	0.100000	ND	93.1	75-125	0.472	20	
Cadmium, total	0.0945	0.0008	"	0.100000	ND	94.5	75-125	2.81	20	
Chromium, total	0.0899	0.0080	"	0.100000	ND	89.9	75-125	1.61	20	
Cobalt, total	0.0968	0.0004	"	0.100000	0.0006	96.2	75-125	3.78	20	
Copper, total	0.0901	0.0040	"	0.100000	ND	90.1	75-125	4.18	20	
Lead, total	0.0896	0.0040	"	0.100000	ND	89.6	75-125	0.642	20	
Nickel, total	0.0962	0.0040	"	0.100000	0.0018	94.4	75-125	4.90	20	
Selenium, total	0.0971	0.0040	"	0.100000	ND	97.1	75-125	3.54	20	
Silver, total	0.104	0.0040	"	0.100000	ND	104	75-125	3.82	20	
Thallium, total	0.0916	0.0020	"	0.100000	ND	91.6	75-125	1.89	20	
Tin, total	0.0979	0.0200	"	0.100000	ND	97.9	75-125	1.70	20	
Vanadium, total	0.0963	0.0200	"	0.100000	ND	96.3	75-125	2.12	20	
Zinc, total	0.0980	0.0200	"	0.100000	0.0168	81.2	75-125	0.548	20	
Post Spike (1GD0235-PS1)	**Source: 1GD0185-09**			Prepared: 04/05/23 Analyzed: 04/07/23						
Antimony, total	0.0794		mg/L	0.0800000	0.00007	99.2	80-120			
Arsenic, total	0.0758		"	0.0800000	0.0014	93.0	80-120			
Barium, total	0.169		"	0.0800000	0.100	86.2	80-120			
Beryllium, total	0.0754		"	0.0800000	0.000004	94.3	80-120			
Cadmium, total	0.0759		"	0.0800000	0.00007	94.9	80-120			
Chromium, total	0.0715		"	0.0800000	0.0003	89.1	80-120			
Cobalt, total	0.0718		"	0.0800000	0.0006	89.0	80-120			
Copper, total	0.0686		"	0.0800000	0.0003	85.4	80-120			
Lead, total	0.0686		"	0.0800000	0.00007	85.6	80-120			
Nickel, total	0.0729		"	0.0800000	0.0018	89.0	80-120			
Selenium, total	0.0689		"	0.0800000	0.0003	85.8	80-120			
Silver, total	0.0789		"	0.0800000	0.0004	98.1	80-120			
Thallium, total	0.0707		"	0.0800000	0.00002	88.3	80-120			
Tin, total	0.0797		"	0.0800000	-0.0002	99.6	75-125			
Vanadium, total	0.0785		"	0.0800000	0.0040	93.1	80-120			
Zinc, total	0.0758		"	0.0800000	0.0165	74.1	80-120			PS-01

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Determination of Total Metals - Quality Control

Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GD0382 - EPA 3005A Total Recoverable Metals										
Blank (1GD0382-BLK1)				Prepared: 04/07/23 Analyzed: 04/11/23						
Arsenic, total	ND	0.0040	mg/L							
LCS (1GD0382-BS1)				Prepared: 04/07/23 Analyzed: 04/11/23						
Arsenic, total	0.0942	0.0040	mg/L	0.100000		94.2	80-120			
Matrix Spike (1GD0382-MS1)		**Source: 1GD0730-01**		Prepared: 04/07/23 Analyzed: 04/11/23						
Arsenic, total	0.0954	0.0040	mg/L	0.100000	0.0014	94.0	75-125			
Matrix Spike Dup (1GD0382-MSD1)		**Source: 1GD0730-01**		Prepared: 04/07/23 Analyzed: 04/11/23						
Arsenic, total	0.0964	0.0040	mg/L	0.100000	0.0014	95.0	75-125	1.03	20	
Post Spike (1GD0382-PS1)		**Source: 1GD0730-01**		Prepared: 04/07/23 Analyzed: 04/11/23						
Arsenic, total	0.0794		mg/L	0.0800000	0.0014	97.6	80-120			

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

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Work Order: 1GD0185

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications
ASTM D7511-12(2017) in Water		
	Cyanide, total	KS-NT,SIA1X
EPA 6020A in Water		
	Antimony, total	SIA1X,KS-NT
	Arsenic, total	SIA1X,KS-NT
	Barium, total	SIA1X,KS-NT
	Beryllium, total	SIA1X,KS-NT
	Cadmium, total	SIA1X,KS-NT
	Chromium, total	SIA1X,KS-NT
	Cobalt, total	SIA1X,KS-NT
	Copper, total	SIA1X,KS-NT
	Lead, total	SIA1X,KS-NT
	Nickel, total	SIA1X,KS-NT
	Selenium, total	SIA1X,KS-NT
	Silver, total	SIA1X,KS-NT
	Thallium, total	SIA1X,KS-NT
	Vanadium, total	SIA1X,KS-NT
	Zinc, total	SIA1X,KS-NT
EPA 7470A in Water		
	Mercury, total	KS-NT,SIA1X
EPA 8081 in Water		
	Alpha-BHC	KS-NT,SIA1X
	Gamma-BHC [Lindane]	KS-NT,SIA1X
	Beta-BHC	KS-NT,SIA1X
	Heptachlor	KS-NT,SIA1X
	Delta-BHC	KS-NT,SIA1X
	Aldrin	KS-NT,SIA1X
	Heptachlor Epoxide	KS-NT,SIA1X
	Endosulfan I	KS-NT,SIA1X
	4,4`-DDE	KS-NT,SIA1X
	Dieldrin	KS-NT,SIA1X
	Endrin	KS-NT,SIA1X
	4,4`-DDD	KS-NT,SIA1X
	Endosulfan II	KS-NT,SIA1X
	4,4`-DDT	KS-NT,SIA1X
	Endrin Aldehyde	KS-NT,SIA1X
	Endosulfan Sulfate	KS-NT,SIA1X
	Methoxychlor	KS-NT,SIA1X
	Chlordane	KS-NT,SIA1X
	Toxaphene	KS-NT,SIA1X
	Hexachlorobenzene	KS-NT
EPA 8082 in Water		
	Arochlor 1016	KS-NT,SIA1X
	Arochlor 1221	KS-NT,SIA1X
	Arochlor 1232	KS-NT,SIA1X
	Arochlor 1242	KS-NT,SIA1X
	Arochlor 1248	KS-NT,SIA1X

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

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Story City, IA 50248

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	Arochlor 1254	KS-NT,SIA1X
	Arochlor 1260	KS-NT,SIA1X
EPA 8141 in Water		
	Phorate	KS-NT,SIA1X
	Disulfoton	KS-NT,SIA1X
	Methyl Parathion	KS-NT
EPA 8151A in Water		
	2,4-D	KS-NT,SIA1X
	2,4,5-TP (Silvex)	KS-NT,SIA1X
	2,4,5-T	KS-NT
	Dinoseb	KS-NT
EPA 8260B in Water		
	Dichlorodifluoromethane	KS-NT,SIA1X
	Chloromethane	KS-NT,SIA1X
	Chloromethane	KS-NT,SIA1X
	Vinyl Chloride	KS-NT,SIA1X
	Vinyl Chloride	KS-NT,SIA1X
	Bromomethane	KS-NT,SIA1X
	Bromomethane	KS-NT,SIA1X
	Chloroethane	KS-NT,SIA1X
	Chloroethane	KS-NT,SIA1X
	Trichlorofluoromethane	KS-NT,SIA1X
	Trichlorofluoromethane	KS-NT,SIA1X
	Acrolein	KS-NT,SIA1X
	1,1-Dichloroethylene	KS-NT,SIA1X
	1,1-Dichloroethylene	KS-NT,SIA1X
	Acetone	KS-NT,SIA1X
	Acetone	KS-NT,SIA1X
	Methyl Iodide	SIA1X
	Methyl Iodide	SIA1X
	Carbon Disulfide	KS-NT,SIA1X
	Carbon Disulfide	KS-NT,SIA1X
	Methylene Chloride	KS-NT,SIA1X
	Methylene Chloride	KS-NT,SIA1X
	Acrylonitrile	KS-NT,SIA1X
	trans-1,2-Dichloroethylene	KS-NT,SIA1X
	trans-1,2-Dichloroethylene	KS-NT,SIA1X
	1,1-Dichloroethane	KS-NT,SIA1X
	1,1-Dichloroethane	KS-NT,SIA1X
	Vinyl Acetate	KS-NT,SIA1X
	Vinyl Acetate	KS-NT,SIA1X
	2,2-Dichloropropane	SIA1X
	cis-1,2-Dichloroethylene	KS-NT,SIA1X
	cis-1,2-Dichloroethylene	KS-NT,SIA1X
	2-Butanone (MEK)	KS-NT,SIA1X
	2-Butanone (MEK)	KS-NT,SIA1X
	Bromochloromethane	KS-NT,SIA1X
	Bromochloromethane	KS-NT,SIA1X
	Chloroform	KS-NT,SIA1X
	Chloroform	KS-NT,SIA1X
	1,1,1-Trichloroethane	KS-NT,SIA1X

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1,1,1-Trichloroethane	KS-NT,SIA1X
Carbon Tetrachloride	KS-NT,SIA1X
Carbon Tetrachloride	KS-NT,SIA1X
Benzene	KS-NT,SIA1X
Benzene	KS-NT,SIA1X
1,2-Dichloroethane	KS-NT,SIA1X
1,2-Dichloroethane	KS-NT,SIA1X
Trichloroethylene	KS-NT,SIA1X
Trichloroethylene	KS-NT,SIA1X
1,2-Dichloropropane	KS-NT,SIA1X
1,2-Dichloropropane	KS-NT,SIA1X
Dibromomethane	SIA1X
Dibromomethane	SIA1X
Bromodichloromethane	KS-NT,SIA1X
Bromodichloromethane	KS-NT,SIA1X
cis-1,3-Dichloropropene	KS-NT,SIA1X
cis-1,3-Dichloropropene	KS-NT,SIA1X
4-Methyl-2-pentanone (MIBK)	KS-NT,SIA1X
4-Methyl-2-pentanone (MIBK)	KS-NT,SIA1X
Toluene	KS-NT,SIA1X
Toluene	KS-NT,SIA1X
trans-1,3-Dichloropropene	KS-NT,SIA1X
trans-1,3-Dichloropropene	KS-NT,SIA1X
1,1,2-Trichloroethane	KS-NT,SIA1X
1,1,2-Trichloroethane	KS-NT,SIA1X
Tetrachloroethylene	KS-NT,SIA1X
Tetrachloroethylene	KS-NT,SIA1X
2-Hexanone (MBK)	KS-NT,SIA1X
2-Hexanone (MBK)	KS-NT,SIA1X
Dibromochloromethane	KS-NT,SIA1X
Dibromochloromethane	KS-NT,SIA1X
1,2-Dibromoethane	KS-NT,SIA1X
1,2-Dibromoethane	KS-NT,SIA1X
Chlorobenzene	KS-NT,SIA1X
Chlorobenzene	KS-NT,SIA1X
1,1,1,2-Tetrachloroethane	KS-NT,SIA1X
1,1,1,2-Tetrachloroethane	KS-NT,SIA1X
Ethylbenzene	KS-NT,SIA1X
Ethylbenzene	KS-NT,SIA1X
Xylenes, total	KS-NT,SIA1X
Xylenes, total	KS-NT,SIA1X
Styrene	KS-NT,SIA1X
Styrene	KS-NT,SIA1X
Bromoform	KS-NT,SIA1X
Bromoform	KS-NT,SIA1X
1,2,3-Trichloropropane	KS-NT,SIA1X
1,2,3-Trichloropropane	KS-NT,SIA1X
trans-1,4-Dichloro-2-butene	SIA1X
trans-1,4-Dichloro-2-butene	SIA1X
1,1,2,2-Tetrachloroethane	KS-NT,SIA1X
1,1,2,2-Tetrachloroethane	KS-NT,SIA1X

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Story City, IA 50248

Work Order: 1GD0185

	1,3-Dichlorobenzene	KS-NT,SIA1X
	1,4-Dichlorobenzene	KS-NT,SIA1X
	1,4-Dichlorobenzene	KS-NT,SIA1X
	1,2-Dichlorobenzene	KS-NT,SIA1X
	1,2-Dichlorobenzene	KS-NT,SIA1X
	1,2-Dibromo-3-chloropropane	KS-NT,SIA1X
	1,2-Dibromo-3-chloropropane	KS-NT,SIA1X
	Allyl chloride	SIA1X
	Methacrylonitrile	SIA1X
	Methyl Methacrylate	SIA1X
	Propionitrile	SIA1X
EPA 8270C in Water		
	N-Nitrosodimethylamine	KS-NT,SIA1X
	Methyl Methanesulfonate	SIA1X
	N-Nitrosomethylethylamine	SIA1X
	Ethyl Methanesulfonate	SIA1X
	Phenol	KS-NT,SIA1X
	Bis(2-Chloroethyl) Ether	SIA1X
	2-Chlorophenol	KS-NT,SIA1X
	Benzyl Alcohol	KS-NT,SIA1X
	2-Methylphenol (o-Cresol)	KS-NT,SIA1X
	Bis[2-Chloroisopropyl]ether	KS-NT,SIA1X
	n-Nitroso-di-n-propylamine	KS-NT,SIA1X
	N-Nitrosopyrrolidine	SIA1X
	Acetophenone	SIA1X
	o-Toluidine	SIA1X
	(3 & 4)-Methylphenol	KS-NT,SIA1X
	Hexachloroethane	KS-NT,SIA1X
	Nitrobenzene	KS-NT,SIA1X
	N-Nitrosopiperidine	SIA1X
	Isophorone	KS-NT,SIA1X
	2-Nitrophenol	KS-NT,SIA1X
	2,4-Dimethylphenol	KS-NT,SIA1X
	Bis (2-Chloroethoxy) Methane	KS-NT,SIA1X
	2,4-Dichlorophenol	KS-NT,SIA1X
	Naphthalene	KS-NT,SIA1X
	4-Chloroaniline	KS-NT,SIA1X
	2,6-Dichlorophenol	SIA1X
	Hexachloropropene	SIA1X
	Hexachlorobutadiene	KS-NT,SIA1X
	N-Nitrosodi-n-butylamine	SIA1X
	1,4-Phenylenediamine	SIA1X
	4-Chloro-3-methylphenol	KS-NT,SIA1X
	2-Methylnaphthalene	KS-NT,SIA1X
	Isosafrole	SIA1X
	1,2,4,5-Tetrachlorobenzene	SIA1X
	Hexachlorocyclopentadiene	KS-NT,SIA1X
	2,4,6-Trichlorophenol	KS-NT,SIA1X
	2,4,5-Trichlorophenol	KS-NT,SIA1X
	Safrole	SIA1X
	2-Chloronaphthalene	KS-NT,SIA1X

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Work Order: 1GD0185

2-Nitroaniline	KS-NT,SIA1X
1,4-Naphthoquinone	SIA1X
Dimethylphthalate	KS-NT,SIA1X
1,3-Dinitrobenzene	SIA1X
2,6-Dinitrotoluene	KS-NT,SIA1X
Acenaphthylene	KS-NT,SIA1X
3-Nitroaniline	SIA1X
Acenaphthene	KS-NT,SIA1X
2,4-Dinitrophenol	KS-NT,SIA1X
4-Nitrophenol	KS-NT,SIA1X
Dibenzofuran	KS-NT,SIA1X
2,4-Dinitrotoluene	KS-NT,SIA1X
2,3,4,6-Tetrachlorophenol	SIA1X
Pentachlorobenzene	SIA1X
1-Naphthylamine	SIA1X
2-Naphthylamine	SIA1X
Diethyl Phthalate	KS-NT,SIA1X
Fluorene	KS-NT,SIA1X
4-Chlorophenyl Phenyl Ether	KS-NT,SIA1X
4-Nitroaniline	KS-NT,SIA1X
Bis(2-Ethylhexyl) Phthalate	KS-NT,SIA1X
5-Nitro-o-toluidine	SIA1X
4,6-Dinitro-2-methylphenol	KS-NT,SIA1X
N-Nitrosodiphenylamine	KS-NT
Diphenylamine	SIA1X
Diallate	SIA1X
1,3,5-Trinitrobenzene	SIA1X
Phenacetin	SIA1X
4-Bromophenyl Phenyl Ether	KS-NT,SIA1X
Hexachlorobenzene	KS-NT,SIA1X
4-Aminobiphenyl	SIA1X
Pentachlorophenol	KS-NT,SIA1X
Pronamide	SIA1X
Pentachloronitrobenzene (PCNB)	SIA1X
Phenanthrene	KS-NT,SIA1X
Anthracene	KS-NT,SIA1X
Di-n-butyl Phthalate	KS-NT,SIA1X
Methapyrilene	SIA1X
Fluoranthene	KS-NT,SIA1X
Isodrin	SIA1X
Chlorobenzilate	SIA1X
Pyrene	KS-NT,SIA1X
p-(Dimethylamino)azobenzene	SIA1X
3,3-Dimethylbenzidine	SIA1X
Butyl Benzyl Phthalate	KS-NT,SIA1X
Benzo(a)anthracene	KS-NT,SIA1X
Chrysene	KS-NT,SIA1X
Bis(2-Ethylhexyl) Phthalate	KS-NT,SIA1X
Kepone	SIA1X
3,3´-Dichlorobenzidine	KS-NT,SIA1X
2-Acetylaminofluorene	SIA1X

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Story City, IA 50248

Work Order: 1GD0185

Di-n-octyl Phthalate	KS-NT,SIA1X
Benzo(b)Fluoranthene	KS-NT,SIA1X
7,12-Dimethylbenz [a] anthracene	SIA1X
Benzo(k)Fluoranthene	KS-NT,SIA1X
Benzo(a)Pyrene	KS-NT,SIA1X
Dibenzo(a,h)anthracene	KS-NT,SIA1X
Indeno(1,2,3-cd)Pyrene	KS-NT,SIA1X
Benzo(g,h,i)perylene	KS-NT,SIA1X

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2024
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023
MO-KC	Missouri Department of Natural Resources (KC)	140	04/30/2023
MO-NT	Missouri Department of Natural Resources (Newton)	10170	04/30/2026
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024

Notes and Definitions

PS-01	The post spike recovery was below acceptance limits. However, all other QC was acceptable.
QB-12	The analyte was found in the blank at a concentration greater than one-half the reporting limit. However, the concentration of the analyte in the blank was less than the reporting limit so the data was accepted.
QM-05	The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-19	The MS or MSD recovery was outside acceptance limits.This resulted in an unacceptable RPD. All other QC was acceptable.
QM-21	The recovery for the blank spike was outside the established laboratory control limits. The batch was accepted based upon the acceptable recovery of the CCV.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-05	The reference standard was outside of established control limits. The batch was accepted based on acceptable LCS, MS/MSD and RPD results.
QR-06	The reference standard was outside of established control limits.
QS-01	The blank spike recovery and/or blank spike duplicate recovery were outside the established acceptance limits. Batch was accepted based on acceptable MS/MSD/RPD results.
QS-02	The spike recovery for this QC sample exceeded established acceptance limits. However, all samples were below the reporting and/or regulatory limit so the data is acceptable.
QS-06	The spike recovery for this QC sample was outside of established control limits.
S-07	The surrogate recovery for this sample is outside of established control limits.
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

HLW Engineering
PO Box 314
Story City, IA 50248

Work Order: 1GD0185

End of Report

Sue Thompson

Keystone Laboratories

Sue Thompson
Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.
600 East 17th Street So
Newton, IA 50208
641-792-8451

1GD0185

HLW Engineering
PM: Sue Thompson

Printed: 3/29/2023 4:31:35AM

www.keystonelabs.cc

SITE INFORMATION

Sampler: TODD WHIPPLE

Project: Fayette Co. Landfill-New Regs
6040

SPECIAL INSTRUCTIONS

None

Turn Around Time

☐ Standard ☐ RUSH, need by ___/___/___

REPORT TO

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

Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, IA 52142

LAB USE ONLY

Work Order 1GD0185
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
01-001	MW-12	Water	GRAB	4/3/23	13:12	7	indfill-app1-voc-group indfil-app1-metals-6020	01
02-001	MW-21	Water	GRAB	4/3/23	10:53	7	indfill-app1-voc-group indfil-app1-metals-6020	02
03-001	MW-17	Water	GRAB	4/3/23	11:23	7	indfill-app1-voc-group indfil-app1-metals-6020	03
04-001	MW-5	Water	GRAB	4/3/23	12:18	8	indfill-app1-voc-group indfil-app1-metals-6020 sulf-i-376.2-regeu	04
05-001	MW-7	Water	GRAB	4/3/23	14:42	7	indfill-app1-voc-group indfil-app1-metals-6020	05
06-001	MW-9	Water	GRAB	4/3/23	15:38	17	indfil-app2-inorg-6020 indfil-app2-org	06
07-001	MW-16	Water	GRAB	4/3/23	10:01	7	indfill-app1-voc-group indfil-app1-metals-6020	07

Relinquished By: Todd Whipple Date/Time: 4/4/23

Received By Date/Time

Relinquished By Date/Time

Received for Lab By: [signature] Date/Time: 4-4-23 9:17

Remarks:

Original - Lab Copy Yellow - Sampler Copy

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.
600 East 17th Street Sout
Newton, IA 50208
641-792-8451

1 G D 0 1 8 5

nted: 3/29/2023 4:31:35AM

www.keystonelabs.co

HLW Engineering
PM: Sue Thompson

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 1GD0185
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
08-001	MW-24	Water	GRAB	4/3/23	14:26	7	Indfill-app1-voc-group	Indfil-app1-metals-6020	08
09-001	MW-25 + MS + MSD	Water	GRAB	4/3/23	16:45	17	Indfil-app2-inorg-6020	Indfil-app2-org	09
10-001	MW-26	Water	GRAB	4/3/23	16:12	17	Indfil-app2-inorg-6020	Indfil-app2-org	10
11-001	MW-32	Water	GRAB	4/3/23	13:39	7	Indfill-app1-voc-group	Indfil-app1-metals-6020	11
12-001	MW-33	Water	GRAB	4/3/23	13:58	8	8270-110 Indfill-app1-metals-6020	Indfill-app1-voc-group	12
13-001	ACM Tile 1	Water	GRAB	4/3/23	10:35	7	as-t-6020	Indfill-app1-voc-group	13
14-001	PECS-1	Water	GRAB	4/3/23	10:40	6	Indfill-app1-voc-group		14

Relinquished By 4/4/23 Date/Time

Received By Date/Time

Relinquished By Date/Time

Received for Lab By 4-4-23 9:17 Date/Time

Remarks:

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CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.
600 East 17th Str
Newton, IA 50208
641-792-3451

1GD0185

HLW Engineering
PM: Sue Thompson

Printed: 3/29/2023 4:31:35AM
www.keystonelabs.cc

SITE INFORMATION
Sampler: TODD WHIPPLE
Project: Fayette Co. Landfill-New Regs
6040

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

CE 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 1GD0185
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
15-001	MW-11	Water	GRAB	4/3/23	13:04	7	landfill-appI-voc-group	landfil-appI-metals-6020	15
16-001	MW-14R	Water	GRAB	4/3/23	12:40	7	landfill-appI-voc-group	landfil-appI-metals-6020	16
17-001	MW-18	Water	GRAB	4/3/23	11:35	7	landfill-appI-voc-group	landfil-appI-metals-6020	17
18-001	MW-20	Water	GRAB	4/3/23	11:02	7	landfill-appI-voc-group	landfil-appI-metals-6020	18
19-001	MW-6	Water	GRAB	4/3/23	10:12	7	landfill-appI-voc-group	landfil-appI-metals-6020	19
20-001	MW-8	Water	GRAB	4/3/23	14:54	7	landfill-appI-voc-group	landfil-appI-metals-6020	20
21-001	MW-10	Water	GRAB	4/3/23	15:18	7	landfill-appI-voc-group	landfil-appI-metals-6020	21

Relinquished By Todd Whipple Date/Time 4/4/23

Received By Date/Time

Relinquished By Date/Time

Received for Lab By Date/Time 4-4-23 9:17

Remarks:

Original - Lab Copy Yellow - Sampler Copy

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.
600 East 17th Street S
Newton, IA 50208
641-792-8451

Printed: 3/29/2023 4:31:35AM

1GD0185

HLW Engineering
PM: Sue Thompson

www.keystonelabs.cc

SITE INFORMATION

Sampler: TODD WHIPPLE

Project: Fayette Co. Landfill-New Regs

6040

REPORT

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

O

Fayette County Landfill
10275 Kornhill Road
Fayette, IA 52142

SPECIAL INSTRUCTIONS

None

Turn Around Time

☐ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1GD0185

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
22-001	Duplicate	Water	GRAB	4/3/23	✓	7	landfill-appI-voc-group landfill-appI-metals-6020	22
23-001	MS @ MW 25	Water	GRAB	4/3/23	16:45	5		23
24-001	MSD @ MW 25	Water	GRAB	4/3/23	16:45	5		24

Relinquished By: Todd Whipple Date/Time: 4/4/23

Received By Date/Time

Relinquished By Date/Time

Received for Lab By: [signature] Date/Time: 4-4-23 9:17

Remarks:

Original - Lab Copy Yellow - Sampler Copy

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GJ1446

Project Description

Fayette Co. Landfill-New Regs

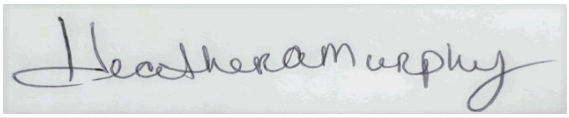
For:

Todd Whipple

HLW Engineering

PO Box 314

Story City, IA 50248



Heather Murphy

Customer Relationship Specialist

Wednesday, November 22, 2023

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

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

Keystone LABORATORIES
A Microbac Company

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GJ1446

HLW Engineering

Todd Whipple
PO Box 314
Story City, IA 50248

Project Name: Fayette Co. Landfill-New Regs

Project / PO Number: / 6040
Received: 10/17/2023
Reported: 11/22/2023

Sample Summary Report

Sample Name	Laboratory ID	Client Matrix	Sample Type	Sample Begin	Sample Taken	Lab Received
MW-12	1GJ1446-01	Water	GRAB		10/16/23 10:55	10/17/23 11:00
MW-17	1GJ1446-02	Water	GRAB		10/16/23 10:13	10/17/23 11:00
MW-5	1GJ1446-03	Water	GRAB		10/16/23 11:59	10/17/23 11:00
MW-7	1GJ1446-04	Water	GRAB		10/16/23 13:26	10/17/23 11:00
MW-9	1GJ1446-05	Water	GRAB		10/16/23 15:12	10/17/23 11:00
MW-16	1GJ1446-06	Water	GRAB		10/16/23 08:26	10/17/23 11:00
MW-25	1GJ1446-07	Water	GRAB		10/16/23 12:50	10/17/23 11:00
MW-26	1GJ1446-08	Water	GRAB		10/16/23 08:57	10/17/23 11:00
MW-32	1GJ1446-09	Water	GRAB		10/16/23 14:00	10/17/23 11:00
MW-33	1GJ1446-10	Water	GRAB		10/16/23 14:27	10/17/23 11:00
ACM Tile 1	1GJ1446-11	Water	GRAB		10/16/23 09:30	10/17/23 11:00
PECS-1	1GJ1446-12	Water	GRAB		10/16/23 09:24	10/17/23 11:00
MW-11	1GJ1446-13	Water	GRAB		10/16/23 11:10	10/17/23 11:00
MW-14R	1GJ1446-14	Water	GRAB		10/16/23 11:31	10/17/23 11:00
MW-18	1GJ1446-15	Water	GRAB		10/16/23 09:53	10/17/23 11:00
MW-20	1GJ1446-16	Water	GRAB		10/16/23 10:27	10/17/23 11:00
MW-6	1GJ1446-17	Water	GRAB		10/16/23 08:41	10/17/23 11:00
MW-8	1GJ1446-18	Water	GRAB		10/16/23 13:16	10/17/23 11:00
MW-10	1GJ1446-19	Water	GRAB		10/16/23 15:05	10/17/23 11:00
Duplicate	1GJ1446-20	Water	GRAB		10/16/23 00:00	10/17/23 11:00

Analytical Testing Parameters

Client Sample ID:	MW-12		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-01	**Collection Date:**	10/16/2023 10:55

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		10/19/23 0000	10/19/23 1438	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/25/23 2032	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS

Client Sample ID:	MW-12		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-01	**Collection Date:**	10/16/2023 10:55

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1438	LJS
Surrogate: Dibromofluoromethane	109	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1438	LJS
Surrogate: Dibromofluoromethane	92.3	Limit: 80-126	% Rec	1		10/26/23 0000	10/25/23 2032	LNH
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1438	LJS
Surrogate: 1,2-Dichloroethane-d4	96.3	Limit: 63-138	% Rec	1		10/26/23 0000	10/25/23 2032	LNH
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1438	LJS
Surrogate: Toluene-d8	97.0	Limit: 87-116	% Rec	1		10/26/23 0000	10/25/23 2032	LNH
Surrogate: 4-Bromofluorobenzene	111	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1438	LJS
Surrogate: 4-Bromofluorobenzene	99.4	Limit: 85-111	% Rec	1		10/26/23 0000	10/25/23 2032	LNH

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 410.4								
COD, total	<20	20	mg/L	1		11/01/23 0713	11/01/23 1535	AKK
TIMBERLINE								
Nitrogen, Ammonia	<0.10	0.10	mg/L	1		10/19/23 1149	10/19/23 1542	LJS

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	**4.4**	1.0	mg/L	1		10/24/23 0000	10/24/23 2112	MID

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		10/18/23 1521	10/19/23 2052	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Barium, total	**0.129**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Cobalt, total	**0.0007**	0.0004	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2052	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2052	RVV

Client Sample ID:	MW-12		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-01	**Collection Date:**	10/16/2023 10:55

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2052	RVV

Client Sample ID:	MW-17		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-02	**Collection Date:**	10/16/2023 10:13

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		10/19/23 0000	10/19/23 1505	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/25/23 2054	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS

Client Sample ID:	MW-17		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-02	**Collection Date:**	10/16/2023 10:13

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		10/19/23 0000	10/19/23 1505	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1505	LJS
Surrogate: Dibromofluoromethane	93.0	Limit: 80-126	% Rec	1		10/26/23 0000	10/25/23 2054	LNH
Surrogate: Dibromofluoromethane	112	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1505	LJS
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1505	LJS
Surrogate: 1,2-Dichloroethane-d4	96.5	Limit: 63-138	% Rec	1		10/26/23 0000	10/25/23 2054	LNH
Surrogate: Toluene-d8	97.3	Limit: 87-116	% Rec	1		10/26/23 0000	10/25/23 2054	LNH
Surrogate: Toluene-d8	105	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1505	LJS
Surrogate: 4-Bromofluorobenzene	98.7	Limit: 85-111	% Rec	1		10/26/23 0000	10/25/23 2054	LNH
Surrogate: 4-Bromofluorobenzene	112	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1505	LJS

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 410.4								
COD, total	<20	20	mg/L	1		11/01/23 0713	11/01/23 1535	AKK
TIMBERLINE								
Nitrogen, Ammonia	<0.10	0.10	mg/L	1		10/19/23 1149	10/19/23 1506	LJS

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	**24.1**	1.0	mg/L	1		10/24/23 0000	10/24/23 2130	MID

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		10/18/23 1521	10/19/23 2128	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Barium, total	**0.111**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2128	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2128	RVV

Client Sample ID:	MW-5		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-03	**Collection Date:**	10/16/2023 11:59

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		10/19/23 0000	10/19/23 1532	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Chloroethane	**4.0**	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/25/23 2117	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
cis-1,2-Dichloroethylene	**1.6**	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Benzene	**4.5**	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Chlorobenzene	**1.0**	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS

Client Sample ID:	MW-5		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-03	**Collection Date:**	10/16/2023 11:59

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1532	LJS
Surrogate: Dibromofluoromethane	109	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1532	LJS
Surrogate: Dibromofluoromethane	92.3	Limit: 80-126	% Rec	1		10/26/23 0000	10/25/23 2117	LNH
Surrogate: 1,2-Dichloroethane-d4	96.6	Limit: 63-138	% Rec	1		10/26/23 0000	10/25/23 2117	LNH
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1532	LJS
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1532	LJS
Surrogate: Toluene-d8	97.4	Limit: 87-116	% Rec	1		10/26/23 0000	10/25/23 2117	LNH
Surrogate: 4-Bromofluorobenzene	99.1	Limit: 85-111	% Rec	1		10/26/23 0000	10/25/23 2117	LNH
Surrogate: 4-Bromofluorobenzene	112	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1532	LJS

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
2320B								
Alkalinity, as CaCO3	**663**	50	mg/L	1		10/23/23 0909	10/23/23 1447	BSS
EPA 376.2								
Sulfide, total	**0.17**	0.10	mg/L	1		10/20/23 0947	10/20/23 1340	CHP
EPA 410.4								
COD, total	**44**	20	mg/L	1		11/01/23 0713	11/01/23 1535	AKK
SM 4500 H+ B								
pH	**6.4**	0.5	pH	1	**I-03**		10/18/23 1700	BSS
TIMBERLINE								
Nitrogen, Ammonia	**4.80**	0.10	mg/L	1		10/19/23 1149	10/19/23 1508	LJS

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	**3.6**	1.0	mg/L	1			10/26/23 1454	MID

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		10/18/23 1521	10/19/23 2134	RVV
Arsenic, total	**0.0137**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Barium, total	**0.509**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Cobalt, total	**0.0009**	0.0004	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2134	RVV

Client Sample ID:	MW-5		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-03	**Collection Date:**	10/16/2023 11:59

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2134	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2134	RVV

Client Sample ID:	MW-7		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-04	**Collection Date:**	10/16/2023 13:26

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		10/19/23 0000	10/19/23 1558	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/25/23 2140	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS

Client Sample ID:	MW-7		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-04	**Collection Date:**	10/16/2023 13:26

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		10/19/23 0000	10/19/23 1558	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1558	LJS
Surrogate: Dibromofluoromethane	110	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1558	LJS
Surrogate: Dibromofluoromethane	93.0	Limit: 80-126	% Rec	1		10/26/23 0000	10/25/23 2140	LNH
Surrogate: 1,2-Dichloroethane-d4	98.7	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1558	LJS
Surrogate: 1,2-Dichloroethane-d4	97.1	Limit: 63-138	% Rec	1		10/26/23 0000	10/25/23 2140	LNH
Surrogate: Toluene-d8	97.5	Limit: 87-116	% Rec	1		10/26/23 0000	10/25/23 2140	LNH
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1558	LJS
Surrogate: 4-Bromofluorobenzene	112	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1558	LJS
Surrogate: 4-Bromofluorobenzene	98.3	Limit: 85-111	% Rec	1		10/26/23 0000	10/25/23 2140	LNH

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 410.4								
COD, total	<20	20	mg/L	1		11/01/23 0713	11/01/23 1535	AKK
TIMBERLINE								
Nitrogen, Ammonia	<0.10	0.10	mg/L	1		10/19/23 1149	10/19/23 1509	LJS

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	**14.9**	1.0	mg/L	1		10/24/23 0000	10/24/23 2149	MID

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		10/18/23 1521	10/19/23 2141	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Barium, total	**0.0360**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2141	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2141	RVV

Client Sample ID:	MW-9		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-05	**Collection Date:**	10/16/2023 15:12

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		10/19/23 0000	10/19/23 1625	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/25/23 2203	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS

Client Sample ID:	MW-9		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-05	**Collection Date:**	10/16/2023 15:12

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1625	LJS
Surrogate: Dibromofluoromethane	109	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1625	LJS
Surrogate: Dibromofluoromethane	93.4	Limit: 80-126	% Rec	1		10/26/23 0000	10/25/23 2203	LNH
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1625	LJS
Surrogate: 1,2-Dichloroethane-d4	97.0	Limit: 63-138	% Rec	1		10/26/23 0000	10/25/23 2203	LNH
Surrogate: Toluene-d8	96.8	Limit: 87-116	% Rec	1		10/26/23 0000	10/25/23 2203	LNH
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1625	LJS
Surrogate: 4-Bromofluorobenzene	111	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1625	LJS
Surrogate: 4-Bromofluorobenzene	98.5	Limit: 85-111	% Rec	1		10/26/23 0000	10/25/23 2203	LNH

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 410.4								
COD, total	<20	20	mg/L	1		11/01/23 0713	11/01/23 1535	AKK
TIMBERLINE								
Nitrogen, Ammonia	<0.10	0.10	mg/L	1		10/19/23 1149	10/19/23 1511	LJS

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	**74.1**	10.0	mg/L	10		10/25/23 0000	10/25/23 1838	MID

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		10/18/23 1521	10/23/23 1255	RVV
Arsenic, total	**0.0061**	0.0040	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Barium, total	**0.435**	0.0040	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Cobalt, total	**0.0017**	0.0004	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Nickel, total	**0.0084**	0.0040	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/23/23 1255	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/23/23 1255	RVV

