

2025
ANNUAL GROUNDWATER QUALITY REPORT
OF
THE AUDUBON COUNTY SANITARY LANDFILL
05-SDP-01-75C
AUDUBON, IOWA

by:
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January, 2026



6050-23A.320

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Certification

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Section 1.0 Background Information

1.1 Report Format

Table 1 through Table 13 are attached to this report and satisfy the IDNR requirement to provide the tables to meet the IDNR format requirements.

1.2 Report Priority

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

1.3 Period of Report Coverage

Water quality data evaluation is based on a running compilation of data beginning in June 9, 2008. Statistical evaluations herein are based on the most recent water quality data collected through October 27, 2025.

1.4 Current Site Maps

Figure 1 is attached illustrating the current site features, monitoring well locations, buildings, and leachate piezometer locations.

Figure 2 represents the groundwater contour map.

1.5 Site Status and Applicable Rules

Site Location & Status

The Audubon County Sanitary Landfill is a closed landfill that operated from 1975 until its closure in 2007. The site is located in the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$, the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$, and lot B of the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$, all in Section 33, T80N, R35W of Audubon County, Iowa (Figure 1). Approximately 8.3 acres originally received waste and were closed under previous rules. An additional 10.6 acres also received waste and was closed during 2008. The permitted landfill stopped accepting waste on October 20, 2007, and began transferring to the Harrison County Landfill.

A closure permit (Permit No. 05-SDP-01-75C) was issued July 3, 2008, and expires July 3, 2038.

Site Geology/Hydrogeology

The site geology and site hydrogeology are reported by Howard R. Green in the *Hydrogeologic Evaluation* (October 1990) and the *Supplement to the Hydrologic Monitoring Plan* (February 1992 – Doc #68059).

Monitoring Well Data

The monitoring wells, their screened intervals, and the soil type are listed in the Table below.

Monitoring wells in the sampling program at the Audubon County Sanitary Landfill

Monitoring Well	Screened Interval (feet bgs)	Screened Across
MW-90-4	8.0-18.0	Alluvium/colluvium
MW-90-7	7.5-12.5	Weathered till
MW-90-14	7.0-17.0	Alluvium/colluvium
MW-90-17	25.0-35.0	Weathered till
MW-91-19	7.5-22.5	Alluvium with sand seams Over till with sand lens
MW-91-20	15.0-30.0	Glacial till

Applicable Rules

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

MONITORING WELL MAINTENANCE PERFORMANCE REEVALUATION

Table 3 outlines the status of well performance and maintenance activities performed as required by IAC 567-113.10(2)“f”. Water elevation information is summarized in Table 4 and Table 4A.

High & Low Water Levels

Current year water elevation data is included on Table 4. Historic water elevation data (2009 to present) is included in Table 4A. The high and low water elevations in 2025 are summarized in Table 4.

A Water Table Contour Map (Figure 2) dated October 27, 2025, is included with this report and illustrates the water surfaces and the effects of the topography.

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

Well Depth & Sedimentation

Well depth measurements were made October 27, 2025. Review of the well depth data included on Table 4 do not indicate that significant well sedimentation is occurring at any site monitoring wells (less than 6 inches of sedimentation).

Well Recharge Rates & Chemistry

The general in-situ permeability was defined in the 1990 Hydrogeologic Investigation Report and the 1992 Supplement to the Hydrologic Monitoring Plan. The summary information is included in Table 4. The well recharge information gathered April 18, 2024 indicates that recharge is relatively unchanged over time.

Based on the apparent static conditions across the site, it appears that the semi-annual water elevation data is sufficient to adequately monitor the hydrologic condition of the site. Review of the water elevation data for 2025 does not indicate excessive variability compared to historic water elevation data. The wells are interpreted to be appropriately located to detect any impact, should it occur.

Section 2.0 Reporting Period Monitoring Activities

The Hydrologic Monitoring for the site is approved by Permit Amendment #3 dated October 26, 2010 (Doc# 60926). The current HMSP is summarized in Table 1.

Background monitoring wells are restricted to a single well (MW90-17). The background monitoring well is functioning as a valid sampling point based on the hydrogeology and the water quality results.

Downgradient monitoring points include MW90-4, MW90-7, MW90-14, MW91-19, MW91-20, and SW-3.

The HMSP Implementation Schedule for 2026 is itemized in Table 2.

A comprehensive summary of Analytical Data for the episodes between 2008 and October 27, 2025, is included on Table 9.

2.1 Current Detection Monitoring Activities

The background well is currently MW90-17.

Downgradient monitoring points include MW90-4, MW90-7, MW90-14, MW91-19, MW91-20, and SW-3.

2.2 Current Assessment Monitoring Activities

Monitoring wells MW90-4, MW90-7, MW90-14, MW91-19 are included in the assessment monitoring program. To date, bis(2-ethylhexyl)phthalate is the only Appendix II compounds detected.

The full Appendix II parameter list is analyzed on an approved five (5) year frequency at all assessment wells. Approval of the five (5) year frequency is included in Permit Amendment #4, dated November 20, 2014 (Doc # 81876).

The most recent full Appendix II sampling was completed on April 18, 2024, at MW90-7 and MW91-19 (Table 2 and Table 2A).

Section 3.0 Data Evaluation and Summary

Field sampling information for April 16, 2025, and October 27, 2025, sampling episodes is included on the field forms (IDNR Form 542-1322) in Appendix A. Chemical analytical results for April 16, 2025, and October 27, 2025, sample collection episodes are included in Appendix B. The cumulative chemical analytical data is also presented in summary form in Table 9.

Statistical Evaluations are prepared by Otter Creek Environmental Services for the Spring and Fall monitoring episodes. The Groundwater Statistics Report for the Audubon County Sanitary Landfill, First Semi-Annual Monitoring Event in 2025, dated June, 2025, is included in Appendix C.1. The Groundwater Statistics Report for the Audubon County Sanitary Landfill, Second Semi-Annual Monitoring Event in 2025, dated December, 2025, is also included in Appendix C.2.

QUALITY ASSURANCE/QUALITY CONTROL

A blind duplicate sample was collected at MW91-20 during the April 16, 2025, sampling episode. A blind duplicate was collected at MW90-14 during October 27, 2025, sampling episode.

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

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

- a) Both the original and the duplicate results are less than five (5) times the Reporting Limit.
- b) One or both results are qualified, flagged, or estimated.
- c) One or both results are not detected.

The results of the blind duplicate and the monitoring well results (April 16, 2025, and October 27, 2025) were within the limits established and indicate that the data quality is acceptable without restriction.

SITE SPECIFIC GWPS

There are no Site-Specific GWPS established for this facility. GWPS are listed in the Statewide Standards published in Iowa Administrative Code (IAC) 567, Chapter 137. All GWPS are summarized in Table 5.

STATISTICALLY SIGNIFICANT INCREASES (SSI)

Test results from background monitoring well MW90-17 (Table 5) are utilized to establish background conditions of site groundwater.

All downgradient data is evaluated herein. In the downgradient wells, compounds that have exceeded a calculated prediction limit in 2025 (spring and/or fall) are summarized in Table 6.

The water quality data at each downgradient well is also evaluated over time in Table 7 which summarizes compounds in downgradient wells that have exceeded a prediction limit since September 30, 2009. Note that exceedances are documented over time at assessment monitoring wells (MW90-4, MW90-7, MW90-14, MW91-19).

ASSESSMENT MONITORING SUMMARY

The full Appendix II (assessment) monitoring events have historically been completed at MW90-4, MW90-7, MW90-14, and MW91-19. Bis (2-ethylhexyl) phthalate is the only Appendix II compound detected (beyond the Appendix I list).

Full Appendix II List Assessment Monitoring is required on a five (5) year frequency as approved by the IDNR in Permit Amendment #4, dated November 20, 2014 (Doc # 81876).

The most recent full Appendix II sampling was completed on April 18, 2024, at MW90-7 and MW91-19 (Table 2 and Table 2A).

A summary of bis(2-ethylhexyl) phthalate testing to date is presented in Appendix D. The full Appendix II sampling episodes are highlighted in green in the tables in Appendix D.

STATISTICALLY SIGNIFICANT LEVELS (SSL)

The detections that exceed site prediction limits (brown highlights on Table 7) are utilized to calculate the Confidence Interval (the 95% lower confidence limits (LCL) and the 95% upper control limits (UCL)) in accordance with the 2009 Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities by US EPA. The 95% LCL values are compared to applicable GWPS. Any 95% LCL value that exceeds an applicable GWPS is recorded as an SSL.

The Confidence Intervals (95% LCL and 95% UCL) are calculated during each statistical evaluation based on the most recent four (4) data points. *There are no recorded SSL.*

CORRECTIVE MEASURES MONITORING RESULTS

Not applicable at this time.

Section 4.0 Leachate Collection System Performance Evaluation

The Audubon County Sanitary Landfill was originally permitted in 1975. The pre-1989 fill areas are unlined areas constructed and operated as an area-type fill on the east side of the landfill. A vertical expansion was approved in 1992. When that was filled in 1994, an expansion between two filled cells on the south side of the site allowed vertical expansion over the existing waste cells. A four-foot clay liner was installed between the two cells with a leachate collection system completed in 1995. The leachate control system consists of three perforated collection lines that extend several feet into the existing waste cells. The collection lines are tied to solid wall conveyance lines that gravity flow into two manholes located in series. The second manhole directs the leachate to a lagoon for storage. The lagoon is an earthen structure lined with a 60 mil HDPE liner.

Periodically, when full, the lagoon contents are hauled to the Audubon Public-Owned Treatment Works (POTW) for treatment in accordance with previous treatment agreements with the City of Audubon.

During June 2017, an aerator was installed in the leachate lagoon to reduce the volume of leachate required to be transported to the POTW. An email from IDNR dated June 13, 2016, indicated a permit amendment was not required for the aerator.

QUANTITIES

Appendix E summarizes the annual quantity of leachate collected and hauled and/or recirculated since the installation of the leachate control system (1996). In 2025, no leachate was hauled to the Audubon POTW for treatment.

The available freeboard in the lagoon is inspected semi-annually during the routine landfill inspections.

The tile line (SW-3) constructed on the north side of the lagoon continues to be monitored semi-annually as part of the groundwater monitoring program. No evidence of leakage from the liner has been observed or detected during any monitoring event.

LEACHATE TESTING

A leachate sample was collected for analysis on October 5, 2022 (Appendix F). The sample was collected in anticipation of the lagoon contents being transported to the POTW during the fall of 2022. However, hauling instead occurred during the spring of 2023. There was no testing performed in 2025, as no leachate was disposed of from the site.

MAINTENANCE OF THE SYSTEM

Currently, existing leachate piezometers are measured semi-annually (Table 12 and Table 12A).

The current bottom elevations are also checked during each monitoring event.

The collection lines were cleaned by an outside contractor during the summer of 2023 in accordance with rule. The leachate line cleaning is scheduled to occur again in 2026.

PERFORMANCE EVALUATION

Leachate piezometer level measurements for 2025 are included on Table 12.

Table 12A summarizes the leachate levels from 2009 through 2025. The historical leachate column thickness (prior to 2009) has been previously provided by others.

The standard deviation and average leachate thickness is included in Table 12A. It appears that the levels vary little between monitoring events. This implies that the piezometers are isolated and not impacted by precipitation.

The leachate levels are measured semi-annually as approved in the IDNR review letter dated June 24, 2022 (Doc #103487).