Client Sample ID:	MW-16		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-06	**Collection Date:**	10/16/2023 8:26

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		10/19/23 0000	10/19/23 1652	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/25/23 2225	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS

Client Sample ID:	MW-16		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-06	**Collection Date:**	10/16/2023 8:26

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		10/19/23 0000	10/19/23 1652	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1652	LJS
Surrogate: Dibromofluoromethane	109	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1652	LJS
Surrogate: Dibromofluoromethane	92.7	Limit: 80-126	% Rec	1		10/26/23 0000	10/25/23 2225	LNH
Surrogate: 1,2-Dichloroethane-d4	97.0	Limit: 63-138	% Rec	1		10/26/23 0000	10/25/23 2225	LNH
Surrogate: 1,2-Dichloroethane-d4	99.8	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1652	LJS
Surrogate: Toluene-d8	96.5	Limit: 87-116	% Rec	1		10/26/23 0000	10/25/23 2225	LNH
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1652	LJS
Surrogate: 4-Bromofluorobenzene	99.8	Limit: 85-111	% Rec	1		10/26/23 0000	10/25/23 2225	LNH
Surrogate: 4-Bromofluorobenzene	112	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1652	LJS

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 410.4								
COD, total	<20	20	mg/L	1		11/01/23 0713	11/01/23 1535	AKK
TIMBERLINE								
Nitrogen, Ammonia	**0.13**	0.10	mg/L	1		10/19/23 1149	10/19/23 1512	LJS

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	**28.9**	1.0	mg/L	1		10/24/23 0000	10/24/23 2207	MID

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		10/18/23 1521	10/19/23 2153	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Barium, total	**0.133**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2153	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2153	RVV

Client Sample ID:	MW-25		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-07	**Collection Date:**	10/16/2023 12:50

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		10/19/23 0000	10/19/23 1718	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/25/23 2248	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS

Client Sample ID:	MW-25		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-07	**Collection Date:**	10/16/2023 12:50

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		10/19/23 0000	10/19/23 1718	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1718	LJS
Surrogate: Dibromofluoromethane	108	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1718	LJS
Surrogate: Dibromofluoromethane	92.7	Limit: 80-126	% Rec	1		10/26/23 0000	10/25/23 2248	LNH
Surrogate: 1,2-Dichloroethane-d4	96.4	Limit: 63-138	% Rec	1		10/26/23 0000	10/25/23 2248	LNH
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1718	LJS
Surrogate: Toluene-d8	97.1	Limit: 87-116	% Rec	1		10/26/23 0000	10/25/23 2248	LNH
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1718	LJS
Surrogate: 4-Bromofluorobenzene	98.8	Limit: 85-111	% Rec	1		10/26/23 0000	10/25/23 2248	LNH
Surrogate: 4-Bromofluorobenzene	112	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1718	LJS

Determination of Base/Neutral Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C								
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L	1		10/19/23 0931	10/31/23 1805	EPP
Surrogate: Nitrobenzene-d5	62.5	Limit: 29-130	% Rec	1		10/19/23 0931	10/31/23 1805	EPP
Surrogate: 2-Fluorobiphenyl	60.0	Limit: 23-113	% Rec	1		10/19/23 0931	10/31/23 1805	EPP
Surrogate: Terphenyl-dl4	82.6	Limit: 27-141	% Rec	1		10/19/23 0931	10/31/23 1805	EPP

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 410.4								
COD, total	<20	20	mg/L	1		11/01/23 0713	11/01/23 1535	AKK
TIMBERLINE								
Nitrogen, Ammonia	<0.10	0.10	mg/L	1		10/19/23 1149	10/19/23 1513	LJS

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	**21.3**	1.0	mg/L	1		10/24/23 0000	10/24/23 2225	MID

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		10/18/23 1521	10/19/23 2159	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Barium, total	**0.103**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2159	RVV

Client Sample ID:	MW-25		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-07	**Collection Date:**	10/16/2023 12:50

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2159	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2159	RVV

Client Sample ID:	MW-26		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-08	**Collection Date:**	10/16/2023 8:57

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		10/19/23 0000	10/19/23 1745	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Acetone	**27.1**	10.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/25/23 2311	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS

Client Sample ID:	MW-26		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-08	**Collection Date:**	10/16/2023 8:57

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		10/19/23 0000	10/19/23 1745	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1745	LJS
Surrogate: Dibromofluoromethane	92.4	Limit: 80-126	% Rec	1		10/26/23 0000	10/25/23 2311	LNH
Surrogate: Dibromofluoromethane	107	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1745	LJS
Surrogate: 1,2-Dichloroethane-d4	97.3	Limit: 63-138	% Rec	1		10/26/23 0000	10/25/23 2311	LNH
Surrogate: 1,2-Dichloroethane-d4	99.8	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1745	LJS
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1745	LJS
Surrogate: Toluene-d8	96.7	Limit: 87-116	% Rec	1		10/26/23 0000	10/25/23 2311	LNH
Surrogate: 4-Bromofluorobenzene	113	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1745	LJS
Surrogate: 4-Bromofluorobenzene	98.9	Limit: 85-111	% Rec	1		10/26/23 0000	10/25/23 2311	LNH

Determination of Base/Neutral Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C								
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L	1		10/19/23 0931	10/31/23 1829	EPP
Surrogate: Nitrobenzene-d5	71.3	Limit: 29-130	% Rec	1		10/19/23 0931	10/31/23 1829	EPP
Surrogate: 2-Fluorobiphenyl	74.2	Limit: 23-113	% Rec	1		10/19/23 0931	10/31/23 1829	EPP
Surrogate: Terphenyl-dl4	101	Limit: 27-141	% Rec	1		10/19/23 0931	10/31/23 1829	EPP

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 410.4								
COD, total	<20	20	mg/L	1		11/01/23 0713	11/01/23 1535	AKK
TIMBERLINE								
Nitrogen, Ammonia	<0.10	0.10	mg/L	1		10/19/23 1149	10/19/23 1515	LJS

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	**19.9**	10.0	mg/L	10		10/25/23 0000	10/25/23 1856	MID

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		10/18/23 1521	10/19/23 2205	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Barium, total	**0.0465**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Cobalt, total	**0.0136**	0.0004	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2205	RVV

Client Sample ID:	MW-26		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-08	**Collection Date:**	10/16/2023 8:57

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Nickel, total	**0.0093**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2205	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2205	RVV

Client Sample ID:	MW-32		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-09	**Collection Date:**	10/16/2023 14:00

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		10/19/23 0000	10/19/23 1812	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/25/23 2334	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS

Client Sample ID:	MW-32		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-09	**Collection Date:**	10/16/2023 14:00

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		10/19/23 0000	10/19/23 1812	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1812	LJS
Surrogate: Dibromofluoromethane	107	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1812	LJS
Surrogate: Dibromofluoromethane	93.1	Limit: 80-126	% Rec	1		10/26/23 0000	10/25/23 2334	LNH
Surrogate: 1,2-Dichloroethane-d4	99.2	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1812	LJS
Surrogate: 1,2-Dichloroethane-d4	97.0	Limit: 63-138	% Rec	1		10/26/23 0000	10/25/23 2334	LNH
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1812	LJS
Surrogate: Toluene-d8	98.2	Limit: 87-116	% Rec	1		10/26/23 0000	10/25/23 2334	LNH
Surrogate: 4-Bromofluorobenzene	111	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1812	LJS
Surrogate: 4-Bromofluorobenzene	98.3	Limit: 85-111	% Rec	1		10/26/23 0000	10/25/23 2334	LNH

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 410.4								
COD, total	<20	20	mg/L	1		11/01/23 0713	11/01/23 1535	AKK
TIMBERLINE								
Nitrogen, Ammonia	<0.10	0.10	mg/L	1		10/23/23 1009	10/23/23 1530	LJS

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	**26.9**	10.0	mg/L	10		10/25/23 0000	10/25/23 1914	MID

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		10/18/23 1521	10/19/23 2211	RVV
Arsenic, total	**0.0089**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Barium, total	**0.460**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2211	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2211	RVV

Client Sample ID:	MW-33		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-10	**Collection Date:**	10/16/2023 14:27

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Dichlorodifluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Chloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Acrolein	<10.0	10.0	ug/L	1		10/24/23 0000	10/24/23 1716	LNH
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Methyl Iodide	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Acetonitrile	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1407	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
2,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
2-Butanone (MEK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,1-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Ethyl Methacrylate	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,3-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS

Client Sample ID:	MW-33		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-10	**Collection Date:**	10/16/2023 14:27

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,3-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
1,2,4-Trichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1252	LJS
Allyl chloride	<1.0	1.0	ug/L	1		11/01/23 0000	11/01/23 1254	LJS
Chloroprene	<1.0	1.0	ug/L	1		11/01/23 0000	11/01/23 1254	LJS
Methacrylonitrile	<1.0	1.0	ug/L	1		11/01/23 0000	11/01/23 1254	LJS
Methyl Methacrylate	<1.0	1.0	ug/L	1		11/01/23 0000	11/01/23 1254	LJS
Propionitrile	<10.0	10.0	ug/L	1		11/01/23 0000	11/01/23 1254	LJS
Surrogate: Dibromofluoromethane	114	Limit: 80-126	% Rec	1		10/19/23 0000	10/19/23 1252	LJS
Surrogate: Dibromofluoromethane	92.6	Limit: 80-126	% Rec	1		11/01/23 0000	11/01/23 1254	LJS
Surrogate: 1,2-Dichloroethane-d4	97.5	Limit: 63-138	% Rec	1		10/24/23 0000	10/24/23 1716	LNH
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 63-138	% Rec	1		10/20/23 0000	10/20/23 1407	LNH
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 63-138	% Rec	1		10/19/23 0000	10/19/23 1252	LJS
Surrogate: 1,2-Dichloroethane-d4	85.4	Limit: 63-138	% Rec	1		11/01/23 0000	11/01/23 1254	LJS
Surrogate: Toluene-d8	98.2	Limit: 87-116	% Rec	1		10/24/23 0000	10/24/23 1716	LNH
Surrogate: Toluene-d8	101	Limit: 87-116	% Rec	1		10/20/23 0000	10/20/23 1407	LNH
Surrogate: Toluene-d8	104	Limit: 87-116	% Rec	1		10/19/23 0000	10/19/23 1252	LJS
Surrogate: Toluene-d8	99.0	Limit: 87-116	% Rec	1		11/01/23 0000	11/01/23 1254	LJS
Surrogate: 4-Bromofluorobenzene	113	Limit: 85-111	% Rec	1	S-GC	10/19/23 0000	10/19/23 1252	LJS
Surrogate: 4-Bromofluorobenzene	98.1	Limit: 85-111	% Rec	1		10/24/23 0000	10/24/23 1716	LNH
Surrogate: 4-Bromofluorobenzene	102	Limit: 85-111	% Rec	1		10/20/23 0000	10/20/23 1407	LNH
Surrogate: 4-Bromofluorobenzene	95.3	Limit: 85-111	% Rec	1		11/01/23 0000	11/01/23 1254	LJS

Determination of General Solvents	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 8015C								
Isobutanol	<1.0	1.0	mg/L	1		10/18/23 1219	10/19/23 0218	PDS

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C		**Method Notes:** O-05						
N-Nitrosodimethylamine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Methyl Methanesulfonate	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
N-Nitrosodiethylamine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP

Client Sample ID:	MW-33		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-10	**Collection Date:**	10/16/2023 14:27

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
N-Nitrosomethylethylamine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Ethyl Methanesulfonate	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Phenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Bis(2-Chloroethyl) Ether	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2-Chlorophenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Benzyl Alcohol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2-Methylphenol (o-Cresol)	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Bis[2-Chloroisopropyl]ether	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
n-Nitroso-di-n-propylamine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
N-Nitrosopyrrolidine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Acetophenone	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
o-Toluidine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
(3 & 4)-Methylphenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Hexachloroethane	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Nitrobenzene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
N-Nitrosopiperidine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Isophorone	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2-Nitrophenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2,4-Dimethylphenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Bis (2-Chloroethoxy) Methane	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2,4-Dichlorophenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Naphthalene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
4-Chloroaniline	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2,6-Dichlorophenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Hexachloropropene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Hexachlorobutadiene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
N-Nitrosodi-n-butylamine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
1,4-Phenylenediamine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
4-Chloro-3-methylphenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2-Methylnaphthalene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Isosafrole	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
1,2,4,5-Tetrachlorobenzene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Hexachlorocyclopentadiene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2,4,6-Trichlorophenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2,4,5-Trichlorophenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Safrole	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2-Chloronaphthalene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2-Nitroaniline	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
1,4-Naphthoquinone	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Dimethylphthalate	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
1,3-Dinitrobenzene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
1,2-Dinitrobenzene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2,6-Dinitrotoluene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP

Client Sample ID:	MW-33		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-10	**Collection Date:**	10/16/2023 14:27

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Acenaphthylene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
3-Nitroaniline	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Acenaphthene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2,4-Dinitrophenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
4-Nitrophenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Dibenzofuran	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2,4-Dinitrotoluene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2,3,4,6-Tetrachlorophenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Pentachlorobenzene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
1-Naphthylamine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2-Naphthylamine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Diethyl Phthalate	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Fluorene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
4-Chlorophenyl Phenyl Ether	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
4-Nitroaniline	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
5-Nitro-o-toluidine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
4,6-Dinitro-2-methylphenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
N-Nitrosodiphenylamine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Diphenylamine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Azobenzene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Diallate	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
1,3,5-Trinitrobenzene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Phenacetin	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
4-Bromophenyl Phenyl Ether	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
4-Aminobiphenyl	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Pentachlorophenol	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Pronamide	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Pentachloronitrobenzene (PCNB)	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Phenanthrene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Anthracene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Di-n-butyl Phthalate	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Methapyrilene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Fluoranthene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Isodrin	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Chlorobenzilate	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Pyrene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
p-(Dimethylamino)azobenzene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
3,3-Dimethylbenzidine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Butyl Benzyl Phthalate	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Benzo(a)anthracene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Chrysene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Kepone	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP

Client Sample ID:	MW-33		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-10	**Collection Date:**	10/16/2023 14:27

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
3,3´-Dichlorobenzidine	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
2-Acetylaminofluorene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Di-n-octyl Phthalate	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Benzo(b)Fluoranthene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
7,12-Dimethylbenz [a] anthracene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Benzo(k)Fluoranthene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Benzo(a)Pyrene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
3-Methylcholanthrene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Dibenzo(a,h)anthracene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Indeno(1,2,3-cd)Pyrene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Benzo(g,h,i)perylene	<8	8	ug/L	1		11/15/23 1357	11/21/23 0935	EPP
Surrogate: 2-Fluorophenol	50.0	Limit: 24-136	% Rec	1		11/15/23 1357	11/21/23 0935	EPP
Surrogate: Phenol-d6	53.8	Limit: 15-140	% Rec	1		11/15/23 1357	11/21/23 0935	EPP
Surrogate: Nitrobenzene-d5	63.2	Limit: 29-130	% Rec	1		11/15/23 1357	11/21/23 0935	EPP
Surrogate: 2-Fluorobiphenyl	65.9	Limit: 23-113	% Rec	1		11/15/23 1357	11/21/23 0935	EPP
Surrogate: 2,4,6-Tribromophenol	73.1	Limit: 15-139	% Rec	1		11/15/23 1357	11/21/23 0935	EPP
Surrogate: Terphenyl-dl4	91.9	Limit: 27-141	% Rec	1		11/15/23 1357	11/21/23 0935	EPP

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 376.2								
Sulfide, total	<0.10	0.10	mg/L	1		10/20/23 0947	10/20/23 1340	CHP
EPA 410.4								
COD, total	**24**	20	mg/L	1		11/01/23 0713	11/01/23 1535	AKK
EPA 9010B								
Cyanide, total	<0.005	0.005	mg/L	1		10/27/23 0843	10/27/23 1657	CHP
TIMBERLINE								
Nitrogen, Ammonia	**0.10**	0.10	mg/L	1		10/23/23 1009	10/23/23 1531	LJS

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	**26.1**	10.0	mg/L	10			10/26/23 1606	MID

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	**0.0028**	0.0020	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Arsenic, total	**0.0256**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Barium, total	**0.972**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Cadmium, total	**0.0065**	0.0008	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Cobalt, total	**0.149**	0.0004	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Copper, total	**0.0083**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2217	RVV

Client Sample ID:	MW-33		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-10	**Collection Date:**	10/16/2023 14:27

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Nickel, total	**0.0469**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/25/23 0001	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Tin, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Vanadium, total	**0.0927**	0.0200	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2217	RVV
EPA 7470A								
Mercury, total	<0.00050	0.00050	mg/L	1		10/19/23 1549	10/20/23 1617	JAR

Client Sample ID:	ACM Tile 1		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-11	**Collection Date:**	10/16/2023 9:30

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		10/19/23 0000	10/19/23 1838	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/25/23 2357	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS

Client Sample ID:	ACM Tile 1		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-11	**Collection Date:**	10/16/2023 9:30

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		10/19/23 0000	10/19/23 1838	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1838	LJS
Surrogate: Dibromofluoromethane	92.7	Limit: 80-126	% Rec	1		10/26/23 0000	10/25/23 2357	LNH
Surrogate: Dibromofluoromethane	107	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1838	LJS
Surrogate: 1,2-Dichloroethane-d4	96.9	Limit: 63-138	% Rec	1		10/26/23 0000	10/25/23 2357	LNH
Surrogate: 1,2-Dichloroethane-d4	99.2	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1838	LJS
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1838	LJS
Surrogate: Toluene-d8	96.7	Limit: 87-116	% Rec	1		10/26/23 0000	10/25/23 2357	LNH
Surrogate: 4-Bromofluorobenzene	112	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1838	LJS
Surrogate: 4-Bromofluorobenzene	98.5	Limit: 85-111	% Rec	1		10/26/23 0000	10/25/23 2357	LNH

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2235	RVV

Client Sample ID:	PECS-1		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-12	**Collection Date:**	10/16/2023 9:24

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		10/19/23 0000	10/19/23 1905	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/26/23 0020	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS

Client Sample ID:	PECS-1		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-12	**Collection Date:**	10/16/2023 9:24

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		10/19/23 0000	10/19/23 1905	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1905	LJS
Surrogate: Dibromofluoromethane	103	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1905	LJS
Surrogate: Dibromofluoromethane	92.8	Limit: 80-126	% Rec	1		10/26/23 0000	10/26/23 0020	LNH
Surrogate: 1,2-Dichloroethane-d4	97.7	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1905	LJS
Surrogate: 1,2-Dichloroethane-d4	97.7	Limit: 63-138	% Rec	1		10/26/23 0000	10/26/23 0020	LNH
Surrogate: Toluene-d8	97.0	Limit: 87-116	% Rec	1		10/26/23 0000	10/26/23 0020	LNH
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1905	LJS
Surrogate: 4-Bromofluorobenzene	112	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1905	LJS
Surrogate: 4-Bromofluorobenzene	98.3	Limit: 85-111	% Rec	1		10/26/23 0000	10/26/23 0020	LNH

Client Sample ID:	MW-11		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-13	**Collection Date:**	10/16/2023 11:10

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		10/19/23 0000	10/19/23 1932	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/26/23 0042	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS

Client Sample ID:	MW-11		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-13	**Collection Date:**	10/16/2023 11:10

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		10/19/23 0000	10/19/23 1932	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1932	LJS
Surrogate: Dibromofluoromethane	92.3	Limit: 80-126	% Rec	1		10/26/23 0000	10/26/23 0042	LNH
Surrogate: Dibromofluoromethane	103	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1932	LJS
Surrogate: 1,2-Dichloroethane-d4	98.3	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1932	LJS
Surrogate: 1,2-Dichloroethane-d4	96.2	Limit: 63-138	% Rec	1		10/26/23 0000	10/26/23 0042	LNH
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1932	LJS
Surrogate: Toluene-d8	97.2	Limit: 87-116	% Rec	1		10/26/23 0000	10/26/23 0042	LNH
Surrogate: 4-Bromofluorobenzene	111	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1932	LJS
Surrogate: 4-Bromofluorobenzene	98.5	Limit: 85-111	% Rec	1		10/26/23 0000	10/26/23 0042	LNH

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		10/18/23 1521	10/19/23 2241	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Barium, total	**0.0608**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Cobalt, total	**0.0011**	0.0004	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Nickel, total	**0.0040**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2241	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2241	RVV

Client Sample ID:	MW-14R		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-14	**Collection Date:**	10/16/2023 11:31

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		10/19/23 0000	10/19/23 1958	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/26/23 0105	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS

Client Sample ID:	MW-14R		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-14	**Collection Date:**	10/16/2023 11:31

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		10/19/23 0000	10/19/23 1958	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 1958	LJS
Surrogate: Dibromofluoromethane	91.6	Limit: 80-126	% Rec	1		10/26/23 0000	10/26/23 0105	LNH
Surrogate: Dibromofluoromethane	107	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 1958	LJS
Surrogate: 1,2-Dichloroethane-d4	95.9	Limit: 63-138	% Rec	1		10/26/23 0000	10/26/23 0105	LNH
Surrogate: 1,2-Dichloroethane-d4	99.3	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 1958	LJS
Surrogate: Toluene-d8	96.2	Limit: 87-116	% Rec	1		10/26/23 0000	10/26/23 0105	LNH
Surrogate: Toluene-d8	106	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 1958	LJS
Surrogate: 4-Bromofluorobenzene	99.1	Limit: 85-111	% Rec	1		10/26/23 0000	10/26/23 0105	LNH
Surrogate: 4-Bromofluorobenzene	112	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 1958	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		10/18/23 1521	10/19/23 2247	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Barium, total	**0.0484**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2247	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2247	RVV

Client Sample ID:	MW-18		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-15	**Collection Date:**	10/16/2023 9:53

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		10/19/23 0000	10/19/23 2025	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/26/23 0128	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS

Client Sample ID:	MW-18		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-15	**Collection Date:**	10/16/2023 9:53

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		10/19/23 0000	10/19/23 2025	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2025	LJS
Surrogate: Dibromofluoromethane	93.0	Limit: 80-126	% Rec	1		10/26/23 0000	10/26/23 0128	LNH
Surrogate: Dibromofluoromethane	106	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 2025	LJS
Surrogate: 1,2-Dichloroethane-d4	96.1	Limit: 63-138	% Rec	1		10/26/23 0000	10/26/23 0128	LNH
Surrogate: 1,2-Dichloroethane-d4	99.1	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 2025	LJS
Surrogate: Toluene-d8	97.0	Limit: 87-116	% Rec	1		10/26/23 0000	10/26/23 0128	LNH
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 2025	LJS
Surrogate: 4-Bromofluorobenzene	98.8	Limit: 85-111	% Rec	1		10/26/23 0000	10/26/23 0128	LNH
Surrogate: 4-Bromofluorobenzene	113	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 2025	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		10/18/23 1521	10/19/23 2253	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Barium, total	**0.457**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2253	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2253	RVV

Client Sample ID:	MW-20		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-16	**Collection Date:**	10/16/2023 10:27

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		10/19/23 0000	10/19/23 2052	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/26/23 0151	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS

Client Sample ID:	MW-20		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-16	**Collection Date:**	10/16/2023 10:27

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		10/19/23 0000	10/19/23 2052	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2052	LJS
Surrogate: Dibromofluoromethane	91.1	Limit: 80-126	% Rec	1		10/26/23 0000	10/26/23 0151	LNH
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 2052	LJS
Surrogate: 1,2-Dichloroethane-d4	97.7	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 2052	LJS
Surrogate: 1,2-Dichloroethane-d4	95.6	Limit: 63-138	% Rec	1		10/26/23 0000	10/26/23 0151	LNH
Surrogate: Toluene-d8	95.8	Limit: 87-116	% Rec	1		10/26/23 0000	10/26/23 0151	LNH
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 2052	LJS
Surrogate: 4-Bromofluorobenzene	113	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 2052	LJS
Surrogate: 4-Bromofluorobenzene	98.1	Limit: 85-111	% Rec	1		10/26/23 0000	10/26/23 0151	LNH

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		10/18/23 1521	10/19/23 2259	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Barium, total	**0.103**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2259	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2259	RVV

Client Sample ID:	MW-6		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-17	**Collection Date:**	10/16/2023 8:41

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		10/19/23 0000	10/19/23 2118	LJS
Vinyl Chloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Bromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Chloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Acetone	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Methyl Iodide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Carbon Disulfide	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Methylene Chloride	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Acrylonitrile	<5.0	5.0	ug/L	1		10/26/23 0000	10/26/23 0213	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Vinyl Acetate	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Bromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Chloroform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Benzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Trichloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Dibromomethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Bromodichloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Toluene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Dibromochloromethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Chlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Ethylbenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Xylenes, total	<2.0	2.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Styrene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Bromoform	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS

Client Sample ID:	MW-6		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-17	**Collection Date:**	10/16/2023 8:41

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		10/19/23 0000	10/19/23 2118	LJS
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/19/23 0000	10/19/23 2118	LJS
Surrogate: Dibromofluoromethane	91.4	Limit: 80-126	% Rec	1		10/26/23 0000	10/26/23 0213	LNH
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec	1		10/19/23 0000	10/19/23 2118	LJS
Surrogate: 1,2-Dichloroethane-d4	97.2	Limit: 63-138	% Rec	1		10/26/23 0000	10/26/23 0213	LNH
Surrogate: 1,2-Dichloroethane-d4	98.3	Limit: 61-142	% Rec	1		10/19/23 0000	10/19/23 2118	LJS
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec	1		10/19/23 0000	10/19/23 2118	LJS
Surrogate: Toluene-d8	97.4	Limit: 87-116	% Rec	1		10/26/23 0000	10/26/23 0213	LNH
Surrogate: 4-Bromofluorobenzene	98.5	Limit: 85-111	% Rec	1		10/26/23 0000	10/26/23 0213	LNH
Surrogate: 4-Bromofluorobenzene	112	Limit: 80-116	% Rec	1		10/19/23 0000	10/19/23 2118	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		10/18/23 1521	10/19/23 2305	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Barium, total	**0.0505**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2305	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2305	RVV

Client Sample ID:	MW-8		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-18	**Collection Date:**	10/16/2023 13:16

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		10/20/23 0000	10/20/23 1213	LNH
Vinyl Chloride	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Bromomethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Chloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Acetone	<10.0	10.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Methyl Iodide	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Carbon Disulfide	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Methylene Chloride	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Acrylonitrile	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Vinyl Acetate	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Bromochloromethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Chloroform	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Benzene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Trichloroethylene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Dibromomethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Bromodichloromethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Toluene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Dibromochloromethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Chlorobenzene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Ethylbenzene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Xylenes, total	<2.0	2.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Styrene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Bromoform	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH

Client Sample ID:	MW-8		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-18	**Collection Date:**	10/16/2023 13:16

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		10/20/23 0000	10/20/23 1213	LNH
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1213	LNH
Surrogate: Dibromofluoromethane	92.7	Limit: 75-136	% Rec	1		10/20/23 0000	10/20/23 1213	LNH
Surrogate: Dibromofluoromethane	92.7	Limit: 80-126	% Rec	1		10/20/23 0000	10/20/23 1213	LNH
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 61-142	% Rec	1		10/20/23 0000	10/20/23 1213	LNH
Surrogate: 1,2-Dichloroethane-d4	103	Limit: 63-138	% Rec	1		10/20/23 0000	10/20/23 1213	LNH
Surrogate: Toluene-d8	101	Limit: 82-121	% Rec	1		10/20/23 0000	10/20/23 1213	LNH
Surrogate: Toluene-d8	101	Limit: 87-116	% Rec	1		10/20/23 0000	10/20/23 1213	LNH
Surrogate: 4-Bromofluorobenzene	102	Limit: 80-116	% Rec	1		10/20/23 0000	10/20/23 1213	LNH
Surrogate: 4-Bromofluorobenzene	102	Limit: 85-111	% Rec	1		10/20/23 0000	10/20/23 1213	LNH

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		10/18/23 1521	10/19/23 2311	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Barium, total	**0.0450**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2311	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2311	RVV

Client Sample ID:	MW-10		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-19	**Collection Date:**	10/16/2023 15:05

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		10/20/23 0000	10/20/23 1236	LNH
Vinyl Chloride	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Bromomethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Chloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Acetone	<10.0	10.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Methyl Iodide	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Carbon Disulfide	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Methylene Chloride	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Acrylonitrile	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Vinyl Acetate	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Bromochloromethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Chloroform	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Benzene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Trichloroethylene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Dibromomethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Bromodichloromethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Toluene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Dibromochloromethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Chlorobenzene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Ethylbenzene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Xylenes, total	<2.0	2.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Styrene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Bromoform	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH

Client Sample ID:	MW-10		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-19	**Collection Date:**	10/16/2023 15:05

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		10/20/23 0000	10/20/23 1236	LNH
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/20/23 0000	10/20/23 1236	LNH
Surrogate: Dibromofluoromethane	93.3	Limit: 75-136	% Rec	1		10/20/23 0000	10/20/23 1236	LNH
Surrogate: Dibromofluoromethane	93.3	Limit: 80-126	% Rec	1		10/20/23 0000	10/20/23 1236	LNH
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 61-142	% Rec	1		10/20/23 0000	10/20/23 1236	LNH
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 63-138	% Rec	1		10/20/23 0000	10/20/23 1236	LNH
Surrogate: Toluene-d8	101	Limit: 87-116	% Rec	1		10/20/23 0000	10/20/23 1236	LNH
Surrogate: Toluene-d8	101	Limit: 82-121	% Rec	1		10/20/23 0000	10/20/23 1236	LNH
Surrogate: 4-Bromofluorobenzene	102	Limit: 85-111	% Rec	1		10/20/23 0000	10/20/23 1236	LNH
Surrogate: 4-Bromofluorobenzene	102	Limit: 80-116	% Rec	1		10/20/23 0000	10/20/23 1236	LNH

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		10/18/23 1521	10/19/23 2317	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Barium, total	**0.0346**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2317	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2317	RVV

Client Sample ID:	Duplicate		
Sample Matrix:	Water	**Collected By:**	Whipple, Todd
Lab Sample ID:	1GJ1446-20	**Collection Date:**	10/16/2023

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		10/18/23 1521	10/19/23 2323	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Barium, total	**0.483**	0.0040	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2323	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/18/23 1521	10/19/23 2323	RVV

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 8015C	1GJ1105	1GJ1105-BS1	
		1GJ1105-BLK1	
		1GJ1105-MS1	1GJ0597-04
		1GJ1105-MSD1	1GJ0597-04
		1GJ1105-BS2	
		1GJ1105-BLK2	
		1GJ1446-10	MW-33
		1GJ1105-MS2	1GJ1452-08
		1GJ1105-MSD2	1GJ1452-08

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1GJ1132	1GJ1132-BLK1	
		1GJ1132-BLK1	
		1GJ1132-BS1	
		1GJ1132-BS1	
		1GJ1446-01	MW-12
		1GJ1132-MS1	1GJ1446-01
		1GJ1132-MS1	1GJ1446-01
		1GJ1132-MSD1	1GJ1446-01
		1GJ1132-MSD1	1GJ1446-01
		1GJ1132-PS1	1GJ1446-01
		1GJ1132-PS1	1GJ1446-01
		1GJ1446-02	MW-17
		1GJ1446-03	MW-5
		1GJ1446-04	MW-7
		1GJ1446-06	MW-16
		1GJ1446-07	MW-25
		1GJ1446-08	MW-26
		1GJ1446-09	MW-32
		1GJ1446-10	MW-33
		1GJ1446-10	MW-33
		1GJ1446-11	ACM Tile 1
		1GJ1446-13	MW-11
		1GJ1446-14	MW-14R
		1GJ1446-15	MW-18
		1GJ1446-16	MW-20
		1GJ1446-17	MW-6
		1GJ1446-18	MW-8
		1GJ1446-19	MW-10
		1GJ1446-20	Duplicate

EPA 6020A	1GJ1132	1GJ1446-05	MW-9
		1GJ1446-10RE1	MW-33

Method	Batch	Laboratory ID	Client / Source ID
SM 4500 H+ B	1GJ1150	1GJ1150-SRM3	
		1GJ1150-SRM2	
		1GJ1150-SRM1	
		1GJ1150-DUP1	1GJ1441-03
		1GJ1446-03	MW-5

Method	Batch	Laboratory ID	Client / Source ID
EPA 8270C	1GJ1170	1GJ1170-BLK1	
		1GJ1170-BS1	
		1GJ1170-BSD1	
		1GJ1446-07	MW-25
		1GJ1446-08	MW-26

Method	Batch	Laboratory ID	Client / Source ID
TIMBERLINE	1GJ1190	1GJ1190-BLK1	
		1GJ1190-BS1	
		1GJ1190-MS1	1GJ1441-02
		1GJ1190-MSD1	1GJ1441-02
		1GJ1446-02	MW-17
		1GJ1446-03	MW-5
		1GJ1446-04	MW-7
		1GJ1446-05	MW-9
		1GJ1446-06	MW-16
		1GJ1446-07	MW-25
		1GJ1446-08	MW-26
		1GJ1446-01	MW-12

Method	Batch	Laboratory ID	Client / Source ID
EPA 7470A	1GJ1226	1GJ1226-BLK1	
		1GJ1226-BS1	
		1GJ1226-MS1	1GJ1415-01
		1GJ1226-MSD1	1GJ1415-01
		1GJ1446-10	MW-33

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1GJ1243	1GJ1243-BS1	
		1GJ1243-BSD1	
		1GJ1243-BLK1	
		1GJ1446-10	MW-33
		1GJ1446-01	MW-12

EPA 8260B	1GJ1243	1GJ1446-02	MW-17
		1GJ1446-03	MW-5
		1GJ1446-04	MW-7
		1GJ1446-05	MW-9
		1GJ1446-06	MW-16
		1GJ1446-07	MW-25
		1GJ1446-08	MW-26
		1GJ1446-09	MW-32
		1GJ1446-11	ACM Tile 1
		1GJ1446-12	PECS-1
		1GJ1446-13	MW-11
		1GJ1446-14	MW-14R
		1GJ1446-15	MW-18
		1GJ1446-16	MW-20
		1GJ1446-17	MW-6
		1GJ1243-MS1	1GJ1446-01
		1GJ1243-MSD1	1GJ1446-01

Method	Batch	Laboratory ID	Client / Source ID
EPA 376.2	1GJ1258	1GJ1446-03	MW-5
		1GJ1258-BS4	
		1GJ1258-MS1	1GJ1464-03
		1GJ1258-BS3	
		1GJ1258-BS1	
		1GJ1258-BS2	
		1GJ1446-10	MW-33
		1GJ1258-MSD1	1GJ1464-03
		1GJ1258-BLK1	

Method	Batch	Laboratory ID	Client / Source ID
2320B	1GJ1304	1GJ1446-03	MW-5
		1GJ1304-MSD1	1GJ1548-04
		1GJ1304-MS1	1GJ1548-04
		1GJ1304-BS1	
		1GJ1304-BLK1	

Method	Batch	Laboratory ID	Client / Source ID
TIMBERLINE	1GJ1314	1GJ1314-BLK1	
		1GJ1314-BS1	
		1GJ1314-MS1	1GJ1484-01
		1GJ1314-MSD1	1GJ1484-01
		1GJ1446-09	MW-32
		1GJ1446-10	MW-33

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1GJ1337	1GJ1337-BS1	
		1GJ1337-BSD1	
		1GJ1337-BLK1	
		1GJ1337-MS1	3GJ0143-01
		1GJ1337-MSD1	3GJ0143-01
		1GJ1337-BLK2	
		1GJ1446-01	MW-12
		1GJ1446-02	MW-17
		1GJ1446-03	MW-5
		1GJ1446-04	MW-7
		1GJ1446-05	MW-9
		1GJ1446-06	MW-16
		1GJ1446-07	MW-25
		1GJ1446-08	MW-26
		1GJ1446-09	MW-32
		1GJ1446-11	ACM Tile 1
		1GJ1446-12	PECS-1
		1GJ1446-13	MW-11
		1GJ1446-14	MW-14R
		1GJ1446-15	MW-18
		1GJ1446-16	MW-20
		1GJ1446-17	MW-6

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1GJ1371	1GJ1371-BS1	
		1GJ1371-BSD1	
		1GJ1371-BLK1	
		1GJ1446-18	MW-8
		1GJ1446-19	MW-10
		1GJ1446-10	MW-33
		1GJ1371-MSD1	1GJ1590-01
		1GJ1371-MS1	1GJ1590-01

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1GJ1487	1GJ1487-BS1	
		1GJ1487-BSD1	
		1GJ1487-BLK1	
		1GJ1446-10RE1	MW-33

Method	Batch	Laboratory ID	Client / Source ID
300.0	1GJ1531	1GJ1531-BLK1	
		1GJ1531-MRL1	