Section 5.0 Gas Monitoring

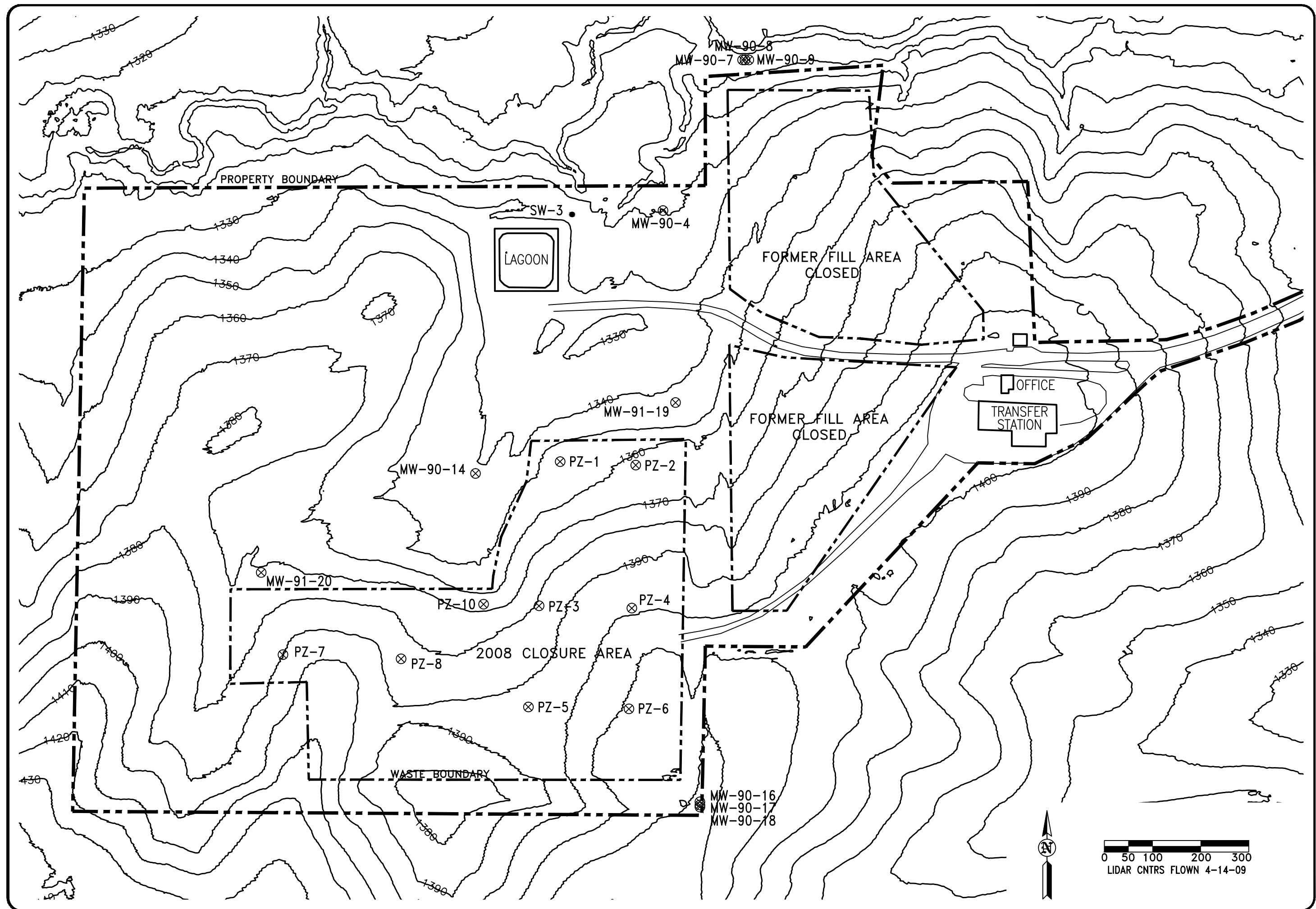
Explosive gas monitoring was performed semi-annually during monitoring well sampling events. The results are summarized in Table 13.

Review of Table 13 indicates that all recorded readings in 2025 were reported at 0% of the Lower Explosive Limit (LEL). Gas monitoring was conducted in all site structures and no readings were detected in 2025.

Section 6.0 Recommendations

- a. Continue to perform sampling in accordance with the Permit.
- b. Continue to evaluate water quality in the Annual Water Quality Report, due January 31 of each year.
- c. Continue to perform semi-annual water level measurements in the Spring & Fall of each year and reevaluate the data in the Annual Water Quality Report.
- d. The Well Recharge Rate Evaluation should be performed again in 2026.
- e. Continue to perform *semi-annual* leachate level measurements. Continue to re-evaluate leachate levels in the Annual Groundwater Quality Report/Leachate Control System Performance Evaluation.
- f. Continue to perform semi-annual explosive gas monitoring and report the results in the Annual Groundwater Quality Report.
- g. Continue to maintain adequate free board in the lagoon.

Figures





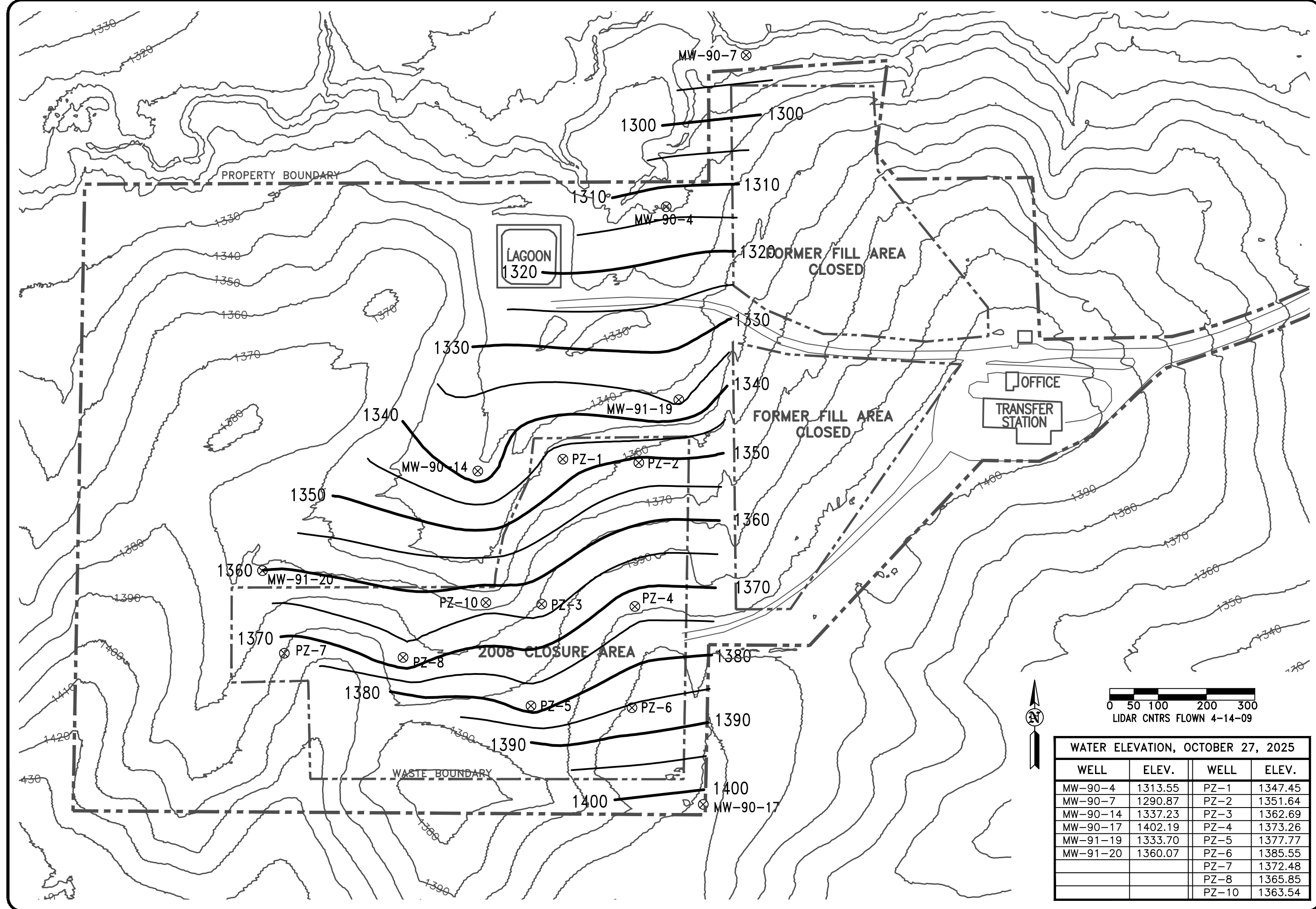
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SITE PLAN

AUDUBON COUNTY SANITARY LANDFILL
AUDUBON, IOWA

FIGURE: 1

REVISION	NO.	DATE
DRAWN	PROJECT NO. 6050	DATE 12-8-25
DRA		



WATER ELEVATION, OCTOBER 27, 2025			
WELL	ELEV.	WELL	ELEV.
MW-90-4	1313.55	PZ-1	1347.45
MW-90-7	1290.87	PZ-2	1351.64
MW-90-14	1337.23	PZ-3	1362.69
MW-90-17	1402.19	PZ-4	1373.26
MW-91-19	1333.70	PZ-5	1377.77
MW-91-20	1360.07	PZ-6	1385.55
		PZ-7	1372.48
		PZ-8	1365.85
		PZ-10	1363.54

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GROUNDWATER CONTOURS

AUDUBON COUNTY SANITARY LANDFILL
AUDUBON, IOWA

FIGURE: 2

REVISION	NO.	DATE
DRAWN	6050	DATE
DRA		12-8-25

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Table 7 – Summary of Ongoing and Newly Identified SSI & SSL
Table 8 - Summary of Ongoing SSL – **Not Required**
Table 9 – Analytical Data Summary - Comprehensive
Table 10 – Historic SSI and SSL – **Not Required**
Table 11 – Corrective Action Trend Analyses – **Not Required**
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Table 1 – Monitoring Program Summary

Table 1
Monitoring Program Summary
Annual Water Quality Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C

Monitoring Well	Formation	Current Monitoring Program	Change for next sampling event	Historic - Constituents w/ SSI	Current Spring - Constituents w/ SSI	Current Fall - Constituents w/ SSI	Historic - Constituents w/ SSL	Current Spring - Constituents w/ SSL	Current Fall - Constituents w/ SSL	Total # of Samples in each monitoring program since September 30, 2009		
										Detection	Assessment	Corrective Action
MW90-17 (b)	Glacial Till	Background	NC	None	None	None	None	None	None	33	0	0
MW90-4	Glacial Till	Assessment	NC	barium, cadmium, cobalt, bis(2ethylhexyl)phthalate	barium	barium	None	None	None	0	33	0
MW90-7	Glacial Till	Assessment	NC	cobalt, nickel, bis(2ethylhexyl)phthalate	cobalt, nickel	cobalt, nickel	None	None	None	0	33	0
MW90-14	Glacial Till	Assessment	NC	barium, cadmium, cobalt, nickel, zinc, bis(2ethylhexyl)phthalate	cadmium, nickel	cadmium, nickel	None	None	None	0	33	0
MW91-19	Glacial Till	Assessment	NC	barium, cadmium, cobalt, nickel, bis(2ethylhexyl)phthalate	None	cobalt	None	None	None	0	33	0
MW91-20	Glacial Till	Detection	NC	None	None	None	None	None	None	33	0	0
SW-3	Glacial Till	Detection	NC	None	None	None	None	None	None	33	0	0

Table 2 – Monitoring Program Implementation Schedule

Table 2
Monitoring Program Implementation Schedule
Annual Water Quality Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C

Monitoring Well	Recent Sampling Dates and Constituents	Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
		April, 2026	October, 2026	Previously Collected	Next Event
MW90-17 (b)		Appendix I	Appendix I	June, 2008	N/A
MW90-4		Appendix II	Appendix I	June, 2008; March, 2016; April, 2021	April, 2026
MW90-7	See Table 2A	Appendix I	Appendix I	June, 2008; April, 2014; April, 2019; April 2024	April, 2029
MW90-14		Appendix I	Appendix I	June, 2008; Sept., 2013; Sept.,2018; Oct. 2023	October, 2028
MW91-19		Appendix I	Appendix I	June, 2008; April, 2014; April, 2023; April, 2024	April, 2029
MW91-20		Appendix I	Appendix I	June, 2008	N/A
SW-3		Appendix I	Appendix I	June, 2008	N/A

(b) background well

Table 2A – Historic Monitoring Summary

Table 2A
Historic Monitoring
Annual Water Quality Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C