300.0	1GJ1531	1GJ1531-BS1	
		1GJ1531-BSD1	
		1GJ1531-MS1	1GJ1238-01
		1GJ1531-MSD1	1GJ1238-01
		1GJ1531-BLK2	
		1GJ1446-01	MW-12
		1GJ1446-02	MW-17
		1GJ1446-04	MW-7
		1GJ1446-06	MW-16
		1GJ1446-07	MW-25

Method	Batch	Laboratory ID	Client / Source ID
EPA 410.4	1GJ1570	1GJ1570-BLK1	
		1GJ1570-MS1	1GJ1389-01
		1GJ1570-BS1	
		1GJ1570-MSD1	1GJ1389-01

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1GJ1572	1GJ1572-BS1	
		1GJ1572-BSD1	
		1GJ1572-BLK1	
		1GJ1572-BS2	
		1GJ1572-BSD2	
		1GJ1572-BLK2	
		1GJ1572-MS1	1GJ2011-01
		1GJ1572-MSD1	1GJ2011-01

Method	Batch	Laboratory ID	Client / Source ID
300.0	1GJ1619	1GJ1619-BLK1	
		1GJ1619-MRL1	
		1GJ1619-BS1	
		1GJ1619-BSD1	
		1GJ1619-MS1	1GJ1501-01
		1GJ1619-MSD1	1GJ1501-01
		1GJ1446-05	MW-9
		1GJ1446-08	MW-26
		1GJ1446-09	MW-32

Method	Batch	Laboratory ID	Client / Source ID
EPA 9010B	1GJ1646	1GJ1646-BS1	
		1GJ1646-MSD1	1GJ1446-10
		1GJ1646-BLK1	
		1GJ1646-MS1	1GJ1446-10
		1GJ1446-10	MW-33

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1GJ1658	1GJ1658-BS1	
		1GJ1658-BSD1	
		1GJ1658-BLK1	
		1GJ1446-10	MW-33

Method	Batch	Laboratory ID	Client / Source ID
300.0	1GJ1669	1GJ1669-MRL1	
		1GJ1669-BS1	
		1GJ1669-BSD1	
		1GJ1669-BLK1	
		1GJ1446-03	MW-5
		1GJ1669-BLK2	
		1GJ1446-10	MW-33
		1GJ1669-MS1	1GJ1804-01
		1GJ1669-MSD1	1GJ1804-01

Method	Batch	Laboratory ID	Client / Source ID
EPA 410.4	1GK0001	1GJ1446-05RE1	MW-9
		1GK0001-MS1	1GJ1446-01RE1
		1GJ1446-07RE1	MW-25
		1GJ1446-03RE1	MW-5
		1GJ1446-10RE1	MW-33
		1GJ1446-09RE1	MW-32
		1GJ1446-08RE1	MW-26
		1GJ1446-04RE1	MW-7
		1GJ1446-02RE1	MW-17
		1GJ1446-06RE1	MW-16
		1GK0001-BLK1	
		1GK0001-MSD1	1GJ1446-01RE1
		1GK0001-BS1	
		1GJ1446-01RE1	MW-12

Method	Batch	Laboratory ID	Client / Source ID
EPA 8270C	1GK0896	1GK0896-BLK1	
		1GJ1446-10	MW-33
		1GK0896-BS1	
		1GK0896-BSD1	

Batch Quality Control Summary: Keystone Laboratories - Newton

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
Blank (1GJ1243-BLK1)				Prepared: 10/19/23 00:00 Analyzed: 10/19/23 12:25						
Dichlorodifluoromethane	<1.0	1.0	ug/L							
Chloromethane	<1.0	1.0	ug/L							
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<2.0	2.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Acetonitrile	<10.0	10.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
2,2-Dichloropropane	<1.0	1.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<5.0	5.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
1,1-Dichloropropene	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
Blank (1GJ1243-BLK1)				Prepared: 10/19/23 00:00 Analyzed: 10/19/23 12:25						
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
Ethyl Methacrylate	<10.0	10.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
1,3-Dichloropropane	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
Blank (1GJ1243-BLK1)			Prepared: 10/19/23 00:00 Analyzed: 10/19/23 12:25							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,3-Dichlorobenzene	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
1,2,4-Trichlorobenzene	<1.0	1.0	ug/L							
Surrogate: Dibromofluoromethane	*56.1*		ug/L	*50.4*		*111*	*80-126*			
Surrogate: Dibromofluoromethane	*56.1*		ug/L	*50.4*		*111*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*51.4*		ug/L	*50.4*		*102*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*51.4*		ug/L	*50.4*		*102*	*61-142*			
Surrogate: Toluene-d8	*51.6*		ug/L	*50.2*		*103*	*87-116*			
Surrogate: Toluene-d8	*51.6*		ug/L	*50.2*		*103*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*55.7*		ug/L	*50.4*		*110*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*55.7*		ug/L	*50.4*		*110*	*80-116*			
LCS (1GJ1243-BS1)			Prepared: 10/19/23 00:00 Analyzed: 10/19/23 11:05							
Dichlorodifluoromethane	32.72	1.0	ug/L	30.0		109	44-139			
Chloromethane	33.65	1.0	ug/L	30.0		112	56-152			
Chloromethane	33.65	1.0	ug/L	30.0		112	63-155			
Vinyl Chloride	35.22	1.0	ug/L	30.0		117	62-151			
Vinyl Chloride	35.22	1.0	ug/L	30.0		117	70-154			
Bromomethane	38.85	1.0	ug/L	30.0		130	61-162			
Bromomethane	38.85	1.0	ug/L	30.0		130	52-176			
Chloroethane	36.31	1.0	ug/L	30.0		121	69-138			
Chloroethane	36.31	1.0	ug/L	30.0		121	72-148			
Trichlorofluoromethane	33.56	1.0	ug/L	30.0		112	70-143			
Trichlorofluoromethane	33.56	1.0	ug/L	30.0		112	70-152			
1,1-Dichloroethylene	56.32	1.0	ug/L	50.0		113	76-140			
1,1-Dichloroethylene	56.32	1.0	ug/L	50.0		113	70-148			
Acetone	105.6	10.0	ug/L	102		103	51-156			
Acetone	105.6	10.0	ug/L	102		103	43-172			
Methyl Iodide	119.1	2.0	ug/L	99.7		119	81-166			
Methyl Iodide	119.1	1.0	ug/L	99.7		119	69-170			
Carbon Disulfide	104.9	1.0	ug/L	101		104	76-147			
Carbon Disulfide	104.9	1.0	ug/L	101		104	72-162			
Acetonitrile	108.5	10.0	ug/L	101		108	46-156			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
LCS (1GJ1243-BS1)				Prepared: 10/19/23 00:00 Analyzed: 10/19/23 11:05						
Methylene Chloride	46.32	5.0	ug/L	50.0		92.6	67-139			
Methylene Chloride	46.32	5.0	ug/L	50.0		92.6	68-142			
trans-1,2-Dichloroethylene	52.30	1.0	ug/L	50.0		105	72-135			
trans-1,2-Dichloroethylene	52.30	1.0	ug/L	50.0		105	66-148			
1,1-Dichloroethane	50.38	1.0	ug/L	50.0		101	72-129			
1,1-Dichloroethane	50.38	1.0	ug/L	50.0		101	66-143			
Vinyl Acetate	69.85	5.0	ug/L	102		68.5	24-144			
Vinyl Acetate	69.85	5.0	ug/L	102		68.5	43-153			
2,2-Dichloropropane	48.97	1.0	ug/L	50.0		97.9	64-131			
cis-1,2-Dichloroethylene	56.69	1.0	ug/L	49.5		115	81-137			
cis-1,2-Dichloroethylene	56.69	1.0	ug/L	49.5		115	71-149			
2-Butanone (MEK)	104.4	5.0	ug/L	103		101	47-149			
2-Butanone (MEK)	104.4	10.0	ug/L	103		101	52-159			
Bromochloromethane	50.28	1.0	ug/L	50.0		101	75-138			
Bromochloromethane	50.28	1.0	ug/L	50.0		101	69-143			
Chloroform	50.72	1.0	ug/L	50.0		101	78-131			
Chloroform	50.72	1.0	ug/L	50.0		101	69-144			
1,1,1-Trichloroethane	47.69	1.0	ug/L	50.0		95.4	67-121			
1,1,1-Trichloroethane	47.69	1.0	ug/L	50.0		95.4	62-129			
1,1-Dichloropropene	54.92	1.0	ug/L	50.0		110	80-131			
Carbon Tetrachloride	53.99	1.0	ug/L	50.0		108	71-131			
Carbon Tetrachloride	53.99	1.0	ug/L	50.0		108	63-141			
Benzene	53.73	1.0	ug/L	50.0		107	77-130			
Benzene	53.73	1.0	ug/L	50.0		107	71-134			
1,2-Dichloroethane	46.93	1.0	ug/L	50.0		93.9	76-126			
1,2-Dichloroethane	46.93	1.0	ug/L	50.0		93.9	72-132			
Trichloroethylene	52.76	1.0	ug/L	50.0		106	80-124			
Trichloroethylene	52.76	1.0	ug/L	50.0		106	71-135			
1,2-Dichloropropane	53.23	1.0	ug/L	50.0		106	81-125			
1,2-Dichloropropane	53.23	1.0	ug/L	50.0		106	69-136			
Dibromomethane	55.86	1.0	ug/L	50.0		112	84-134			
Dibromomethane	55.86	1.0	ug/L	50.0		112	73-147			
Bromodichloromethane	50.40	1.0	ug/L	50.0		101	78-121			
Bromodichloromethane	50.40	1.0	ug/L	50.0		101	68-129			
cis-1,3-Dichloropropene	50.56	1.0	ug/L	50.3		100	78-120			
cis-1,3-Dichloropropene	50.56	1.0	ug/L	50.3		100	65-134			
4-Methyl-2-pentanone (MIBK)	99.85	5.0	ug/L	101		98.5	67-143			
4-Methyl-2-pentanone (MIBK)	99.85	5.0	ug/L	101		98.5	58-147			
Toluene	50.70	1.0	ug/L	50.0		101	77-130			
Toluene	50.70	1.0	ug/L	50.0		101	72-133			
trans-1,3-Dichloropropene	46.26	1.0	ug/L	50.4		91.7	77-123			
trans-1,3-Dichloropropene	46.26	1.0	ug/L	50.4		91.7	67-130			
Ethyl Methacrylate	97.05	10.0	ug/L	101		96.5	52-148			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
LCS (1GJ1243-BS1)				Prepared: 10/19/23 00:00 Analyzed: 10/19/23 11:05						
1,1,2-Trichloroethane	48.94	1.0	ug/L	50.0		97.9	78-124			
1,1,2-Trichloroethane	48.94	1.0	ug/L	50.0		97.9	69-135			
Tetrachloroethylene	54.22	1.0	ug/L	50.0		108	73-124			
Tetrachloroethylene	54.22	1.0	ug/L	50.0		108	69-130			
1,3-Dichloropropane	53.16	1.0	ug/L	50.0		106	78-131			
2-Hexanone (MBK)	105.2	5.0	ug/L	103		102	57-145			
2-Hexanone (MBK)	105.2	5.0	ug/L	103		102	55-144			
Dibromochloromethane	50.71	1.0	ug/L	49.5		102	78-126			
Dibromochloromethane	50.71	1.0	ug/L	49.5		102	73-127			
1,2-Dibromoethane	50.57	1.0	ug/L	50.0		101	69-126			
1,2-Dibromoethane	50.57	1.0	ug/L	50.0		101	67-132			
Chlorobenzene	52.16	1.0	ug/L	50.0		104	76-120			
Chlorobenzene	52.16	1.0	ug/L	50.0		104	72-123			
1,1,1,2-Tetrachloroethane	51.73	1.0	ug/L	50.0		103	81-122			
1,1,1,2-Tetrachloroethane	51.73	1.0	ug/L	50.0		103	73-127			
Ethylbenzene	53.57	1.0	ug/L	50.0		107	74-121			
Ethylbenzene	53.57	1.0	ug/L	50.0		107	71-127			
Xylenes, total	154.6	2.0	ug/L	150		103	75-122			
Xylenes, total	154.6	2.0	ug/L	150		103	74-127			
Styrene	52.49	1.0	ug/L	50.0		105	76-119			
Styrene	52.49	1.0	ug/L	50.0		105	66-126			
Bromoform	55.17	1.0	ug/L	50.0		110	74-127			
Bromoform	55.17	1.0	ug/L	50.0		110	68-130			
1,2,3-Trichloropropane	54.17	1.0	ug/L	50.0		108	73-125			
1,2,3-Trichloropropane	54.17	1.0	ug/L	50.0		108	63-136			
trans-1,4-Dichloro-2-butene	104.1	5.0	ug/L	104		100	55-135			
trans-1,4-Dichloro-2-butene	104.1	5.0	ug/L	104		100	54-134			
1,1,2,2-Tetrachloroethane	54.60	1.0	ug/L	49.8		110	58-133			
1,1,2,2-Tetrachloroethane	54.60	1.0	ug/L	49.8		110	61-131			
1,3-Dichlorobenzene	52.86	1.0	ug/L	50.0		106	70-125			
1,4-Dichlorobenzene	54.29	1.0	ug/L	50.0		109	69-128			
1,4-Dichlorobenzene	54.29	1.0	ug/L	50.0		109	70-129			
1,2-Dichlorobenzene	53.61	1.0	ug/L	50.0		107	70-125			
1,2-Dichlorobenzene	53.61	1.0	ug/L	50.0		107	69-126			
1,2-Dibromo-3-chloropropane	60.87	1.0	ug/L	50.0		122	54-147			
1,2-Dibromo-3-chloropropane	60.87	5.0	ug/L	50.0		122	50-143			
1,2,4-Trichlorobenzene	57.62	1.0	ug/L	50.0		115	55-149			
Surrogate: Dibromofluoromethane	*46.7*		ug/L	*50.4*		*92.8*	*80-126*			
Surrogate: Dibromofluoromethane	*46.7*		ug/L	*50.4*		*92.8*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*49.1*		ug/L	*50.4*		*97.3*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*49.1*		ug/L	*50.4*		*97.3*	*61-142*			
Surrogate: Toluene-d8	*48.6*		ug/L	*50.2*		*96.8*	*87-116*			
Surrogate: Toluene-d8	*48.6*		ug/L	*50.2*		*96.8*	*82-121*			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
LCS (1GJ1243-BS1)				Prepared: 10/19/23 00:00 Analyzed: 10/19/23 11:05						
Surrogate: 4-Bromofluorobenzene	*47.7*		ug/L	*50.4*		*94.5*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*47.7*		ug/L	*50.4*		*94.5*	*80-116*			
LCS Dup (1GJ1243-BSD1)				Prepared: 10/19/23 00:00 Analyzed: 10/19/23 11:32						
Dichlorodifluoromethane	32.20	1.0	ug/L	30.0		107	44-139	1.60	30	
Chloromethane	33.26	1.0	ug/L	30.0		111	56-152	1.17	30	
Chloromethane	33.26	1.0	ug/L	30.0		111	63-155	1.17	24	
Vinyl Chloride	34.64	1.0	ug/L	30.0		115	62-151	1.66	28	
Vinyl Chloride	34.64	1.0	ug/L	30.0		115	70-154	1.66	25	
Bromomethane	38.82	1.0	ug/L	30.0		129	61-162	0.0772	28	
Bromomethane	38.82	1.0	ug/L	30.0		129	52-176	0.0772	27	
Chloroethane	35.23	1.0	ug/L	30.0		117	69-138	3.02	29	
Chloroethane	35.23	1.0	ug/L	30.0		117	72-148	3.02	25	
Trichlorofluoromethane	32.33	1.0	ug/L	30.0		108	70-143	3.73	27	
Trichlorofluoromethane	32.33	1.0	ug/L	30.0		108	70-152	3.73	26	
1,1-Dichloroethylene	55.87	1.0	ug/L	50.0		112	76-140	0.802	30	
1,1-Dichloroethylene	55.87	1.0	ug/L	50.0		112	70-148	0.802	24	
Acetone	106.0	10.0	ug/L	102		104	51-156	0.463	30	
Acetone	106.0	10.0	ug/L	102		104	43-172	0.463	30	
Methyl Iodide	119.0	2.0	ug/L	99.7		119	81-166	0.0840	29	
Methyl Iodide	119.0	1.0	ug/L	99.7		119	69-170	0.0840	30	
Carbon Disulfide	103.1	1.0	ug/L	101		102	76-147	1.76	27	
Carbon Disulfide	103.1	1.0	ug/L	101		102	72-162	1.76	24	
Acetonitrile	109.7	10.0	ug/L	101		109	46-156	1.05	30	
Methylene Chloride	46.73	5.0	ug/L	50.0		93.5	67-139	0.881	26	
Methylene Chloride	46.73	5.0	ug/L	50.0		93.5	68-142	0.881	21	
trans-1,2-Dichloroethylene	51.80	1.0	ug/L	50.0		104	72-135	0.961	28	
trans-1,2-Dichloroethylene	51.80	1.0	ug/L	50.0		104	66-148	0.961	27	
1,1-Dichloroethane	50.25	1.0	ug/L	50.0		100	72-129	0.258	26	
1,1-Dichloroethane	50.25	1.0	ug/L	50.0		100	66-143	0.258	24	
Vinyl Acetate	73.74	5.0	ug/L	102		72.4	24-144	5.42	30	
Vinyl Acetate	73.74	5.0	ug/L	102		72.4	43-153	5.42	30	
2,2-Dichloropropane	48.48	1.0	ug/L	50.0		97.0	64-131	1.01	26	
cis-1,2-Dichloroethylene	56.89	1.0	ug/L	49.5		115	81-137	0.352	27	
cis-1,2-Dichloroethylene	56.89	1.0	ug/L	49.5		115	71-149	0.352	26	
2-Butanone (MEK)	100.4	5.0	ug/L	103		97.2	47-149	3.92	30	
2-Butanone (MEK)	100.4	10.0	ug/L	103		97.2	52-159	3.92	27	
Bromochloromethane	50.97	1.0	ug/L	50.0		102	75-138	1.36	24	
Bromochloromethane	50.97	1.0	ug/L	50.0		102	69-143	1.36	23	
Chloroform	51.16	1.0	ug/L	50.0		102	78-131	0.864	27	
Chloroform	51.16	1.0	ug/L	50.0		102	69-144	0.864	23	
1,1,1-Trichloroethane	47.80	1.0	ug/L	50.0		95.6	67-121	0.230	28	
1,1,1-Trichloroethane	47.80	1.0	ug/L	50.0		95.6	62-129	0.230	24	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
LCS Dup (1GJ1243-BSD1)				Prepared: 10/19/23 00:00 Analyzed: 10/19/23 11:32						
1,1-Dichloropropene	54.74	1.0	ug/L	50.0		109	80-131	0.328	30	
Carbon Tetrachloride	53.72	1.0	ug/L	50.0		107	71-131	0.501	28	
Carbon Tetrachloride	53.72	1.0	ug/L	50.0		107	63-141	0.501	25	
Benzene	53.14	1.0	ug/L	50.0		106	77-130	1.10	25	
Benzene	53.14	1.0	ug/L	50.0		106	71-134	1.10	24	
1,2-Dichloroethane	47.97	1.0	ug/L	50.0		95.9	76-126	2.19	24	
1,2-Dichloroethane	47.97	1.0	ug/L	50.0		95.9	72-132	2.19	24	
Trichloroethylene	52.05	1.0	ug/L	50.0		104	80-124	1.35	27	
Trichloroethylene	52.05	1.0	ug/L	50.0		104	71-135	1.35	24	
1,2-Dichloropropane	52.72	1.0	ug/L	50.0		105	81-125	0.963	25	
1,2-Dichloropropane	52.72	1.0	ug/L	50.0		105	69-136	0.963	24	
Dibromomethane	55.75	1.0	ug/L	50.0		112	84-134	0.197	23	
Dibromomethane	55.75	1.0	ug/L	50.0		112	73-147	0.197	25	
Bromodichloromethane	50.62	1.0	ug/L	50.0		101	78-121	0.436	25	
Bromodichloromethane	50.62	1.0	ug/L	50.0		101	68-129	0.436	22	
cis-1,3-Dichloropropene	50.18	1.0	ug/L	50.3		99.7	78-120	0.754	26	
cis-1,3-Dichloropropene	50.18	1.0	ug/L	50.3		99.7	65-134	0.754	23	
4-Methyl-2-pentanone (MIBK)	96.52	5.0	ug/L	101		95.2	67-143	3.39	26	
4-Methyl-2-pentanone (MIBK)	96.52	5.0	ug/L	101		95.2	58-147	3.39	27	
Toluene	49.57	1.0	ug/L	50.0		99.1	77-130	2.25	27	
Toluene	49.57	1.0	ug/L	50.0		99.1	72-133	2.25	24	
trans-1,3-Dichloropropene	44.64	1.0	ug/L	50.4		88.5	77-123	3.56	28	
trans-1,3-Dichloropropene	44.64	1.0	ug/L	50.4		88.5	67-130	3.56	24	
Ethyl Methacrylate	94.08	10.0	ug/L	101		93.5	52-148	3.11	30	
1,1,2-Trichloroethane	47.98	1.0	ug/L	50.0		96.0	78-124	1.98	24	
1,1,2-Trichloroethane	47.98	1.0	ug/L	50.0		96.0	69-135	1.98	23	
Tetrachloroethylene	52.13	1.0	ug/L	50.0		104	73-124	3.93	26	
Tetrachloroethylene	52.13	1.0	ug/L	50.0		104	69-130	3.93	25	
1,3-Dichloropropane	51.51	1.0	ug/L	50.0		103	78-131	3.15	24	
2-Hexanone (MBK)	100.8	5.0	ug/L	103		97.6	57-145	4.32	30	
2-Hexanone (MBK)	100.8	5.0	ug/L	103		97.6	55-144	4.32	25	
Dibromochloromethane	49.76	1.0	ug/L	49.5		101	78-126	1.89	23	
Dibromochloromethane	49.76	1.0	ug/L	49.5		101	73-127	1.89	22	
1,2-Dibromoethane	49.06	1.0	ug/L	50.0		98.1	69-126	3.03	22	
1,2-Dibromoethane	49.06	1.0	ug/L	50.0		98.1	67-132	3.03	24	
Chlorobenzene	50.51	1.0	ug/L	50.0		101	76-120	3.21	25	
Chlorobenzene	50.51	1.0	ug/L	50.0		101	72-123	3.21	23	
1,1,1,2-Tetrachloroethane	50.23	1.0	ug/L	50.0		100	81-122	2.94	23	
1,1,1,2-Tetrachloroethane	50.23	1.0	ug/L	50.0		100	73-127	2.94	24	
Ethylbenzene	52.17	1.0	ug/L	50.0		104	74-121	2.65	27	
Ethylbenzene	52.17	1.0	ug/L	50.0		104	71-127	2.65	26	
Xylenes, total	151.4	2.0	ug/L	150		101	75-122	2.10	26	
Xylenes, total	151.4	2.0	ug/L	150		101	74-127	2.10	25	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
LCS Dup (1GJ1243-BSD1)			Prepared: 10/19/23 00:00 Analyzed: 10/19/23 11:32							
Styrene	51.96	1.0	ug/L	50.0		104	76-119	1.01	26	
Styrene	51.96	1.0	ug/L	50.0		104	66-126	1.01	23	
Bromoform	54.95	1.0	ug/L	50.0		110	74-127	0.400	22	
Bromoform	54.95	1.0	ug/L	50.0		110	68-130	0.400	23	
1,2,3-Trichloropropane	53.91	1.0	ug/L	50.0		108	73-125	0.481	20	
1,2,3-Trichloropropane	53.91	1.0	ug/L	50.0		108	63-136	0.481	24	
trans-1,4-Dichloro-2-butene	104.2	5.0	ug/L	104		100	55-135	0.0960	26	
trans-1,4-Dichloro-2-butene	104.2	5.0	ug/L	104		100	54-134	0.0960	27	
1,1,2,2-Tetrachloroethane	53.74	1.0	ug/L	49.8		108	58-133	1.59	28	
1,1,2,2-Tetrachloroethane	53.74	1.0	ug/L	49.8		108	61-131	1.59	29	
1,3-Dichlorobenzene	51.57	1.0	ug/L	50.0		103	70-125	2.47	27	
1,4-Dichlorobenzene	52.46	1.0	ug/L	50.0		105	69-128	3.43	29	
1,4-Dichlorobenzene	52.46	1.0	ug/L	50.0		105	70-129	3.43	24	
1,2-Dichlorobenzene	52.36	1.0	ug/L	50.0		105	70-125	2.36	25	
1,2-Dichlorobenzene	52.36	1.0	ug/L	50.0		105	69-126	2.36	26	
1,2-Dibromo-3-chloropropane	58.73	1.0	ug/L	50.0		117	54-147	3.58	29	
1,2-Dibromo-3-chloropropane	58.73	5.0	ug/L	50.0		117	50-143	3.58	30	
1,2,4-Trichlorobenzene	55.70	1.0	ug/L	50.0		111	55-149	3.39	30	
Surrogate: Dibromofluoromethane	*48.3*		ug/L	*50.4*		*96.0*	*80-126*			
Surrogate: Dibromofluoromethane	*48.3*		ug/L	*50.4*		*96.0*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*49.7*		ug/L	*50.4*		*98.6*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*49.7*		ug/L	*50.4*		*98.6*	*61-142*			
Surrogate: Toluene-d8	*48.2*		ug/L	*50.2*		*96.0*	*87-116*			
Surrogate: Toluene-d8	*48.2*		ug/L	*50.2*		*96.0*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*47.4*		ug/L	*50.4*		*94.0*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*47.4*		ug/L	*50.4*		*94.0*	*80-116*			
Matrix Spike (1GJ1243-MS1)	**Source: 1GJ1446-01**		Prepared: 10/19/23 00:00 Analyzed: 10/19/23 21:45							
Dichlorodifluoromethane	317.6	10.0	ug/L	300	ND	106	47-137			
Chloromethane	300.6	10.0	ug/L	300	ND	100	49-154			
Chloromethane	300.6	10.0	ug/L	300	ND	100	61-152			
Vinyl Chloride	303.0	10.0	ug/L	300	ND	101	61-152			
Vinyl Chloride	303.0	10.0	ug/L	300	ND	101	66-149			
Bromomethane	284.2	10.0	ug/L	300	ND	94.7	47-168			
Bromomethane	284.2	10.0	ug/L	300	ND	94.7	43-171			
Chloroethane	277.0	10.0	ug/L	300	ND	92.3	61-148			
Chloroethane	277.0	10.0	ug/L	300	ND	92.3	69-148			
Trichlorofluoromethane	293.5	10.0	ug/L	300	ND	97.8	73-147			
Trichlorofluoromethane	293.5	10.0	ug/L	300	ND	97.8	62-163			
1,1-Dichloroethylene	518.6	10.0	ug/L	500	ND	104	68-153			
1,1-Dichloroethylene	518.6	10.0	ug/L	500	ND	104	70-148			
Acetone	1109	100	ug/L	1020	ND	109	45-175			
Acetone	1109	100	ug/L	1020	ND	109	45-173			
Methyl Iodide	924.6	20.0	ug/L	997	ND	92.7	79-167			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
Matrix Spike (1GJ1243-MS1)	**Source: 1GJ1446-01**	Prepared: 10/19/23 00:00 Analyzed: 10/19/23 21:45								
Methyl Iodide	924.6	10.0	ug/L	997	ND	92.7	62-167			
Carbon Disulfide	1008	10.0	ug/L	1010	ND	99.8	72-156			
Carbon Disulfide	1008	10.0	ug/L	1010	ND	99.8	71-163			
Acetonitrile	1125	100	ug/L	1010	ND	112	38-166			
Methylene Chloride	468.4	50.0	ug/L	500	ND	93.7	64-143			
Methylene Chloride	468.4	50.0	ug/L	500	ND	93.7	69-140			
trans-1,2-Dichloroethylene	508.6	10.0	ug/L	500	ND	102	65-145			
trans-1,2-Dichloroethylene	508.6	10.0	ug/L	500	ND	102	69-144			
1,1-Dichloroethane	501.7	10.0	ug/L	500	ND	100	68-136			
1,1-Dichloroethane	501.7	10.0	ug/L	500	ND	100	70-138			
Vinyl Acetate	876.0	50.0	ug/L	1020	ND	86.0	58-143			
Vinyl Acetate	876.0	50.0	ug/L	1020	ND	86.0	58-142			
2,2-Dichloropropane	416.1	10.0	ug/L	500	ND	83.2	50-118			
cis-1,2-Dichloroethylene	533.1	10.0	ug/L	495	ND	108	67-153			
cis-1,2-Dichloroethylene	533.1	10.0	ug/L	495	ND	108	68-151			
2-Butanone (MEK)	1008	50.0	ug/L	1030	ND	97.6	52-159			
2-Butanone (MEK)	1008	100	ug/L	1030	ND	97.6	50-160			
Bromochloromethane	489.5	10.0	ug/L	500	ND	97.9	61-151			
Bromochloromethane	489.5	10.0	ug/L	500	ND	97.9	65-143			
Chloroform	493.0	10.0	ug/L	500	ND	98.6	77-132			
Chloroform	493.0	10.0	ug/L	500	ND	98.6	71-143			
1,1,1-Trichloroethane	504.7	10.0	ug/L	500	ND	101	71-118			
1,1,1-Trichloroethane	504.7	10.0	ug/L	500	ND	101	63-133			
1,1-Dichloropropene	530.2	10.0	ug/L	500	ND	106	82-128			
Carbon Tetrachloride	520.8	10.0	ug/L	500	ND	104	71-133			
Carbon Tetrachloride	520.8	10.0	ug/L	500	ND	104	63-142			
Benzene	549.6	10.0	ug/L	500	ND	110	81-125			
Benzene	549.6	10.0	ug/L	500	ND	110	69-133			
1,2-Dichloroethane	502.1	10.0	ug/L	500	ND	100	75-125			
1,2-Dichloroethane	502.1	10.0	ug/L	500	ND	100	63-138			
Trichloroethylene	538.9	10.0	ug/L	500	ND	108	83-120			
Trichloroethylene	538.9	10.0	ug/L	500	ND	108	71-133			
1,2-Dichloropropane	546.7	10.0	ug/L	500	ND	109	80-124			
1,2-Dichloropropane	546.7	10.0	ug/L	500	ND	109	69-132			
Dibromomethane	540.4	10.0	ug/L	500	ND	108	84-131			
Dibromomethane	540.4	10.0	ug/L	500	ND	108	70-147			
Bromodichloromethane	533.7	10.0	ug/L	500	ND	107	79-118			
Bromodichloromethane	533.7	10.0	ug/L	500	ND	107	67-130			
cis-1,3-Dichloropropene	502.1	10.0	ug/L	503	ND	99.8	75-116			
cis-1,3-Dichloropropene	502.1	10.0	ug/L	503	ND	99.8	61-126			
4-Methyl-2-pentanone (MIBK)	1052	50.0	ug/L	1010	ND	104	65-149			
4-Methyl-2-pentanone (MIBK)	1052	50.0	ug/L	1010	ND	104	55-147			
Toluene	516.0	10.0	ug/L	500	ND	103	82-123			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
Matrix Spike (1GJ1243-MS1)	**Source: 1GJ1446-01**		Prepared: 10/19/23 00:00 Analyzed: 10/19/23 21:45							
Toluene	516.0	10.0	ug/L	500	ND	103	71-133			
trans-1,3-Dichloropropene	465.5	10.0	ug/L	504	ND	92.3	75-117			
trans-1,3-Dichloropropene	465.5	10.0	ug/L	504	ND	92.3	63-124			
Ethyl Methacrylate	1013	100	ug/L	1010	ND	101	73-135			
1,1,2-Trichloroethane	497.0	10.0	ug/L	500	ND	99.4	77-122			
1,1,2-Trichloroethane	497.0	10.0	ug/L	500	ND	99.4	69-133			
Tetrachloroethylene	507.3	10.0	ug/L	500	ND	101	74-120			
Tetrachloroethylene	507.3	10.0	ug/L	500	ND	101	70-124			
1,3-Dichloropropane	467.8	10.0	ug/L	500	ND	93.6	80-127			
2-Hexanone (MBK)	996.9	50.0	ug/L	1030	ND	96.5	57-150			
2-Hexanone (MBK)	996.9	50.0	ug/L	1030	ND	96.5	53-141			
Dibromochloromethane	458.2	10.0	ug/L	495	ND	92.6	80-120			
Dibromochloromethane	458.2	10.0	ug/L	495	ND	92.6	74-122			
1,2-Dibromoethane	469.2	10.0	ug/L	500	ND	93.8	67-125			
1,2-Dibromoethane	469.2	10.0	ug/L	500	ND	93.8	66-127			
Chlorobenzene	494.6	10.0	ug/L	500	ND	98.9	81-113			
Chlorobenzene	494.6	10.0	ug/L	500	ND	98.9	76-116			
1,1,1,2-Tetrachloroethane	473.3	10.0	ug/L	500	ND	94.7	80-119			
1,1,1,2-Tetrachloroethane	473.3	10.0	ug/L	500	ND	94.7	77-121			
Ethylbenzene	516.4	10.0	ug/L	500	ND	103	78-114			
Ethylbenzene	516.4	10.0	ug/L	500	ND	103	73-124			
Xylenes, total	1486	20.0	ug/L	1500	ND	99.1	77-116			
Xylenes, total	1486	20.0	ug/L	1500	ND	99.1	75-123			
Styrene	510.2	10.0	ug/L	500	ND	102	78-114			
Styrene	510.2	10.0	ug/L	500	ND	102	70-120			
Bromoform	493.0	10.0	ug/L	500	ND	98.6	69-125			
Bromoform	493.0	10.0	ug/L	500	ND	98.6	70-124			
1,2,3-Trichloropropane	508.1	10.0	ug/L	500	ND	102	72-125			
1,2,3-Trichloropropane	508.1	10.0	ug/L	500	ND	102	62-135			
trans-1,4-Dichloro-2-butene	989.8	50.0	ug/L	1040	ND	95.3	48-131			
trans-1,4-Dichloro-2-butene	989.8	50.0	ug/L	1040	ND	95.3	50-120			
1,1,2,2-Tetrachloroethane	521.9	10.0	ug/L	498	ND	105	51-138			
1,1,2,2-Tetrachloroethane	521.9	10.0	ug/L	498	ND	105	63-126			
1,3-Dichlorobenzene	490.1	10.0	ug/L	500	ND	98.0	70-122			
1,4-Dichlorobenzene	480.8	10.0	ug/L	500	ND	96.2	70-124			
1,4-Dichlorobenzene	480.8	10.0	ug/L	500	ND	96.2	72-119			
1,2-Dichlorobenzene	489.1	10.0	ug/L	500	ND	97.8	68-123			
1,2-Dichlorobenzene	489.1	10.0	ug/L	500	ND	97.8	71-117			
1,2-Dibromo-3-chloropropane	537.8	10.0	ug/L	500	ND	108	46-149			
1,2-Dibromo-3-chloropropane	537.8	50.0	ug/L	500	ND	108	49-134			
1,2,4-Trichlorobenzene	510.4	10.0	ug/L	500	ND	102	60-137			
Surrogate: Dibromofluoromethane	*447*		ug/L	*504*		*88.8*	*80-126*			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
Matrix Spike (1GJ1243-MS1)	**Source: 1GJ1446-01**		Prepared: 10/19/23 00:00 Analyzed: 10/19/23 21:45							
Surrogate: Dibromofluoromethane	*447*		ug/L	*504*		*88.8*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*466*		ug/L	*504*		*92.5*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*466*		ug/L	*504*		*92.5*	*61-142*			
Surrogate: Toluene-d8	*494*		ug/L	*502*		*98.2*	*87-116*			
Surrogate: Toluene-d8	*494*		ug/L	*502*		*98.2*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*482*		ug/L	*504*		*95.7*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*482*		ug/L	*504*		*95.7*	*80-116*			
Matrix Spike Dup (1GJ1243-MSD1)	**Source: 1GJ1446-01**		Prepared: 10/19/23 00:00 Analyzed: 10/19/23 22:12							
Dichlorodifluoromethane	297.7	10.0	ug/L	300	ND	99.2	47-137	6.47	20	
Chloromethane	287.9	10.0	ug/L	300	ND	96.0	49-154	4.32	25	
Chloromethane	287.9	10.0	ug/L	300	ND	96.0	61-152	4.32	26	
Vinyl Chloride	289.4	10.0	ug/L	300	ND	96.5	61-152	4.59	24	
Vinyl Chloride	289.4	10.0	ug/L	300	ND	96.5	66-149	4.59	23	
Bromomethane	298.1	10.0	ug/L	300	ND	99.4	47-168	4.77	30	
Bromomethane	298.1	10.0	ug/L	300	ND	99.4	43-171	4.77	29	
Chloroethane	269.8	10.0	ug/L	300	ND	89.9	61-148	2.63	29	
Chloroethane	269.8	10.0	ug/L	300	ND	89.9	69-148	2.63	25	
Trichlorofluoromethane	289.6	10.0	ug/L	300	ND	96.5	73-147	1.34	24	
Trichlorofluoromethane	289.6	10.0	ug/L	300	ND	96.5	62-163	1.34	25	
1,1-Dichloroethylene	497.0	10.0	ug/L	500	ND	99.4	68-153	4.25	21	
1,1-Dichloroethylene	497.0	10.0	ug/L	500	ND	99.4	70-148	4.25	22	
Acetone	1117	100	ug/L	1020	ND	110	45-175	0.719	23	
Acetone	1117	100	ug/L	1020	ND	110	45-173	0.719	30	
Methyl Iodide	991.8	20.0	ug/L	997	ND	99.5	79-167	7.01	14	
Methyl Iodide	991.8	10.0	ug/L	997	ND	99.5	62-167	7.01	24	
Carbon Disulfide	963.6	10.0	ug/L	1010	ND	95.4	72-156	4.47	19	
Carbon Disulfide	963.6	10.0	ug/L	1010	ND	95.4	71-163	4.47	22	
Acetonitrile	1125	100	ug/L	1010	ND	112	38-166	0.0178	20	
Methylene Chloride	452.2	50.0	ug/L	500	ND	90.4	64-143	3.52	19	
Methylene Chloride	452.2	50.0	ug/L	500	ND	90.4	69-140	3.52	19	
trans-1,2-Dichloroethylene	492.9	10.0	ug/L	500	ND	98.6	65-145	3.14	18	
trans-1,2-Dichloroethylene	492.9	10.0	ug/L	500	ND	98.6	69-144	3.14	22	
1,1-Dichloroethane	492.1	10.0	ug/L	500	ND	98.4	68-136	1.93	17	
1,1-Dichloroethane	492.1	10.0	ug/L	500	ND	98.4	70-138	1.93	20	
Vinyl Acetate	864.7	50.0	ug/L	1020	ND	84.9	58-143	1.30	14	
Vinyl Acetate	864.7	50.0	ug/L	1020	ND	84.9	58-142	1.30	24	
2,2-Dichloropropane	405.2	10.0	ug/L	500	ND	81.0	50-118	2.65	17	
cis-1,2-Dichloroethylene	529.8	10.0	ug/L	495	ND	107	67-153	0.621	22	
cis-1,2-Dichloroethylene	529.8	10.0	ug/L	495	ND	107	68-151	0.621	22	
2-Butanone (MEK)	1086	50.0	ug/L	1030	ND	105	52-159	7.43	28	
2-Butanone (MEK)	1086	100	ug/L	1030	ND	105	50-160	7.43	23	
Bromochloromethane	486.0	10.0	ug/L	500	ND	97.2	61-151	0.718	27	
Bromochloromethane	486.0	10.0	ug/L	500	ND	97.2	65-143	0.718	22	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
Matrix Spike Dup (1GJ1243-MSD1)	**Source: 1GJ1446-01**	Prepared: 10/19/23 00:00 Analyzed: 10/19/23 22:12								
Chloroform	488.2	10.0	ug/L	500	ND	97.6	77-132	0.978	17	
Chloroform	488.2	10.0	ug/L	500	ND	97.6	71-143	0.978	21	
1,1,1-Trichloroethane	505.1	10.0	ug/L	500	ND	101	71-118	0.0792	15	
1,1,1-Trichloroethane	505.1	10.0	ug/L	500	ND	101	63-133	0.0792	23	
1,1-Dichloropropene	533.7	10.0	ug/L	500	ND	107	82-128	0.658	16	
Carbon Tetrachloride	519.5	10.0	ug/L	500	ND	104	71-133	0.250	14	
Carbon Tetrachloride	519.5	10.0	ug/L	500	ND	104	63-142	0.250	22	
Benzene	535.1	10.0	ug/L	500	ND	107	81-125	2.67	12	
Benzene	535.1	10.0	ug/L	500	ND	107	69-133	2.67	18	
1,2-Dichloroethane	495.8	10.0	ug/L	500	ND	99.2	75-125	1.26	13	
1,2-Dichloroethane	495.8	10.0	ug/L	500	ND	99.2	63-138	1.26	20	
Trichloroethylene	531.0	10.0	ug/L	500	ND	106	83-120	1.48	11	
Trichloroethylene	531.0	10.0	ug/L	500	ND	106	71-133	1.48	23	
1,2-Dichloropropane	540.5	10.0	ug/L	500	ND	108	80-124	1.14	11	
1,2-Dichloropropane	540.5	10.0	ug/L	500	ND	108	69-132	1.14	20	
Dibromomethane	535.3	10.0	ug/L	500	ND	107	84-131	0.948	13	
Dibromomethane	535.3	10.0	ug/L	500	ND	107	70-147	0.948	22	
Bromodichloromethane	533.7	10.0	ug/L	500	ND	107	79-118	0.00	11	
Bromodichloromethane	533.7	10.0	ug/L	500	ND	107	67-130	0.00	21	
cis-1,3-Dichloropropene	507.4	10.0	ug/L	503	ND	101	75-116	1.05	11	
cis-1,3-Dichloropropene	507.4	10.0	ug/L	503	ND	101	61-126	1.05	21	
4-Methyl-2-pentanone (MIBK)	1070	50.0	ug/L	1010	ND	106	65-149	1.72	14	
4-Methyl-2-pentanone (MIBK)	1070	50.0	ug/L	1010	ND	106	55-147	1.72	23	
Toluene	509.2	10.0	ug/L	500	ND	102	82-123	1.33	12	
Toluene	509.2	10.0	ug/L	500	ND	102	71-133	1.33	19	
trans-1,3-Dichloropropene	471.4	10.0	ug/L	504	ND	93.5	75-117	1.26	11	
trans-1,3-Dichloropropene	471.4	10.0	ug/L	504	ND	93.5	63-124	1.26	21	
Ethyl Methacrylate	1032	100	ug/L	1010	ND	103	73-135	1.93	10	
1,1,2-Trichloroethane	501.8	10.0	ug/L	500	ND	100	77-122	0.961	11	
1,1,2-Trichloroethane	501.8	10.0	ug/L	500	ND	100	69-133	0.961	19	
Tetrachloroethylene	494.4	10.0	ug/L	500	ND	98.9	74-120	2.58	17	
Tetrachloroethylene	494.4	10.0	ug/L	500	ND	98.9	70-124	2.58	24	
1,3-Dichloropropane	468.8	10.0	ug/L	500	ND	93.8	80-127	0.214	13	
2-Hexanone (MBK)	1023	50.0	ug/L	1030	ND	99.0	57-150	2.56	17	
2-Hexanone (MBK)	1023	50.0	ug/L	1030	ND	99.0	53-141	2.56	24	
Dibromochloromethane	461.9	10.0	ug/L	495	ND	93.3	80-120	0.804	12	
Dibromochloromethane	461.9	10.0	ug/L	495	ND	93.3	74-122	0.804	21	
1,2-Dibromoethane	467.5	10.0	ug/L	500	ND	93.5	67-125	0.363	12	
1,2-Dibromoethane	467.5	10.0	ug/L	500	ND	93.5	66-127	0.363	23	
Chlorobenzene	488.6	10.0	ug/L	500	ND	97.7	81-113	1.22	14	
Chlorobenzene	488.6	10.0	ug/L	500	ND	97.7	76-116	1.22	21	
1,1,1,2-Tetrachloroethane	465.8	10.0	ug/L	500	ND	93.2	80-119	1.60	15	
1,1,1,2-Tetrachloroethane	465.8	10.0	ug/L	500	ND	93.2	77-121	1.60	25	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1243 - EPA 5030B - EPA 8260B										
Matrix Spike Dup (1GJ1243-MSD1)	**Source: 1GJ1446-01**		Prepared: 10/19/23 00:00 Analyzed: 10/19/23 22:12							
Ethylbenzene	506.5	10.0	ug/L	500	ND	101	78-114	1.94	14	
Ethylbenzene	506.5	10.0	ug/L	500	ND	101	73-124	1.94	20	
Xylenes, total	1469	20.0	ug/L	1500	ND	97.9	77-116	1.16	13	
Xylenes, total	1469	20.0	ug/L	1500	ND	97.9	75-123	1.16	20	
Styrene	509.1	10.0	ug/L	500	ND	102	78-114	0.216	12	
Styrene	509.1	10.0	ug/L	500	ND	102	70-120	0.216	23	
Bromoform	508.5	10.0	ug/L	500	ND	102	69-125	3.10	14	
Bromoform	508.5	10.0	ug/L	500	ND	102	70-124	3.10	22	
1,2,3-Trichloropropane	515.0	10.0	ug/L	500	ND	103	72-125	1.35	18	
1,2,3-Trichloropropane	515.0	10.0	ug/L	500	ND	103	62-135	1.35	28	
trans-1,4-Dichloro-2-butene	1038	50.0	ug/L	1040	ND	99.9	48-131	4.73	17	
trans-1,4-Dichloro-2-butene	1038	50.0	ug/L	1040	ND	99.9	50-120	4.73	26	
1,1,2,2-Tetrachloroethane	524.8	10.0	ug/L	498	ND	105	51-138	0.554	30	
1,1,2,2-Tetrachloroethane	524.8	10.0	ug/L	498	ND	105	63-126	0.554	24	
1,3-Dichlorobenzene	486.1	10.0	ug/L	500	ND	97.2	70-122	0.820	30	
1,4-Dichlorobenzene	480.9	10.0	ug/L	500	ND	96.2	70-124	0.0208	28	
1,4-Dichlorobenzene	480.9	10.0	ug/L	500	ND	96.2	72-119	0.0208	24	
1,2-Dichlorobenzene	491.9	10.0	ug/L	500	ND	98.4	68-123	0.571	29	
1,2-Dichlorobenzene	491.9	10.0	ug/L	500	ND	98.4	71-117	0.571	24	
1,2-Dibromo-3-chloropropane	556.5	10.0	ug/L	500	ND	111	46-149	3.42	30	
1,2-Dibromo-3-chloropropane	556.5	50.0	ug/L	500	ND	111	49-134	3.42	28	
1,2,4-Trichlorobenzene	520.5	10.0	ug/L	500	ND	104	60-137	1.96	30	
Surrogate: Dibromofluoromethane	*451*		ug/L	*504*		*89.5*	*80-126*			
Surrogate: Dibromofluoromethane	*451*		ug/L	*504*		*89.5*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*476*		ug/L	*504*		*94.5*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*476*		ug/L	*504*		*94.5*	*61-142*			
Surrogate: Toluene-d8	*493*		ug/L	*502*		*98.1*	*87-116*			
Surrogate: Toluene-d8	*493*		ug/L	*502*		*98.1*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*486*		ug/L	*504*		*96.3*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*486*		ug/L	*504*		*96.3*	*80-116*			
Batch 1GJ1337 - EPA 5030B - EPA 8260B										
Blank (1GJ1337-BLK1)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 09:33							
Acrylonitrile	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	*46.3*		ug/L	*50.4*		*92.0*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*47.6*		ug/L	*50.4*		*94.5*	*63-138*			
Surrogate: Toluene-d8	*48.8*		ug/L	*50.2*		*97.2*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*49.4*		ug/L	*50.4*		*98.0*	*85-111*			
Blank (1GJ1337-BLK2)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 20:09							
Acrylonitrile	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	*46.1*		ug/L	*50.4*		*91.5*	*80-126*			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1337 - EPA 5030B - EPA 8260B										
Blank (1GJ1337-BLK2)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 20:09							
Surrogate: 1,2-Dichloroethane-d4	*47.8*		ug/L	*50.4*		*94.9*	*63-138*			
Surrogate: Toluene-d8	*49.2*		ug/L	*50.2*		*98.0*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*49.7*		ug/L	*50.4*		*98.5*	*85-111*			
LCS (1GJ1337-BS1)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 08:24							
Acrylonitrile	95.90	5.0	ug/L	100		95.5	67-144			
Surrogate: Dibromofluoromethane	*47.2*		ug/L	*50.4*		*93.8*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*47.2*		ug/L	*50.4*		*93.7*	*63-138*			
Surrogate: Toluene-d8	*50.1*		ug/L	*50.2*		*99.6*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*50.1*		ug/L	*50.4*		*99.4*	*85-111*			
LCS Dup (1GJ1337-BSD1)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 08:47							
Acrylonitrile	96.76	5.0	ug/L	100		96.3	67-144	0.893	24	
Surrogate: Dibromofluoromethane	*47.5*		ug/L	*50.4*		*94.3*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*47.4*		ug/L	*50.4*		*94.0*	*63-138*			
Surrogate: Toluene-d8	*49.6*		ug/L	*50.2*		*98.7*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*50.0*		ug/L	*50.4*		*99.3*	*85-111*			
Matrix Spike (1GJ1337-MS1)	**Source: 3GJ0143-01**		Prepared: 10/25/23 00:00 Analyzed: 10/25/23 19:01							
Acrylonitrile	891.2	50.0	ug/L	1000	ND	88.7	58-151			
Surrogate: Dibromofluoromethane	*469*		ug/L	*504*		*93.1*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*472*		ug/L	*504*		*93.6*	*63-138*			
Surrogate: Toluene-d8	*501*		ug/L	*502*		*99.6*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*497*		ug/L	*504*		*98.5*	*85-111*			
Matrix Spike Dup (1GJ1337-MSD1)	**Source: 3GJ0143-01**		Prepared: 10/25/23 00:00 Analyzed: 10/25/23 19:23							
Acrylonitrile	941.0	50.0	ug/L	1000	ND	93.7	58-151	5.44	15	
Surrogate: Dibromofluoromethane	*477*		ug/L	*504*		*94.7*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*472*		ug/L	*504*		*93.7*	*63-138*			
Surrogate: Toluene-d8	*497*		ug/L	*502*		*99.0*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*496*		ug/L	*504*		*98.4*	*85-111*			
Batch 1GJ1371 - EPA 5030B - EPA 8260B										
Blank (1GJ1371-BLK1)			Prepared: 10/20/23 00:00 Analyzed: 10/20/23 09:38							
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 1GJ1371 - EPA 5030B - EPA 8260B										
Blank (1GJ1371-BLK1)				Prepared: 10/20/23 00:00 Analyzed: 10/20/23 09:38						
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
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	*45.8*		ug/L	*50.4*		*90.9*	*80-126*			
Surrogate: Dibromofluoromethane	*45.8*		ug/L	*50.4*		*90.9*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*51.2*		ug/L	*50.4*		*101*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*51.2*		ug/L	*50.4*		*101*	*63-138*			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1371 - EPA 5030B - EPA 8260B										
Blank (1GJ1371-BLK1)			Prepared: 10/20/23 00:00 Analyzed: 10/20/23 09:38							
Surrogate: 1,2-Dichloroethane-d4	*51.2*		ug/L	*50.4*		*101*	*61-142*			
Surrogate: Toluene-d8	*50.9*		ug/L	*50.2*		*101*	*87-116*			
Surrogate: Toluene-d8	*50.9*		ug/L	*50.2*		*101*	*87-116*			
Surrogate: Toluene-d8	*50.9*		ug/L	*50.2*		*101*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*52.0*		ug/L	*50.4*		*103*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*52.0*		ug/L	*50.4*		*103*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*52.0*		ug/L	*50.4*		*103*	*80-116*			
LCS (1GJ1371-BS1)			Prepared: 10/20/23 00:00 Analyzed: 10/20/23 08:30							
Chloromethane	27.93	1.0	ug/L	30.0		93.1	63-155			
Vinyl Chloride	30.90	1.0	ug/L	30.0		103	70-154			
Bromomethane	32.76	1.0	ug/L	30.0		109	52-176			
Chloroethane	36.26	1.0	ug/L	30.0		121	72-148			
Trichlorofluoromethane	30.09	1.0	ug/L	30.0		100	70-152			
1,1-Dichloroethylene	60.18	1.0	ug/L	50.0		120	70-148			
Acetone	107.0	10.0	ug/L	102		105	43-172			
Methyl Iodide	109.0	1.0	ug/L	99.7		109	69-170			
Carbon Disulfide	116.9	1.0	ug/L	101		116	72-162			
Methylene Chloride	52.58	5.0	ug/L	50.0		105	68-142			
trans-1,2-Dichloroethylene	59.12	1.0	ug/L	50.0		118	66-148			
1,1-Dichloroethane	56.92	1.0	ug/L	50.0		114	66-143			
Vinyl Acetate	63.41	5.0	ug/L	102		62.2	43-153			
cis-1,2-Dichloroethylene	67.75	1.0	ug/L	49.5		137	71-149			
2-Butanone (MEK)	121.3	10.0	ug/L	103		117	52-159			
Bromochloromethane	53.35	1.0	ug/L	50.0		107	69-143			
Chloroform	56.09	1.0	ug/L	50.0		112	69-144			
1,1,1-Trichloroethane	51.81	1.0	ug/L	50.0		104	62-129			
Carbon Tetrachloride	56.06	1.0	ug/L	50.0		112	63-141			
Benzene	57.10	1.0	ug/L	50.0		114	71-134			
1,2-Dichloroethane	51.97	1.0	ug/L	50.0		104	72-132			
Trichloroethylene	59.04	1.0	ug/L	50.0		118	71-135			
1,2-Dichloropropane	58.68	1.0	ug/L	50.0		117	69-136			
Dibromomethane	56.69	1.0	ug/L	50.0		113	73-147			
Bromodichloromethane	53.73	1.0	ug/L	50.0		107	68-129			
cis-1,3-Dichloropropene	55.20	1.0	ug/L	50.3		110	65-134			
4-Methyl-2-pentanone (MIBK)	124.8	5.0	ug/L	101		123	58-147			
Toluene	56.90	1.0	ug/L	50.0		114	72-133			
trans-1,3-Dichloropropene	52.02	1.0	ug/L	50.4		103	67-130			
1,1,2-Trichloroethane	52.82	1.0	ug/L	50.0		106	69-135			
Tetrachloroethylene	55.35	1.0	ug/L	50.0		111	69-130			
2-Hexanone (MBK)	134.0	5.0	ug/L	103		130	55-144			
Dibromochloromethane	52.22	1.0	ug/L	49.5		105	73-127			
1,2-Dibromoethane	52.89	1.0	ug/L	50.0		106	67-132			
Chlorobenzene	55.65	1.0	ug/L	50.0		111	72-123			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1371 - EPA 5030B - EPA 8260B										
LCS (1GJ1371-BS1)				Prepared: 10/20/23 00:00 Analyzed: 10/20/23 08:30						
1,1,1,2-Tetrachloroethane	56.70	1.0	ug/L	50.0		113	73-127			
Ethylbenzene	58.86	1.0	ug/L	50.0		118	71-127			
Xylenes, total	176.3	2.0	ug/L	150		118	74-127			
Styrene	55.78	1.0	ug/L	50.0		112	66-126			
Bromoform	49.65	1.0	ug/L	50.0		99.3	68-130			
1,2,3-Trichloropropane	55.32	1.0	ug/L	50.0		111	63-136			
trans-1,4-Dichloro-2-butene	105.4	5.0	ug/L	104		101	54-134			
1,1,2,2-Tetrachloroethane	56.18	1.0	ug/L	49.8		113	61-131			
1,4-Dichlorobenzene	56.30	1.0	ug/L	50.0		113	70-129			
1,2-Dichlorobenzene	52.27	1.0	ug/L	50.0		105	69-126			
1,2-Dibromo-3-chloropropane	52.21	5.0	ug/L	50.0		104	50-143			
Surrogate: Dibromofluoromethane	*46.8*		ug/L	*50.4*		*92.9*	*80-126*			
Surrogate: Dibromofluoromethane	*46.8*		ug/L	*50.4*		*92.9*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*50.0*		ug/L	*50.4*		*99.1*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*50.0*		ug/L	*50.4*		*99.1*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*50.0*		ug/L	*50.4*		*99.1*	*61-142*			
Surrogate: Toluene-d8	*51.5*		ug/L	*50.2*		*102*	*87-116*			
Surrogate: Toluene-d8	*51.5*		ug/L	*50.2*		*102*	*87-116*			
Surrogate: Toluene-d8	*51.5*		ug/L	*50.2*		*102*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*51.5*		ug/L	*50.4*		*102*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*51.5*		ug/L	*50.4*		*102*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*51.5*		ug/L	*50.4*		*102*	*80-116*			
LCS Dup (1GJ1371-BSD1)				Prepared: 10/20/23 00:00 Analyzed: 10/20/23 08:52						
Chloromethane	27.59	1.0	ug/L	30.0		92.0	63-155	1.22	24	
Vinyl Chloride	30.88	1.0	ug/L	30.0		103	70-154	0.0647	25	
Bromomethane	32.74	1.0	ug/L	30.0		109	52-176	0.0611	27	
Chloroethane	36.46	1.0	ug/L	30.0		122	72-148	0.550	25	
Trichlorofluoromethane	30.05	1.0	ug/L	30.0		100	70-152	0.133	26	
1,1-Dichloroethylene	60.12	1.0	ug/L	50.0		120	70-148	0.0998	24	
Acetone	107.3	10.0	ug/L	102		105	43-172	0.299	30	
Methyl Iodide	110.7	1.0	ug/L	99.7		111	69-170	1.55	30	
Carbon Disulfide	116.5	1.0	ug/L	101		115	72-162	0.300	24	
Methylene Chloride	52.72	5.0	ug/L	50.0		105	68-142	0.266	21	
trans-1,2-Dichloroethylene	59.58	1.0	ug/L	50.0		119	66-148	0.775	27	
1,1-Dichloroethane	57.01	1.0	ug/L	50.0		114	66-143	0.158	24	
Vinyl Acetate	64.33	5.0	ug/L	102		63.1	43-153	1.44	30	
cis-1,2-Dichloroethylene	67.88	1.0	ug/L	49.5		137	71-149	0.192	26	
2-Butanone (MEK)	123.7	10.0	ug/L	103		120	52-159	1.95	27	
Bromochloromethane	53.68	1.0	ug/L	50.0		107	69-143	0.617	23	
Chloroform	56.69	1.0	ug/L	50.0		113	69-144	1.06	23	
1,1,1-Trichloroethane	51.52	1.0	ug/L	50.0		103	62-129	0.561	24	
Carbon Tetrachloride	55.79	1.0	ug/L	50.0		112	63-141	0.483	25	
Benzene	58.03	1.0	ug/L	50.0		116	71-134	1.62	24	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1371 - EPA 5030B - EPA 8260B										
LCS Dup (1GJ1371-BSD1)				Prepared: 10/20/23 00:00 Analyzed: 10/20/23 08:52						
1,2-Dichloroethane	52.79	1.0	ug/L	50.0		106	72-132	1.57	24	
Trichloroethylene	59.58	1.0	ug/L	50.0		119	71-135	0.910	24	
1,2-Dichloropropane	59.59	1.0	ug/L	50.0		119	69-136	1.54	24	
Dibromomethane	57.34	1.0	ug/L	50.0		115	73-147	1.14	25	
Bromodichloromethane	54.47	1.0	ug/L	50.0		109	68-129	1.37	22	
cis-1,3-Dichloropropene	55.76	1.0	ug/L	50.3		111	65-134	1.01	23	
4-Methyl-2-pentanone (MIBK)	126.2	5.0	ug/L	101		125	58-147	1.19	27	
Toluene	57.60	1.0	ug/L	50.0		115	72-133	1.22	24	
trans-1,3-Dichloropropene	52.82	1.0	ug/L	50.4		105	67-130	1.53	24	
1,1,2-Trichloroethane	52.82	1.0	ug/L	50.0		106	69-135	0.00	23	
Tetrachloroethylene	55.19	1.0	ug/L	50.0		110	69-130	0.289	25	
2-Hexanone (MBK)	135.0	5.0	ug/L	103		131	55-144	0.744	25	
Dibromochloromethane	52.20	1.0	ug/L	49.5		105	73-127	0.0383	22	
1,2-Dibromoethane	52.78	1.0	ug/L	50.0		106	67-132	0.208	24	
Chlorobenzene	56.39	1.0	ug/L	50.0		113	72-123	1.32	23	
1,1,1,2-Tetrachloroethane	56.80	1.0	ug/L	50.0		114	73-127	0.176	24	
Ethylbenzene	59.35	1.0	ug/L	50.0		119	71-127	0.829	26	
Xylenes, total	177.6	2.0	ug/L	150		118	74-127	0.729	25	
Styrene	56.25	1.0	ug/L	50.0		112	66-126	0.839	23	
Bromoform	48.97	1.0	ug/L	50.0		97.9	68-130	1.38	23	
1,2,3-Trichloropropane	56.17	1.0	ug/L	50.0		112	63-136	1.52	24	
trans-1,4-Dichloro-2-butene	108.1	5.0	ug/L	104		104	54-134	2.50	27	
1,1,2,2-Tetrachloroethane	56.87	1.0	ug/L	49.8		114	61-131	1.22	29	
1,4-Dichlorobenzene	57.72	1.0	ug/L	50.0		115	70-129	2.49	24	
1,2-Dichlorobenzene	53.32	1.0	ug/L	50.0		107	69-126	1.99	26	
1,2-Dibromo-3-chloropropane	53.96	5.0	ug/L	50.0		108	50-143	3.30	30	
Surrogate: Dibromofluoromethane	*46.5*		ug/L	*50.4*		*92.3*	*80-126*			
Surrogate: Dibromofluoromethane	*46.5*		ug/L	*50.4*		*92.3*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*50.2*		ug/L	*50.4*		*99.6*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*50.2*		ug/L	*50.4*		*99.6*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*50.2*		ug/L	*50.4*		*99.6*	*61-142*			
Surrogate: Toluene-d8	*51.8*		ug/L	*50.2*		*103*	*87-116*			
Surrogate: Toluene-d8	*51.8*		ug/L	*50.2*		*103*	*87-116*			
Surrogate: Toluene-d8	*51.8*		ug/L	*50.2*		*103*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*51.5*		ug/L	*50.4*		*102*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*51.5*		ug/L	*50.4*		*102*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*51.5*		ug/L	*50.4*		*102*	*80-116*			
Matrix Spike (1GJ1371-MS1)	**Source: 1GJ1590-01**			Prepared: 10/20/23 00:00 Analyzed: 10/20/23 19:49						
Chloromethane	96.92	4.0	ug/L	120	ND	80.7	61-152			
Vinyl Chloride	101.2	4.0	ug/L	120	ND	84.3	66-149			
Bromomethane	87.96	4.0	ug/L	120	ND	73.1	43-171			
Chloroethane	111.0	4.0	ug/L	120	ND	92.4	69-148			
Trichlorofluoromethane	108.8	4.0	ug/L	120	ND	90.6	62-163			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1371 - EPA 5030B - EPA 8260B										
Matrix Spike (1GJ1371-MS1)	**Source: 1GJ1590-01**	Prepared: 10/20/23 00:00 Analyzed: 10/20/23 19:49								
Acrolein	152.9	40.0	ug/L	202	ND	75.7	20-164			
1,1-Dichloroethylene	216.3	4.0	ug/L	201	ND	108	70-148			
Acetone	436.7	40.0	ug/L	400	ND	109	45-173			
Methyl Iodide	293.7	4.0	ug/L	401	ND	73.3	62-167			
Carbon Disulfide	431.3	4.0	ug/L	400	ND	108	71-163			
Methylene Chloride	205.5	20.0	ug/L	201	ND	102	69-140			
Acrylonitrile	226.1	20.0	ug/L	200	ND	113	58-151			
Acrylonitrile	226.1	20.0	ug/L	200	ND	113	58-151			
trans-1,2-Dichloroethylene	227.5	4.0	ug/L	201	ND	113	69-144			
1,1-Dichloroethane	220.7	4.0	ug/L	201	ND	110	70-138			
Vinyl Acetate	314.4	20.0	ug/L	327	ND	96.1	58-142			
cis-1,2-Dichloroethylene	250.6	4.0	ug/L	201	ND	125	68-151			
2-Butanone (MEK)	448.8	40.0	ug/L	401	ND	112	50-160			
Bromochloromethane	203.0	4.0	ug/L	201	ND	101	65-143			
Chloroform	250.4	4.0	ug/L	201	33.94	108	71-143			
1,1,1-Trichloroethane	225.8	4.0	ug/L	201	ND	112	63-133			
Carbon Tetrachloride	225.4	4.0	ug/L	201	ND	112	63-142			
Benzene	218.4	4.0	ug/L	201	ND	109	69-133			
1,2-Dichloroethane	219.4	4.0	ug/L	201	ND	109	63-138			
Trichloroethylene	231.4	4.0	ug/L	201	ND	115	71-133			
1,2-Dichloropropane	229.4	4.0	ug/L	201	ND	114	69-132			
Dibromomethane	211.0	4.0	ug/L	201	ND	105	70-147			
Bromodichloromethane	250.0	4.0	ug/L	201	27.09	111	67-130			
cis-1,3-Dichloropropene	185.3	4.0	ug/L	201	ND	92.3	61-126			
4-Methyl-2-pentanone (MIBK)	490.1	20.0	ug/L	401	ND	122	55-147			
Toluene	219.6	4.0	ug/L	202	ND	109	71-133			
trans-1,3-Dichloropropene	196.4	4.0	ug/L	201	ND	97.7	63-124			
1,1,2-Trichloroethane	207.5	4.0	ug/L	201	ND	103	69-133			
Tetrachloroethylene	208.0	4.0	ug/L	201	ND	104	70-124			
2-Hexanone (MBK)	503.2	20.0	ug/L	400	ND	126	53-141			
Dibromochloromethane	217.0	4.0	ug/L	201	20.29	97.7	74-122			
1,2-Dibromoethane	200.2	4.0	ug/L	202	ND	99.3	66-127			
Chlorobenzene	215.7	4.0	ug/L	201	ND	107	76-116			
1,1,1,2-Tetrachloroethane	213.6	4.0	ug/L	201	ND	106	77-121			
Ethylbenzene	231.2	4.0	ug/L	201	ND	115	73-124			
Xylenes, total	692.4	8.0	ug/L	603	ND	115	75-123			
Styrene	218.7	4.0	ug/L	201	ND	109	70-120			
Bromoform	190.9	4.0	ug/L	201	5.89	92.1	70-124			
1,2,3-Trichloropropane	215.8	4.0	ug/L	201	ND	107	62-135			
trans-1,4-Dichloro-2-butene	401.1	20.0	ug/L	401	ND	100	50-120			
1,1,2,2-Tetrachloroethane	223.0	4.0	ug/L	201	ND	111	63-126			
1,4-Dichlorobenzene	214.8	4.0	ug/L	201	ND	107	72-119			
1,2-Dichlorobenzene	206.4	4.0	ug/L	201	ND	103	71-117			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1371 - EPA 5030B - EPA 8260B										
Matrix Spike (1GJ1371-MS1)	**Source: 1GJ1590-01**		Prepared: 10/20/23 00:00 Analyzed: 10/20/23 19:49							
1,2-Dibromo-3-chloropropane	197.1	20.0	ug/L	202	ND	97.7	49-134			
Surrogate: Dibromofluoromethane	*191*		ug/L	*201*		*94.9*	*80-126*			
Surrogate: Dibromofluoromethane	*191*		ug/L	*201*		*94.9*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*215*		ug/L	*202*		*107*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*215*		ug/L	*202*		*107*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*215*		ug/L	*202*		*107*	*61-142*			
Surrogate: Toluene-d8	*210*		ug/L	*201*		*105*	*87-116*			
Surrogate: Toluene-d8	*210*		ug/L	*201*		*105*	*87-116*			
Surrogate: Toluene-d8	*210*		ug/L	*201*		*105*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*208*		ug/L	*202*		*103*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*208*		ug/L	*202*		*103*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*208*		ug/L	*202*		*103*	*80-116*			
Matrix Spike Dup (1GJ1371-MSD1)	**Source: 1GJ1590-01**		Prepared: 10/20/23 00:00 Analyzed: 10/20/23 19:26							
Chloromethane	50.52	4.0	ug/L	120	ND	42.1	61-152	62.9	26	QM-20
Vinyl Chloride	52.24	4.0	ug/L	120	ND	43.5	66-149	63.9	23	QM-20
Bromomethane	41.56	4.0	ug/L	120	ND	34.5	43-171	71.6	29	QM-20
Chloroethane	57.20	4.0	ug/L	120	ND	47.6	69-148	64.0	25	QM-20
Trichlorofluoromethane	56.36	4.0	ug/L	120	ND	46.9	62-163	63.5	25	QM-20
Acrolein	80.68	40.0	ug/L	202	ND	39.9	20-164	61.8	24	QM-21
1,1-Dichloroethylene	110.8	4.0	ug/L	201	ND	55.2	70-148	64.5	22	QM-20
Acetone	209.4	40.0	ug/L	400	ND	52.3	45-173	70.4	30	QM-20
Methyl Iodide	134.8	4.0	ug/L	401	ND	33.6	62-167	74.2	24	QM-20
Carbon Disulfide	220.7	4.0	ug/L	400	ND	55.1	71-163	64.6	22	QM-20
Methylene Chloride	103.1	20.0	ug/L	201	ND	51.4	69-140	66.4	19	QM-20
Acrylonitrile	107.3	20.0	ug/L	200	ND	53.6	58-151	71.2	15	QM-21
Acrylonitrile	107.3	20.0	ug/L	200	ND	53.6	58-151	71.2	15	QM-21
trans-1,2-Dichloroethylene	115.4	4.0	ug/L	201	ND	57.4	69-144	65.4	22	QM-20
1,1-Dichloroethane	111.7	4.0	ug/L	201	ND	55.6	70-138	65.6	20	QM-20
Vinyl Acetate	152.1	20.0	ug/L	327	ND	46.5	58-142	69.6	24	QM-20
cis-1,2-Dichloroethylene	126.8	4.0	ug/L	201	ND	63.1	68-151	65.6	22	QM-20
2-Butanone (MEK)	233.2	40.0	ug/L	401	ND	58.2	50-160	63.2	23	QM-20
Bromochloromethane	100.1	4.0	ug/L	201	ND	49.8	65-143	67.9	22	QM-20
Chloroform	125.6	4.0	ug/L	201	33.94	45.7	71-143	66.4	21	QM-20
1,1,1-Trichloroethane	115.6	4.0	ug/L	201	ND	57.5	63-133	64.5	23	QM-20
Carbon Tetrachloride	114.1	4.0	ug/L	201	ND	56.8	63-142	65.5	22	QM-20
Benzene	111.0	4.0	ug/L	201	ND	55.3	69-133	65.2	18	QM-20
1,2-Dichloroethane	107.0	4.0	ug/L	201	ND	53.3	63-138	68.9	20	QM-20
Trichloroethylene	118.1	4.0	ug/L	201	ND	58.7	71-133	64.8	23	QM-20
1,2-Dichloropropane	113.2	4.0	ug/L	201	ND	56.3	69-132	67.9	20	QM-20
Dibromomethane	104.2	4.0	ug/L	201	ND	51.8	70-147	67.8	22	QM-20
Bromodichloromethane	124.0	4.0	ug/L	201	27.09	48.2	67-130	67.4	21	QM-20
cis-1,3-Dichloropropene	91.68	4.0	ug/L	201	ND	45.6	61-126	67.6	21	QM-20
4-Methyl-2-pentanone (MIBK)	237.3	20.0	ug/L	401	ND	59.2	55-147	69.5	23	QM-20