Date	Monitoring Well						
	MW90-17 (b)	MW90-4	MW90-7	MW90-14	MW91-19	MW91-20	SW-3
9/24/2012	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
4/24/2013	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
9/20/2013	Appendix I	Appendix I	Appendix I	Appendix II	Appendix I	Appendix I	Appendix I
4/8/2014	Appendix I	Appendix I	Appendix II	Appendix I	Appendix II	Appendix I	Appendix I
9/22/2014	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
3/20/2015	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
9/17/2015	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
3/17/2016	Appendix I	Appendix II	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
8/26/2016	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
4/11/2017	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
9/23/2017	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
4/10/2018	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
9/24/2018	Appendix I	Appendix I	Appendix I	Appendix II	Appendix I	Appendix I	Appendix I
11/1/2018	Appendix I	Appendix I	Appendix I	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix I
4/16/2019	Appendix I	Appendix I	Appendix II	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix I
6/25/2019	Appendix I	Appendix I	Appendix I ⁽¹⁾	NT	Appendix I	Appendix I	Appendix I
8/29/2019	Appendix I	Appendix I	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix I
4/10/2020	Appendix I	Appendix I	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix I
10/9/2020	Appendix I	Appendix I	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix I
4/9/2021	Appendix I	Appendix II	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix I
10/11/2021	Appendix I	Appendix I	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix I
4/7/2022	Appendix I	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix I	Appendix I
10/6/2022	Appendix I	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix I	Appendix I
4/5/2023	Appendix I	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix II	Appendix I	Appendix I
10/13/2023	Appendix I	Appendix I ⁽¹⁾	Appendix I	Appendix II	Appendix I	Appendix I	Appendix I
4/18/2024	Appendix I	Appendix I	Appendix II	Appendix I	Appendix II	Appendix I	Appendix I
10/15/2024	Appendix I	Appendix I	Appendix I ⁽¹⁾	Appendix I	Appendix I ⁽¹⁾	Appendix I	Appendix I
4/16/2025	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
10/27/2025	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I

⁽¹⁾ = bis(2-ethylhexyl)phthalate

Table 3 – Monitoring Well Maintenance Performance Reevaluation Schedule

Table 3
Monitoring Well Maintenance and Performance Revaluation Schedule
Annual Water Quality Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C

Compliance with:	Monitoring Calendar Years									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
567 IAC 113.10(2)"f"(1) high and low water levels (bi-annual)	X		X		X	X	X	X	P	P
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths (historic = 1 per 5 years; current = bi-annual)	X		X		X	X	X	X	P	P
567 IAC 113.10(2)"f"(3) well depths (annual)	X		X		X	X	X	X	P	P
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (bi-annual)	X		X		X		X		P	
Waste separation from ground water 113.6(2)"l"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

X = completed

P = Planned

N/A = Not Applicable

Table 4 – Monitoring Well Maintenance Performance Reevaluation Summary

Table 4
Monitoring Well Maintenance and Performance Summary
Annual Water Quality Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C

Well	Top of casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Hydraulic Cond. (cm/sec)/date	Most Recent Recharge Rate	
					4/16/2025	10/27/2025			4/18/2024	Change
MW90-17	1427.97	1400.67	37.3	Groundwater Level (ft)	25.05	25.78	0.07	0.0000004 1992	Full recovery in 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	1402.92	1402.19				
				Measured Well Depth (ft)	37.23	37.23				
				Submerged (+) or Exposed screen (-)	2.25	1.52				
MW90-4	1324.25	1307.28	20.1	Groundwater Level (ft)	9.1	10.7	0	0.00005 1992	Full recovery in 3 hours	None percieved
				Groundwater Elevation (Ft MSL)	1315.15	1313.55				
				Measured Well Depth (ft)	20.1	20.1				
				Submerged (+) or Exposed screen (-)	7.87	6.27				
MW90-7	1300.32	1290.32	15	Groundwater Level (ft)	9.42	9.45	-0.03	0.00007 1992	Full recovery in 5 hours	None percieved
				Groundwater Elevation (Ft MSL)	1290.9	1290.87				
				Measured Well Depth (ft)	15.03	15.03				
				Submerged (+) or Exposed screen (-)	0.58	0.55				
MW90-14	1347.51	1337.81	19.7	Groundwater Level (ft)	8.43	10.28	-0.16	0.00001 1992	Full recovery in 3 hours	None percieved
				Groundwater Elevation (Ft MSL)	1339.08	1337.23				
				Measured Well Depth (ft)	19.86	19.86				
				Submerged (+) or Exposed screen (-)	1.27	-0.58				
MW91-19	1347.5	1337.5	25	Groundwater Level (ft)	12.7	13.79	-0.1	0.00003 1992	Full recovery in 3 hours	None percieved
				Groundwater Elevation (Ft MSL)	1334.8	1333.71				
				Measured Well Depth (ft)	25.1	25.1				
				Submerged (+) or Exposed screen (-)	-2.7	-3.79				
MW91-20	1371.99	1354.59	32.4	Groundwater Level (ft)	8.85	11.92	0.08	0.0000003 1992	Full recovery in 6 hours	None percieved
				Groundwater Elevation (Ft MSL)	1363.14	1360.07				
				Measured Well Depth (ft)	32.32	32.32				
				Submerged (+) or Exposed screen (-)	8.55	5.48				

Table 4A – Historic Water Level Summary

Table 4A
Water Level Summary
Annual Water Quality Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C

Table 4A.--- Water-level data, Audubon County Sanitary Landfill (Continued).

Monitor Well/ TOC Elev. (ft)	Screened Interval		Water Level	Date									
	Depth (ft)	Elev. (ft)											
MW-90-4 1324.25	9.84	1314.41	Depth (ft)	3/5/2009 9.81	9/30/2009 9.90	3/23/2010 6.21	9/7/2010 9.28	4/5/2011 8.85	9/6/2011 9.80	3/16/2012 8.71	9/24/2012 11.60	4/24/2013 5.31	9/20/2013 10.82
	19.84	1304.41	Elev. (ft)	1314.44	1314.35	1318.04	1314.97	1315.40	1314.45	1315.54	1312.65	1318.94	1313.43
MW-90-7 1300.32	9.60	1290.72	Depth (ft)	7.25	7.49	5.90	7.14	6.55	7.27	7.45	8.59	6.14	8.86
	14.60	1285.72	Elev. (ft)	1293.07	1292.83	1294.42	1293.18	1293.77	1293.05	1292.87	1291.73	1294.18	1291.46
MW-90-14 1347.51	9.80	1337.71	Depth (ft)	9.15	9.32	4.61	8.38	8.48	9.11	8.40	10.26	5.48	10.19
	19.80	1327.71	Elev. (ft)	1338.36	1338.19	1342.90	1339.13	1339.03	1338.40	1339.11	1337.25	1342.03	1337.32
MW-90-17 1427.97	26.89	1401.08	Depth (ft)	20.35	22.31	14.31	19.73	20.50	21.80	24.27	25.78	23.94	23.66
	36.89	1391.08	Elev. (ft)	1407.62	1405.66	1413.66	1408.24	1407.47	1406.17	1403.70	1402.19	1404.03	1404.31
MW-91-19 1347.50	9.67	1337.83	Depth (ft)	12.40	13.24	9.33	12.64	11.82	13.02	11.49	14.10	7.56	13.80
	24.67	1322.83	Elev. (ft)	1335.10	1334.26	1338.17	1334.86	1335.68	1334.48	1336.01	1333.40	1339.94	1333.70
MW-91-20 1371.99	17.26	1354.73	Depth (ft)	12.75	12.17	6.12	8.92	9.92	11.60	10.58	15.42	5.87	14.35
	32.26	1339.73	Elev. (ft)	1359.24	1359.82	1365.87	1363.07	1362.07	1360.39	1361.41	1356.57	1366.12	1357.64

Table 4A
Water Level Summary
Annual Water Quality Report
Audubon County Sanitary Landfill
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Table 4A.--- Water-level data, Audubon County Sanitary Landfill (Continued).

Monitor Well/ TOC Elev. (ft)	Water Level	Date									
		4/8/2014	9/22/2014	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2018	4/10/2018	9/24/2018
MW-90-4 1324.25	Depth (ft) Elev. (ft)	11.31 1312.94	5.86 1318.39	9.76 1314.49	9.34 1314.91	8.81 1315.44	10.05 1314.20	7.33 1316.92	8.92 1315.33	8.53 1315.72	7.84 1316.41
MW-90-7 1300.32	Depth (ft) Elev. (ft)	8.50 1291.82	6.39 1293.93	7.98 1292.34	7.86 1292.46	6.97 1293.35	8.54 1291.78	6.82 1293.50	8.18 1292.14	7.35 1292.97	7.16 1293.16
MW-90-14 1347.51	Depth (ft) Elev. (ft)	10.37 1337.14	6.21 1341.30	8.08 1339.43	8.21 1339.30	7.65 1339.86	9.11 1338.40	7.22 1340.29	8.52 1338.99	8.01 1339.50	7.99 1339.52
MW-90-17 1427.97	Depth (ft) Elev. (ft)	27.37 1400.60	18.84 1409.13	20.62 1407.35	18.98 1408.99	19.03 1408.94	22.50 1405.47	21.05 1406.92	23.47 1404.50	23.24 1404.73	22.25 1405.72
MW-91-19 1347.50	Depth (ft) Elev. (ft)	13.91 1333.59	9.45 1338.05	12.57 1334.93	12.25 1335.25	11.37 1336.13	13.18 1334.32	10.07 1337.43	12.26 1335.24	11.33 1336.17	11.44 1336.06
MW-91-20 1371.99	Depth (ft) Elev. (ft)	13.69 1358.30	4.93 1367.06	8.96 1363.03	6.69 1365.30	4.65 1367.34	10.85 1361.14	5.18 1366.81	9.70 1362.29	6.41 1365.58	6.07 1365.92

Table 4A
Water Level Summary
Annual Water Quality Report
Audubon County Sanitary Landfill
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Table 4A.--- Water-level data, Audubon County Sanitary Landfill (Continued).

Monitor Well/ TOC Elev. (ft)	Water Level	Date									
		4/16/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	4/5/2023	10/13/2023
MW-90-4 1324.25	Depth (ft) Elev. (ft)	8.49 1315.76	7.88 1316.37	8.50 1315.75	11.16 1313.09	7.90 1316.35	9.47 1314.78	8.30 1315.95	11.02 1313.23	10.17 1314.08	13.17 1311.08
MW-90-7 1300.32	Depth (ft) Elev. (ft)	7.19 1293.13	7.58 1292.74	7.05 1293.27	9.75 1290.57	8.78 1291.54	9.04 1291.28	7.82 1292.50	10.05 1290.27	9.24 1291.08	10.37 1289.95
MW-90-14 1347.51	Depth (ft) Elev. (ft)	7.90 1339.61	7.79 1339.72	7.98 1339.53	10.28 1337.23	7.68 1339.83	9.45 1338.06	6.10 1341.41	10.30 1337.21	8.95 1338.56	12.25 1335.26
MW-90-17 1427.97	Depth (ft) Elev. (ft)	20.70 1407.27	22.26 1405.71	20.45 1407.52	25.37 1402.60	23.35 1404.62	26.70 1401.27	25.05 1402.92	24.63 1403.34	25.95 1402.02	27.30 1400.67
MW-91-19 1347.50	Depth (ft) Elev. (ft)	11.32 1336.18	11.06 1336.44	11.49 1336.01	13.93 1333.57	10.75 1336.75	13.30 1334.20	10.96 1336.54	14.05 1333.45	13.31 1334.19	14.91 1332.59
MW-91-20 1371.99	Depth (ft) Elev. (ft)	5.71 1366.28	6.60 1365.39	5.35 1366.64	12.85 1359.14	6.31 1365.68	11.64 1360.35	6.22 1365.77	13.25 1358.74	10.92 1361.07	13.25 1358.74

Table 4A
Water Level Summary
Annual Water Quality Report
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Table 4A.--- Water-level data, Audubon County Sanitary Landfill (Continued).