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1371 - EPA 5030B - EPA 8260B										
Matrix Spike Dup (1GJ1371-MSD1)	**Source: 1GJ1590-01**		Prepared: 10/20/23 00:00 Analyzed: 10/20/23 19:26							
Toluene	110.9	4.0	ug/L	202	ND	55.0	71-133	65.7	19	QM-20
trans-1,3-Dichloropropene	96.56	4.0	ug/L	201	ND	48.0	63-124	68.2	21	QM-20
1,1,2-Trichloroethane	101.6	4.0	ug/L	201	ND	50.6	69-133	68.5	19	QM-20
Tetrachloroethylene	108.9	4.0	ug/L	201	ND	54.2	70-124	62.5	24	QM-20
2-Hexanone (MBK)	245.8	20.0	ug/L	400	ND	61.4	53-141	68.7	24	QM-20
Dibromochloromethane	108.8	4.0	ug/L	201	20.29	44.0	74-122	66.4	21	QM-20
1,2-Dibromoethane	99.84	4.0	ug/L	202	ND	49.5	66-127	66.9	23	QM-20
Chlorobenzene	108.7	4.0	ug/L	201	ND	54.1	76-116	66.0	21	QM-20
1,1,1,2-Tetrachloroethane	105.0	4.0	ug/L	201	ND	52.3	77-121	68.2	25	QM-20
Ethylbenzene	118.4	4.0	ug/L	201	ND	58.8	73-124	64.5	20	QM-20
Xylenes, total	352.0	8.0	ug/L	603	ND	58.4	75-123	65.2	20	QM-20
Styrene	110.6	4.0	ug/L	201	ND	54.9	70-120	65.7	23	QM-20
Bromoform	92.88	4.0	ug/L	201	5.89	43.3	70-124	69.1	22	QM-20
1,2,3-Trichloropropane	106.4	4.0	ug/L	201	ND	53.0	62-135	67.9	28	QM-20
trans-1,4-Dichloro-2-butene	196.7	20.0	ug/L	401	ND	49.0	50-120	68.4	26	QM-20
1,1,2,2-Tetrachloroethane	106.6	4.0	ug/L	201	ND	53.1	63-126	70.6	24	QM-20
1,4-Dichlorobenzene	105.6	4.0	ug/L	201	ND	52.6	72-119	68.2	24	QM-20
1,2-Dichlorobenzene	101.5	4.0	ug/L	201	ND	50.6	71-117	68.1	24	QM-20
1,2-Dibromo-3-chloropropane	95.80	20.0	ug/L	202	ND	47.5	49-134	69.2	28	QM-20
Surrogate: Dibromofluoromethane	*193*		ug/L	*201*		*95.9*	*80-126*			
Surrogate: Dibromofluoromethane	*193*		ug/L	*201*		*95.9*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*218*		ug/L	*202*		*108*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*218*		ug/L	*202*		*108*	*63-138*			
Surrogate: 1,2-Dichloroethane-d4	*218*		ug/L	*202*		*108*	*61-142*			
Surrogate: Toluene-d8	*208*		ug/L	*201*		*103*	*87-116*			
Surrogate: Toluene-d8	*208*		ug/L	*201*		*103*	*87-116*			
Surrogate: Toluene-d8	*208*		ug/L	*201*		*103*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*209*		ug/L	*202*		*104*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*209*		ug/L	*202*		*104*	*85-111*			
Surrogate: 4-Bromofluorobenzene	*209*		ug/L	*202*		*104*	*80-116*			
Batch 1GJ1487 - EPA 5030B - EPA 8260B										
Blank (1GJ1487-BLK1)			Prepared: 10/24/23 00:00 Analyzed: 10/24/23 15:22							
Acrolein	<10.0	10.0	ug/L							
Surrogate: 1,2-Dichloroethane-d4	*49.1*		ug/L	*50.4*		*97.4*	*63-138*			
Surrogate: Toluene-d8	*49.3*		ug/L	*50.2*		*98.1*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*50.2*		ug/L	*50.4*		*99.6*	*85-111*			
LCS (1GJ1487-BS1)			Prepared: 10/24/23 00:00 Analyzed: 10/24/23 14:14							
Acrolein	100.3	10.0	ug/L	100		99.9	27-144			
Surrogate: 1,2-Dichloroethane-d4	*48.6*		ug/L	*50.4*		*96.5*	*63-138*			
Surrogate: Toluene-d8	*50.7*		ug/L	*50.2*		*101*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*49.9*		ug/L	*50.4*		*98.9*	*85-111*			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1487 - EPA 5030B - EPA 8260B										
LCS Dup (1GJ1487-BSD1)			Prepared: 10/24/23 00:00 Analyzed: 10/24/23 14:36							
Acrolein	97.67	10.0	ug/L	100		97.3	27-144	2.64	30	
Surrogate: 1,2-Dichloroethane-d4	*48.2*		ug/L	*50.4*		*95.7*	*63-138*			
Surrogate: Toluene-d8	*50.1*		ug/L	*50.2*		*99.7*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*50.1*		ug/L	*50.4*		*99.4*	*85-111*			
Batch 1GJ1572 - EPA 5030B - EPA 8260B										
Blank (1GJ1572-BLK1)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 10:56							
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							
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							

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1572 - EPA 5030B - EPA 8260B										
Blank (1GJ1572-BLK1)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 10:56							
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	*46.1*		ug/L	*50.4*		*91.5*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*44.1*		ug/L	*50.4*		*87.4*	*61-142*			
Surrogate: Toluene-d8	*51.8*		ug/L	*50.2*		*103*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*50.7*		ug/L	*50.4*		*101*	*80-116*			
Blank (1GJ1572-BLK2)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 22:27							
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							
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							

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1572 - EPA 5030B - EPA 8260B										
Blank (1GJ1572-BLK2)				Prepared: 10/25/23 00:00 Analyzed: 10/25/23 22:27						
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	*44.0*		ug/L	*50.4*		*87.5*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*42.0*		ug/L	*50.4*		*83.3*	*61-142*			
Surrogate: Toluene-d8	*51.7*		ug/L	*50.2*		*103*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*50.7*		ug/L	*50.4*		*101*	*80-116*			
LCS (1GJ1572-BS1)				Prepared: 10/25/23 00:00 Analyzed: 10/25/23 08:58						
Chloromethane	25.82	1.0	ug/L	30.0		86.1	63-155			
Vinyl Chloride	30.67	1.0	ug/L	30.0		102	70-154			
Bromomethane	29.31	1.0	ug/L	30.0		97.7	52-176			
Chloroethane	30.79	1.0	ug/L	30.0		103	72-148			
Trichlorofluoromethane	28.34	1.0	ug/L	30.0		94.5	70-152			
1,1-Dichloroethylene	46.74	1.0	ug/L	50.0		93.5	70-148			
Acetone	111.3	10.0	ug/L	102		109	43-172			
Methyl Iodide	106.3	1.0	ug/L	99.7		107	69-170			
Carbon Disulfide	99.50	1.0	ug/L	101		98.5	72-162			
Methylene Chloride	46.95	5.0	ug/L	50.0		93.9	68-142			
trans-1,2-Dichloroethylene	47.36	1.0	ug/L	50.0		94.7	66-148			
1,1-Dichloroethane	49.12	1.0	ug/L	50.0		98.2	66-143			
Vinyl Acetate	61.51	5.0	ug/L	102		60.4	43-153			
cis-1,2-Dichloroethylene	49.43	1.0	ug/L	49.5		99.9	71-149			
2-Butanone (MEK)	106.5	10.0	ug/L	103		103	52-159			
Bromochloromethane	49.12	1.0	ug/L	50.0		98.2	69-143			
Chloroform	51.07	1.0	ug/L	50.0		102	69-144			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1572 - EPA 5030B - EPA 8260B										
LCS (1GJ1572-BS1)				Prepared: 10/25/23 00:00 Analyzed: 10/25/23 08:58						
1,1,1-Trichloroethane	47.52	1.0	ug/L	50.0		95.1	62-129			
Carbon Tetrachloride	46.57	1.0	ug/L	50.0		93.1	63-141			
Benzene	53.40	1.0	ug/L	50.0		107	71-134			
1,2-Dichloroethane	56.22	1.0	ug/L	50.0		112	72-132			
Trichloroethylene	56.09	1.0	ug/L	50.0		112	71-135			
1,2-Dichloropropane	55.87	1.0	ug/L	50.0		112	69-136			
Dibromomethane	62.13	1.0	ug/L	50.0		124	73-147			
Bromodichloromethane	49.53	1.0	ug/L	50.0		99.1	68-129			
cis-1,3-Dichloropropene	56.08	1.0	ug/L	50.3		111	65-134			
4-Methyl-2-pentanone (MIBK)	114.0	5.0	ug/L	101		112	58-147			
Toluene	51.91	1.0	ug/L	50.0		104	72-133			
trans-1,3-Dichloropropene	57.40	1.0	ug/L	50.4		114	67-130			
1,1,2-Trichloroethane	59.52	1.0	ug/L	50.0		119	69-135			
Tetrachloroethylene	50.98	1.0	ug/L	50.0		102	69-130			
2-Hexanone (MBK)	116.5	5.0	ug/L	103		113	55-144			
Dibromochloromethane	58.30	1.0	ug/L	49.5		118	73-127			
1,2-Dibromoethane	57.50	1.0	ug/L	50.0		115	67-132			
Chlorobenzene	50.59	1.0	ug/L	50.0		101	72-123			
1,1,1,2-Tetrachloroethane	56.88	1.0	ug/L	50.0		114	73-127			
Ethylbenzene	50.85	1.0	ug/L	50.0		102	71-127			
Xylenes, total	156.2	2.0	ug/L	150		104	74-127			
Styrene	51.19	1.0	ug/L	50.0		102	66-126			
Bromoform	59.65	1.0	ug/L	50.0		119	68-130			
1,2,3-Trichloropropane	54.76	1.0	ug/L	50.0		110	63-136			
trans-1,4-Dichloro-2-butene	114.7	5.0	ug/L	104		110	54-134			
1,1,2,2-Tetrachloroethane	56.54	1.0	ug/L	49.8		113	61-131			
1,4-Dichlorobenzene	50.04	1.0	ug/L	50.0		100	70-129			
1,2-Dichlorobenzene	49.12	1.0	ug/L	50.0		98.2	69-126			
1,2-Dibromo-3-chloropropane	53.02	5.0	ug/L	50.0		106	50-143			
Surrogate: Dibromofluoromethane	*47.6*		ug/L	*50.4*		*94.6*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*50.1*		ug/L	*50.4*		*99.4*	*61-142*			
Surrogate: Toluene-d8	*50.2*		ug/L	*50.2*		*99.9*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*50.5*		ug/L	*50.4*		*100*	*80-116*			
LCS (1GJ1572-BS2)				Prepared: 10/25/23 00:00 Analyzed: 10/25/23 20:30						
Chloromethane	23.50	1.0	ug/L	30.0		78.3	63-155			
Vinyl Chloride	28.74	1.0	ug/L	30.0		95.8	70-154			
Bromomethane	18.88	1.0	ug/L	30.0		62.9	52-176			
Chloroethane	30.22	1.0	ug/L	30.0		101	72-148			
Trichlorofluoromethane	28.58	1.0	ug/L	30.0		95.3	70-152			
1,1-Dichloroethylene	46.48	1.0	ug/L	50.0		93.0	70-148			
Acetone	105.4	10.0	ug/L	102		103	43-172			
Methyl Iodide	110.6	1.0	ug/L	99.7		111	69-170			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1572 - EPA 5030B - EPA 8260B										
LCS (1GJ1572-BS2)				Prepared: 10/25/23 00:00 Analyzed: 10/25/23 20:30						
Carbon Disulfide	96.01	1.0	ug/L	101		95.1	72-162			
Methylene Chloride	44.65	5.0	ug/L	50.0		89.3	68-142			
trans-1,2-Dichloroethylene	45.76	1.0	ug/L	50.0		91.5	66-148			
1,1-Dichloroethane	47.76	1.0	ug/L	50.0		95.5	66-143			
Vinyl Acetate	57.53	5.0	ug/L	102		56.5	43-153			
cis-1,2-Dichloroethylene	47.42	1.0	ug/L	49.5		95.8	71-149			
2-Butanone (MEK)	98.10	10.0	ug/L	103		95.0	52-159			
Bromochloromethane	46.92	1.0	ug/L	50.0		93.8	69-143			
Chloroform	49.30	1.0	ug/L	50.0		98.6	69-144			
1,1,1-Trichloroethane	46.06	1.0	ug/L	50.0		92.2	62-129			
Carbon Tetrachloride	45.95	1.0	ug/L	50.0		91.9	63-141			
Benzene	51.84	1.0	ug/L	50.0		104	71-134			
1,2-Dichloroethane	54.66	1.0	ug/L	50.0		109	72-132			
Trichloroethylene	54.33	1.0	ug/L	50.0		109	71-135			
1,2-Dichloropropane	53.69	1.0	ug/L	50.0		107	69-136			
Dibromomethane	59.29	1.0	ug/L	50.0		119	73-147			
Bromodichloromethane	47.86	1.0	ug/L	50.0		95.7	68-129			
cis-1,3-Dichloropropene	53.16	1.0	ug/L	50.3		106	65-134			
4-Methyl-2-pentanone (MIBK)	107.0	5.0	ug/L	101		106	58-147			
Toluene	51.05	1.0	ug/L	50.0		102	72-133			
trans-1,3-Dichloropropene	53.98	1.0	ug/L	50.4		107	67-130			
1,1,2-Trichloroethane	56.51	1.0	ug/L	50.0		113	69-135			
Tetrachloroethylene	49.40	1.0	ug/L	50.0		98.8	69-130			
2-Hexanone (MBK)	107.5	5.0	ug/L	103		104	55-144			
Dibromochloromethane	54.52	1.0	ug/L	49.5		110	73-127			
1,2-Dibromoethane	55.21	1.0	ug/L	50.0		110	67-132			
Chlorobenzene	48.95	1.0	ug/L	50.0		97.9	72-123			
1,1,1,2-Tetrachloroethane	54.62	1.0	ug/L	50.0		109	73-127			
Ethylbenzene	49.90	1.0	ug/L	50.0		99.8	71-127			
Xylenes, total	153.9	2.0	ug/L	150		103	74-127			
Styrene	49.62	1.0	ug/L	50.0		99.2	66-126			
Bromoform	55.36	1.0	ug/L	50.0		111	68-130			
1,2,3-Trichloropropane	51.90	1.0	ug/L	50.0		104	63-136			
trans-1,4-Dichloro-2-butene	96.78	5.0	ug/L	104		93.1	54-134			
1,1,2,2-Tetrachloroethane	53.71	1.0	ug/L	49.8		108	61-131			
1,4-Dichlorobenzene	49.05	1.0	ug/L	50.0		98.1	70-129			
1,2-Dichlorobenzene	48.42	1.0	ug/L	50.0		96.8	69-126			
1,2-Dibromo-3-chloropropane	48.62	5.0	ug/L	50.0		97.2	50-143			
Surrogate: Dibromofluoromethane	*45.7*		ug/L	*50.4*		*90.8*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*48.4*		ug/L	*50.4*		*95.9*	*61-142*			
Surrogate: Toluene-d8	*49.6*		ug/L	*50.2*		*98.8*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*51.6*		ug/L	*50.4*		*102*	*80-116*			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1572 - EPA 5030B - EPA 8260B										
LCS Dup (1GJ1572-BSD1)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 09:37							
Chloromethane	24.81	1.0	ug/L	30.0		82.7	63-155	3.99	24	
Vinyl Chloride	28.91	1.0	ug/L	30.0		96.4	70-154	5.91	25	
Bromomethane	28.50	1.0	ug/L	30.0		95.0	52-176	2.80	27	
Chloroethane	28.50	1.0	ug/L	30.0		95.0	72-148	7.72	25	
Trichlorofluoromethane	27.20	1.0	ug/L	30.0		90.7	70-152	4.11	26	
1,1-Dichloroethylene	44.86	1.0	ug/L	50.0		89.7	70-148	4.10	24	
Acetone	109.0	10.0	ug/L	102		107	43-172	2.09	30	
Methyl Iodide	102.0	1.0	ug/L	99.7		102	69-170	4.17	30	
Carbon Disulfide	94.18	1.0	ug/L	101		93.2	72-162	5.49	24	
Methylene Chloride	44.94	5.0	ug/L	50.0		89.9	68-142	4.37	21	
trans-1,2-Dichloroethylene	45.49	1.0	ug/L	50.0		91.0	66-148	4.03	27	
1,1-Dichloroethane	47.31	1.0	ug/L	50.0		94.6	66-143	3.75	24	
Vinyl Acetate	60.05	5.0	ug/L	102		58.9	43-153	2.40	30	
cis-1,2-Dichloroethylene	48.10	1.0	ug/L	49.5		97.2	71-149	2.73	26	
2-Butanone (MEK)	104.2	10.0	ug/L	103		101	52-159	2.15	27	
Bromochloromethane	48.02	1.0	ug/L	50.0		96.0	69-143	2.26	23	
Chloroform	48.78	1.0	ug/L	50.0		97.6	69-144	4.59	23	
1,1,1-Trichloroethane	45.49	1.0	ug/L	50.0		91.0	62-129	4.37	24	
Carbon Tetrachloride	44.83	1.0	ug/L	50.0		89.7	63-141	3.81	25	
Benzene	51.53	1.0	ug/L	50.0		103	71-134	3.56	24	
1,2-Dichloroethane	54.70	1.0	ug/L	50.0		109	72-132	2.74	24	
Trichloroethylene	54.45	1.0	ug/L	50.0		109	71-135	2.97	24	
1,2-Dichloropropane	54.33	1.0	ug/L	50.0		109	69-136	2.79	24	
Dibromomethane	60.61	1.0	ug/L	50.0		121	73-147	2.48	25	
Bromodichloromethane	48.05	1.0	ug/L	50.0		96.1	68-129	3.03	22	
cis-1,3-Dichloropropene	54.56	1.0	ug/L	50.3		108	65-134	2.75	23	
4-Methyl-2-pentanone (MIBK)	113.1	5.0	ug/L	101		112	58-147	0.775	27	
Toluene	49.80	1.0	ug/L	50.0		99.6	72-133	4.15	24	
trans-1,3-Dichloropropene	56.03	1.0	ug/L	50.4		111	67-130	2.42	24	
1,1,2-Trichloroethane	58.27	1.0	ug/L	50.0		117	69-135	2.12	23	
Tetrachloroethylene	49.92	1.0	ug/L	50.0		99.8	69-130	2.10	25	
2-Hexanone (MBK)	117.7	5.0	ug/L	103		114	55-144	1.02	25	
Dibromochloromethane	57.98	1.0	ug/L	49.5		117	73-127	0.550	22	
1,2-Dibromoethane	58.01	1.0	ug/L	50.0		116	67-132	0.883	24	
Chlorobenzene	49.56	1.0	ug/L	50.0		99.1	72-123	2.06	23	
1,1,1,2-Tetrachloroethane	56.04	1.0	ug/L	50.0		112	73-127	1.49	24	
Ethylbenzene	49.96	1.0	ug/L	50.0		99.9	71-127	1.77	26	
Xylenes, total	152.9	2.0	ug/L	150		102	74-127	2.17	25	
Styrene	50.33	1.0	ug/L	50.0		101	66-126	1.69	23	
Bromoform	58.44	1.0	ug/L	50.0		117	68-130	2.05	23	
1,2,3-Trichloropropane	54.75	1.0	ug/L	50.0		110	63-136	0.0183	24	
trans-1,4-Dichloro-2-butene	112.9	5.0	ug/L	104		109	54-134	1.61	27	
1,1,2,2-Tetrachloroethane	55.54	1.0	ug/L	49.8		111	61-131	1.78	29	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1572 - EPA 5030B - EPA 8260B										
LCS Dup (1GJ1572-BSD1)				Prepared: 10/25/23 00:00 Analyzed: 10/25/23 09:37						
1,4-Dichlorobenzene	49.12	1.0	ug/L	50.0		98.2	70-129	1.86	24	
1,2-Dichlorobenzene	48.61	1.0	ug/L	50.0		97.2	69-126	1.04	26	
1,2-Dibromo-3-chloropropane	52.53	5.0	ug/L	50.0		105	50-143	0.928	30	
Surrogate: Dibromofluoromethane	*45.9*		ug/L	*50.4*		*91.2*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*49.6*		ug/L	*50.4*		*98.4*	*61-142*			
Surrogate: Toluene-d8	*49.7*		ug/L	*50.2*		*99.0*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*51.7*		ug/L	*50.4*		*103*	*80-116*			
LCS Dup (1GJ1572-BSD2)				Prepared: 10/25/23 00:00 Analyzed: 10/25/23 21:09						
Chloromethane	22.43	1.0	ug/L	30.0		74.8	63-155	4.66	24	
Vinyl Chloride	27.11	1.0	ug/L	30.0		90.4	70-154	5.84	25	
Bromomethane	20.43	1.0	ug/L	30.0		68.1	52-176	7.89	27	
Chloroethane	28.43	1.0	ug/L	30.0		94.8	72-148	6.10	25	
Trichlorofluoromethane	26.58	1.0	ug/L	30.0		88.6	70-152	7.25	26	
1,1-Dichloroethylene	44.37	1.0	ug/L	50.0		88.7	70-148	4.65	24	
Acetone	103.0	10.0	ug/L	102		101	43-172	2.31	30	
Methyl Iodide	106.6	1.0	ug/L	99.7		107	69-170	3.71	30	
Carbon Disulfide	90.91	1.0	ug/L	101		90.0	72-162	5.46	24	
Methylene Chloride	43.15	5.0	ug/L	50.0		86.3	68-142	3.42	21	
trans-1,2-Dichloroethylene	43.82	1.0	ug/L	50.0		87.6	66-148	4.33	27	
1,1-Dichloroethane	46.02	1.0	ug/L	50.0		92.0	66-143	3.71	24	
Vinyl Acetate	56.63	5.0	ug/L	102		55.6	43-153	1.58	30	
cis-1,2-Dichloroethylene	46.61	1.0	ug/L	49.5		94.2	71-149	1.72	26	
2-Butanone (MEK)	95.72	10.0	ug/L	103		92.7	52-159	2.46	27	
Bromochloromethane	46.63	1.0	ug/L	50.0		93.3	69-143	0.620	23	
Chloroform	47.11	1.0	ug/L	50.0		94.2	69-144	4.54	23	
1,1,1-Trichloroethane	44.45	1.0	ug/L	50.0		88.9	62-129	3.56	24	
Carbon Tetrachloride	44.40	1.0	ug/L	50.0		88.8	63-141	3.43	25	
Benzene	49.81	1.0	ug/L	50.0		99.6	71-134	3.99	24	
1,2-Dichloroethane	53.00	1.0	ug/L	50.0		106	72-132	3.08	24	
Trichloroethylene	52.52	1.0	ug/L	50.0		105	71-135	3.39	24	
1,2-Dichloropropane	52.35	1.0	ug/L	50.0		105	69-136	2.53	24	
Dibromomethane	59.01	1.0	ug/L	50.0		118	73-147	0.473	25	
Bromodichloromethane	47.07	1.0	ug/L	50.0		94.1	68-129	1.66	22	
cis-1,3-Dichloropropene	51.91	1.0	ug/L	50.3		103	65-134	2.38	23	
4-Methyl-2-pentanone (MIBK)	105.3	5.0	ug/L	101		104	58-147	1.62	27	
Toluene	49.30	1.0	ug/L	50.0		98.6	72-133	3.49	24	
trans-1,3-Dichloropropene	53.44	1.0	ug/L	50.4		106	67-130	1.01	24	
1,1,2-Trichloroethane	54.93	1.0	ug/L	50.0		110	69-135	2.84	23	
Tetrachloroethylene	47.71	1.0	ug/L	50.0		95.4	69-130	3.48	25	
2-Hexanone (MBK)	106.5	5.0	ug/L	103		103	55-144	0.963	25	
Dibromochloromethane	52.72	1.0	ug/L	49.5		107	73-127	3.36	22	
1,2-Dibromoethane	53.73	1.0	ug/L	50.0		107	67-132	2.72	24	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1572 - EPA 5030B - EPA 8260B										
LCS Dup (1GJ1572-BSD2)				Prepared: 10/25/23 00:00 Analyzed: 10/25/23 21:09						
Chlorobenzene	47.22	1.0	ug/L	50.0		94.4	72-123	3.60	23	
1,1,1,2-Tetrachloroethane	53.42	1.0	ug/L	50.0		107	73-127	2.22	24	
Ethylbenzene	48.43	1.0	ug/L	50.0		96.9	71-127	2.99	26	
Xylenes, total	147.8	2.0	ug/L	150		98.5	74-127	4.04	25	
Styrene	48.11	1.0	ug/L	50.0		96.2	66-126	3.09	23	
Bromoform	54.45	1.0	ug/L	50.0		109	68-130	1.66	23	
1,2,3-Trichloropropane	52.24	1.0	ug/L	50.0		104	63-136	0.653	24	
trans-1,4-Dichloro-2-butene	95.14	5.0	ug/L	104		91.6	54-134	1.71	27	
1,1,2,2-Tetrachloroethane	52.76	1.0	ug/L	49.8		106	61-131	1.78	29	
1,4-Dichlorobenzene	47.51	1.0	ug/L	50.0		95.0	70-129	3.19	24	
1,2-Dichlorobenzene	46.74	1.0	ug/L	50.0		93.5	69-126	3.53	26	
1,2-Dibromo-3-chloropropane	46.93	5.0	ug/L	50.0		93.9	50-143	3.54	30	
Surrogate: Dibromofluoromethane	*46.1*		ug/L	*50.4*		*91.6*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*48.0*		ug/L	*50.4*		*95.2*	*61-142*			
Surrogate: Toluene-d8	*50.1*		ug/L	*50.2*		*99.7*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*52.0*		ug/L	*50.4*		*103*	*80-116*			
Matrix Spike (1GJ1572-MS1)	**Source: 1GJ2011-01**			Prepared: 10/25/23 00:00 Analyzed: 10/26/23 05:37						
Chloromethane	90.72	4.0	ug/L	120	ND	75.6	61-152			
Vinyl Chloride	104.6	4.0	ug/L	120	ND	87.2	66-149			
Bromomethane	84.84	4.0	ug/L	120	ND	70.7	43-171			
Chloroethane	114.5	4.0	ug/L	120	ND	95.4	69-148			
Trichlorofluoromethane	112.8	4.0	ug/L	120	ND	94.0	62-163			
1,1-Dichloroethylene	183.8	4.0	ug/L	200	ND	91.9	70-148			
Acetone	449.4	40.0	ug/L	408	60.45	95.3	45-173			
Methyl Iodide	335.5	4.0	ug/L	399	ND	84.1	62-167			
Carbon Disulfide	378.1	4.0	ug/L	404	ND	93.6	71-163			
Methylene Chloride	175.0	20.0	ug/L	200	ND	87.5	69-140			
trans-1,2-Dichloroethylene	181.0	4.0	ug/L	200	ND	90.5	69-144			
1,1-Dichloroethane	187.0	4.0	ug/L	200	ND	93.5	70-138			
Vinyl Acetate	223.5	20.0	ug/L	408	ND	54.8	58-142			QM-05
cis-1,2-Dichloroethylene	187.4	4.0	ug/L	198	ND	94.7	68-151			
2-Butanone (MEK)	379.6	40.0	ug/L	413	58.02	77.8	50-160			
Bromochloromethane	188.7	4.0	ug/L	200	ND	94.4	65-143			
Chloroform	210.7	4.0	ug/L	200	39.83	85.4	71-143			
1,1,1-Trichloroethane	183.4	4.0	ug/L	200	ND	91.7	63-133			
Carbon Tetrachloride	183.4	4.0	ug/L	200	ND	91.7	63-142			
Benzene	200.8	4.0	ug/L	200	ND	100	69-133			
1,2-Dichloroethane	208.3	4.0	ug/L	200	ND	104	63-138			
Trichloroethylene	212.1	4.0	ug/L	200	ND	106	71-133			
1,2-Dichloropropane	208.0	4.0	ug/L	200	ND	104	69-132			
Dibromomethane	234.0	4.0	ug/L	200	ND	117	70-147			
Bromodichloromethane	188.7	4.0	ug/L	200	9.65	89.5	67-130			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1572 - EPA 5030B - EPA 8260B										
Matrix Spike (1GJ1572-MS1)	**Source: 1GJ2011-01**		Prepared: 10/25/23 00:00 Analyzed: 10/26/23 05:37							
cis-1,3-Dichloropropene	196.3	4.0	ug/L	201	ND	97.5	61-126			
4-Methyl-2-pentanone (MIBK)	416.4	20.0	ug/L	406	40.53	92.7	55-147			
Toluene	202.2	4.0	ug/L	200	ND	101	71-133			
trans-1,3-Dichloropropene	201.3	4.0	ug/L	202	ND	99.8	63-124			
1,1,2-Trichloroethane	215.8	4.0	ug/L	200	ND	108	69-133			
Tetrachloroethylene	197.2	4.0	ug/L	200	ND	98.6	70-124			
2-Hexanone (MBK)	422.2	20.0	ug/L	413	ND	102	53-141			
Dibromochloromethane	195.1	4.0	ug/L	198	3.85	96.6	74-122			
1,2-Dibromoethane	214.1	4.0	ug/L	200	ND	107	66-127			
Chlorobenzene	192.7	4.0	ug/L	200	ND	96.3	76-116			
1,1,1,2-Tetrachloroethane	212.2	4.0	ug/L	200	ND	106	77-121			
Ethylbenzene	198.4	4.0	ug/L	200	5.09	96.7	73-124			
Xylenes, total	607.3	8.0	ug/L	600	45.41	93.6	75-123			
Styrene	192.0	4.0	ug/L	200	ND	96.0	70-120			
Bromoform	171.3	4.0	ug/L	200	ND	85.7	70-124			
1,2,3-Trichloropropane	206.0	4.0	ug/L	200	ND	103	62-135			
trans-1,4-Dichloro-2-butene	361.4	20.0	ug/L	416	ND	87.0	50-120			
1,1,2,2-Tetrachloroethane	204.5	4.0	ug/L	199	ND	103	63-126			
1,4-Dichlorobenzene	188.1	4.0	ug/L	200	ND	94.0	72-119			
1,2-Dichlorobenzene	186.6	4.0	ug/L	200	ND	93.3	71-117			
1,2-Dibromo-3-chloropropane	176.2	20.0	ug/L	200	ND	88.1	49-134			
Surrogate: Dibromofluoromethane	*179*		ug/L	*201*		*88.8*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*188*		ug/L	*202*		*93.3*	*61-142*			
Surrogate: Toluene-d8	*198*		ug/L	*201*		*98.7*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*206*		ug/L	*202*		*102*	*80-116*			
Matrix Spike Dup (1GJ1572-MSD1)	**Source: 1GJ2011-01**		Prepared: 10/25/23 00:00 Analyzed: 10/26/23 06:16							
Chloromethane	86.52	4.0	ug/L	120	ND	72.1	61-152	4.74	26	
Vinyl Chloride	98.12	4.0	ug/L	120	ND	81.8	66-149	6.39	23	
Bromomethane	87.48	4.0	ug/L	120	ND	72.9	43-171	3.06	29	
Chloroethane	106.7	4.0	ug/L	120	ND	88.9	69-148	7.02	25	
Trichlorofluoromethane	104.9	4.0	ug/L	120	ND	87.4	62-163	7.28	25	
1,1-Dichloroethylene	173.6	4.0	ug/L	200	ND	86.8	70-148	5.68	22	
Acetone	465.4	40.0	ug/L	408	60.45	99.2	45-173	3.49	30	
Methyl Iodide	367.6	4.0	ug/L	399	ND	92.2	62-167	9.11	24	
Carbon Disulfide	350.1	4.0	ug/L	404	ND	86.7	71-163	7.69	22	
Methylene Chloride	164.3	20.0	ug/L	200	ND	82.1	69-140	6.30	19	
trans-1,2-Dichloroethylene	173.8	4.0	ug/L	200	ND	86.9	69-144	4.08	22	
1,1-Dichloroethane	179.4	4.0	ug/L	200	ND	89.7	70-138	4.15	20	
Vinyl Acetate	229.6	20.0	ug/L	408	ND	56.3	58-142	2.67	24	QM-05
cis-1,2-Dichloroethylene	141.1	4.0	ug/L	198	ND	71.3	68-151	28.2	22	QM-05
2-Butanone (MEK)	354.0	40.0	ug/L	413	58.02	71.6	50-160	6.99	23	
Bromochloromethane	182.5	4.0	ug/L	200	ND	91.3	65-143	3.34	22	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1572 - EPA 5030B - EPA 8260B										
Matrix Spike Dup (1GJ1572-MSD1)	**Source: 1GJ2011-01**		Prepared: 10/25/23 00:00 Analyzed: 10/26/23 06:16							
Chloroform	201.0	4.0	ug/L	200	39.83	80.6	71-143	4.72	21	
1,1,1-Trichloroethane	174.5	4.0	ug/L	200	ND	87.3	63-133	4.98	23	
Carbon Tetrachloride	176.7	4.0	ug/L	200	ND	88.3	63-142	3.71	22	
Benzene	193.5	4.0	ug/L	200	ND	96.8	69-133	3.69	18	
1,2-Dichloroethane	209.2	4.0	ug/L	200	ND	105	63-138	0.441	20	
Trichloroethylene	205.0	4.0	ug/L	200	ND	102	71-133	3.43	23	
1,2-Dichloropropane	206.6	4.0	ug/L	200	ND	103	69-132	0.656	20	
Dibromomethane	235.5	4.0	ug/L	200	ND	118	70-147	0.665	22	
Bromodichloromethane	184.0	4.0	ug/L	200	9.65	87.2	67-130	2.49	21	
cis-1,3-Dichloropropene	194.3	4.0	ug/L	201	ND	96.5	61-126	1.02	21	
4-Methyl-2-pentanone (MIBK)	429.9	20.0	ug/L	406	40.53	96.0	55-147	3.18	23	
Toluene	193.7	4.0	ug/L	200	ND	96.8	71-133	4.28	19	
trans-1,3-Dichloropropene	202.2	4.0	ug/L	202	ND	100	63-124	0.436	21	
1,1,2-Trichloroethane	220.7	4.0	ug/L	200	ND	110	69-133	2.25	19	
Tetrachloroethylene	192.0	4.0	ug/L	200	ND	96.0	70-124	2.65	24	
2-Hexanone (MBK)	440.3	20.0	ug/L	413	ND	107	53-141	4.20	24	
Dibromochloromethane	203.3	4.0	ug/L	198	3.85	101	74-122	4.12	21	
1,2-Dibromoethane	217.4	4.0	ug/L	200	ND	109	66-127	1.54	23	
Chlorobenzene	187.8	4.0	ug/L	200	ND	93.9	76-116	2.54	21	
1,1,1,2-Tetrachloroethane	211.7	4.0	ug/L	200	ND	106	77-121	0.245	25	
Ethylbenzene	191.8	4.0	ug/L	200	5.09	93.3	73-124	3.40	20	
Xylenes, total	588.3	8.0	ug/L	600	45.41	90.5	75-123	3.18	20	
Styrene	185.3	4.0	ug/L	200	ND	92.7	70-120	3.54	23	
Bromoform	181.6	4.0	ug/L	200	ND	90.8	70-124	5.83	22	
1,2,3-Trichloropropane	215.3	4.0	ug/L	200	ND	108	62-135	4.44	28	
trans-1,4-Dichloro-2-butene	371.0	20.0	ug/L	416	ND	89.3	50-120	2.61	26	
1,1,2,2-Tetrachloroethane	208.5	4.0	ug/L	199	ND	105	63-126	1.96	24	
1,4-Dichlorobenzene	185.0	4.0	ug/L	200	ND	92.5	72-119	1.63	24	
1,2-Dichlorobenzene	185.0	4.0	ug/L	200	ND	92.5	71-117	0.861	24	
1,2-Dibromo-3-chloropropane	190.5	20.0	ug/L	200	ND	95.2	49-134	7.79	28	
Surrogate: Dibromofluoromethane	*177*		ug/L	*201*		*88.0*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*190*		ug/L	*202*		*94.2*	*61-142*			
Surrogate: Toluene-d8	*197*		ug/L	*201*		*97.8*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*206*		ug/L	*202*		*102*	*80-116*			
Batch 1GJ1658 - EPA 5030B - EPA 8260B										
Blank (1GJ1658-BLK1)			Prepared: 11/01/23 00:00 Analyzed: 11/01/23 09:37							
Allyl chloride	<1.0	1.0	ug/L							
Chloroprene	<1.0	1.0	ug/L							
Methacrylonitrile	<1.0	1.0	ug/L							
Methyl Methacrylate	<1.0	1.0	ug/L							
Propionitrile	<10.0	10.0	ug/L							

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1658 - EPA 5030B - EPA 8260B										
Blank (1GJ1658-BLK1)			Prepared: 11/01/23 00:00 Analyzed: 11/01/23 09:37							
Surrogate: Dibromofluoromethane	*47.0*		ug/L	*50.4*		*93.4*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*42.0*		ug/L	*50.4*		*83.3*	*63-138*			
Surrogate: Toluene-d8	*55.6*		ug/L	*50.2*		*111*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*48.8*		ug/L	*50.4*		*96.9*	*85-111*			
LCS (1GJ1658-BS1)			Prepared: 11/01/23 00:00 Analyzed: 11/01/23 08:29							
Allyl chloride	54.54	1.0	ug/L	50.1		109	76-134			
Chloroprene	24.46	1.0	ug/L	25.0		97.7	74-141			
Methacrylonitrile	56.04	1.0	ug/L	50.0		112	73-143			
Methyl Methacrylate	55.87	1.0	ug/L	50.1		112	72-123			
Propionitrile	55.24	10.0	ug/L	50.1		110	50-151			
Surrogate: Dibromofluoromethane	*48.1*		ug/L	*50.4*		*95.5*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*44.7*		ug/L	*50.4*		*88.8*	*63-138*			
Surrogate: Toluene-d8	*50.3*		ug/L	*50.2*		*100*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*51.2*		ug/L	*50.4*		*102*	*85-111*			
LCS Dup (1GJ1658-BSD1)			Prepared: 11/01/23 00:00 Analyzed: 11/01/23 08:52							
Allyl chloride	54.02	1.0	ug/L	50.1		108	76-134	0.958	30	
Chloroprene	23.67	1.0	ug/L	25.0		94.5	74-141	3.28	30	
Methacrylonitrile	58.14	1.0	ug/L	50.0		116	73-143	3.68	30	
Methyl Methacrylate	57.90	1.0	ug/L	50.1		116	72-123	3.57	30	
Propionitrile	54.91	10.0	ug/L	50.1		110	50-151	0.599	30	
Surrogate: Dibromofluoromethane	*47.8*		ug/L	*50.4*		*94.9*	*80-126*			
Surrogate: 1,2-Dichloroethane-d4	*42.7*		ug/L	*50.4*		*84.7*	*63-138*			
Surrogate: Toluene-d8	*50.3*		ug/L	*50.2*		*100*	*87-116*			
Surrogate: 4-Bromofluorobenzene	*48.6*		ug/L	*50.4*		*96.4*	*85-111*			