Monitor Well	Water Level	Date				Mean/ Std. Dev.
TOC Elev. (f						
		4/18/2024	10/15/2024	4/16/2025	10/27/2025	
MW-90-4	Depth (ft)	8.49	7.88	9.10	10.70	9.08
1324.25	Elev. (ft)	1315.76	1316.37	1315.15	1313.55	1.68
MW-90-7	Depth (ft)	7.19	7.58	9.42	9.45	7.81
1300.32	Elev. (ft)	1293.13	1292.74	1290.90	1290.87	1.10
MW-90-14	Depth (ft)	7.90	7.79	8.43	10.28	8.41
1347.51	Elev. (ft)	1339.61	1339.72	1339.08	1337.23	1.54
MW-90-17	Depth (ft)	20.70	22.26	25.05	25.78	22.46
1427.97	Elev. (ft)	1407.27	1405.71	1402.92	1402.19	2.86
MW-91-19	Depth (ft)	11.32	11.06	12.70	13.79	12.02
1347.50	Elev. (ft)	1336.18	1336.44	1334.80	1333.71	1.61
MW-91-20	Depth (ft)	5.71	6.60	8.85	11.92	9.04
1371.99	Elev. (ft)	1366.28	1365.39	1363.14	1360.07	3.32

Table 5 – Background and GWPS Summary

Table 5
Background and GWPS Summary
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Interwell Background Well (MW90-17)

Inorganics - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
Antimony (Sb)	µg/l	nonparametric	33	0			2.0000	0.99	6	SS
Arsenic (As)	µg/l	nonparametric	33	0			4.0000	0.99	10	SS
Barium (Ba)	µg/l	normal	33	33	254.9091	48.0133	374.2359		2000	SS
Beryllium (Be)	µg/l	nonparametric	31	0			4.0000	0.99	4	SS
Cadmium (Cd)	µg/l	nonparametric	31	1			1.1000	0.99	5	SS
Chromium (Cr)	µg/l	nonparametric	32	2			8.0000	0.99	100	SS
Cobalt (Co)	µg/l	nonparametric	33	0			0.8000	0.99	0.8	SS
Copper (Cu)	µg/l	nonparametric	33	0			4.0000	0.99	1300	SS
Lead (Pb)	µg/l	nonparametric	31	0			4.0000	0.99	15	SS
Nickel (Ni)	µg/l	nonparametric	33	4			7.1000	0.99	100	SS
Selenium (Se)	µg/l	nonparametric	33	0			4.0000	0.99	50	SS
Silver (Ag)	µg/l	nonparametric	33	0			4.0000	0.99	100	SS
Thallium (Tl)	µg/l	nonparametric	30	0			2.0000	0.99	2	SS
Vanadium (V)	µg/l	nonparametric	31	1			20.1000	0.99	35	SS
Zinc (Zn)	µg/l	nonparametric	33	3			33.7000	0.99	2000	SS
VOC - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
All	µg/l	DQR	33	0	<1	<1	<1	<1	various	SS

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

Table 6 – Summary of Detections

Table 6
Summary of Well/Detected Constituent Pairs that Exceed the Prediction Limit
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Date	Well	Constituent	Units	Most recent result	Background Standard	GWPS	Monitoring System
4/16/2025	MW90-4	Barium	ug/L	377	370.6	2000	Assessment Monitoring
10/27/2025	MW90-4	Barium	ug/L	403	374.2	2000	Assessment Monitoring
4/16/2025	MW90-7	Cobalt	ug/L	1.7	0.8	2.1	Assessment Monitoring
10/27/2025	MW90-7	Cobalt	ug/L	3.3	0.8	2.1	Assessment Monitoring
4/16/2025	MW90-7	Nickel	ug/L	23.1	7.1	100	Assessment Monitoring
10/27/2025	MW90-7	Nickel	ug/L	22.4	7.1	100	Assessment Monitoring
4/16/2025	MW90-14	Cadmium	ug/L	2.5	1.1	5	Assessment Monitoring
10/27/2025	MW90-14	Cadmium	ug/L	1.4	1.1	5	Assessment Monitoring
4/16/2025	MW90-14	Nickel	ug/L	10.8	7.1	100	Assessment Monitoring
10/27/2025	MW90-14	Nickel	ug/L	17.6	7.1	100	Assessment Monitoring
10/27/2025	MW91-19	Cobalt	ug/L	3	0.8	2.1	Assessment Monitoring

Table 7 – Summary of Ongoing and Newly Identified SSI

Table 7

Summary of Ongoing & Newly Identified SSI

Annual Water Quality Report

Audubon County Sanitary Landfill

Permit No. 05-SDP-01-75C

KEY:

SSI

SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-4	Barium	9/30/2009	512	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	3/23/2010	315	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	9/7/2010	420	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/5/2011	427	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	9/6/2011	499	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	3/16/2012	399	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	9/24/2012	322	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/24/2013	233	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	9/20/2013	679	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	10/28/2013	329	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/8/2014	379	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	9/22/2014	383	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	3/20/2015	434	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	9/17/2015	437	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	3/17/2016	381	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	8/26/2016	381	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/11/2017	332	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	9/23/2017	362	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	11/15/2017	339	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/10/2018	340	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	9/24/2018	306	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/16/2019	361	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	8/29/2019	359	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/10/2020	377	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	10/9/2020	385	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/9/2021	298	363.9328	---	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	10/11/2021	377	363.9328	320.228	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/7/2022	348	363.9328	320.228	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	10/6/2022	351	363.9328	320.228	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/5/2023	320	363.9328	320.228	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	10/13/2023	342	363.9328	320.228	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/18/2024	375	363.9328	320.228	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	10/15/2024	381	363.5707	320.755	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	4/16/2025	377	370.5721	347.569	2000	9/30/2009	NA	9/6/2011
MW90-4	Barium	10/27/2025	403	374.2359	368.814	2000	9/30/2009	NA	9/6/2011

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C

KEY:

SSI

SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-4	Cadmium	9/30/2009	<1.0	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	3/23/2010	<1.0	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	9/7/2010	<1.0	1.10	0.004	5	10/3/2017	1/3/2018	10/5/2016
MW90-4	Cadmium	4/5/2011	<0.8	1.10	0.004	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	9/6/2011	<0.8	1.10	0.004	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	3/16/2012	<0.8	1.10	0.004	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	9/24/2012	<0.8	1.10	0.004	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	4/24/2013	<0.8	1.10	0.004	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	9/20/2013	<0.8	1.10	0.004	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	10/28/2013	<0.8	1.10	0.004	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	4/8/2014	<0.8	1.10	0.004	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	9/22/2014	<0.8	1.10	0.004	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	3/20/2015	<0.8	1.10	0.004	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	9/17/2015	1.20	1.10	0.000	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	3/17/2016	<0.8	1.10	0.000	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	8/26/2016	<0.8	1.10	0.000	5	10/3/2017	NA	10/5/2016
MW90-4	Cadmium	4/11/2017	<0.8	1.10	0.000	5	NA	NA	10/5/2016
MW90-4	Cadmium	9/23/2017	<0.8	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	4/10/2018	<0.8	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	9/24/2018	<0.8	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	4/16/2019	<0.8	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	8/29/2019	<0.8	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	4/10/2020	<0.8	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	10/9/2020	<0.8	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	4/9/2021	0.80	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	10/11/2021	<0.8	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	4/7/2022	<0.8	1.10	0.004	5	NA	NA	10/5/2016
MW90-4	Cadmium	10/6/2022	3.10	1.10	0.000	5	NA	NA	10/5/2016
MW90-4	Cadmium	1/4/2023	<0.8	1.10	0.000	5	NA	NA	10/5/2016
MW90-4	Cadmium	4/5/2023	<0.8	1.10	0.000	5	NA	NA	10/5/2016
MW90-4	Cadmium	10/13/2023	<0.8	1.10	0.000	5	NA	NA	10/5/2016
MW90-4	Cadmium	4/18/2024	<0.8	1.10	0.400	5	NA	NA	10/5/2016
MW90-4	Cadmium	10/15/2024	1.30	1.10	0.096	5	NA	NA	10/5/2016
MW90-4	Cadmium	4/16/2025	<0.2	1.10	0.096	5	NA	NA	10/5/2016
MW90-4	Cadmium	10/27/2025	0.60	1.10	0.172	5	NA	NA	10/5/2016

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C

KEY:

SSI

SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-4	Cobalt	9/30/2009	<4.0	0.80	0.004	2.1	NA	NA	10/5/2016
MW90-4	Cobalt	3/23/2010	<4.0	0.80	0.004	2.1	NA	NA	10/5/2016
MW90-4	Cobalt	9/7/2010	<4.0	0.80	0.004	2.1	NA	NA	10/5/2016
MW90-4	Cobalt	4/5/2011	<4.0	0.80	0.004	2.1	NA	NA	10/5/2016
MW90-4	Cobalt	9/6/2011	<4.0	0.80	0.004	2.1	10/3/2017	1/3/2018	10/5/2016
MW90-4	Cobalt	3/16/2012	<4.0	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	9/24/2012	<4.0	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	4/24/2013	<4.0	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	9/20/2013	<4.0	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	10/28/2013	<4.0	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	4/8/2014	<4.0	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	9/22/2014	<0.8	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	3/20/2015	<0.8	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	9/17/2015	<0.8	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	3/17/2016	<0.8	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	8/26/2016	<0.8	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	4/11/2017	<0.8	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	9/23/2017	<0.8	0.80	0.004	2.1	10/3/2017	NA	10/5/2016
MW90-4	Cobalt	4/10/2018	<0.8	0.80	0.004	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	9/24/2018	<0.8	0.80	0.004	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	4/16/2019	<0.8	0.80	0.004	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	8/29/2019	<0.8	0.80	0.004	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	4/10/2020	<0.8	0.80	0.004	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	10/9/2020	<0.8	0.80	0.004	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	4/9/2021	<0.8	0.80	0.004	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	10/11/2021	<0.8	0.80	0.004	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	4/7/2022	<0.8	0.80	0.004	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	10/6/2022	2.0	0.80	0.000	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	1/4/2023	<0.8	0.80	0.000	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	4/5/2023	<0.8	0.80	0.000	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	10/13/2023	<0.8	0.80	0.000	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	4/18/2024	<0.4	0.80	0.200	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	10/15/2024	<0.4	0.80	0.200	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	4/16/2025	<0.5	0.80	0.200	2.1	10/5/2022	NA	10/5/2016
MW90-4	Cobalt	10/27/2025	<0.5	0.80	0.200	2.1	10/5/2022	NA	10/5/2016

Table 7

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Summary of Ongoing & Newly Identified SSI

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

Annual Water Quality Report

Audubon County Sanitary Landfill

Permit No. 05-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-4	bis(2-ethylhexyl)phthalate	9/30/2009	NT	6.00	---	6	NA	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	3/23/2010	NT	6.00	---	6	NA	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	9/7/2010	NT	6.00	---	6	NA	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/5/2011	NT	6.00	---	6	NA	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	9/6/2011	NT	6.00	---	6	10/3/2017	1/3/2018	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	3/16/2012	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	9/24/2012	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/24/2013	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	9/20/2013	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	10/28/2013	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/8/2014	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	9/22/2014	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	3/20/2015	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	9/17/2015	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	3/17/2016	<8	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	8/26/2016	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/11/2017	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	9/23/2017	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/10/2018	NT	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	9/24/2018	NT	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/16/2019	NT	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	8/29/2019	NT	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/10/2020	NT	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	10/9/2020	NT	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/9/2021	9.0	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	10/11/2021	NT	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/7/2022	<6	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	10/6/2022	14.0	6.00	2.119	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/5/2023	<6	6.00	2.119	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	10/13/2023	<6	6.00	0.000	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/18/2024	NT	6.00	0.000	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	10/15/2024	NT	6.00	0.000	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	4/16/2025	NT	6.00	0.000	6	10/5/2022	NA	10/5/2016
MW90-4	bis(2-ethylhexyl)phthalate	10/27/2025	NT	6.00	0.000	6	10/5/2022	NA	10/5/2016

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SSI

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-7	Cobalt	9/30/2009	4.80	0.80	---	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	3/23/2010	<4.0	0.80	---	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	9/7/2010	<4.0	0.80	---	2.1	10/3/2017	1/3/2018	10/5/2016
MW90-7	Cobalt	4/5/2011	<4.0	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	9/6/2011	<4.0	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	3/16/2012	4.30	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	9/24/2012	4.40	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	4/24/2013	<4.0	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	9/20/2013	5.70	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	10/28/2013	<4.0	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	4/8/2014	6.30	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	9/22/2014	2.70	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	3/20/2015	4.60	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	9/17/2015	6.50	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	3/17/2016	<4.0	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	8/26/2016	6.60	0.80	---	2.1	10/3/2017	NA	10/5/2016
MW90-7	Cobalt	4/11/2017	1.50	0.80	---	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	9/23/2017	2.50	0.80	---	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	4/10/2018	1.90	0.80	---	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	9/24/2018	5.10	0.80	---	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	4/16/2019	<4.0	0.80	---	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	8/29/2019	1.60	0.80	---	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	4/10/2020	2.10	0.80	---	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	10/9/2020	2.10	0.80	1.67	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	4/9/2021	2.10	0.80	1.681	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	10/11/2021	5.30	0.80	1.018	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	4/7/2022	0.80	0.80	0.320	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	10/6/2022	6.00	0.80	0.611	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	4/5/2023	1.60	0.80	0.360	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	10/13/2023	19.80	0.80	0.000	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	4/18/2024	1.90	0.80	0.000	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	10/15/2024	7.60	0.80	0.000	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	4/16/2025	1.70	0.80	0.000	2.1	NA	NA	10/5/2016
MW90-7	Cobalt	10/27/2025	3.30	0.80	0.397	2.1	NA	NA	10/5/2016