Determination of General Solvents	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1105 - Semi-Vol GC - EPA 8015C										
Blank (1GJ1105-BLK1)			Prepared: 10/18/23 12:19 Analyzed: 10/18/23 17:38							
Isobutanol	<1.0	1.0	mg/L							
Blank (1GJ1105-BLK2)			Prepared: 10/18/23 12:19 Analyzed: 10/19/23 01:04							
Isobutanol	<1.0	1.0	mg/L							
LCS (1GJ1105-BS1)			Prepared: 10/18/23 12:19 Analyzed: 10/18/23 16:48							
Isobutanol	27.01	1.0	mg/L	26.0		104	40-135			
LCS (1GJ1105-BS2)			Prepared: 10/18/23 12:19 Analyzed: 10/19/23 00:14							
Isobutanol	24.61	1.0	mg/L	26.0		94.6	40-135			
Matrix Spike (1GJ1105-MS1)	**Source: 1GJ0597-04**		Prepared: 10/18/23 12:19 Analyzed: 10/18/23 22:10							
Isobutanol	25.53	1.0	mg/L	26.0	ND	98.2	63-135			
Matrix Spike (1GJ1105-MS2)	**Source: 1GJ1452-08**		Prepared: 10/18/23 12:19 Analyzed: 10/19/23 03:08							

Determination of General Solvents	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1105 - Semi-Vol GC - EPA 8015C										
Matrix Spike (1GJ1105-MS2)		**Source: 1GJ1452-08**		Prepared: 10/18/23 12:19 Analyzed: 10/19/23 03:08						
Isobutanol	24.56	1.0	mg/L	26.0	ND	94.5	63-135			
Matrix Spike Dup (1GJ1105-MSD1)		**Source: 1GJ0597-04**		Prepared: 10/18/23 12:19 Analyzed: 10/18/23 22:35						
Isobutanol	24.20	1.0	mg/L	26.0	ND	93.1	63-135	5.32	30	
Matrix Spike Dup (1GJ1105-MSD2)		**Source: 1GJ1452-08**		Prepared: 10/18/23 12:19 Analyzed: 10/19/23 03:32						
Isobutanol	22.64	1.0	mg/L	26.0	ND	87.1	63-135	8.16	30	

Determination of Base/Neutral Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1170 - 3520C BNA Cont Liq - EPA 8270C										
Blank (1GJ1170-BLK1)				Prepared: 10/19/23 09:31 Analyzed: 10/31/23 15:13						
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L							
Surrogate: Nitrobenzene-d5	*31.0*		ug/L	*62.8*		*49.2*	*29-130*			
Surrogate: 2-Fluorobiphenyl	*29.6*		ug/L	*61.0*		*48.6*	*23-113*			
Surrogate: Terphenyl-dl4	*42.8*		ug/L	*65.1*		*65.7*	*27-141*			
LCS (1GJ1170-BS1)				Prepared: 10/19/23 09:31 Analyzed: 10/31/23 15:38						
Bis(2-Ethylhexyl) Phthalate	31.1	6	ug/L	40.0		77.8	33-184			
Surrogate: Nitrobenzene-d5	*37.2*		ug/L	*62.8*		*59.2*	*38-115*			
Surrogate: 2-Fluorobiphenyl	*35.4*		ug/L	*61.0*		*58.0*	*33-110*			
Surrogate: Terphenyl-dl4	*50.4*		ug/L	*65.1*		*77.4*	*30-142*			
LCS Dup (1GJ1170-BSD1)				Prepared: 10/19/23 09:31 Analyzed: 10/31/23 16:02						
Bis(2-Ethylhexyl) Phthalate	8.3	6	ug/L	40.0		20.8	33-184	116	30	QR-04, QS-03
Surrogate: Nitrobenzene-d5	*6.79*		ug/L	*62.8*		*10.8*	*38-115*			*S-07*
Surrogate: 2-Fluorobiphenyl	*6.70*		ug/L	*61.0*		*11.0*	*33-110*			*S-07*
Surrogate: Terphenyl-dl4	*9.71*		ug/L	*65.1*		*14.9*	*30-142*			*S-07*

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GK0896 - 3520C BNA Cont Liq - EPA 8270C										
Blank (1GK0896-BLK1)				Prepared: 11/15/23 13:57 Analyzed: 11/21/23 09:11						
N-Nitrosodimethylamine	<8	8	ug/L							
Methyl Methanesulfonate	<8	8	ug/L							
N-Nitrosodiethylamine	<8	8	ug/L							
N-Nitrosomethylethylamine	<8	8	ug/L							
Ethyl Methanesulfonate	<8	8	ug/L							
Phenol	<8	8	ug/L							

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GK0896 - 3520C BNA Cont Liq - EPA 8270C										
Blank (1GK0896-BLK1)				Prepared: 11/15/23 13:57 Analyzed: 11/21/23 09:11						
Bis(2-Chloroethyl) Ether	<8	8	ug/L							
2-Chlorophenol	<8	8	ug/L							
Benzyl Alcohol	<8	8	ug/L							
2-Methylphenol (o-Cresol)	<8	8	ug/L							
Bis[2-Chloroisopropyl]ether	<8	8	ug/L							
n-Nitroso-di-n-propylamine	<8	8	ug/L							
N-Nitrosopyrrolidine	<8	8	ug/L							
Acetophenone	<8	8	ug/L							
o-Toluidine	<8	8	ug/L							
(3 & 4)-Methylphenol	<8	8	ug/L							
Hexachloroethane	<8	8	ug/L							
Nitrobenzene	<8	8	ug/L							
N-Nitrosopiperidine	<8	8	ug/L							
Isophorone	<8	8	ug/L							
2-Nitrophenol	<8	8	ug/L							
2,4-Dimethylphenol	<8	8	ug/L							
Bis (2-Chloroethoxy) Methane	<8	8	ug/L							
2,4-Dichlorophenol	<8	8	ug/L							
Naphthalene	<8	8	ug/L							
4-Chloroaniline	<8	8	ug/L							
2,6-Dichlorophenol	<8	8	ug/L							
Hexachloropropene	<8	8	ug/L							
Hexachlorobutadiene	<8	8	ug/L							
N-Nitrosodi-n-butylamine	<8	8	ug/L							
1,4-Phenylenediamine	<8	8	ug/L							
4-Chloro-3-methylphenol	<8	8	ug/L							
2-Methylnaphthalene	<8	8	ug/L							
Isosafrole	<8	8	ug/L							
1,2,4,5-Tetrachlorobenzene	<8	8	ug/L							
Hexachlorocyclopentadiene	<8	8	ug/L							
2,4,6-Trichlorophenol	<8	8	ug/L							
2,4,5-Trichlorophenol	<8	8	ug/L							
Safrole	<8	8	ug/L							
2-Chloronaphthalene	<8	8	ug/L							
2-Nitroaniline	<8	8	ug/L							
1,4-Naphthoquinone	<8	8	ug/L							
Dimethylphthalate	<8	8	ug/L							
1,3-Dinitrobenzene	<8	8	ug/L							
1,2-Dinitrobenzene	<8	8	ug/L							
2,6-Dinitrotoluene	<8	8	ug/L							
Acenaphthylene	<8	8	ug/L							
3-Nitroaniline	<8	8	ug/L							

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GK0896 - 3520C BNA Cont Liq - EPA 8270C										
Blank (1GK0896-BLK1)				Prepared: 11/15/23 13:57 Analyzed: 11/21/23 09:11						
Acenaphthene	<8	8	ug/L							
2,4-Dinitrophenol	<8	8	ug/L							
4-Nitrophenol	<8	8	ug/L							
Dibenzofuran	<8	8	ug/L							
2,4-Dinitrotoluene	<8	8	ug/L							
2,3,4,6-Tetrachlorophenol	<8	8	ug/L							
Pentachlorobenzene	<8	8	ug/L							
1-Naphthylamine	<8	8	ug/L							
2-Naphthylamine	<8	8	ug/L							
Diethyl Phthalate	<8	8	ug/L							
Fluorene	<8	8	ug/L							
4-Chlorophenyl Phenyl Ether	<8	8	ug/L							
4-Nitroaniline	<8	8	ug/L							
5-Nitro-o-toluidine	<8	8	ug/L							
4,6-Dinitro-2-methylphenol	<8	8	ug/L							
N-Nitrosodiphenylamine	<8	8	ug/L							
Diphenylamine	<8	8	ug/L							
Azobenzene	<8	8	ug/L							
Diallate	<8	8	ug/L							
1,3,5-Trinitrobenzene	<8	8	ug/L							
Phenacetin	<8	8	ug/L							
4-Bromophenyl Phenyl Ether	<8	8	ug/L							
4-Aminobiphenyl	<8	8	ug/L							
Pentachlorophenol	<8	8	ug/L							
Pronamide	<8	8	ug/L							
Pentachloronitrobenzene (PCNB)	<8	8	ug/L							
Phenanthrene	<8	8	ug/L							
Anthracene	<8	8	ug/L							
Di-n-butyl Phthalate	<8	8	ug/L							
Methapyrilene	<8	8	ug/L							
Fluoranthene	<8	8	ug/L							
Isodrin	<8	8	ug/L							
Chlorobenzilate	<8	8	ug/L							
Pyrene	<8	8	ug/L							
p-(Dimethylamino)azobenzene	<8	8	ug/L							
3,3-Dimethylbenzidine	<8	8	ug/L							
Butyl Benzyl Phthalate	<8	8	ug/L							
Benzo(a)anthracene	<8	8	ug/L							
Chrysene	<8	8	ug/L							
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L							
Kepone	<8	8	ug/L							
3,3´-Dichlorobenzidine	<8	8	ug/L							

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GK0896 - 3520C BNA Cont Liq - EPA 8270C										
Blank (1GK0896-BLK1)				Prepared: 11/15/23 13:57 Analyzed: 11/21/23 09:11						
2-Acetylaminofluorene	<8	8	ug/L							
Di-n-octyl Phthalate	<8	8	ug/L							
Benzo(b)Fluoranthene	<8	8	ug/L							
7,12-Dimethylbenz [a] anthracene	<8	8	ug/L							
Benzo(k)Fluoranthene	<8	8	ug/L							
Benzo(a)Pyrene	<8	8	ug/L							
3-Methylcholanthrene	<8	8	ug/L							
Dibenzo(a,h)anthracene	<8	8	ug/L							
Indeno(1,2,3-cd)Pyrene	<8	8	ug/L							
Benzo(g,h,i)perylene	<8	8	ug/L							
Surrogate: 2-Fluorophenol	*35.9*		ug/L	*60.6*		*59.3*	*24-136*			
Surrogate: Phenol-d6	*35.4*		ug/L	*61.9*		*57.2*	*15-140*			
Surrogate: Nitrobenzene-d5	*36.6*		ug/L	*62.8*		*58.3*	*29-130*			
Surrogate: 2-Fluorobiphenyl	*35.8*		ug/L	*61.0*		*58.8*	*23-113*			
Surrogate: 2,4,6-Tribromophenol	*48.4*		ug/L	*62.2*		*77.7*	*15-139*			
Surrogate: Terphenyl-dl4	*60.0*		ug/L	*65.1*		*92.1*	*27-141*			
LCS (1GK0896-BS1)				Prepared: 11/15/23 13:57 Analyzed: 11/21/23 10:24						
N-Nitrosodimethylamine	20.2	8	ug/L	41.7		48.5	36-138			
Methyl Methanesulfonate	23.4	8	ug/L	50.0		46.9	22-114			
N-Nitrosodiethylamine	25.2	8	ug/L	50.0		50.5	52-114			QS-03
N-Nitrosomethylethylamine	25.1	8	ug/L	50.0		50.2	36-120			
Ethyl Methanesulfonate	25.1	8	ug/L	50.0		50.3	46-110			
Phenol	22.7	8	ug/L	41.7		54.4	50-112			
Bis(2-Chloroethyl) Ether	22.1	8	ug/L	41.7		53.1	39-151			
2-Chlorophenol	23.4	8	ug/L	41.7		56.1	56-116			
Benzyl Alcohol	22.2	8	ug/L	41.7		53.3	13-158			
2-Methylphenol (o-Cresol)	25.4	8	ug/L	41.7		61.1	53-131			
Bis[2-Chloroisopropyl]ether	22.5	8	ug/L	41.7		54.0	50-121			
n-Nitroso-di-n-propylamine	24.8	8	ug/L	41.7		59.5	50-138			
N-Nitrosopyrrolidine	29.8	8	ug/L	50.0		59.5	31-118			
Acetophenone	28.3	8	ug/L	50.0		56.5	45-104			
o-Toluidine	25.7	8	ug/L	50.0		51.3	10-163			
(3 & 4)-Methylphenol	25.8	8	ug/L	41.7		62.0	30-164			
Hexachloroethane	14.4	8	ug/L	41.7		34.7	10-110			
Nitrobenzene	23.9	8	ug/L	41.7		57.4	47-134			
N-Nitrosopiperidine	28.3	8	ug/L	50.0		56.6	51-122			
Isophorone	26.6	8	ug/L	41.7		63.9	54-128			
2-Nitrophenol	26.1	8	ug/L	41.7		62.7	54-117			
2,4-Dimethylphenol	28.0	8	ug/L	41.7		67.3	52-118			
Bis (2-Chloroethoxy) Methane	26.1	8	ug/L	41.7		62.7	13-132			
2,4-Dichlorophenol	29.6	8	ug/L	41.7		71.0	58-114			
Naphthalene	22.2	8	ug/L	41.7		53.3	37-116			

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GK0896 - 3520C BNA Cont Liq - EPA 8270C										
LCS (1GK0896-BS1)				Prepared: 11/15/23 13:57 Analyzed: 11/21/23 10:24						
4-Chloroaniline	11.9	8	ug/L	41.7		28.5	10-198			
2,6-Dichlorophenol	31.0	8	ug/L	50.0		62.0	52-129			
Hexachloropropene	17.9	8	ug/L	50.0		35.8	14-110			
Hexachlorobutadiene	17.6	8	ug/L	41.7		42.1	14-110			
N-Nitrosodi-n-butylamine	27.5	8	ug/L	50.0		55.1	40-135			
4-Chloro-3-methylphenol	34.0	8	ug/L	41.7		81.5	57-136			
2-Methylnaphthalene	25.4	8	ug/L	41.7		60.8	44-111			
Isosafrole	28.6	8	ug/L	50.0		57.2	49-107			
1,2,4,5-Tetrachlorobenzene	29.3	8	ug/L	50.0		58.7	42-110			
Hexachlorocyclopentadiene	18.3	8	ug/L	41.7		43.8	11-110			
2,4,6-Trichlorophenol	31.2	8	ug/L	41.7		74.8	55-120			
2,4,5-Trichlorophenol	32.4	8	ug/L	41.7		77.8	55-121			
Safrole	34.3	8	ug/L	50.0		68.7	40-118			
2-Chloronaphthalene	34.8	8	ug/L	41.7		83.6	47-127			
2-Nitroaniline	32.8	8	ug/L	41.7		78.6	36-143			
1,4-Naphthoquinone	42.0	8	ug/L	50.0		84.0	43-152			
Dimethylphthalate	33.5	8	ug/L	41.7		80.3	59-128			
1,3-Dinitrobenzene	34.1	8	ug/L	41.7		81.9	63-125			
1,2-Dinitrobenzene	33.7	8	ug/L	41.7		80.9	63-123			
2,6-Dinitrotoluene	33.4	8	ug/L	41.7		80.1	60-127			
Acenaphthylene	28.7	8	ug/L	41.7		68.9	49-113			
3-Nitroaniline	32.4	8	ug/L	41.7		77.7	10-162			
Acenaphthene	28.7	8	ug/L	41.7		68.8	50-119			
2,4-Dinitrophenol	35.2	8	ug/L	41.7		84.4	27-157			
4-Nitrophenol	29.9	8	ug/L	41.7		71.8	49-154			
Dibenzofuran	30.4	8	ug/L	41.7		73.0	56-121			
2,4-Dinitrotoluene	35.6	8	ug/L	41.7		85.5	53-138			
2,3,4,6-Tetrachlorophenol	31.3	8	ug/L	41.7		75.1	47-132			
Pentachlorobenzene	39.1	8	ug/L	50.0		78.1	41-125			
1-Naphthylamine	30.9	8	ug/L	50.0		61.8	10-152			
2-Naphthylamine	<8	8	ug/L	50.0			19-128			QS-03
Diethyl Phthalate	34.3	8	ug/L	41.7		82.4	53-138			
Fluorene	31.1	8	ug/L	41.7		74.6	54-125			
4-Chlorophenyl Phenyl Ether	32.1	8	ug/L	41.7		77.1	51-122			
4-Nitroaniline	33.4	8	ug/L	41.7		80.2	10-136			
5-Nitro-o-toluidine	42.3	8	ug/L	50.0		84.6	10-145			
4,6-Dinitro-2-methylphenol	36.6	8	ug/L	41.7		87.8	49-137			
Diphenylamine	32.0	8	ug/L	41.7		76.8	35-151			
Azobenzene	31.8	8	ug/L	41.7		76.4	16-156			
Diallate	41.4	8	ug/L	50.0		82.7	54-132			
1,3,5-Trinitrobenzene	51.8	8	ug/L	50.0		104	57-173			
Phenacetin	42.6	8	ug/L	50.0		85.2	55-121			

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GK0896 - 3520C BNA Cont Liq - EPA 8270C										
LCS (1GK0896-BS1)				Prepared: 11/15/23 13:57 Analyzed: 11/21/23 10:24						
4-Bromophenyl Phenyl Ether	32.9	8	ug/L	41.7		79.0	53-122			
Pentachlorophenol	24.4	8	ug/L	41.7		58.4	18-152			
Pronamide	42.1	8	ug/L	50.0		84.3	42-122			
Pentachloronitrobenzene (PCNB)	44.8	8	ug/L	50.0		89.7	50-128			
Phenanthrene	32.6	8	ug/L	41.7		78.2	59-131			
Anthracene	32.2	8	ug/L	41.7		77.3	59-127			
Di-n-butyl Phthalate	33.6	8	ug/L	41.7		80.6	64-148			
Fluoranthene	34.4	8	ug/L	41.7		82.5	62-132			
Isodrin	38.6	8	ug/L	50.0		77.2	46-130			
Chlorobenzilate	41.0	8	ug/L	50.0		81.9	48-150			
Pyrene	32.6	8	ug/L	41.7		78.1	58-135			
p-(Dimethylamino)azobenzene	39.4	8	ug/L	50.0		78.8	28-146			
Butyl Benzyl Phthalate	33.3	8	ug/L	41.7		80.0	52-150			
Benzo(a)anthracene	32.8	8	ug/L	41.7		78.6	58-131			
Chrysene	33.0	8	ug/L	41.7		79.2	59-131			
Bis(2-Ethylhexyl) Phthalate	36.9	6	ug/L	41.7		88.6	33-184			
Kepone	26.2	8	ug/L	50.0		52.3	10-134			
2-Acetylaminofluorene	41.1	8	ug/L	50.0		82.2	47-166			
Di-n-octyl Phthalate	34.7	8	ug/L	41.7		83.4	48-162			
Benzo(b)Fluoranthene	36.9	8	ug/L	41.7		88.5	50-146			
7,12-Dimethylbenz [a] anthracene	43.7	8	ug/L	50.0		87.5	22-155			
Benzo(k)Fluoranthene	34.0	8	ug/L	41.7		81.7	54-144			
Benzo(a)Pyrene	33.7	8	ug/L	41.7		80.9	39-148			
3-Methylcholanthrene	40.4	8	ug/L	50.0		80.8	34-118			
Dibenzo(a,h)anthracene	30.4	8	ug/L	41.7		73.1	46-153			
Indeno(1,2,3-cd)Pyrene	30.5	8	ug/L	41.7		73.2	48-152			
Benzo(g,h,i)perylene	28.7	8	ug/L	41.7		68.8	47-161			
Surrogate: 2-Fluorophenol	*32.7*		ug/L	*60.6*		*54.0*	*24-136*			
Surrogate: Phenol-d6	*35.4*		ug/L	*61.9*		*57.2*	*15-140*			
Surrogate: Nitrobenzene-d5	*36.5*		ug/L	*62.8*		*58.1*	*38-115*			
Surrogate: 2-Fluorobiphenyl	*42.1*		ug/L	*61.0*		*69.0*	*33-110*			
Surrogate: 2,4,6-Tribromophenol	*59.0*		ug/L	*62.2*		*94.8*	*15-139*			
Surrogate: Terphenyl-dl4	*60.2*		ug/L	*65.1*		*92.5*	*30-142*			
LCS Dup (1GK0896-BSD1)				Prepared: 11/15/23 13:57 Analyzed: 11/21/23 10:49						
N-Nitrosodimethylamine	21.8	8	ug/L	41.7		52.3	36-138	7.57	30	
Methyl Methanesulfonate	24.5	8	ug/L	50.0		49.0	22-114	4.50	23	
N-Nitrosodiethylamine	25.0	8	ug/L	50.0		50.0	52-114	1.08	18	QS-03
N-Nitrosomethylethylamine	27.2	8	ug/L	50.0		54.3	36-120	7.92	22	
Ethyl Methanesulfonate	24.2	8	ug/L	50.0		48.4	46-110	3.81	24	
Phenol	22.5	8	ug/L	41.7		54.1	50-112	0.664	28	
Bis(2-Chloroethyl) Ether	22.2	8	ug/L	41.7		53.4	39-151	0.496	30	
2-Chlorophenol	23.0	8	ug/L	41.7		55.1	56-116	1.90	22	QS-03

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GK0896 - 3520C BNA Cont Liq - EPA 8270C										
LCS Dup (1GK0896-BSD1)				Prepared: 11/15/23 13:57 Analyzed: 11/21/23 10:49						
Benzyl Alcohol	23.8	8	ug/L	41.7		57.1	13-158	6.96	30	
2-Methylphenol (o-Cresol)	23.9	8	ug/L	41.7		57.3	53-131	6.41	25	
Bis[2-Chloroisopropyl]ether	19.8	8	ug/L	41.7		47.5	50-121	12.8	25	QS-03
n-Nitroso-di-n-propylamine	22.2	8	ug/L	41.7		53.4	50-138	10.9	30	
N-Nitrosopyrrolidine	30.4	8	ug/L	50.0		60.8	31-118	2.13	30	
Acetophenone	23.4	8	ug/L	50.0		46.9	45-104	18.6	30	
o-Toluidine	11.9	8	ug/L	50.0		23.7	10-163	73.6	30	QR-02
(3 & 4)-Methylphenol	24.5	8	ug/L	41.7		58.8	30-164	5.20	30	
Hexachloroethane	9.0	8	ug/L	41.7		21.7	10-110	46.2	37	QR-02
Nitrobenzene	22.2	8	ug/L	41.7		53.3	47-134	7.33	28	
N-Nitrosopiperidine	25.9	8	ug/L	50.0		51.8	51-122	8.89	30	
Isophorone	23.7	8	ug/L	41.7		56.8	54-128	11.8	22	
2-Nitrophenol	22.1	8	ug/L	41.7		53.1	54-117	16.5	21	QS-03
2,4-Dimethylphenol	26.3	8	ug/L	41.7		63.2	52-118	6.36	23	
Bis (2-Chloroethoxy) Methane	24.0	8	ug/L	41.7		57.7	13-132	8.37	30	
2,4-Dichlorophenol	25.8	8	ug/L	41.7		61.9	58-114	13.7	20	
Naphthalene	14.8	8	ug/L	41.7		35.6	37-116	39.8	17	QS-03
4-Chloroaniline	<8	8	ug/L	41.7		12.0	10-198	81.1	30	QR-02
2,6-Dichlorophenol	23.0	8	ug/L	50.0		46.0	52-129	29.7	16	QS-03
Hexachloropropene	11.6	8	ug/L	50.0		23.2	14-110	42.6	29	QR-02
Hexachlorobutadiene	<8	8	ug/L	41.7		17.0	14-110	85.1	29	QR-02
N-Nitrosodi-n-butylamine	19.2	8	ug/L	50.0		38.3	40-135	35.8	23	QS-03
4-Chloro-3-methylphenol	30.7	8	ug/L	41.7		73.8	57-136	9.98	18	
2-Methylnaphthalene	13.4	8	ug/L	41.7		32.1	44-111	61.9	20	QS-03
Isosafrole	21.8	8	ug/L	50.0		43.5	49-107	27.2	12	QS-03
1,2,4,5-Tetrachlorobenzene	21.5	8	ug/L	50.0		42.9	42-110	31.0	30	QR-02
Hexachlorocyclopentadiene	<8	8	ug/L	41.7		16.8	11-110	89.2	29	QR-02
2,4,6-Trichlorophenol	22.7	8	ug/L	41.7		54.6	55-120	31.3	15	QS-03
2,4,5-Trichlorophenol	25.2	8	ug/L	41.7		60.4	55-121	25.2	16	QR-02
Safrole	24.3	8	ug/L	50.0		48.6	40-118	34.2	30	QR-02
2-Chloronaphthalene	17.0	8	ug/L	41.7		40.8	47-127	68.8	17	QS-03
2-Nitroaniline	30.2	8	ug/L	41.7		72.4	36-143	8.23	30	
1,4-Naphthoquinone	31.0	8	ug/L	50.0		62.0	43-152	30.2	30	QR-02
Dimethylphthalate	27.8	8	ug/L	41.7		66.7	59-128	18.5	15	QR-02
1,3-Dinitrobenzene	28.4	8	ug/L	41.7		68.2	63-125	18.3	14	QR-02
1,2-Dinitrobenzene	27.9	8	ug/L	41.7		67.0	63-123	18.7	18	QR-02
2,6-Dinitrotoluene	24.5	8	ug/L	41.7		58.9	60-127	30.6	13	QS-03
Acenaphthylene	14.8	8	ug/L	41.7		35.6	49-113	63.7	23	QS-03
3-Nitroaniline	<8	8	ug/L	41.7		11.8	10-162	147	30	QR-02
Acenaphthene	14.1	8	ug/L	41.7		33.7	50-119	68.4	16	QS-03
2,4-Dinitrophenol	27.7	8	ug/L	41.7		66.4	27-157	23.9	23	QR-02
4-Nitrophenol	26.7	8	ug/L	41.7		64.2	49-154	11.2	28	

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GK0896 - 3520C BNA Cont Liq - EPA 8270C										
LCS Dup (1GK0896-BSD1)				Prepared: 11/15/23 13:57 Analyzed: 11/21/23 10:49						
Dibenzofuran	14.6	8	ug/L	41.7		35.0	56-121	70.5	18	QS-03
2,4-Dinitrotoluene	25.1	8	ug/L	41.7		60.1	53-138	34.9	18	QR-02
2,3,4,6-Tetrachlorophenol	18.2	8	ug/L	41.7		43.6	47-132	53.1	29	QS-03
Pentachlorobenzene	27.5	8	ug/L	50.0		55.0	41-125	34.8	22	QR-02
2-Naphthylamine	<8	8	ug/L	50.0			19-128		30	QS-03
Diethyl Phthalate	24.1	8	ug/L	41.7		57.8	53-138	35.1	18	QR-02
Fluorene	14.6	8	ug/L	41.7		35.1	54-125	72.2	14	QS-03
4-Chlorophenyl Phenyl Ether	13.9	8	ug/L	41.7		33.3	51-122	79.4	15	QS-03
4-Nitroaniline	18.1	8	ug/L	41.7		43.5	10-136	59.3	30	QR-02
5-Nitro-o-toluidine	10.7	8	ug/L	50.0		21.4	10-145	119	30	QR-02
4,6-Dinitro-2-methylphenol	21.2	8	ug/L	41.7		50.8	49-137	53.5	16	QR-02
Diphenylamine	17.1	8	ug/L	41.7		41.0	35-151	60.8	30	QR-02
Azobenzene	15.2	8	ug/L	41.7		36.4	16-156	70.9	30	QR-02
Diallate	29.8	8	ug/L	50.0		59.6	54-132	32.5	25	QR-02
1,3,5-Trinitrobenzene	36.3	8	ug/L	50.0		72.5	57-173	35.4	30	QR-02
Phenacetin	36.5	8	ug/L	50.0		73.1	55-121	15.4	30	
4-Bromophenyl Phenyl Ether	14.0	8	ug/L	41.7		33.5	53-122	80.8	16	QS-03
Pentachlorophenol	11.8	8	ug/L	41.7		28.4	18-152	69.2	30	QR-02
Pronamide	30.2	8	ug/L	50.0		60.5	42-122	32.8	30	QR-02
Pentachloronitrobenzene (PCNB)	30.4	8	ug/L	50.0		60.8	50-128	38.4	18	QR-02
Phenanthrene	14.2	8	ug/L	41.7		34.1	59-131	78.5	16	QS-03
Anthracene	13.5	8	ug/L	41.7		32.4	59-127	81.7	16	QS-03
Di-n-butyl Phthalate	14.5	8	ug/L	41.7		34.7	64-148	79.6	30	QS-03
Fluoranthene	13.9	8	ug/L	41.7		33.4	62-132	84.8	16	QS-03
Isodrin	28.2	8	ug/L	50.0		56.5	46-130	31.0	29	QR-02
Chlorobenzilate	29.9	8	ug/L	50.0		59.7	48-150	31.3	30	QR-02
Pyrene	13.5	8	ug/L	41.7		32.4	58-135	82.9	18	QS-03
p-(Dimethylamino)azobenzene	22.1	8	ug/L	50.0		44.1	28-146	56.4	30	QR-02
Butyl Benzyl Phthalate	13.6	8	ug/L	41.7		32.6	52-150	84.2	30	QS-03
Benzo(a)anthracene	13.1	8	ug/L	41.7		31.5	58-131	85.7	30	QS-03
Chrysene	13.2	8	ug/L	41.7		31.7	59-131	85.8	30	QS-03
Bis(2-Ethylhexyl) Phthalate	14.2	6	ug/L	41.7		34.0	33-184	89.0	30	QR-02
Kepone	20.6	8	ug/L	50.0		41.1	10-134	24.1	30	
2-Acetylaminofluorene	27.7	8	ug/L	50.0		55.5	47-166	38.8	30	QR-02
Di-n-octyl Phthalate	13.6	8	ug/L	41.7		32.7	48-162	87.2	30	QS-03
Benzo(b)Fluoranthene	15.3	8	ug/L	41.7		36.7	50-146	82.7	30	QS-03
7,12-Dimethylbenz [a] anthracene	30.1	8	ug/L	50.0		60.2	22-155	36.9	30	QR-02
Benzo(k)Fluoranthene	13.7	8	ug/L	41.7		33.0	54-144	84.9	30	QS-03
Benzo(a)Pyrene	13.0	8	ug/L	41.7		31.2	39-148	88.6	30	QS-03
3-Methylcholanthrene	26.6	8	ug/L	50.0		53.1	34-118	41.4	30	QR-02
Dibenzo(a,h)anthracene	11.7	8	ug/L	41.7		28.1	46-153	89.0	30	QS-03
Indeno(1,2,3-cd)Pyrene	11.7	8	ug/L	41.7		28.1	48-152	89.1	30	QS-03

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GK0896 - 3520C BNA Cont Liq - EPA 8270C										
LCS Dup (1GK0896-BSD1)				Prepared: 11/15/23 13:57 Analyzed: 11/21/23 10:49						
Benzo(g,h,i)perylene	11.3	8	ug/L	41.7		27.1	47-161	87.1	30	QS-03
Surrogate: 2-Fluorophenol	*33.8*		ug/L	*60.6*		*55.7*	*24-136*			
Surrogate: Phenol-d6	*34.9*		ug/L	*61.9*		*56.3*	*15-140*			
Surrogate: Nitrobenzene-d5	*34.7*		ug/L	*62.8*		*55.1*	*38-115*			
Surrogate: 2-Fluorobiphenyl	*31.7*		ug/L	*61.0*		*52.0*	*33-110*			
Surrogate: 2,4,6-Tribromophenol	*44.4*		ug/L	*62.2*		*71.3*	*15-139*			
Surrogate: Terphenyl-dl4	*42.5*		ug/L	*65.1*		*65.2*	*30-142*			

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1150 - Wet Chem Preparation - SM 4500 H+ B										
Duplicate (1GJ1150-DUP1)	**Source: 1GJ1441-03**		Prepared & Analyzed: 10/18/23 17:00							
pH	8.5	0.5	pH		8.5			0.0824	10	
Reference (1GJ1150-SRM1)			Prepared & Analyzed: 10/18/23 17:00							
pH	7.0	0.5	pH	7.00		101	90-110			
Reference (1GJ1150-SRM2)			Prepared & Analyzed: 10/18/23 17:00							
pH	7.0	0.5	pH	7.00		101	90-110			
Reference (1GJ1150-SRM3)			Prepared & Analyzed: 10/18/23 17:00							
pH	1.7	0.5	pH	1.68		102	90-110			
Batch 1GJ1190 - General Prep HPLC/IC - TIMBERLINE										
Blank (1GJ1190-BLK1)			Prepared: 10/19/23 11:49 Analyzed: 10/19/23 14:39							
Nitrogen, Ammonia	<0.10	0.10	mg/L							
LCS (1GJ1190-BS1)			Prepared: 10/19/23 11:49 Analyzed: 10/19/23 14:41							
Nitrogen, Ammonia	4.84	0.10	mg/L	5.00		96.9	90-114			
Matrix Spike (1GJ1190-MS1)	**Source: 1GJ1441-02**		Prepared: 10/19/23 11:49 Analyzed: 10/19/23 14:42							
Nitrogen, Ammonia	5.11	0.10	mg/L	5.00	ND	102	84-115			
Matrix Spike Dup (1GJ1190-MSD1)	**Source: 1GJ1441-02**		Prepared: 10/19/23 11:49 Analyzed: 10/19/23 14:44							
Nitrogen, Ammonia	5.29	0.10	mg/L	5.00	ND	106	84-115	3.43	20	
Batch 1GJ1258 - Wet Chem Preparation - EPA 376.2										
Blank (1GJ1258-BLK1)			Prepared: 10/20/23 09:47 Analyzed: 10/20/23 13:40							
Sulfide, total	<0.10	0.10	mg/L							
LCS (1GJ1258-BS1)			Prepared: 10/20/23 09:47 Analyzed: 10/20/23 13:40							
Sulfide, total	0.158	0.10	mg/L	0.19		81.7	59-110			
LCS (1GJ1258-BS2)			Prepared: 10/20/23 09:47 Analyzed: 10/20/23 13:40							

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1258 - Wet Chem Preparation - EPA 376.2										
LCS (1GJ1258-BS2)				Prepared: 10/20/23 09:47 Analyzed: 10/20/23 13:40						
Sulfide, total	0.150	0.10	mg/L	0.19		78.0	59-110			
LCS (1GJ1258-BS3)				Prepared: 10/20/23 09:47 Analyzed: 10/20/23 13:40						
Sulfide, total	0.186	0.10	mg/L	0.19		96.6	59-110			
LCS (1GJ1258-BS4)				Prepared: 10/20/23 09:47 Analyzed: 10/20/23 13:40						
Sulfide, total	0.159	0.10	mg/L	0.19		82.6	59-110			
Matrix Spike (1GJ1258-MS1)		**Source: 1GJ1464-03**		Prepared: 10/20/23 09:47 Analyzed: 10/20/23 13:40						
Sulfide, total	0.196	0.10	mg/L	0.19	ND	102	50-150			
Matrix Spike Dup (1GJ1258-MSD1)		**Source: 1GJ1464-03**		Prepared: 10/20/23 09:47 Analyzed: 10/20/23 13:40						
Sulfide, total	0.190	0.10	mg/L	0.19	ND	98.7	50-150	2.89	30	
Batch 1GJ1304 - Wet Chem Preparation - 2320B										
Blank (1GJ1304-BLK1)				Prepared: 10/23/23 09:09 Analyzed: 10/23/23 14:47						
Alkalinity, as CaCO3	<10	10	mg/L							
LCS (1GJ1304-BS1)				Prepared: 10/23/23 09:09 Analyzed: 10/23/23 14:47						
Alkalinity, as CaCO3	219	10	mg/L	235		93.2	88-114			
Matrix Spike (1GJ1304-MS1)		**Source: 1GJ1548-04**		Prepared: 10/23/23 09:09 Analyzed: 10/23/23 14:47						
Alkalinity, as CaCO3	346	10	mg/L	235	146	84.8	74-122			
Matrix Spike Dup (1GJ1304-MSD1)		**Source: 1GJ1548-04**		Prepared: 10/23/23 09:09 Analyzed: 10/23/23 14:47						
Alkalinity, as CaCO3	338	10	mg/L	235	146	81.7	74-122	2.11	10	
Batch 1GJ1314 - General Prep HPLC/IC - TIMBERLINE										
Blank (1GJ1314-BLK1)				Prepared: 10/23/23 10:09 Analyzed: 10/23/23 15:24						
Nitrogen, Ammonia	<0.10	0.10	mg/L							
LCS (1GJ1314-BS1)				Prepared: 10/23/23 10:09 Analyzed: 10/23/23 15:25						
Nitrogen, Ammonia	5.06	0.10	mg/L	5.00		101	90-114			
Matrix Spike (1GJ1314-MS1)		**Source: 1GJ1484-01**		Prepared: 10/23/23 10:09 Analyzed: 10/23/23 15:27						
Nitrogen, Ammonia	6.12	0.10	mg/L	5.00	0.672	109	84-115			
Matrix Spike Dup (1GJ1314-MSD1)		**Source: 1GJ1484-01**		Prepared: 10/23/23 10:09 Analyzed: 10/23/23 15:28						
Nitrogen, Ammonia	5.98	0.10	mg/L	5.00	0.672	106	84-115	2.24	20	
Batch 1GJ1570 - Wet Chem Preparation - EPA 410.4										
Blank (1GJ1570-BLK1)				Prepared: 10/25/23 17:37 Analyzed: 10/30/23 12:15						
COD, total	<54	54	mg/L							
LCS (1GJ1570-BS1)				Prepared: 10/25/23 17:37 Analyzed: 10/30/23 12:15						
COD, total	159	54	mg/L	146		109	90-110			
Matrix Spike (1GJ1570-MS1)		**Source: 1GJ1389-01**		Prepared: 10/25/23 17:37 Analyzed: 10/30/23 12:15						
COD, total	372	108	mg/L	292	67.1	104	90-110			

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1570 - Wet Chem Preparation - EPA 410.4										
Matrix Spike Dup (1GJ1570-MSD1)	**Source: 1GJ1389-01**		Prepared: 10/25/23 17:37 Analyzed: 10/30/23 12:15							
COD, total	388	108	mg/L	292	67.1	110	90-110	4.27	10	
Batch 1GJ1646 - Wet Chem Preparation - EPA 9010B										
Blank (1GJ1646-BLK1)			Prepared: 10/27/23 08:43 Analyzed: 10/27/23 16:57							
Cyanide, total	<0.005	0.005	mg/L							
LCS (1GJ1646-BS1)			Prepared: 10/27/23 08:43 Analyzed: 10/27/23 16:57							
Cyanide, total	0.0247	0.005	mg/L	0.0300		82.3	66-136			
Matrix Spike (1GJ1646-MS1)	**Source: 1GJ1446-10**		Prepared: 10/27/23 08:43 Analyzed: 10/27/23 16:57							
Cyanide, total	0.0266	0.005	mg/L	0.0300	ND	88.6	59-153			
Matrix Spike Dup (1GJ1646-MSD1)	**Source: 1GJ1446-10**		Prepared: 10/27/23 08:43 Analyzed: 10/27/23 16:57							
Cyanide, total	0.0232	0.005	mg/L	0.0300	ND	77.2	59-153	13.7	30	
Batch 1GK0001 - Wet Chem Preparation - EPA 410.4										
Blank (1GK0001-BLK1)			Prepared: 11/01/23 07:13 Analyzed: 11/01/23 15:35							
COD, total	<20	20	mg/L							
LCS (1GK0001-BS1)			Prepared: 11/01/23 07:13 Analyzed: 11/01/23 15:35							
COD, total	159	20	mg/L	146		109	90-110			
Matrix Spike (1GK0001-MS1)	**Source: 1GJ1446-01RE1**		Prepared: 11/01/23 07:13 Analyzed: 11/01/23 15:35							
COD, total	322	40	mg/L	292	ND	110	90-110			
Matrix Spike Dup (1GK0001-MSD1)	**Source: 1GJ1446-01RE1**		Prepared: 11/01/23 07:13 Analyzed: 11/01/23 15:35							
COD, total	324	40	mg/L	292	ND	111	90-110	0.611	10	QM-07

Determination of Inorganic Anions	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1531 - General Prep HPLC/IC - 300.0										
Blank (1GJ1531-BLK1)			Prepared: 10/24/23 00:00 Analyzed: 10/24/23 10:19							
Chloride	<1.0	1.0	mg/L							
Blank (1GJ1531-BLK2)			Prepared: 10/24/23 00:00 Analyzed: 10/24/23 15:09							
Chloride	<1.0	1.0	mg/L							
LCS (1GJ1531-BS1)			Prepared: 10/24/23 00:00 Analyzed: 10/24/23 10:55							
Chloride	14.49	1.0	mg/L	15.2		95.4	90-110			
LCS Dup (1GJ1531-BSD1)			Prepared: 10/24/23 00:00 Analyzed: 10/24/23 11:13							
Chloride	14.50	1.0	mg/L	15.2		95.5	90-110	0.0966	10	
Matrix Spike (1GJ1531-MS1)	**Source: 1GJ1238-01**		Prepared: 10/24/23 00:00 Analyzed: 10/24/23 12:26							
Chloride	436.4	10.0	mg/L	152	280.1	103	80-120			
Matrix Spike Dup (1GJ1531-MSD1)	**Source: 1GJ1238-01**		Prepared: 10/24/23 00:00 Analyzed: 10/24/23 12:44							
Chloride	438.2	10.0	mg/L	152	280.1	104	80-120	0.416	10	

Determination of Inorganic Anions	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1619 - General Prep HPLC/IC - 300.0										
Blank (1GJ1619-BLK1)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 14:23							
Chloride	<1.0	1.0	mg/L							
LCS (1GJ1619-BS1)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 14:59							
Chloride	14.57	1.0	mg/L	15.2		96.0	90-110			
LCS Dup (1GJ1619-BSD1)			Prepared: 10/25/23 00:00 Analyzed: 10/25/23 15:18							
Chloride	14.49	1.0	mg/L	15.2		95.5	90-110	0.564	10	
Matrix Spike (1GJ1619-MS1)	**Source: 1GJ1501-01**		Prepared: 10/25/23 00:00 Analyzed: 10/25/23 17:43							
Chloride	274.6	10.0	mg/L	152	114.7	105	80-120			
Matrix Spike Dup (1GJ1619-MSD1)	**Source: 1GJ1501-01**		Prepared: 10/25/23 00:00 Analyzed: 10/25/23 18:01							
Chloride	273.7	10.0	mg/L	152	114.7	105	80-120	0.354	10	
Batch 1GJ1669 - General Prep HPLC/IC - 300.0										
Blank (1GJ1669-BLK1)			Prepared & Analyzed: 10/26/23 11:34							
Chloride	<1.0	1.0	mg/L							
Blank (1GJ1669-BLK2)			Prepared & Analyzed: 10/26/23 15:12							
Chloride	<1.0	1.0	mg/L							
LCS (1GJ1669-BS1)			Prepared & Analyzed: 10/26/23 10:58							
Chloride	14.51	1.0	mg/L	15.2		95.6	90-110			
LCS Dup (1GJ1669-BSD1)			Prepared & Analyzed: 10/26/23 11:16							
Chloride	14.57	1.0	mg/L	15.2		96.0	90-110	0.365	10	
Matrix Spike (1GJ1669-MS1)	**Source: 1GJ1804-01**		Prepared & Analyzed: 10/26/23 18:13							
Chloride	424.0	10.0	mg/L	152	273.1	99.4	80-120			
Matrix Spike Dup (1GJ1669-MSD1)	**Source: 1GJ1804-01**		Prepared & Analyzed: 10/26/23 18:32							
Chloride	425.4	10.0	mg/L	152	273.1	100	80-120	0.311	10	

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1132 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1GJ1132-BLK1)			Prepared: 10/18/23 15:21 Analyzed: 10/19/23 20:40							
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							

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1132 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1GJ1132-BLK1)				Prepared: 10/18/23 15:21 Analyzed: 10/19/23 20:40						
Silver, total	<0.0040	0.0040	mg/L							
Thallium, total	<0.0020	0.0020	mg/L							
Tin, total	<0.0200	0.0200	mg/L							
Vanadium, total	<0.0200	0.0200	mg/L							
Zinc, total	<0.0200	0.0200	mg/L							
LCS (1GJ1132-BS1)				Prepared: 10/18/23 15:21 Analyzed: 10/19/23 20:46						
Antimony, total	0.0961	0.0020	mg/L	0.100		96.1	80-120			
Arsenic, total	0.0947	0.0040	mg/L	0.100		94.7	80-120			
Barium, total	0.100	0.0040	mg/L	0.100		100	80-120			
Beryllium, total	0.0973	0.0040	mg/L	0.100		97.3	80-120			
Cadmium, total	0.0950	0.0008	mg/L	0.100		95.0	80-120			
Chromium, total	0.0945	0.0080	mg/L	0.100		94.5	80-120			
Cobalt, total	0.0965	0.0004	mg/L	0.100		96.5	80-120			
Copper, total	0.0967	0.0040	mg/L	0.100		96.7	80-120			
Lead, total	0.0949	0.0040	mg/L	0.100		94.9	80-120			
Nickel, total	0.0966	0.0040	mg/L	0.100		96.6	80-120			
Selenium, total	0.0957	0.0040	mg/L	0.100		95.7	80-120			
Silver, total	0.101	0.0040	mg/L	0.100		101	80-120			
Thallium, total	0.0932	0.0020	mg/L	0.100		93.2	80-120			
Tin, total	0.0965	0.0200	mg/L	0.100		96.5	80-120			
Vanadium, total	0.101	0.0200	mg/L	0.100		101	80-120			
Zinc, total	0.0958	0.0200	mg/L	0.100		95.8	80-120			
Matrix Spike (1GJ1132-MS1)		**Source: 1GJ1446-01**		Prepared: 10/18/23 15:21 Analyzed: 10/19/23 20:58						
Antimony, total	0.101	0.0020	mg/L	0.100	ND	101	75-125			
Arsenic, total	0.101	0.0040	mg/L	0.100	0.0019	98.7	75-125			
Barium, total	0.244	0.0040	mg/L	0.100	0.129	115	75-125			
Beryllium, total	0.100	0.0040	mg/L	0.100	ND	100	75-125			
Cadmium, total	0.0957	0.0008	mg/L	0.100	ND	95.7	75-125			
Chromium, total	0.0971	0.0080	mg/L	0.100	0.0006	97.1	75-125			
Cobalt, total	0.0977	0.0004	mg/L	0.100	0.0007	96.9	75-125			
Copper, total	0.0926	0.0040	mg/L	0.100	ND	92.6	75-125			
Lead, total	0.0937	0.0040	mg/L	0.100	ND	93.7	75-125			
Nickel, total	0.0975	0.0040	mg/L	0.100	0.0026	95.0	75-125			
Selenium, total	0.0928	0.0040	mg/L	0.100	ND	92.8	75-125			
Silver, total	0.102	0.0040	mg/L	0.100	ND	102	75-125			
Thallium, total	0.0943	0.0020	mg/L	0.100	0.0002	94.1	75-125			
Tin, total	0.103	0.0200	mg/L	0.100	ND	103	75-125			
Vanadium, total	0.106	0.0200	mg/L	0.100	ND	106	75-125			
Zinc, total	0.100	0.0200	mg/L	0.100	ND	100	75-125			
Matrix Spike Dup (1GJ1132-MSD1)		**Source: 1GJ1446-01**		Prepared: 10/18/23 15:21 Analyzed: 10/19/23 21:04						
Antimony, total	0.0999	0.0020	mg/L	0.100	ND	99.9	75-125	1.55	20	
Arsenic, total	0.102	0.0040	mg/L	0.100	0.0019	100	75-125	1.28	20	
Barium, total	0.238	0.0040	mg/L	0.100	0.129	109	75-125	2.48	20	

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1GJ1132 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike Dup (1GJ1132-MSD1)		**Source: 1GJ1446-01**		Prepared: 10/18/23 15:21 Analyzed: 10/19/23 21:04						
Beryllium, total	0.0999	0.0040	mg/L	0.100	ND	99.9	75-125	0.553	20	
Cadmium, total	0.0954	0.0008	mg/L	0.100	ND	95.4	75-125	0.329	20	
Chromium, total	0.0950	0.0080	mg/L	0.100	0.0006	95.0	75-125	2.09	20	
Cobalt, total	0.0987	0.0004	mg/L	0.100	0.0007	98.0	75-125	1.07	20	
Copper, total	0.0924	0.0040	mg/L	0.100	ND	92.4	75-125	0.136	20	
Lead, total	0.0918	0.0040	mg/L	0.100	ND	91.8	75-125	2.08	20	
Nickel, total	0.0979	0.0040	mg/L	0.100	0.0026	95.3	75-125	0.382	20	
Selenium, total	0.0978	0.0040	mg/L	0.100	ND	97.8	75-125	5.24	20	
Silver, total	0.100	0.0040	mg/L	0.100	ND	100	75-125	1.94	20	
Thallium, total	0.0916	0.0020	mg/L	0.100	0.0002	91.4	75-125	2.85	20	
Tin, total	0.102	0.0200	mg/L	0.100	ND	102	75-125	1.42	20	
Vanadium, total	0.104	0.0200	mg/L	0.100	ND	104	75-125	2.43	20	
Zinc, total	0.0998	0.0200	mg/L	0.100	ND	99.8	75-125	0.454	20	
Post Spike (1GJ1132-PS1)		**Source: 1GJ1446-01**		Prepared: 10/18/23 15:21 Analyzed: 10/19/23 21:22						
Antimony, total	0.0839		mg/L	0.0800	0.0001	105	80-120			
Arsenic, total	0.0828		mg/L	0.0800	0.0019	101	80-120			
Barium, total	0.214		mg/L	0.0800	0.127	108	80-120			
Beryllium, total	0.0834		mg/L	0.0800	0.00003	104	80-120			
Cadmium, total	0.0791		mg/L	0.0800	0.00008	98.8	80-120			
Chromium, total	0.0785		mg/L	0.0800	0.0006	97.4	80-120			
Cobalt, total	0.0829		mg/L	0.0800	0.0007	103	80-120			
Copper, total	0.0773		mg/L	0.0800	0.0008	95.6	80-120			
Lead, total	0.0760		mg/L	0.0800	0.0003	94.7	80-120			
Nickel, total	0.0827		mg/L	0.0800	0.0025	100	80-120			
Selenium, total	0.0775		mg/L	0.0800	0.0002	96.6	80-120			
Silver, total	0.0823		mg/L	0.0800	0.0017	101	80-120			
Thallium, total	0.0759		mg/L	0.0800	0.0002	94.7	80-120			
Tin, total	0.0835		mg/L	0.0800	0.0003	104	75-125			
Vanadium, total	0.0887		mg/L	0.0800	0.0076	101	80-120			
Zinc, total	0.0824		mg/L	0.0800	0.0084	92.5	80-120			
Batch 1GJ1226 - EPA 7470A Hg Water - EPA 7470A										
Blank (1GJ1226-BLK1)				Prepared: 10/19/23 15:49 Analyzed: 10/20/23 16:07						
Mercury, total	<0.00050	0.00050	mg/L							
LCS (1GJ1226-BS1)				Prepared: 10/19/23 15:49 Analyzed: 10/20/23 16:09						
Mercury, total	0.00253	0.00050	mg/L	0.00250		101	80-120			
Matrix Spike (1GJ1226-MS1)		**Source: 1GJ1415-01**		Prepared: 10/19/23 15:49 Analyzed: 10/20/23 16:13						
Mercury, total	0.00252	0.00050	mg/L	0.00250	ND	101	75-125			
Matrix Spike Dup (1GJ1226-MSD1)		**Source: 1GJ1415-01**		Prepared: 10/19/23 15:49 Analyzed: 10/20/23 16:15						
Mercury, total	0.00238	0.00050	mg/L	0.00250	ND	95.4	75-125	5.37	20	

Keystone Laboratories - Newton

CERTIFICATE OF ANALYSIS

1GJ1446

Definitions

I-03:	Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
O-05:	This sample was extracted outside of the EPA recommended holding time.
O-07:	The original analysis of this sample yielded QC recoveries outside acceptance criteria. It was re-analyzed after the recommended maximum hold time.
O-10:	This sample was analyzed outside the EPA recommended holding time due to instrument malfunction.
QM-05:	The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07:	The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-20:	The spike recovery for this QC sample is outside of established control limits due to instrument malfunction. QC batch accepted based on ending CCV, MS/MSD and/or LCS QC results.
QM-21:	The recovery for the blank spike was outside the established laboratory control limits. The batch was accepted based upon the acceptable recovery of the CCV.
QR-02:	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-04:	The Duplicate RPD for this analyte exceeded acceptance limits.
QS-03:	The blank spike recovery was below established acceptance limits.
RL:	Reporting Limit
RPD:	Relative Percent Difference
S-07:	The surrogate recovery for this sample is outside of established control limits.
S-GC:	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Cooler Receipt Log

Cooler ID:	N1-13054	Temp:	0.0ºC	**Cooler ID:**	N2-12052	Temp:	0.0ºC

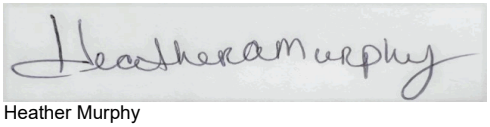
Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	No	Preservation Confirmed	No
Received On Ice	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. ***The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.***

Reviewed and Approved By:



Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
11/22/23 08:15

Keystone LABORATORIES
A Microbac Company

600 East 17th Street S
Newton, IA 50208
641-792-8451

1GJ1446

HLW Engineering
PM: Heather Murphy

Printed: 9/11/2023 1:45:07PM
www.keystonelabs.co

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

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 1GJ1446
Temperature 0.0/0.0
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
01-001	MW-12	Water	GRAB	10/16/23	10:55	9	cl-300.0 lndfill-appl-voc-group nh3-timberline cod-t-410.4 lndfil-appl-metals-6020	01
02-001	MW-2[illegible] DRY	Water	GRAB	10/16/23	~~[illegible]~~	~~[illegible]~~ 0	cl-300.0 lndfill-appl-voc-group nh3-timberline cod-t-410.4 lndfil-appl-metals-6020	—
03-001	MW-17	Water	GRAB	10/16/23	10:13	9	cl-300.0 lndfill-appl-voc-group nh3-timberline cod-t-410.4 lndfil-appl-metals-6020	02
04-001	MW-5	Water	GRAB	10/16/23	11:59	14	alk-caco3-3320 cod-t-410.4 lndfil-appl-metals-6020 nh3-timberline sulf-t-376.2-regen cl-300.0 lndfill-appl-voc-group methane-astm-d1946 ph-4500	03

Todd Whipple 10/17/23
Relinquished By Date/Time

Received By Date/Time

Relinquished By Date/Time

Laura Cook 10-17-23 1100
Received for Lab By Date/Time

Remarks:

Original - Lab Copy Yellow - Sampler Copy

Keystone LABORATORIES
A Microbac Company

600 East 17th Street So
Newton, IA 50208
641-792-8451

1GJ1446

HLW Engineering
PM: Heather Murphy

Printed: 9/11/2023 1:45:07PM

www.keystonelabs.co

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

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 1GJ1446

Temperature 0.0/0.0

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
05-001	MW-7	Water	GRAB	10/16/23	13:26	9	cl-300.0 lndfill-app1-voc-group nh3-timberline cod-t-410.4 lndfil-app1-metals-6020	04
06-001	MW-9	Water	GRAB	10/16/23	15:12	9	cl-300.0 lndfill-app1-voc-group nh3-timberline cod-t-410.4 lndfil-app1-metals-6020	05
07-001	MW-16	Water	GRAB	10/16/23	8:26	9	cl-300.0 lndfill-app1-voc-group nh3-timberline cod-t-410.4 lndfil-app1-metals-6020	06
08-001	MW-24 DRY	Water	GRAB	10/16/23	—	~~9~~ 0	cl-300.0 lndfill-app1-voc-group nh3-timberline cod-t-410.4 lndfil-app1-metals-6020	—
09-001	MW-25	Water	GRAB	10/16/23	12:50	10	8270-110 cod-t-410.4 lndfil-app1-metals-6020 cl-300.0 lndfill-app1-voc-group nh3-timberline	07

Todd Whipple 10/16/23
Relinquished By Date/Time

Received By Date/Time

Relinquished By Date/Time

Lacy Wood 10-17-23 1100
Received for Lab By Date/Time

Remarks:

Original - Lab Copy Yellow - Sampler Copy

Keystone LABORATORIES
A Microbac Company

600 East 17th Street Sout
Newton, IA 50208
641-792-8451

1 G J 1 4 4 6

HLW Engineering
PM: Heather Murphy

inted: 9/11/2023 1:45:07PM

www.keystonelabs.co

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

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 1GJ1446

Temperature 0.0 / 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
10-001	MW-26	Water	GRAB	10/16/23	8:57	10	8270-110 cod-t-410.4 lndfil-app1-metals-6020	cl-300.0 lndfill-app1-voc-group nh3-timberline	08
11-001	MW-32	Water	GRAB	10/16/23	14:00	9	cl-300.0 lndfill-app1-voc-group nh3-timberline	cod-t-410.4 lndfil-app1-metals-6020	09
12-001	MW-33	Water	GRAB	10/16/23	14:27	15*	cl-300.0 lndfil-app2-inorg-6020 nh3-timberline	cod-t-410.4 lndfil-app2-org	10
13-001	ACM Tile 1	Water	GRAB	10/16/23	9:30	7	as-t-6020	lndfill-app1-voc-group	11
14-001	PECS-1	Water	GRAB	10/16/23	9:24	6	lndfill-app1-voc-group		12
15-001	MW-11	Water	GRAB	10/16/23	11:10	7	lndfill-app1-voc-group	lndfil-app1-metals-6020	13

Relinquished By Todd Whipple Date/Time 10/17/23

Received By Date/Time

Relinquished By Date/Time

Received for Lab By Lacy Wood 10-17-23 1100 Date/Time

Remarks: * Well went dry - missing 4 amber glass quart jars.

Original - Lab Copy Yellow - Sampler Copy

Keystone LABORATORIES
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600 East 17th Street So
Newton, IA 50208
641-792-8451

1GJ1446

HLW Engineering
PM: Heather Murphy

Printed: 9/11/2023 1:45:07PM
www.keystonelabs.co

SITE INFORMATION

Sampler: TODD WHIPPLE

Project: Fayette Co. Landfill-New Regs 6040

SPECIAL INSTRUCTIONS

None

Turn Around Time

☐ Standard ☐ RUSH, need by ___/___/___

REPORT TO

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

INVOICE TO

Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, IA 52142

LAB USE ONLY

Work Order 1GJ1446
Temperature 0.0/0.0
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
16-001	MW-14R	Water	GRAB	10/16/23	11:31	7	lndfill-appl-voc-group	lndfil-appl-metals-6020	14
17-001	MW-18	Water	GRAB	10/16/23	9:53	7	lndfill-appl-voc-group	lndfil-appl-metals-6020	15
18-001	MW-20	Water	GRAB	10/16/23	10:27	7	lndfill-appl-voc-group	lndfil-appl-metals-6020	16
19-001	MW-6	Water	GRAB	10/16/23	8:41	7	lndfill-appl-voc-group	lndfil-appl-metals-6020	17
20-001	MW-8	Water	GRAB	10/16/23	13:16	7	lndfill-appl-voc-group	lndfil-appl-metals-6020	18
21-001	MW-10	Water	GRAB	10/16/23	15:05	7	lndfill-appl-voc-group	lndfil-appl-metals-6020	19
22-001	Duplicate	Water	GRAB	10/16/23	✓	1	~~lndfill-appl-voc-group~~	lndfil-appl-metals-6020	20

Relinquished By: Todd Whipple Date/Time: 10/17/23

Received By Date/Time

Relinquished By Date/Time

Received for Lab By: Lori Wood Date/Time: 10-17-23 1100

Remarks:

Original - Lab Copy Yellow - Sampler Copy

Midwest Laboratories
13611 B Street
Omaha, NE 68144
P 402-334-7770
F 402-334-9121
www.midwestlabs.com

26 October 2023

Work Order: 1601377

KEYSTONE LABORATORIES INC - 7367
600 E 17TH ST S #B
NEWTON, IA 50208-

RE: Dissolved Gases in Water

Enclosed are the results of analyses for samples received by the laboratory on 2023-10-24 11:54. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Ramig
Project Manager
hramig@midwestlabs.com

Midwest Laboratories
13611 B Street
Omaha, NE 68144
P 402-334-7770
F 402-334-9121
www.midwestlabs.com

KEYSTONE LABORATORIES INC - 7367
600 E 17TH ST S #B
NEWTON, IA 50208-

Project: Dissolved Gases in Water

Project Manager: KEYSTONE LABORATORIES INC - 7367

Reported:
2023-10-26 08:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1GJ1446-03	1601377-01	Aqueous	2023-10-16 11:59	2023-10-24 11:54

Containers used for the following analyses:

1601377-01 B: RSK 175

Analysis Results Reviewed by:

RSK 175 reviewed by nmh9.

Midwest Laboratories
13611 B Street
Omaha, NE 68144
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KEYSTONE LABORATORIES INC - 7367
600 E 17TH ST S #B
NEWTON, IA 50208-

Project: Dissolved Gases in Water

Project Manager: KEYSTONE LABORATORIES INC - 7367

Reported:
2023-10-26 08:43

Sample ID: 1GJ1446-03
Laboratory ID: 1601377-01
Sampled Date/Time: 2023-10-16 11:59

Analyte	Result	Reporting Limit	Units	Method	Prepared	Analyzed	Analyst	(Container) / Notes
Headspace Analysis								
Methane	1250	4.41	ppb	RSK 175	2023-10-25	2023-10-25	alt8	(B)/ OOS, Samp
Ethylene	<	7.73	ppb	RSK 175	2023-10-25	2023-10-25	alt8	(B)/ OOS, Samp
Ethane	<	8.28	ppb	RSK 175	2023-10-25	2023-10-25	alt8	(B)/ OOS, Samp

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KEYSTONE LABORATORIES INC - 7367
600 E 17TH ST S #B
NEWTON, IA 50208-

Project: Dissolved Gases in Water

Project Manager: KEYSTONE LABORATORIES INC - 7367

Reported:
2023-10-26 08:43

Headspace Analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B937135										
Blank (B937135-BLK1)				Prepared & Analyzed: 2023-10-25						
Methane	<	4.41	ppb							
Ethylene	<	7.73	ppb							
Ethane	<	8.28	ppb							
LCS (B937135-BS1)				Prepared & Analyzed: 2023-10-25						
Methane	24.0	4.41	ppb	22.0		109	85-115			
Ethylene	41.1	7.73	ppb	38.7		106	85-115			
Ethane	43.4	8.28	ppb	41.3		105	85-115			
Duplicate (B937135-DUP1)		**Source: 1601376-01**		Prepared & Analyzed: 2023-10-25						
Methane	4.77	4.41	ppb		5.00			5	20	
Ethylene	<	7.73	ppb		<				20	
Ethane	<	8.28	ppb		<				20	

Work Order: 1601377

Midwest Laboratories
13611 B Street
Omaha, NE 68144
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KEYSTONE LABORATORIES INC - 7367
600 E 17TH ST S #B
NEWTON, IA 50208-

Project: Dissolved Gases in Water

Project Manager: KEYSTONE LABORATORIES INC - 7367

Reported:
2023-10-26 08:43

Non-Certified Analyses included in this Report

Method	Analyte
RSK 175 in Aqueous	Methane
	Ethylene
	Ethane

Code	Description	Number	Expires
FL	Florida Department of Health	E87918	06/30/2024
IA	Iowa Department of Natural Resources	064	05/01/2025
KS	Kansas Department of Health and Environment	E-10402	04/30/2024
NE	State of Nebraska Dept of Health & Human Services	NE-04-05	06/30/2024
OK	Oklahoma Department of Environmental Quality	2022-068	08/31/2023
TX	Texas Commission on Environmental Quality	T104704416-23-17	07/31/2024
UT	State of Utah Department of Health	NE000012023-13	07/31/2024
WA	State of Washington Department of Ecology	C912	06/07/2024

Midwest Laboratories
13611 B Street
Omaha, NE 68144
P 402-334-7770
F 402-334-9121
www.midwestlabs.com

KEYSTONE LABORATORIES INC - 7367
600 E 17TH ST S #B
NEWTON, IA 50208-

Project: Dissolved Gases in Water

Project Manager: KEYSTONE LABORATORIES INC - 7367

Reported:
2023-10-26 08:43

Notes and Definitions

Samp	Inappropriate sampling of sample for this analysis, may not suitable for regulatory purposes.
OOS	OOS filed
<	Less than reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

EPA 524.2, EPA 624, EPA 8260, OA-1, TCLP VOC, GRO, and all microbiological analyses are conducted in the facility located at 13606 B Street, Omaha, NE 68144. All other analyses are conducted in the main facility located at 13611 B Street, Omaha, NE 68144.

Keystone Laboratories - Newton

MICROBAC®

SUBCONTRACTED CHAIN OF C

1GJ1446

WORKORDER: **1601377**
COC
Sticker #: 1

SENDING LABORATORY:
Keystone Laboratories - Newton
600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451
Lab Manager: Heather Murphy
Email: heather.murphy@microbac.com

RECEIVING LABORATORY:
Midwest Laboratories, Inc
13611 B St
Omaha, NE 68144-3693
Phone: (402) 334-7770

9.8 BR

Project Info:

Project Type: Landfills
Project Location: IA

Report TAT: **10**
Due: **10/31/23 17:00**

Sample ID: 1GJ1446-03
Matrix: Water

Sampled: 10/16/23 11:59
Description: MW-5

Sampler: Whipple, Todd

Analysis	Method	Analysis Due	Expires
methane-astm-d1946	**ASTM D1946**	**10/30/23 17:00**	**10/30/23 11:59**

Containers Supplied:
L: VH-40 ml Vial Hydrochloric
M: VH-40 ml Vial Hydrochloric
N: VH-40 ml Vial Hydrochloric

Released By	Date	Received By	Date
Amy Hochstetler	10/23/23		
Released By	Date	Received By	Date

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	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	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	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	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	5.0	0.000	24.208	4,000.0
MW5	10/16/2023	2-butanone	<5.0	5.0	0.000	24.208	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	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	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	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	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	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	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	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	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

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

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	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	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	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

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	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	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	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	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	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	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	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

‘***** *- 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	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	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	4/13/17	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

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	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	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

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	4/11/18	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	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

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	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	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	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	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

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

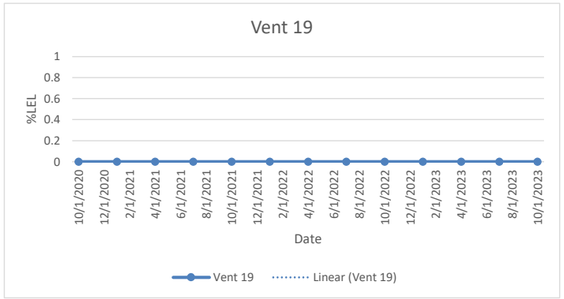
Date	ACM Tile 1				PECS-1	
	Arsenic Concentration (ug/L)	**Arsenic GWPS (ug/L)**	**VOC Concentration (ug/L)**	**VOC GWPS (ug/L)**	**VOC Concentration (ug/L)**	**VOC GWPS (ug/L)**
10/13/2020	**<4**	10	**ND**	<1 to <5	ND	<1 to <5
4/12/2021	<4	10	ND	<1 to <5	ND	<1 to <5
10/6/2021	<4	10	ND	<1 to <5	ND	<1 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

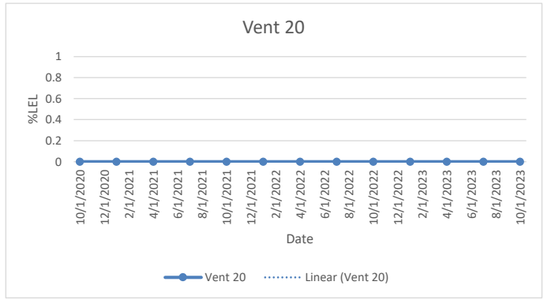
ND *= Non-detected and reported below the applicable method reporting limit (MRL)*

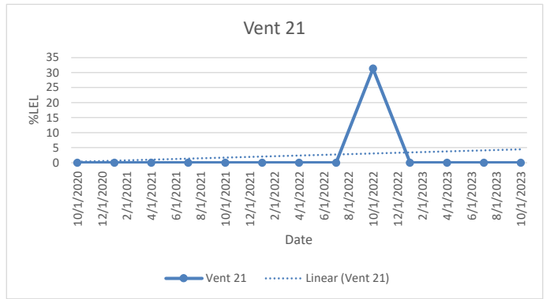
Table 12
CAMP Vent Gas Evaluation
Annual Water Quality Report
Fayette County Sanitary Landfill
Permit No. 33-SDP-02-83C

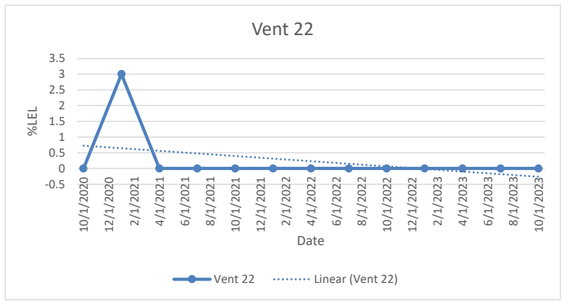
KEY: 101 = a value that exceeds 100% of the LEL

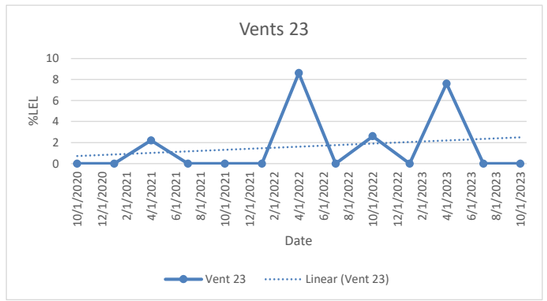
%LEL	west								east
Date	Vent 19	Vent 20	Vent 21	Vent 22	Vent 23	Vent 24	Vent 25	Vent 26	Vent 27
10/15/2020	0	0	0	0	0	25	12	4	0
1/12/2021	0	0	0	3	0	74	45	5	0
4/12/2021	0	0	0	0	2.2	101	101	46	0
7/1/2021	0	0	0	0	0	101	101	39	0
10/6/2021	0	0	0	0	0	101	101	34.5	0
1/18/2022	0	0	0	0	0	101	101	39.8	0
4/15/2022	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

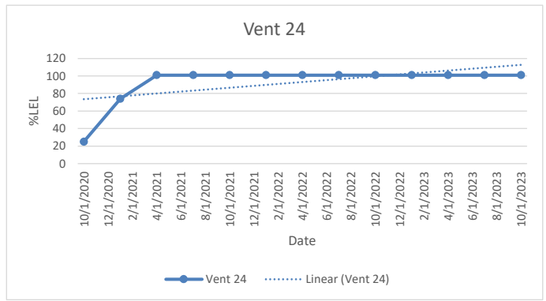


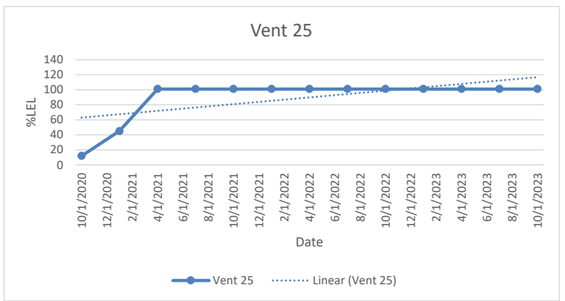


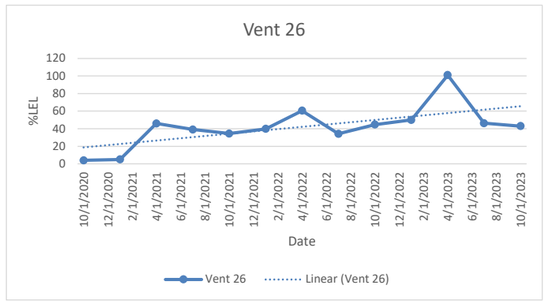












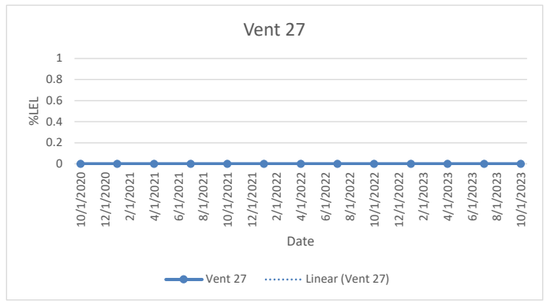
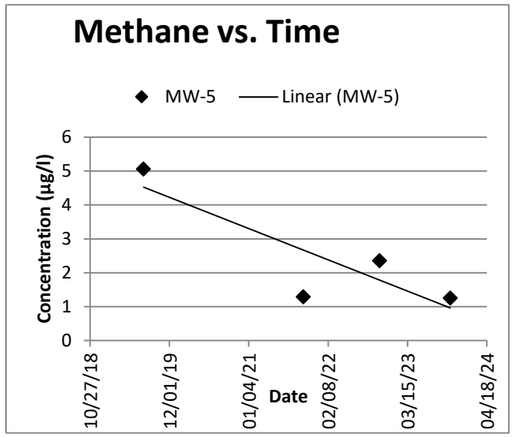


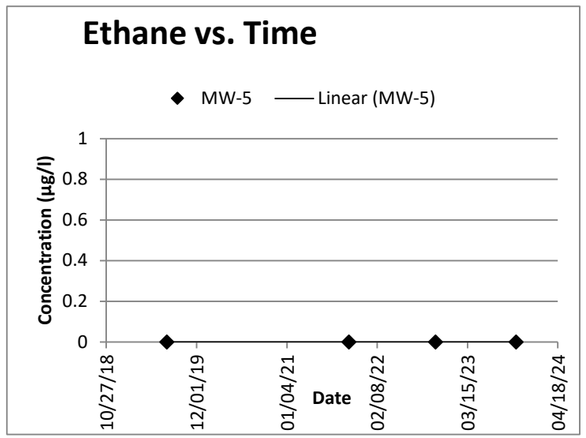
Table 13

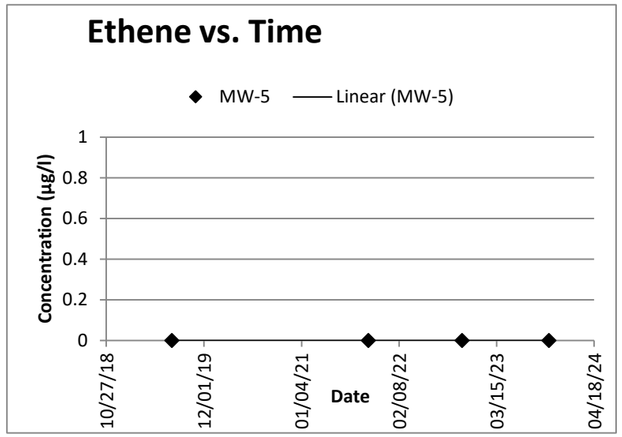
Methane, Ethane, Ethene, Alkalinity, and pH over Time

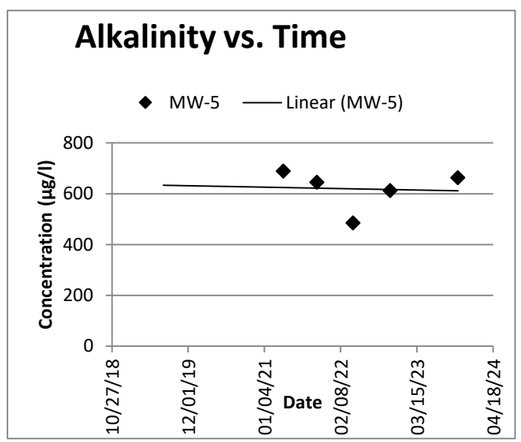
Annual Water Quality Report
Fayette County Sanitary Landfill
Permit No. 33-SDP-02-83C

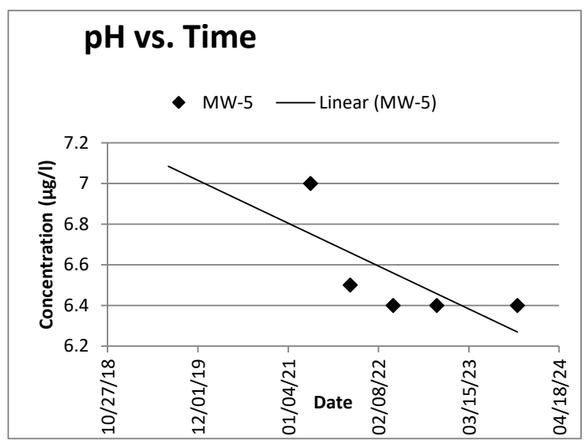
	Methane	Ethane	Ethene	Alkalinity	pH
	MW-5	MW-5	MW-5	MW-5	MW-5
Sample Date	mg/L	mg/L	mg/L	mg/l	ug/L
7/23/2019	5.06	<0.010	<0.010		
4/13/2021				688	7
10/6/2021	1.29	<0.00773	<0.00828	645	6.5
4/14/2022				485	6.4
10/25/2022	2.35	<0.00773	<0.00828	612	6.4
10/16/2023	1.25	<0.00773	<0.00828	663	6.4











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 63,445 gallons of leachate were hauled to the City of Oelwein in 2023 (Appendix H.2). Leachate testing results from 2023 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 2023 showed consistent leachate thicknesses over the course of the year. The North Manhole indicated a leachate thickness of 7.4 feet in January, 2023, but the thickness decreased over the last three quarters of the year ranging from 2.65 to 3.4 feet in thickness.