Table 7
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KEY:

SSI

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-7	Nickel	9/30/2009	49.10	7.10	---	100	NA	NA	10/5/2016
MW90-7	Nickel	3/23/2010	38.30	7.10	---	100	NA	NA	10/5/2016
MW90-7	Nickel	9/7/2010	50.50	7.10	---	100	NA	NA	10/5/2016
MW90-7	Nickel	4/5/2011	52.50	7.10	---	100	NA	NA	10/5/2016
MW90-7	Nickel	9/6/2011	43.40	7.10	---	100	10/3/2017	1/3/2018	10/5/2016
MW90-7	Nickel	3/16/2012	42.60	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	9/24/2012	28.60	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	4/24/2013	33.40	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	9/20/2013	60.40	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	10/28/2013	41.40	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	4/8/2014	39.60	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	9/22/2014	25.3	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	3/20/2015	34.0	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	9/17/2015	29.6	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	3/17/2016	23.5	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	8/26/2016	32.6	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	4/11/2017	23.3	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	9/23/2017	26.4	7.10	---	100	10/3/2017	NA	10/5/2016
MW90-7	Nickel	4/10/2018	33.8	7.10	---	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	9/24/2018	22.3	7.10	---	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	4/16/2019	16.3	7.10	---	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	8/29/2019	25.6	7.10	---	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	4/10/2020	23.0	7.10	---	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	10/9/2020	29.2	7.10	17.119	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	4/9/2021	42.1	7.10	20.008	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	10/11/2021	29.7	7.10	21.586	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	4/7/2022	15.2	7.10	16.118	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	10/6/2022	27.4	7.10	15.635	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	4/5/2023	25.6	7.10	16.939	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	10/13/2023	29.4	7.10	16.958	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	4/18/2024	28.4	7.10	25.794	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	10/15/2024	23.3	7.10	23.422	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	4/16/2025	23.1	7.10	22.148	100	10/5/2022	NA	10/5/2016
MW90-7	Nickel	10/27/2025	22.4	7.10	21.053	100	10/5/2022	NA	10/5/2016

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-7	bis(2-ethylhexyl)phthalate	9/30/2009	NT	6.00	---	6	NA	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	3/23/2010	NT	6.00	---	6	NA	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	9/7/2010	NT	6.00	---	6	NA	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/5/2011	NT	6.00	---	6	NA	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	9/6/2011	NT	6.00	---	6	10/3/2017	1/3/2018	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	3/16/2012	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	9/24/2012	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/24/2013	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	9/20/2013	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	10/28/2013	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/8/2014	<8	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	9/22/2014	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	3/20/2015	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	9/17/2015	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	3/17/2016	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	8/26/2016	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/11/2017	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	9/23/2017	NT	6.00	---	6	10/3/2017	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/10/2018	NT	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	9/24/2018	NT	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/16/2019	9.00	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	6/25/2019	11.00	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	8/29/2019	15.00	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/10/2020	7.00	6.00	---	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	10/9/2020	<6	6.00	3.619	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/9/2021	7.00	6.00	2.701	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	10/11/2021	<6	6.00	2.283	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/7/2022	<6	6.00	1.647	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	10/6/2022	<6	6.00	1.647	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/5/2023	NT	6.00	1.647	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	10/13/2023	NT	6.00	1.647	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/18/2024	18.00	6.00	0.000	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	10/15/2024	<6	6.00	0.000	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	4/16/2025	<6	6.00	0.000	6	10/5/2022	NA	10/5/2016
MW90-7	bis(2-ethylhexyl)phthalate	10/27/2025	<6	6.00	0.000	6	10/5/2022	NA	10/5/2016

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-14	Barium	9/30/2009	840	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	3/23/2010	307	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	9/7/2010	388	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/5/2011	360	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	9/6/2011	352	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	3/16/2012	611	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	9/24/2012	601	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/24/2013	361	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	9/20/2013	1150	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	10/28/2013	450	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/8/2014	482	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	9/22/2014	462	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	3/20/2015	332	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	9/17/2015	274	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	3/17/2016	314	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	8/26/2016	301	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/11/2017	300	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	9/23/2017	270	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/10/2018	264	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	9/24/2018	307	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/16/2019	199	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	8/29/2019	300	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/10/2020	321	360.435	---	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	10/9/2020	503	360.435	181.853	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/9/2021	272	360.435	225.948	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	10/11/2021	313	360.435	231.367	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/7/2022	255	360.435	201.504	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	10/6/2022	245	360.435	235.983	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/5/2023	134	360.435	148.796	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	10/13/2023	381	360.435	134.930	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/18/2024	263	363.9328	136.798	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	10/15/2024	237	363.5707	134.372	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	4/16/2025	316	370.5721	224.383	2000	3/16/2012	NA	9/6/2011
MW90-14	Barium	10/27/2025	261	374.2359	230.044	2000	3/16/2012	NA	9/6/2011

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KEY:

SSI

SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-14	Cadmium	3/20/2015	<0.8	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	9/17/2015	1.8	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	3/17/2016	<0.8	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	8/26/2016	<0.8	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	4/11/2017	1.3	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	9/23/2017	<0.8	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	4/10/2018	<0.8	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	9/24/2018	<0.8	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	4/16/2019	<0.8	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	8/29/2019	0.9	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	4/10/2020	1.7	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	10/9/2020	1.2	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	4/9/2021	1.0	1.1	---	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	10/11/2021	<0.8	1.1	0.400	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	4/7/2022	0.8	1.1	0.400	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	10/6/2022	<0.8	1.1	0.400	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	4/5/2023	<0.8	1.1	0.400	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	10/13/2023	<0.8	1.1	0.400	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	4/18/2024	<0.8	1.1	0.400	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	10/15/2024	1.3	1.1	0.096	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	4/16/2025	2.5	1.1	0.000	5	9/17/2015	NA	4/11/2017
MW90-14	Cadmium	10/27/2025	1.4	1.1	0.388	5	9/17/2015	NA	4/11/2017

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KEY:	SSI	SSL LCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-14	Cobalt	9/30/2009	7.00	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	3/23/2010	<4.0	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	9/7/2010	<4.0	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/5/2011	<4.0	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	9/6/2011	<4.0	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	3/16/2012	<4.0	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	9/24/2012	<4.0	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/24/2013	<4.0	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	9/20/2013	6.00	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	10/28/2013	<4.0	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/8/2014	<4.0	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	9/22/2014	2.50	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	3/20/2015	2.40	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	9/17/2015	<0.8	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	3/17/2016	1.00	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	8/26/2016	<0.8	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/11/2017	0.80	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	9/23/2017	<0.8	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/10/2018	<0.8	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	9/24/2018	1.30	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/16/2019	<0.8	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	8/29/2019	<0.8	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/10/2020	0.50	0.80	---	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	10/9/2020	1.70	0.80	0.710	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/9/2021	0.60	0.80	0.304	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	10/11/2021	0.70	0.80	0.221	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/7/2022	<0.8	0.80	0.421	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	10/6/2022	2.40	0.80	0.354	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/5/2023	<0.8	0.80	0.903	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	10/13/2023	0.90	0.80	1.066	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/18/2024	<0.4	0.80	0.000	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	10/15/2024	<0.4	0.80	0.231	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	4/16/2025	<0.5	0.80	0.231	2.1	9/22/2014	NA	9/6/2011
MW90-14	Cobalt	10/27/2025	<0.5	0.80	0.400	2.1	9/22/2014	NA	9/6/2011

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KEY:	SSI	SSL LCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-14	Nickel	9/30/2009	59.10	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	3/23/2010	31.50	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	9/7/2010	45.20	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/5/2011	45.50	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	9/6/2011	33.90	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	3/16/2012	36.60	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	9/24/2012	26.40	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/24/2013	24.10	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	9/20/2013	60.20	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	10/28/2013	13.90	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/8/2014	31.10	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	9/22/2014	34.0	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	3/20/2015	18.3	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	9/17/2015	20.8	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	3/17/2016	36.1	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	8/26/2016	21.3	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/11/2017	31.9	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	9/23/2017	30.9	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/10/2018	20.1	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	9/24/2018	35.0	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/16/2019	12.2	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	8/29/2019	33.1	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/10/2020	41.7	7.10	---	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	10/9/2020	59.0	7.10	13.617	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/9/2021	31.1	7.10	26.273	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	10/11/2021	33.4	7.10	26.423	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/7/2022	20.2	7.10	16.604	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	10/6/2022	27.8	7.10	21.348	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/5/2023	6.3	7.10	8.118	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	10/13/2023	36.5	7.10	7.641	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/18/2024	13.1	7.10	4.783	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	10/15/2024	12.9	7.10	1.615	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	4/16/2025	10.8	7.10	1.020	100	3/23/2010	NA	9/6/2011
MW90-14	Nickel	10/27/2025	17.6	7.10	10.233	100	3/23/2010	NA	9/6/2011

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SSI

SSL LCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-14	Zinc	9/30/2009	38.5	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	3/23/2010	20.1	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	9/7/2010	<10.0	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/5/2011	<8.0	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	9/6/2011	<8.0	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	3/16/2012	13.7	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	9/24/2012	<8.0	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/24/2013	13.7	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	9/20/2013	21.3	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	10/28/2013	8.7	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/8/2014	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	9/22/2014	8.9	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	3/20/2015	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	9/17/2015	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	3/17/2016	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	8/26/2016	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/11/2017	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	9/23/2017	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/10/2018	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	9/24/2018	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/16/2019	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	8/29/2019	9.6	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/10/2020	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	10/9/2020	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/9/2021	<20	10.50	---	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	10/11/2021	<20	10.50	10.000	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/7/2022	<20	10.50	10.000	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	10/6/2022	20.0	10.50	8.170	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/5/2023	<20	10.50	8.170	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	10/13/2023	<20	10.50	8.170	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/18/2024	<20	10.50	8.170	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	10/15/2024	<20	10.50	10.000	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	4/16/2025	<5	33.70	4.877	2000	3/23/2010	NA	9/6/2011
MW90-14	Zinc	10/27/2025	7.8	33.70	4.510	2000	3/23/2010	NA	9/6/2011

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW90-14	bis(2-ethylhexyl)phthalate	9/30/2009	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	3/23/2010	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	9/7/2010	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	4/5/2011	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	9/6/2011	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	3/16/2012	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	9/24/2012	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	4/24/2013	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	9/20/2013	<10	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	10/28/2013	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	4/8/2014	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	9/22/2014	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	3/20/2015	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	9/17/2015	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	3/17/2016	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	8/26/2016	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	4/11/2017	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	9/23/2017	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	4/10/2018	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	9/24/2018	12.00	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	11/1/2018	21.00	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	4/16/2019	6.00	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	6/25/2019	NT	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	8/29/2019	9.00	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	4/10/2020	<6	6.00	---	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	10/9/2020	<6	6.00	1.871	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	4/9/2021	<6	6.00	0.971	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	10/11/2021	<6	6.00	3.000	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	4/7/2022	NT	6.00	3.000	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	10/6/2022	NT	6.00	3.000	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	4/5/2023	NT	6.00	3.000	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	10/13/2023	<6	6.00	3.000	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	4/18/2024	NT	6.00	3.000	6	11/1/2018	NA	4/10/2020
MW90-14	bis(2-ethylhexyl)phthalate	10/15/2024	NT	6.00	3.000	6	11/1/2018	NA	4/10/2020

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KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW91-19	Barium	9/30/2009	390	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	3/23/2010	350	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	9/7/2010	430	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/5/2011	347	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	9/6/2011	534	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	3/16/2012	390	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	9/24/2012	449	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/24/2013	277	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	9/20/2013	833	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	10/28/2013	467	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/8/2014	396	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	9/22/2014	317	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	3/20/2015	331	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	9/17/2015	275	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	3/17/2016	372	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	6/15/2016	310	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	8/26/2016	362	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	9/29/2016	291	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/11/2017	325	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	9/23/2017	516	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	11/15/2017	296	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/10/2018	339	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	9/24/2018	281	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/16/2019	342	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	8/29/2019	335	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/10/2020	373	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	6/9/2020	327	360.435	---	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	10/9/2020	495	360.435	291.175	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/9/2021	328	360.435	287.670	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	10/11/2021	321	360.435	267.895	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/7/2022	343	360.435	274.497	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	10/6/2022	504	360.435	271.485	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	1/4/2023	434	360.435	332.936	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/5/2023	380	360.435	332.936	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	10/13/2023	482	360.435	385.229	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/18/2024	303	363.933	309.426	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	10/15/2024	276	363.571	251.613	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	4/16/2025	315	370.572	234.094	2000	3/16/2012	NA	9/6/2011
MW91-19	Barium	10/27/2025	351	374.236	274.648	2000	3/16/2012	NA	9/6/2011