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 May, 2021. 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 2024 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

April 19, 2023

DYLAN MULFINGER – CITY ADMINISTRATOR
CITY OF OELWEIN
20 2ND AVENUE SW
OELWEIN, IA 50662-2241

RE: NPDES Permit Amendment #3353001

Dear Mr. Mulfinger:

Enclosed is the NPDES permit amendment for the City of Oelwein's wastewater treatment facility. 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.

The facility will be required to use new discharge monitoring report (DMR) forms once a final permit is issued. Electronic DMR forms are available from your regional Field Office. Please contact Michele Smith at 563-927-2640 (Field Office 1) or michele.smith@dnr.iowa.gov for more information.

If you have any questions, please contact me at 515-452-6235 or at ryan.olive@dnr.iowa.gov.

Sincerely,

Ryan Olive
NPDES Section

Enclosures

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.

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.

Facility Name: OELWEIN CITY OF STP
Permit Number: 3353001

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

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

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
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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 9th St	909 West Main Street Suite 4
Des Moines, IA 50310	Manchester, IA 52057-1522

Facility Name: OELWEIN CITY OF STP
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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

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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

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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
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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

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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

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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).

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

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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
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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)}***

STANDARD CONDITIONS

19. BYPASSES - "Bypass" means the diversion of waste streams from any portion of a treatment facility or collection system. A bypass does not include internal operational waste stream diversions that are part of the design of the treatment facility, maintenance diversions where redundancy is provided, diversions of wastewater from one point in a collection system to another point in a collection system, or wastewater backups into buildings that are caused in the building lateral or private sewer line. ***{567 IAC 60.2)}***

(a) Prohibition. Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited, in accordance with 567 IAC 63.6(1). The department may not assess a civil penalty against a permittee for a bypass if the permittee has complied with all of the following:

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
2023

DATE	GALLONS
March	18,782
June	18,885
September	12,871
November	12,907
TOTAL	**63,445**

Appendix H.3 – Leachate Analysis

(63,445 gal 2023) Mailed 18,782 x

1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, Iowa 52142

Generated 3/31/2023 10:55:01 AM

JOB DESCRIPTION

Leachate

JOB NUMBER

310-252019-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information

my EOL

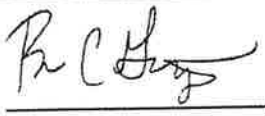
Eurofins Cedar Falls

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Generated
3/31/2023 10:55:01 AM

Authorized for release by
Brian Graettinger, Business Unit Manager
Brian.Graettinger@et.eurofinsus.com
Designee for
Shirley Thompson, Client Service Manager
Shirley.Thompson@et.eurofinsus.com
(319)277-2401

Case Narrative

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-252019-1

Job ID: 310-252019-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative
310-252019-1

Receipt
The sample was received on 3/24/2023 8:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

GC/MS Semi VOA
Method 625.1_PREC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-382180.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 625.1_PREC: The following sample was diluted due to the nature of the sample matrix: Prior to Discharge (310-252019-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 200.8_CWA: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: Prior to Discharge (310-252019-1). The sample(s) was preserved to the appropriate pH in the laboratory.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-252019-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-252019-1	Prior to Discharge	Wastewater	03/23/23 11:00	03/24/23 08:20

Client Sample Results

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-252019-1

Client Sample ID: Prior to Discharge
Date Collected: 03/23/23 11:00
Date Received: 03/24/23 08:20

Lab Sample ID: 310-252019-1
Matrix: Wastewater

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Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Bis(2-ethylhexyl) phthalate	<0.0521		0.0521		mg/L		03/28/23 22:13	5	L0FS

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Nitrobenzene-d5 (Surr)	*83*		*27 - 115*	*03/28/23 22:13*	*5*	*L0FS*
2-Fluorobiphenyl (Surr)	*71*		*28 - 110*	*03/28/23 22:13*	*5*	*L0FS*
Terphenyl-d14 (Surr)	*41*		*10 - 125*	*03/28/23 22:13*	*5*	*L0FS*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	0.0248		0.00200		mg/L		03/28/23 21:32	1	A6US
Barium	0.964		0.00200		mg/L		03/28/23 21:32	1	A6US
Cadmium	<0.000100		0.000100		mg/L		03/28/23 21:32	1	A6US
Copper	<0.00500		0.00500		mg/L		03/28/23 21:32	1	A6US
Iron	23.6		0.100		mg/L		03/28/23 21:32	1	A6US
Lead	<0.000500		0.000500		mg/L		03/28/23 21:32	1	A6US
Magnesium	118		2.00		mg/L		03/29/23 11:51	4	A6US
Zinc	<0.0200		0.0200		mg/L		03/28/23 21:32	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		03/29/23 12:12	1	XXW3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
HEM (Oil & Grease)	<5.4		5.4		mg/L		03/28/23 14:00	1	DN3P
Ammonia	147		25.0		mg/L		03/28/23 23:40	1	ZJX4
Nitrogen, Kjeldahl	184		50.0		mg/L		03/29/23 17:23	10	ZJX4
Total Suspended Solids	62.0		30.0		mg/L		03/24/23 12:52	1	DGU1
Biochemical Oxygen Demand	18.5		3.00		mg/L		03/24/23 09:00	1	W9YR
Chemical Oxygen Demand	281		25.0		mg/L		03/30/23 11:08	5	D7CP

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH	6.9	HF	0.1		SU		03/24/23 12:11	1	W9YR

Accreditation/Certification and Definitions Summary

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-252019-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-23

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Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
MRL	Method Reporting Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-252019-1

Method	Method Description	Protocol	Laboratory
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CF
200.8	Metals (ICP/MS)	EPA	EET CF
245.2	Mercury (CVAA)	EPA	EET CF
1664A	HEM and SGT-HEM	1664A	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 4500 H+ B	pH	SM	EET CF
SM 5210B	BOD, 5-Day	SM	EET CF
SM 5220D	COD	SM	EET CF
1664A	HEM and SGT-HEM (Aqueous)	1664A	EET CF
200.8	Preparation, Total Metals	EPA	EET CF
245.1	Preparation, Mercury	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
625	Liquid-Liquid Extraction	EPA	EET CF
Distill/Ammonia	Distillation, Ammonia	None	EET CF

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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310-252019 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Fayette County Landfill

City/State: CITY | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 3-24-23 | TIME 820 | Received By: Me

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☒ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☒ No	*If yes:* Cooler # _____ of _____
Cooler Custody Seals Present? No	☐ Yes	☒ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐
Sample Custody Seals Present? No	☐ Yes	☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐
Trip Blank Present?	☐ Yes	☒ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: W | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.3 | Corrected Temp (°C): 0.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE. If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Cedar Falls Division
3019 Venture Way
Cedar Falls, IA 50613

Phone 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax 319 - 277 - 2425

Company **Fayette County Landfill**
Send Report To Joan Swenka
Address 10275 Kornhill Road
City/State/Zip Code Fayette, Iowa 52175
Telephone Number 563-425-3037 Fax 563-422-6323
Sampled by (Print Name)
(Signature)

Your PO #
Invoice To Fayette County Landfill
Project Name Leachate
Project Number 31007270
Report Email Address [illegible]
CC [illegible]

							Preservative								Matrix						Analyze For												RUSH TAT (Must call ahead)	Standard TAT
Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Ice	HNO_3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H_2SO_4 Plastic (Yellow & White Label)	H_2SO_4 Glass(Yellow & White Label)	None (Black & White Label)	Other (NT Amber Glass)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify Stormwater	NH3, COD, TKN	BOD, pH, TSS	Oil & Grease	Mercury	200 8 As, Ba, Cd, Cu	200 8 Fe, Pb, Mg, Zn	625 Bis(2-ethlyhexyl)phthalate								
Prior to Discharge	3/23/2023	11 AM	7	X				1			1	2	1	2		X					X	X	X	X	X	X	X							

NOTE: All turn around times are calculated from the time of receipt at TestAmerica
NOTICE: **Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders

NOTES
Please fill in shaded areas

Relinquished by	Date	Time	Received by	Date	Time	Relinquished by	Date	Ti
[signature]	3/23/2023	11 AM						
Shipped Via			Comments			Shipped Via		
Received for TestAmerica by	Date	Time	Temperature Upon Receipt			Laboratory Comments		
MC	3-24-23	820						

eurofins | Environment Testing

June
18,885

ANALYTICAL REPORT

PREPARED FOR

Attn: Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, Iowa 52142

Generated 6/29/2023 10:14:56 AM

JOB DESCRIPTION

Leachate

JOB NUMBER

310-258118-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Eurofins Cedar Falls

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Tayler Sanderson

Generated
6/29/2023 10:14:56 AM

Authorized for release by
Tayler Sanderson, Project Manager I
Tayler.Sanderson@et.eurofinsus.com
(319)595-2017

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-258118-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative
310-258118-1

Comments
No additional comments.

Receipt
The sample was received on 6/15/2023 8:15 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -0.3° C.

GC/MS VOA
Method 624.1: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container: Leachate (310-258118-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 200.8: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: Leachate (310-258118-1). The sample(s) was preserved to the appropriate pH in the laboratory.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Methods 3510C, 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-390669.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Job ID: 310-258118-1

Client: Fayette County Landfill
Project/Site: Leachate

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-258118-1	Leachate	Water	06/14/23 13:00	06/15/23 08:15

Client: Fayette County Landfill
Project/Site: Leachate

Client Sample ID: Leachate
Date Collected: 06/14/23 13:00
Date Received: 06/15/23 08:15

Lab Sample ID: 310-258118-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlorobenzene	<0.00100		0.00100		mg/L		06/19/23 18:27	1	WSE8
Ethylbenzene	**0.00105**		0.00100		mg/L		06/19/23 18:27	1	WSE8
Toluene	<0.00100		0.00100		mg/L		06/19/23 18:27	1	WSE8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Dibromofluoromethane (Surr)	*110*		*70 - 130*	*06/19/23 18:27*	*1*	*WSE8*
Toluene-d8 (Surr)	*98*		*70 - 130*	*06/19/23 18:27*	*1*	*WSE8*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/19/23 18:27*	*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		06/20/23 19:57	1	L0FS

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Nitrobenzene-d5 (Surr)	*86*		*27 - 115*	*06/20/23 19:57*	*1*	*L0FS*
2-Fluorobiphenyl (Surr)	*79*		*28 - 110*	*06/20/23 19:57*	*1*	*L0FS*
Terphenyl-d14 (Surr)	*47*		*10 - 125*	*06/20/23 19:57*	*1*	*L0FS*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**0.0322**		0.00200		mg/L		06/27/23 23:41	1	A6US
Barium	**1.00**		0.00200		mg/L		06/27/23 23:41	1	A6US
Cadmium	<0.000200		0.000200		mg/L		06/27/23 23:41	1	A6US
Copper	<0.00500		0.00500		mg/L		06/27/23 23:41	1	A6US
Iron	**25.7**		0.100		mg/L		06/27/23 23:41	1	A6US
Lead	<0.000500		0.000500		mg/L		06/27/23 23:41	1	A6US
Magnesium	**128**		2.00		mg/L		06/28/23 13:41	4	A6US
Zinc	<0.0200		0.0200		mg/L		06/27/23 23:41	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		06/20/23 14:29	1	XXW3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
HEM (Oil & Grease)	<5.4		5.4		mg/L		06/20/23 14:00	1	D7CP
Ammonia	**241**		25.0		mg/L		06/21/23 21:31	1	ZJX4
Nitrogen, Kjeldahl	**220**		50.0		mg/L		06/16/23 09:24	10	WZC8
Total Suspended Solids	**76.0**		30.0		mg/L		06/16/23 08:46	1	DGU1
Biochemical Oxygen Demand	**25.3**		3.00		mg/L		06/15/23 08:47	1	W9YR
Chemical Oxygen Demand	**298**		25.0		mg/L		06/19/23 10:04	5	ENB7

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH	**7.0**	HF	0.1		SU		06/15/23 11:38	1	W9YR

Accreditation/Certification and Definitions Summary

Job ID: 310-258118-1

Client: Fayette County Landfill
Project/Site: Leachate

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-23

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
MRL	Method Reporting Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Job ID: 310-258118-1

Client: Fayette County Landfill
Project/Site: Leachate

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CF
200.8	Metals (ICP/MS)	EPA	EET CF
245.2	Mercury (CVAA)	EPA	EET CF
1664A	HEM and SGT-HEM	1664A	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 4500 H+ B	pH	SM	EET CF
SM 5210B	BOD, 5-Day	SM	EET CF
SM 5220D	COD	SM	EET CF
1664A	HEM and SGT-HEM (Aqueous)	1664A	EET CF
200.8	Preparation, Total Metals	EPA	EET CF
245.1	Preparation, Mercury	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
625	Liquid-Liquid Extraction	EPA	EET CF
Distill/Ammonia	Distillation, Ammonia	None	EET CF

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

eurofins | Environment Testing America

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Fayette

City/State: CITY | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 6-15-23 | TIME 815 | Received By: MC

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☒ No *If yes:* Cooler # _____ of _____

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☒ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: W | Correction Factor (°C): 0

Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): -0.3 | Corrected Temp (°C): -0.5

Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

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Client Information	Sampler	Lab PM: Sanderson, Tayler E	Carrier Tracking No(s):	COC No: 310-81616-18306.1
Client Contact: Joan Swenka	Phone:	E-Mail: Tayler.Sanderson@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Fayette County Landfill	PWSID:			Job #:

Address: 10275 Kornhill Road	Due Date Requested:	
City: Fayette	TAT Requested (days):	
State, Zip: IA, 52142	Compliance Project: Δ Yes Δ No	
Phone:	PO #: Purchase Order not required	
Email: joans@iowatelecom.net	WO #:	
Project Name: Leachate	Project #: 31007270	
Site:	SSOW#:	

Analysis Requested

Preservation Codes:

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.8_CWA, 245.2	350.1, 351.2, 6200	I_3788_86, SM4500_H+, SM5210B_Calc	1664A - Oil and Grease	624.1_PREC - (MOD) Volatile TTO Subset	625.1_PREC - (MOD) TTO Semivolatiles List	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	S	N	S	A	N	X	
Leachate				Water										

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

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

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

Special Instructions/QC Requirements.

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

Relinquished by:	Date/Time: 6/14/2023	Company	Received by: MC	Date/Time: 6-15-23 815	Company
Relinquished by:	Date/Time: 1.00 pm	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

eurofins | Environment Testing

Dept 12,871 JR

ANALYTICAL REPORT

PREPARED FOR

Attn: Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, Iowa 52142

Generated 10/4/2023 4:13:05 PM

JOB DESCRIPTION

Leachate

JOB NUMBER

310-264861-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

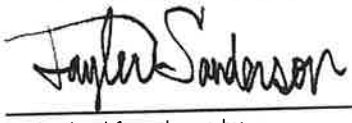
Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
Tayler Sanderson, Project Manager I
Tayler.Sanderson@et.eurofinsus.com
(319)595-2017

Job ID: 310-264861-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative
310-264861-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 9/15/2023 8:25 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C

GC/MS VOA
Method 624.1_PREC: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: Water (310-264861-1).

Method 624.1_PREC: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container: Water (310-264861-1).

Method 624.1_PREC: Internal standard (ISTD) response for the CCV was outside of acceptance limits: Fluorobenzene. The LCS was within control limits for the associated internal standard; therefore, the data have been reported.

Method 624.1_PREC: Instrument mis-injected on the CCV. The following analytes were affected: 4-Bromofluorobenzene (Surrogate), Dibromofluoromethane (Surrogate), and Toluene-d8 (Surrogate). The LCS was within CCV criteria; therefore, the data have been reported. (CCV 310-400269/4)

Method 624.1_PREC: The continuing calibration verification (CCV) associated with batch 310-400269 recovered above the upper control limit for Toluene (37%D) and Dibromofluoromethane (Surrogate). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-400269/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_PREC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-399788.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Job ID: 310-264861-1

Client: Fayette County Landfill
Project/Site: Leachate

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-264861-1	Water	Water	09/14/23 13:00	09/15/23 08:25

Client: Fayette County Landfill
Project/Site: Leachate

Client Sample ID: Water
Date Collected: 09/14/23 13:00
Date Received: 09/15/23 08:25

Lab Sample ID: 310-264861-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlorobenzene	**0.00102**		0.00100		mg/L		09/21/23 23:59	1	WSE8
Ethylbenzene	<0.00100		0.00100		mg/L		09/21/23 23:59	1	WSE8
Toluene	<0.00100		0.00100		mg/L		09/21/23 23:59	1	WSE8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*09/21/23 23:59*	*1*	*WSE8*
Toluene-d8 (Surr)	*101*		*70 - 130*	*09/21/23 23:59*	*1*	*WSE8*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/21/23 23:59*	*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	<0.0119		0.0119		mg/L		09/19/23 16:46	1	L0FS

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Nitrobenzene-d5 (Surr)	*85*		*45 - 129*	*09/19/23 16:46*	*1*	*L0FS*
2-Fluorobiphenyl (Surr)	*68*		*39 - 118*	*09/19/23 16:46*	*1*	*L0FS*
Terphenyl-d14 (Surr)	*41*		*12 - 144*	*09/19/23 16:46*	*1*	*L0FS*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**0.0109**		0.00200		mg/L		10/02/23 17:56	1	A6US
Barium	**1.05**		0.00200		mg/L		10/02/23 17:56	1	A6US
Cadmium	<0.000200		0.000200		mg/L		10/02/23 17:56	1	A6US
Copper	<0.00500		0.00500		mg/L		10/02/23 17:56	1	A6US
Iron	**2.99**		0.100		mg/L		10/02/23 17:56	1	A6US
Lead	<0.000500		0.000500		mg/L		10/02/23 17:56	1	A6US
Magnesium	**130**		2.00		mg/L		10/03/23 13:19	4	A6US
Zinc	<0.0200		0.0200		mg/L		10/02/23 17:56	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		09/21/23 11:19	1	NFT2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
HEM (Oil & Grease)	<5.3		5.3		mg/L		09/22/23 14:00	1	D7CP
Ammonia	**239**		46.9		mg/L		09/21/23 19:32	9.38	ZJX4
Nitrogen, Kjeldahl	**250**		50.0		mg/L		09/18/23 21:30	10	ZJX4
Total Suspended Solids	**70.0**		30.0		mg/L		09/18/23 15:22	1	A4XP
Biochemical Oxygen Demand	**36.5**		3.00		mg/L		09/15/23 08:51	1	W9YR
Chemical Oxygen Demand	**346**		25.0		mg/L		09/21/23 09:36	5	ENB7

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH	**7.0**	**HF**	1.0		SU		09/15/23 11:55	1	W9YR

Accreditation/Certification and Definitions Summary

Job ID: 310-264861-1

Client: Fayette County Landfill
Project/Site: Leachate

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-23

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
MRL	Method Reporting Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Job ID: 310-264861-1

Client: Fayette County Landfill
Project/Site: Leachate

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CF
200.8	Metals (ICP/MS)	EPA	EET CF
245.2	Mercury (CVAA)	EPA	EET CF
1664A	HEM and SGT-HEM	1664A	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 4500 H+ B	pH	SM	EET CF
SM 5210B	BOD, 5-Day	SM	EET CF
SM 5220D	COD	SM	EET CF
1664A	HEM and SGT-HEM (Aqueous)	1664A	EET CF
200.8	Preparation, Total Metals	EPA	EET CF
245.1	Preparation, Mercury	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
625	Liquid-Liquid Extraction	EPA	EET CF
Distill/Ammonia	Distillation, Ammonia	None	EET CF

Protocol References:

1664A = EPA-821-98-002
EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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310-264861 Chain of Custody

Cooler/Sample Receipt and Temperature Lc

Client Information

Client: Fayette County

City/State: CITY | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 9-15-23 | TIME 825 | Received By: MC

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☒ No *If yes:* Cooler # _____ of _____

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☒ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.9 | Corrected Temp (°C): 1.9

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE. If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM: Sanderson Tayler E	Carrier Tracking No(s)	COC No: 310-84972-23705 1
Client Contact: Joan Swenka	Phone:	E-Mail: Tayler Sanderson@et.eurofinsus com	State of Origin:	Page: Page 1 of 1
Company: Fayette County Landfill	PWSID:			Job #:
Address: 10275 Kornhill Road	Due Date Requested			
City: Fayette	TAT Requested (days):			
State, Zip: IA, 52142	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: joans@iowatelecom net	WO #:			
Project Name: Leachate	Project #: 31007270			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - 625 Saml-Volatiles Base/Neutral	380 1, 361 2, 5220D	200.8_CWA, 245 2	624 1_PREC - (MOD) Volatile TTO Sublist	1_3765_85, SM4500_H+, SM5210B_Calc	1664A - Oil and Grease										Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	S	D	A	N	S										X	
				Water																			

Preservation Codes:

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

Other:

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:			
Relinquished by:	Date/Time: 9/14/2023 1:00pm	Company: FC Barkdoll	Received by:	Date/Time: 9-15-23 825	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

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

Ver: 06/08/2021

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No. 12,907

ANALYTICAL REPORT

PREPARED FOR

Attn: Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, Iowa 52142

Generated 12/8/2023 9:37:07 AM

JOB DESCRIPTION

Leachate

JOB NUMBER

310-270001-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

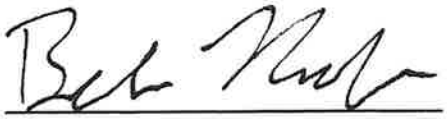
Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Generated
12/8/2023 9:37:07 AM

Authorized for release by
Bob Michels, Project Manager I
Bob.Michels@et.eurofinsus.com
(319)277-2401

Job ID: 310-270001-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative
310-270001-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 11/21/2023 8:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

GC/MS VOA
Method 624.1_PREC: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: Leachate (310-270001-1).

Method 624.1_PREC: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container: Leachate (310-270001-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 200.8_CWA: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: Leachate (310-270001-1). The sample(s) was preserved to the appropriate pH in the laboratory.

Method 245.2: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: Leachate (310-270001-1). The sample(s) was preserved to the appropriate pH in the laboratory.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-270001-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-270001-1	Leachate	Water	11/20/23 13:00	11/21/23 08:55

Client Sample ID: Leachate

Lab Sample ID: 310-270001-1

Date Collected: 11/20/23 13:00

Matrix: Water

Date Received: 11/21/23 08:55

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chlorobenzene	**0.00111**		0.00100		mg/L		11/22/23 22:02	1	WSE8
Ethylbenzene	<0.00100		0.00100		mg/L		11/22/23 22:02	1	WSE8
Toluene	<0.00100		0.00100		mg/L		11/22/23 22:02	1	WSE8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*11/22/23 22:02*	*1*	*WSE8*
Toluene-d8 (Surr)	*97*		*70 - 130*	*11/22/23 22:02*	*1*	*WSE8*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/22/23 22:02*	*1*	*WSE8*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Benzoic acid	<556		556		ug/L		12/04/23 17:09	5	L0FS
Bis(2-ethylhexyl) phthalate	<55.6		55.6		ug/L		12/04/23 17:09	5	L0FS
4-Methylphenol (and/or 3-Methylphenol)	<55.6		55.6		ug/L		12/04/23 17:09	5	L0FS
Phenol	<55.6		55.6		ug/L		12/04/23 17:09	5	L0FS

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
2-Fluorobiphenyl (Surr)	*94*		*39 - 118*	*12/04/23 17:09*	*5*	*L0FS*
2-Fluorophenol (Surr)	*79*		*25 - 110*	*12/04/23 17:09*	*5*	*L0FS*
Nitrobenzene-d5 (Surr)	*85*		*45 - 129*	*12/04/23 17:09*	*5*	*L0FS*
Phenol-d5 (Surr)	*87*		*21 - 110*	*12/04/23 17:09*	*5*	*L0FS*
Terphenyl-d14 (Surr)	*75*		*12 - 144*	*12/04/23 17:09*	*5*	*L0FS*
2,4,6-Tribromophenol (Surr)	*85*		*27 - 136*	*12/04/23 17:09*	*5*	*L0FS*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	**0.0326**		0.00200		mg/L		11/27/23 21:29	1	A6US
Barium	**1.16**		0.00200		mg/L		11/27/23 21:29	1	A6US
Cadmium	<0.000200		0.000200		mg/L		11/27/23 21:29	1	A6US
Chromium	**0.0123**		0.00500		mg/L		11/27/23 21:29	1	A6US
Copper	<0.00500		0.00500		mg/L		11/27/23 21:29	1	A6US
Iron	**22.7**		0.100		mg/L		11/27/23 21:29	1	A6US
Lead	<0.000500		0.000500		mg/L		11/27/23 21:29	1	A6US
Magnesium	**122**		2.00		mg/L		11/28/23 16:02	4	A6US
Nickel	**0.111**		0.00500		mg/L		11/27/23 21:29	1	A6US
Selenium	<0.00500		0.00500		mg/L		11/27/23 21:29	1	A6US
Zinc	<0.0200		0.0200		mg/L		11/27/23 21:29	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		12/07/23 16:23	1	NFT2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
HEM (Oil & Grease)	<5.5	F1	5.5		mg/L		11/28/23 14:00	1	D7CP
Ammonia	**201**		25.0		mg/L		11/28/23 22:14	1	ENB7
Nitrogen, Kjeldahl	**249**		50.0		mg/L		11/30/23 13:07	10	WZC8
Total Suspended Solids	**54.0**		15.0		mg/L		11/21/23 13:33	1	DGU1
Biochemical Oxygen Demand	**27.9**		3.00		mg/L		11/22/23 05:59	1	W9YR
Chemical Oxygen Demand	**319**		25.0		mg/L		11/22/23 13:14	5	D7CP

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-270001-1

Client Sample ID: Leachate
Date Collected: 11/20/23 13:00
Date Received: 11/21/23 08:55

Lab Sample ID: 310-270001-1
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH	7.0	HF	1.0		SU		11/21/23 11:15	1	W9YR

Accreditation/Certification and Definitions Summary

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-270001-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-23 *

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
MRL	Method Reporting Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-270001-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CF
200.8	Metals (ICP/MS)	EPA	EET CF
245.2	Mercury (CVAA)	EPA	EET CF
1664A	HEM and SGT-HEM	1664A	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 4500 H+ B	pH	SM	EET CF
SM 5210B	BOD, 5-Day	SM	EET CF
SM 5220D	COD	SM	EET CF
1664A	HEM and SGT-HEM (Aqueous)	1664A	EET CF
200.8	Preparation, Total Metals	EPA	EET CF
245.1	Preparation, Mercury	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
625	Liquid-Liquid Extraction	EPA	EET CF
Distill/Ammonia	Distillation, Ammonia	None	EET CF

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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310-270001 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information					
Client:	Linn County LF				
City/State:	CITY: Fayette		STATE: IA	Project:	
Receipt Information					
Date/Time Received:	DATE: 11/27/23		TIME: 0855	Received By:	JJ

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers			
Sample(s) received in Cooler?	☒ Yes ☐ No	*If yes:* Cooler ID:	
Multiple Coolers?	☐ Yes ☒ No	*If yes:* Cooler # ____ of ____	
Cooler Custody Seals Present?	☐ Yes ☒ No	*If yes:* Cooler custody seals intact?	☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes ☒ No	*If yes:* Sample custody seals intact?	☐ Yes ☐ No
Trip Blank Present?	☐ Yes ☒ No	*If yes:* Which VOA samples are in cooler?	↓

Temperature Record			
Coolant:	☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____		☐ NONE
Thermometer ID:	IR	Correction Factor (°C):	0
• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	4.3	Corrected Temp (°C):	4.3

• **Sample Container Temperature**		
Container(s) used:	CONTAINER 1	CONTAINER 2
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613
Phone. 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

eurofins

Client Information	Sampler:	Lab PM: Sanderson Tayler E	Carrier Tracking No(s):	COC No: 310-86638-18306.1
Client Contact: Joan Swenka	Phone:	E-Mail: Tayler Sanderson@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Fayette County Landfill	PWSID:			Job #:
Address: 10275 Kornhill Road	Due Date Requested			
City: Fayette	TAT Requested (days):			
State, Zip: IA, 52142	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: joans@iowatelecom.net	WO #:			
Project Name: Leachate	Project #: 31007270			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.8_CWA, 245.2	350.1, 351.2, 8220D	I_3705_85, SM4500_H+, SM5210B_Calc	1664A - Oil and Grease	624.1_PREC - (MOD) Volatile TTO Sublist	625.1_PREC - (MOD) TTO Semivolatiles List	Total Number of containers	Special Instructions/Note
			Preservation Code:				D	S	N	S	A	N		
Leachate	11/20/2023	1:00 pm		Water										

Preservation Codes:

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

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

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

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

Special Instructions/QC Requirements

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/20/2023 1:00 pm	FC Landfill			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 11/21/23 0855	Company

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

Ver: 06/08/2021

12/8/2023

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Joan Swenka
Fayette County Landfill
10275 Kornhill Road
Fayette, Iowa 52142

Generated 1/2/2024 4:01:10 PM

JOB DESCRIPTION

Leachate

JOB NUMBER

310-270001-2

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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Job ID: 310-270001-2

Eurofins Cedar Falls

Job Narrative
310-270001-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 11/21/2023 8:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

HPLC/IC
Method 300_ORGFM_28D: The following sample was analyzed outside of analytical holding time due to method being added later: Leachate (310-270001-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-270001-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-270001-1	Leachate	Water	11/20/23 13:00	11/21/23 08:55

Client: Fayette County Landfill
Project/Site: Leachate

Job ID: 310-270001-2

Client Sample ID: Leachate
Date Collected: 11/20/23 13:00
Date Received: 11/21/23 08:55

Lab Sample ID: 310-270001-1
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chloride	913	H	20.0		mg/L		12/29/23 13:59	20	QTZ5
Sulfate	82.9	H	20.0		mg/L		12/29/23 13:59	20	QTZ5

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

	1/9/2023		4/3/2023		7/10/2023		10/16/2023	
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	19.6	7.4	24.1	2.9	23.6	3.4	24.35	2.65
South Manhole	20.35	4.65	20.1	4.9	20.3	4.7	20.6	4.4
NEX SE Riser	40.7	-1.3	34.3	5.1	29.55	9.85	28	11.4
LHPZ-9	56.2	0.1	56.3	0	56.15	0.15	56.3	0
LHPZ-10	45.9	10.1	45.61	10.39	46.45	9.55	47.2	8.8

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 2023. 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

Table 15

Annual Methane Gas Evaluation Report

Annual Water Quality Report
Fayette County Sanitary Landfill
Permit No. 33-SDP-02-83C

Readings are % LEL

Location/Date	1/9/23	4/3/23	7/10/23	10/16/23
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**	**36.8**	**OL**	**OL**
N. Leachate Manhole	**31.2**	**50**	**93.6**	**26.8**
LS (beehive)	0	0	0	0
LS2 (riser with wooden top)	0	0	0	0
Transfer Station Buildings	0	0	0	0
VENTS:				
1	**OL**	0	**37.7**	**OL**
2	**OL**	**OL**	**34.5**	**54.9**
3	**OL**	**OL**	**OL**	**OL**
4	**50.1**	**OL**	0	**OL**
5	**OL**	**OL**	**8**	0
6	**OL**	**OL**	**OL**	**OL**
7	0	0	0	**81.7**
8	**96.9**	**34.5**	**OL**	**OL**
9	0	0	0	0
10	**5.4**	0	0	0
11	**28.8**	0	**24.3**	**81.9**
12	**OL**	**OL**	**OL**	**OL**
13	**OL**	**OL**	**OL**	**OL**
14	**3.4**	0	**6.8**	**31.1**
15	**OL**	**OL**	**OL**	**OL**
16	**OL**	**OL**	**OL**	**OL**
17	**OL**	**OL**	**OL**	**OL**
18	**OL**	**OL**	**OL**	**OL**

OL - Over Limit