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KEY:

SSI

SSL LCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	Initial Exceedance	Resamples Due	5th Background Sample
MW91-19	Cadmium	9/30/2009	<1.0	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	3/23/2010	<1.0	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	9/7/2010	<1.0	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/5/2011	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	9/6/2011	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	3/16/2012	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	9/24/2012	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/24/2013	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	9/20/2013	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	10/28/2013	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/8/2014	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	9/22/2014	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	3/20/2015	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	9/17/2015	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	3/17/2016	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	8/26/2016	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/11/2017	2.3	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	9/23/2017	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/10/2018	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	9/24/2018	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/16/2019	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	8/29/2019	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/10/2020	<0.8	1.1	---	5	NA	NA	9/6/2011
MW91-19	Cadmium	10/9/2020	<0.8	1.1	0.400	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/9/2021	<0.8	1.1	0.400	5	NA	NA	9/6/2011
MW91-19	Cadmium	10/11/2021	<0.8	1.1	0.400	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/7/2022	<0.8	1.1	0.400	5	NA	NA	9/6/2011
MW91-19	Cadmium	10/6/2022	2.9	1.1	0.000	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/5/2023	<0.8	1.1	0.000	5	NA	NA	9/6/2011
MW91-19	Cadmium	10/13/2023	<0.8	1.1	0.000	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/18/2024	<0.8	1.1	0.000	5	NA	NA	9/6/2011
MW91-19	Cadmium	10/15/2024	<0.8	1.1	0.400	5	NA	NA	9/6/2011
MW91-19	Cadmium	4/16/2025	<0.2	1.1	0.400	5	NA	NA	9/6/2011
MW91-19	Cadmium	10/27/2025	0.2	1.1	0.232	5	NA	NA	9/6/2011

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MW91-19	Cobalt	9/30/2009	<4.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	3/23/2010	<4.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	9/7/2010	<4.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/5/2011	<4.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	9/6/2011	<4.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	3/16/2012	<4.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	9/24/2012	<4.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/24/2013	<4.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	9/20/2013	<4.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	10/28/2013	<4.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/8/2014	<4.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	9/22/2014	1.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	3/20/2015	<0.8	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	9/17/2015	<0.8	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	3/17/2016	<0.8	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	8/26/2016	1.0	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/11/2017	<0.8	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	9/23/2017	<0.8	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/10/2018	<0.8	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	9/24/2018	<0.8	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/16/2019	<0.8	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	8/29/2019	<0.8	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/10/2020	<0.8	0.80	---	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	10/9/2020	2.4	0.80	1.865	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/9/2021	<0.8	0.80	0.000	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	10/11/2021	<0.8	0.80	0.000	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/7/2022	<0.8	0.80	0.000	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	10/6/2022	1.9	0.80	0.000	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	1/4/2023	0.7	0.80	0.058	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/5/2023	0.5	0.80	0.058	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	10/13/2023	1.4	0.80	0.366	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/18/2024	<0.4	0.80	0.220	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	10/15/2024	<0.4	0.80	0.104	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	4/16/2025	<0.5	0.80	0.062	2.1	NA	NA	9/6/2011
MW91-19	Cobalt	10/27/2025	3.0	0.80	0.000	2.1	NA	NA	9/6/2011

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MW91-19	Nickel	9/30/2009	7.10	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	3/23/2010	6.70	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	9/7/2010	6.90	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/5/2011	9.70	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	9/6/2011	8.30	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	3/16/2012	6.20	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	9/24/2012	6.80	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/24/2013	6.00	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	9/20/2013	5.50	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	10/28/2013	4.40	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/8/2014	4.30	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	9/22/2014	6.8	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	3/20/2015	4.0	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	9/17/2015	<4.0	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	3/17/2016	5.2	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	8/26/2016	7.1	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/11/2017	5.1	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	9/23/2017	4.5	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/10/2018	<4.0	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	9/24/2018	<4.0	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/16/2019	<4.0	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	8/29/2019	<4.0	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/10/2020	5.7	7.10	---	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	10/9/2020	9.3	7.10	0.634	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/9/2021	<4.0	7.10	0.634	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	10/11/2021	<4.0	7.10	0.634	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/7/2022	<4.0	7.10	0.000	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	10/6/2022	7.8	7.10	0.039	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	1/4/2023	10.1	7.10	0.628	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/5/2023	<4.0	7.10	0.628	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	10/13/2023	5.3	7.10	2.215	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/18/2024	<4.0	7.10	0.345	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	10/15/2024	<4.0	7.10	0.884	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	4/16/2025	<5.0	7.10	0.884	100	9/6/2011	NA	9/6/2011
MW91-19	Nickel	10/27/2025	<5.0	7.10	2.000	100	9/6/2011	NA	9/6/2011

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

Table 9 – Analytical Data Summary

Table 9

Analytical Data Summary for MW90-14

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
(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		<1.0		<1.0	<1.0	1.4	<1.0	<1.0
1,1-dichloroethene	ug/L		<2		<2	<2	<1	<1	<1
1,1-dichloropropene	ug/L		<1						
1,2,3-trichloropropane	ug/L		<1		<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L		<10						
1,2,4-trichlorobenzene	ug/L		<8 *						
1,2-dibromo-3-chloropropane	ug/L		<10.00		<.86	<.86	<1.00	<1.00	<1.00
1,2-dibromoethane (edb)	ug/L		<10.00		<.25	<.25	<1.00	<1.00	<1.00
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		<10						
1,3-dichlorobenzene	ug/L		<1						
1,3-dichloropropane	ug/L		<1						
1,3-dinitrobenzene	ug/L		<10						
1,4-dichlorobenzene	ug/L		<1		<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L		<10						
1,4-phenylenediamine	ug/L		<10						
1-naphthylamine	ug/L		<10						
2,2-dichloropropane	ug/L		<4						
2,3,4,6-tetrachlorophenol	ug/L		<10						
2,4,5-t	ug/L		<5.0						
2,4,5-tp (silvex)	ug/L		<5.0						
2,4,5-trichlorophenol	ug/L		<10						
2,4,6-trichlorophenol	ug/L		<10						
2,4-d	ug/L		<5						
2,4-db	ug/L		<5						
2,4-dichlorophenol	ug/L		<10						
2,4-dimethylphenol	ug/L		<10						
2,4-dinitrophenol	ug/L		<10						
2,4-dinitrotoluene	ug/L		<10						
2,6-dichlorophenol	ug/L		<10						
2,6-dinitrotoluene	ug/L		<10						
2-acetylaminofluorene	ug/L		<10						
2-butanone (mek)	ug/L		<10		<10	<10	<5	<5	<5
2-chloronaphthalene	ug/L		<10						
2-chlorophenol	ug/L		<10						
2-hexanone	ug/L		<10		<10	<10	<5	<5	<5
2-methylnaphthalene	ug/L		<10						
2-methylphenol (o-cresol)	ug/L		<10						
2-naphthylamine	ug/L		<10						
2-nitroaniline	ug/L		<10						
2-nitrophenol	ug/L		<10						
3,3'-dichlorobenzidine	ug/L		<85						
3,3'-dimethylbenzidine	ug/L		<20						
3/4-methylphenol	ug/L		<10						
3-methylcholanthrene	ug/L		<10						
3-nitroaniline	ug/L		<10						
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		<10						
4-aminobiphenyl	ug/L		<20						
4-bromophenyl phenyl ether	ug/L		<10						
4-chloro-3-methylphenol	ug/L		<10						
4-chloroaniline	ug/L		<10						
4-chlorophenyl phenyl ether	ug/L		<10						
4-methyl-2-pentanone (mibk)	ug/L		<10		<10	<10	<5	<5	<5
4-nitroaniline	ug/L		<10						
4-nitrophenol	ug/L		<8 *						
5-nitro-o-toluidine	ug/L		<10						
7,12-dimethylbenz (a) anthracene	ug/L		<10						
Acenaphthene	ug/L		<10 *						
Acetone	ug/L		<10.0		13.6	<10.0	<10.0	<10.0	<10.0
Acetonitrile	ug/L		<10						
Acetophenone	ug/L		<10						
Acrolein	ug/L		<10						
Acrylonitrile	ug/L		<10		<10	<10	<5	<5	<5
Aldrin	ug/L		<.05						
Allyl chloride	ug/L		<2						
Alpha-bhc	ug/L		<.05						

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

Table 9

Analytical Data Summary for MW90-14

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
(3,4)-methylphenol						<8			
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
1,1-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene						<1			
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene						<8			
1,2,4-trichlorobenzene						<1			
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dinitrobenzene						<8			
1,3,5-trinitrobenzene						<8			
1,3-dichlorobenzene						<1			
1,3-dichloropropane						<1			
1,3-dinitrobenzene						<8			
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
1,4-naphthoquinone						<8			
1,4-phenylenediamine						<8			
1-naphthylamine						<8			
2,2-dichloropropane						<1			
2,3,4,6-tetrachlorophenol						<8			
2,4,5-t						<5			
2,4,5-tp (silvex)						<5			
2,4,5-trichlorophenol						<8			
2,4,6-trichlorophenol						<8			
2,4-d						<1			
2,4-db									
2,4-dichlorophenol						<8			
2,4-dimethylphenol						<8			
2,4-dinitrophenol						<8			
2,4-dinitrotoluene						<8			
2,6-dichlorophenol						<8			
2,6-dinitrotoluene						<8			
2-acetylaminofluorene						<8			
2-butanone (mek)	<5	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene						<8			
2-chlorophenol						<8			
2-hexanone	<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			
3/4-methylphenol									
3-methylcholanthrene						<8			
3-nitroaniline						<8			
4,4'-ddd						<05			
4,4'-dde						<05			
4,4'-ddt						<05			
4,6-dinitro-2-methylphenol						<8			
4-aminobiphenyl						<8			
4-bromophenyl phenyl ether						<8			
4-chloro-3-methylphenol						<8			
4-chloroaniline						<8			
4-chlorophenyl phenyl ether						<8			
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline						<8			
4-nitrophenol						<8			
5-nitro-o-toluidine						<8			
7,12-dimethylbenz (a) anthracene						<8			
Acenaphthene						<8 *			
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0	<10.0
Acetonitrile						<10			
Acetophenone						<8			
Acrolein						<10			
Acrylonitrile	<5	<5	<5	<5	<5	<5		<5	<5
Aldrin						<05			
Allyl chloride						<1			
Alpha-bhc						<05			

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

Table 9

Analytical Data Summary for MW90-14

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	4/10/2018	9/24/2018	11/1/2018
(3,4)-methylphenol									<8
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									<8
1,2,4-trichlorobenzene									<1
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene									<8
1,3,5-trinitrobenzene									<8
1,3-dichlorobenzene									<1
1,3-dichloropropane									<1
1,3-dinitrobenzene									<8
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone									<8
1,4-phenylenediamine									<8
1-naphthylamine									<8
2,2-dichloropropane									<1
2,3,4,6-tetrachlorophenol									<8
2,4,5-t									<.5
2,4,5-tp (silvex)									<.5
2,4,5-trichlorophenol									<8
2,4,6-trichlorophenol									<8
2,4-d									<2
2,4-db									
2,4-dichlorophenol									<8
2,4-dimethylphenol									<8
2,4-dinitrophenol									<8
2,4-dinitrotoluene									<8
2,6-dichlorophenol									<8
2,6-dinitrotoluene									<8
2-acetylaminofluorene									<8
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene									<8
2-chlorophenol									<8
2-hexanone	<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
3/4-methylphenol									
3-methylcholanthrene									<8
3-nitroaniline									<8
4,4'-ddd									<.05
4,4'-dde									<.05
4,4'-ddt									<.05
4,6-dinitro-2-methylphenol									<8
4-aminobiphenyl									<8
4-bromophenyl phenyl ether									<8
4-chloro-3-methylphenol									<8
4-chloroaniline									<8
4-chlorophenyl phenyl ether									<8
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline									<8
4-nitrophenol									<8
5-nitro-o-toluidine									<8
7,12-dimethylbenz (a) anthracene									<8
Acenaphthene									<8 *
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10
Acetonitrile									<8
Acetophenone									<10
Acrolein									<5
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<.05
Aldrin									<.05
Allyl chloride									<1
Alpha-bhc									<.05

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

Table 9

Analytical Data Summary for MW90-14

Constituents	4/16/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	4/5/2023
(3,4)-methylphenol									
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone									
1,4-phenylenediamine									
1-naphthylamine									
2,2-dichloropropane									
2,3,4,6-tetrachlorophenol									
2,4,5-t									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-db									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<10	<10	<10
2-chloronaphthalene									
2-chlorophenol									
2-hexanone	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene									
2-methylphenol (o-cresol)									
2-naphthylamine									
2-nitroaniline									
2-nitrophenol									
3,3'-dichlorobenzidine									
3,3'-dimethylbenzidine									
3/4-methylphenol									
3-methylcholanthrene									
3-nitroaniline									
4,4'-ddd									
4,4'-dde									
4,4'-ddt									
4,6-dinitro-2-methylphenol									
4-aminobiphenyl									
4-bromophenyl phenyl ether									
4-chloro-3-methylphenol									
4-chloroaniline									
4-chlorophenyl phenyl ether									
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz (a) anthracene									
Acenaphthene									
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin									
Allyl chloride									
Alpha-bhc									

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

Table 9

Analytical Data Summary for MW90-14

Constituents	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
(3,4)-methylphenol	<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	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethene	<1	<1	<1	<1	<1
1,1-dichloropropene	<1				
1,2,3-trichloropropane	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	<8				
1,2,4-trichlorobenzene	<1				
1,2-dibromo-3-chloropropane	<1.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00	<1.00	<1.00
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				
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
1,4-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-db					
2,4-dichlorophenol	<8				
2,4-dimethylphenol	<8				
2,4-dinitrophenol	<8				
2,4-dinitrotoluene	<8				
2,6-dichlorophenol	<8				
2,6-dinitrotoluene	<8				
2-acetylaminofluorene	<8				
2-butanone (mek)	<5	<10	<10	<10	<10
2-chloronaphthalene	<8				
2-chlorophenol	<8				
2-hexanone	<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				
3/4-methylphenol					
3-methylcholanthrene	<8				
3-nitroaniline	<8				
4,4'-ddd	<.05				
4,4'-dde	<.05				
4,4'-ddt	<.05				
4,6-dinitro-2-methylphenol	<8				
4-aminobiphenyl	<8				
4-bromophenyl phenyl ether	<8				
4-chloro-3-methylphenol	<8				
4-chloroaniline	<8				
4-chlorophenyl phenyl ether	<8				
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5
4-nitroaniline	<8				
4-nitrophenol	<8				
5-nitro-o-toluidine	<8				
7,12-dimethylbenz (a) anthracene	<8				
Acenaphthene	<8 *				
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile	<10				
Acetophenone	<8				
Acrolein	<10				
Acrylonitrile	<5	<5	<5	<5	<5
Aldrin	<.05				
Allyl chloride	<1				
Alpha-bhc	<.05				

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

Table 9

Analytical Data Summary for MW90-14

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Alpha-chlordane	ug/L		<.05						
Ammonia as n	mg/L	<.2 *							
Anthracene	ug/L		<10						
Antimony, total	ug/L		<6		<6	<6	<1	<2	<2
Arsenic, total	ug/L		2.86		4.10	11.00	5.30	<4.00	5.40
Azobenzene	ug/L								
Barium, total	ug/L		386		394	368	840	307	388
Benzene	ug/L		<.5		<.5	<.5	<1.0	<1.0	<1.0
Benzo(a)anthracene	ug/L		<10						
Benzo(a)pyrene	ug/L		<10						
Benzo(b)fluoranthene	ug/L		<10						
Benzo(g,h,i)perylene	ug/L		<10						
Benzo(k)fluoranthene	ug/L		<10						
Benzyl alcohol	ug/L		<10						
Beryllium, total	ug/L		<1.0		<1.0	<1.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L								
Bis(2-chloroethoxy)methane	ug/L		<10						
Bis(2-chloroethyl)ether	ug/L		<10						
Bis(2-chloroisopropyl) ether	ug/L		<10						
Bis(2-ethylhexyl)phthalate	ug/L		<10						
Bis[2-chloroisopropyl]ether	ug/L								
Bromochloromethane	ug/L		<5		<5	<5	<1	<1	<1
Bromodichloromethane	ug/L		<1		<1	<1	<1	<1	<1
Bromoform	ug/L		<5		<5	<5	<1	<1	<1
Bromomethane	ug/L		<4		<4	<4	<1	<1	<1
Butyl benzyl phthalate	ug/L		<10						
Cadmium, total	ug/L		1.83		1.45	2.84	3.80	1.30	1.00
Carbon disulfide	ug/L		<1		<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L		<2		<2	<2	<1	<1	<1
Chemical oxygen demand	mg/L	13.2 *	29.8						
Chlordane	ug/L								
Chloride	mg/L	145 *	156	128 *					
Chlorobenzene	ug/L		<1		<1	<1	<1	<1	<1
Chlorobenzilate	ug/L		<10						
Chlorodibromomethane	ug/L		<5		<5	<5			
Chloroethane	ug/L		<4.0		<4.0	<4.0	2.2	<1.0	<1.0
Chloroform	ug/L		<1		<2	<1	<1	<1	<1
Chloromethane	ug/L		<3		<3	<3	<1	<1	<1
Chloroprene	ug/L		<1						
Chromium, total	ug/L		<20.0		<20.0	<20.0	<10.0	<10.0	<10.0
Chrysene	ug/L		<10						
Cis-1,2-dichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L		<5		<5	<5	<1	<1	<1
Cobalt, total	ug/L		<20.0		<20.0	<20.0	7.0	<4.0	<4.0
Copper, total	ug/L		<20.0		<20.0	<20.0	10.2	5.7	4.1
Cyanide	mg/L		<.010						
Dalapon	ug/L		<10						
Delta-bhc	ug/L								
Diallate	ug/L								
Diallate (cis or trans)	ug/L		<10						
Dibenzo(a,h)anthracene	ug/L		<10						
Dibenzofuran	ug/L		<10						
Dibromochloromethane	ug/L						<1	<1	<1
Dibromomethane	ug/L		<1		<1	<1	<1	<1	<1
Dicamba	ug/L		<5						
Dichlorodifluoromethane	ug/L		<3						
Dichloroprop	ug/L		<5						
Dieldrin	ug/L		<.05						
Diethyl phthalate	ug/L		<10						
Dimethoate	ug/L		<10.0						
Dimethyl phthalate	ug/L		<10						
Di-n-butyl phthalate	ug/L		<10						
Di-n-octyl phthalate	ug/L		<10						
Dinoseb	ug/L		<7.5 *						
Diphenylamine	ug/L		<10						
Disulfoton	ug/L		<70.0						
Endosulfan i	ug/L		<.05						
Endosulfan ii	ug/L		<.05						
Endosulfan sulfate	ug/L		<.05						
Endrin	ug/L		<.05						
Endrin aldehyde	ug/L		<.05						
Endrin ketone	ug/L		<.05						
Ethyl methacrylate	ug/L		<2						
Ethyl methanesulfonate	ug/L		<10						
Ethylbenzene	ug/L		<1		<1	<1	<1	<1	<1
Famphur	ug/L		<20.0						
Fluoranthene	ug/L		<10						

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

Table 9

Analytical Data Summary for MW90-14

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Alpha-chlordane									
Ammonia as n									
Anthracene						<8			
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4.00	<4.00	4.10	5.10	<4.00	8.90	<4.00	5.10	<4.00
Azobenzene						<8			
Barium, total	360	352	611	601	361	1150	450	482	462
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Benzo(a)anthracene						<8			
Benzo(a)pyrene						<8			
Benzo(b)fluoranthene						<8			
Benzo(g,h,i)perylene						<8			
Benzo(k)fluoranthene						<8			
Benzyl alcohol						<8			
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc						<.05			
Bis(2-chloroethoxy)methane						<8			
Bis(2-chloroethyl)ether						<8			
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate						<10			
Bis[2-chloroisopropyl]ether						<8			
Bromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromoform	<1	<1	<1	<1	<1	<1		<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate						<8			
Cadmium, total	.90	1.20	11.70	35.40	2.80	10.30	<.80	25.60	.90
Carbon disulfide	<1	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1		<1	<1
Chemical oxygen demand									
Chlordane						<.1			
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate						<8			
Chlorodibromomethane									
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1	<1		<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Chloroprene						<1			
Chromium, total	<8.0	<20.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene						<8			
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	<4.0	<4.0	<4.0	<4.0	<4.0	6.0	<4.0	<4.0	2.5
Copper, total	4.0	<4.0	7.3	9.2	5.3	15.8	<4.0	15.6	<4.0
Cyanide						<.007			
Dalapon									
Delta-bhc						<.05			
Diallate						<8			
Diallate (cis or trans)									
Dibenzo(a,h)anthracene						<8			
Dibenzofuran						<8			
Dibromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Dicamba									
Dichlorodifluoromethane						<1			
Dichloroprop									
Dieldrin						<.05			
Diethyl phthalate						<8			
Dimethoate						<.4			
Dimethyl phthalate						<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			
Endrin ketone									
Ethyl methacrylate						<10			
Ethyl methanesulfonate						<8			
Ethylbenzene	<1	<1	<1	<1	<1	<1		<1	<1
Famphur						<.4			
Fluoranthene						<8			

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

Table 9

Analytical Data Summary for MW90-14

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	4/10/2018	9/24/2018	11/1/2018
Alpha-chlordane									
Ammonia as n									
Anthracene									<8
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Azobenzene									<8
Barium, total	332	274	314	301	300	270	264	307	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene									<8
Benzo(a)pyrene									<8
Benzo(b)fluoranthene									<8
Benzo(g,h,i)perylene									<8
Benzo(k)fluoranthene									<8
Benzyl alcohol									<8
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc									<.05
Bis(2-chloroethoxy)methane									<8
Bis(2-chloroethyl)ether									<8
Bis(2-chloroisopropyl) ether									<8
Bis(2-ethylhexyl)phthalate									12
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	<.80	1.80	<.80	<.80	1.30	<.80	<.80	<.80	<.80
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chemical oxygen demand									
Chlordane									<.1
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate									<8
Chlorodibromomethane									
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene									<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene									<8
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	2.4	<.8	1.0	<.8	.8	<.8	<.8	<.8	1.3
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide									<.005
Dalapon									
Delta-bhc									<.05
Diallate									<8
Diallate (cis or trans)									
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
Dicamba									
Dichlorodifluoromethane									<1
Dichloroprop									
Dieldrin									<.05
Diethyl phthalate									<8
Dimethoate									<.4
Dimethyl phthalate									<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
Endrin ketone									
Ethyl methacrylate									<10
Ethyl methanesulfonate									<8
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur									<.4
Fluoranthene									<8

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

Table 9

Analytical Data Summary for MW90-14

Constituents	4/16/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	4/5/2023
Alpha-chlordane									
Ammonia as n									
Anthracene									
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Azobenzene									
Barium, total	199	300	321	503	272	313	255	245	134
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc									
Bis(2-chloroethoxy)methane									
Bis(2-chloroethyl)ether									
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate	6	9	<6	<6	<6	<6			
Bis[2-chloroisopropyl]ether									
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate									
Cadmium, total	<.80	.90	1.70	1.20	1.00	<.80	.80	<.80	<.80
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chemical oxygen demand									
Chlordane									
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate									
Chlorodibromomethane									
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene									
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene									
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	.5	1.7	.6	.7	<.4	2.4	<.4
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide									
Dalapon									
Delta-bhc									
Diallate									
Diallate (cis or trans)									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dicamba									
Dichlorodifluoromethane									
Dichloroprop									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan i									
Endosulfan ii									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Endrin ketone									
Ethyl methacrylate									
Ethyl methanesulfonate									
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur									
Fluoranthene									

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

Table 9

Analytical Data Summary for MW90-14

Constituents	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
Alpha-chlordane					
Ammonia as n					
Anthracene	<8				
Antimony, total	<2	<2	<2	<1	<1
Arsenic, total	<4.00	<4.00	<4.00	<2.00	<2.00
Azobenzene	<8				
Barium, total	381	263	237	316	261
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene	<8				
Benzo(a)pyrene	<8				
Benzo(b)fluoranthene	<8				
Benzo(g,h,i)perylene	<8				
Benzo(k)fluoranthene	<8				
Benzyl alcohol	<8				
Beryllium, total	<4.0	<4.0	<4.0	<.5	<.5
Beta-bhc	<.05				
Bis(2-chloroethoxy)methane	<8				
Bis(2-chloroethyl)ether	<8				
Bis(2-chloroisopropyl) ether					
Bis(2-ethylhexyl)phthalate	<6				
Bis[2-chloroisopropyl]ether	<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				
Cadmium, total	<.80	<.80	1.30	2.50	1.40
Carbon disulfide	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1
Chemical oxygen demand					
Chlordane	<.1				
Chloride					
Chlorobenzene	<1	<1	<1	<1	<1
Chlorobenzilate	<8				
Chlorodibromomethane					
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1
Chloroprene	<1				
Chromium, total	<8.0	<8.0	<8.0	1.4	<1.0
Chrysene	<8				
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1
Cobalt, total	.9	<.4	.4	<.5	<.5
Copper, total	<4.0	<4.0	<4.0	<5.0	<5.0
Cyanide	<.005				
Dalapon					
Delta-bhc	<.05				
Diallate	<8				
Diallate (cis or trans)					
Dibenzo(a,h)anthracene	<8				
Dibenzofuran	<8				
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Dicamba					
Dichlorodifluoromethane	<1				
Dichloroprop					
Dieldrin	<.05				
Diethyl phthalate	<8				
Dimethoate	<.4				
Dimethyl phthalate	<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				
Endrin ketone					
Ethyl methacrylate	<10				
Ethyl methanesulfonate	<8				
Ethylbenzene	<1	<1	<1	<1	<1
Famphur	<.4				
Fluoranthene	<8				

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

Table 9

Analytical Data Summary for MW90-14

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Fluorene	ug/L		<10						
Gamma-bhc (lindane)	ug/L		<.05						
Gamma-chlordane	ug/L		<.05						
Heptachlor	ug/L		<.05						
Heptachlor epoxide	ug/L		<.05						
Hexachlorobenzene	ug/L		<10.00						
Hexachlorobutadiene	ug/L		<10						
Hexachlorocyclopentadiene	ug/L		<10						
Hexachloroethane	ug/L		<10						
Hexachloropropene	ug/L		<10						
Indeno(1,2,3-cd)pyrene	ug/L		<10						
Iodomethane	ug/L		<10		<10	<10	<1	<1	<1
Iron, dissolved	mg/L	.219		5.700					
Iron, total	mg/L	.219		5.700					
Isobutanol	ug/L		<10						
Isodrin	ug/L		<10						
Isophorone	ug/L		<10						
Isosafrole	ug/L		<10						
Kepone	ug/L		<10						
Lead, total	ug/L		5.86		8.27	7.78	6.20	<4.00	<4.00
Mcpa	ug/L		<500						
Mcpp	ug/L		<500						
Mercury, total	ug/L		<.2						
Methacrylonitrile	ug/L		<1						
Methapyrilene	ug/L		<10						
Methoxychlor	ug/L		<.05						
Methyl methacrylate	ug/L		<2						
Methyl methanesulfonate	ug/L		<10						
Methyl parathion	ug/L								
Methylene chloride	ug/L		<10		<5	<5	<5	<5	<5
Naphthalene	ug/L		<5						
Nickel, total	ug/L		69.7		65.3	<50.0	59.1	31.5	45.2
Nitrobenzene	ug/L		<10						
N-nitrosodiethylamine	ug/L		<10						
N-nitrosodimethylamine	ug/L		<10						
N-nitrosodi-n-butylamine	ug/L		<10						
N-nitroso-di-n-propylamine	ug/L		<10						
N-nitrosodiphenylamine	ug/L		<10						
N-nitrosomethylethylamine	ug/L		<10						
N-nitrosopiperidine	ug/L		<10						
N-nitrosopyrrolidine	ug/L		<10						
O,o,o-triethyl phosphorothioate	ug/L		<30.0						
O-toluidine	ug/L		<10						
P-(dimethylamino)azobenzene	ug/L		<10						
Parathion	ug/L								
Parathion-ethyl	ug/L		<10						
Parathion-methyl	ug/L		<10						
Pcb-1016	ug/L		<.8						
Pcb-1221	ug/L		<.8						
Pcb-1232	ug/L		<.8						
Pcb-1242	ug/L		<.8						
Pcb-1248	ug/L		<.8						
Pcb-1254	ug/L		<.8						
Pcb-1260	ug/L		<.8						
Pcb-1268	ug/L		<.8						
Pentachlorobenzene	ug/L		<10						
Pentachloroethane	ug/L		<10						
Pentachloronitrobenzene	ug/L		<10						
Pentachlorophenol	ug/L		<8 *						
pH	units	6.97	<2.00	7.03	<2.00	6.57			
Phenacetin	ug/L		<10						
Phenanthrene	ug/L		<10						
Phenol	ug/L		<20						
Phorate	ug/L		<60.0						
Picloram	ug/L		<5						
Pronamide	ug/L		<10						
Propionitrile	ug/L		<10						
Pyrene	ug/L		<10						
Pyridine	ug/L		<10						
Safrole	ug/L		<10						
Selenium, total	ug/L		<5		<5	<5	<4	<4	<4
Silver, total	ug/L		<20		<20	<20	<4	<4	<4
Specific conductance	umhos/cm	1272		895		1625			
Styrene	ug/L		<1		<1	<1	<1	<1	<1
Sulfide, total	mg/L		<2.0						
Tetrachloroethene	ug/L		<1		<1	<1	<1	<1	<1
Thallium, total	ug/L		<2.0		<2.0	<2.0	<4.0	<4.0	<4.0

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

Table 9

Analytical Data Summary for MW90-14

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Fluorene						<.8			
Gamma-bhc (lindane)						<.05			
Gamma-chlordane									
Heptachlor						<.05			
Heptachlor epoxide						<.05			
Hexachlorobenzene						<4.03 *			
Hexachlorobutadiene						<.8			
Hexachlorocyclopentadiene						<.8			
Hexachloroethane						<.8			
Hexachloropropene						<.8			
Indeno(1,2,3-cd)pyrene						<.8			
Iodomethane	<1	<1	<1	<1	<1	<1		<1	<1
Iron, dissolved									
Iron, total									
Isobutanol						<1000			
Isodrin						<.8			
Isophorone						<.8			
Isosafrole						<.8			
Kepone						<.8			
Lead, total	<4.00	<4.00	4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Mcpa									
Mcpp									
Mercury, total						<.5			
Methacrylonitrile						<.1			
Methapyrilene						<.8			
Methoxychlor						<.05			
Methyl methacrylate						<.1			
Methyl methanesulfonate						<.8			
Methyl parathion						<.4			
Methylene chloride	<5	<5	<5	<5	<5	<.5		<5	<5
Naphthalene						<.8			
Nickel, total	45.5	33.9	36.6	26.4	24.1	60.2	13.9	31.1	34.0
Nitrobenzene						<.8			
N-nitrosodiethylamine						<.8			
N-nitrosodimethylamine						<.8			
N-nitrosodi-n-butylamine						<.8			
N-nitroso-di-n-propylamine						<.8			
N-nitrosodiphenylamine						<.8			
N-nitrosomethylethylamine									
N-nitrosopiperidine						<.8			
N-nitrosopyrrolidine						<.8			
O,o,o-triethyl phosphorothioate						<.4			
O-toluidine						<.8			
P-(dimethylamino)azobenzene						<.8			
Parathion						<.4			
Parathion-ethyl									
Parathion-methyl									
Pcb-1016						<.1			
Pcb-1221						<.2			
Pcb-1232						<.2			
Pcb-1242						<.2			
Pcb-1248						<.2			
Pcb-1254						<.1			
Pcb-1260						<.1			
Pcb-1268									
Pentachlorobenzene						<.8			
Pentachloroethane									
Pentachloronitrobenzene						<.8			
Pentachlorophenol						<.8			
pH									
Phenacetin						<.8			
Phenanthrene						<.8			
Phenol						<.8			
Phorate						<.4			
Picloram									
Pronamide						<.8			
Propionitrile						<10			
Pyrene						<.8			
Pyridine									
Safrole						<.8			
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1		<1	<1
Sulfide, total						<.1			
Tetrachloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0

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

Table 9

Analytical Data Summary for MW90-14

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	4/10/2018	9/24/2018	11/1/2018
Fluorene								<8	
Gamma-bhc (lindane)								<.05	
Gamma-chlordane									
Heptachlor								<.05	
Heptachlor epoxide								<.05	
Hexachlorobenzene								<.05	
Hexachlorobutadiene								<8	
Hexachlorocyclopentadiene								<8	
Hexachloroethane								<8	
Hexachloropropene								<8	
Indeno(1,2,3-cd)pyrene								<8	
Iodomethane	<1	<1	<1	<1	<1	<1	<1	<1	
Iron, dissolved									
Iron, total									
Isobutanol								<1000	
Isodrin								<8	
Isophorone								<8	
Isosafrole								<8	
Kepone								<8	
Lead, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	
Mcpa									
Mcpp									
Mercury, total								<.5	
Methacrylonitrile								<1	
Methapyriline								<8	
Methoxychlor								<.05	
Methyl methacrylate								<1	
Methyl methanesulfonate								<8	
Methyl parathion								<.4	
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	
Naphthalene								<8	
Nickel, total	18.3	20.8	36.1	21.3	31.9	30.9	20.1	35.0	
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	
Parathion-ethyl									
Parathion-methyl									
Pcb-1016								<.1	
Pcb-1221								<.2	
Pcb-1232								<.2	
Pcb-1242								<.2	
Pcb-1248								<.2	
Pcb-1254								<.1	
Pcb-1260								<.1	
Pcb-1268									
Pentachlorobenzene								<8	
Pentachloroethane									
Pentachloronitrobenzene								<8	
Pentachlorophenol								<8	
pH									
Phenacetin								<8	
Phenanthrene								<8	
Phenol								<8	
Phorate								<.4	
Picloram									
Pronamide								<8	
Propionitrile								<10	
Pyrene								<8	
Pyridine									
Safrole								<8	
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	
Sulfide, total								<.1	
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	
Thallium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	

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

Table 9

Analytical Data Summary for MW90-14

Constituents	4/16/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	4/5/2023
Fluorene									
Gamma-bhc (lindane)									
Gamma-chlordane									
Heptachlor									
Heptachlor epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Iodomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iron, dissolved									
Iron, total									
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepone									
Lead, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Mcpa									
Mcpp									
Mercury, total									
Methacrylonitrile									
Methapyriline									
Methoxychlor									
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									
Nickel, total	12.2	33.1	41.7	59.0	31.1	33.4	20.2	27.8	6.3
Nitrobenzene									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
P-(dimethylamino)azobenzene									
Parathion									
Parathion-ethyl									
Parathion-methyl									
Pcb-1016									
Pcb-1221									
Pcb-1232									
Pcb-1242									
Pcb-1248									
Pcb-1254									
Pcb-1260									
Pcb-1268									
Pentachlorobenzene									
Pentachloroethane									
Pentachloronitrobenzene									
Pentachlorophenol									
pH									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Picloram									
Pronamide									
Propionitrile									
Pyrene									
Pyridine									
Safrole									
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total									
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

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

Table 9

Analytical Data Summary for MW90-14

Constituents	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
Fluorene	<8				
Gamma-bhc (lindane)	<.05				
Gamma-chlordane					
Heptachlor	<.05				
Heptachlor epoxide	<.05				
Hexachlorobenzene	<.05				
Hexachlorobutadiene	<8				
Hexachlorocyclopentadiene	<8				
Hexachloroethane	<8				
Hexachloropropene	<8				
Indeno(1,2,3-cd)pyrene	<8				
Iodomethane	<2	<1	<1	<1	<1
Iron, dissolved					
Iron, total					
Isobutanol	<1000				
Isodrin	<8				
Isophorone	<8				
Isosafrole	<8				
Kepone	<8				
Lead, total	<4.00	<4.00	<4.00	<1.00	<1.00
Mcpa					
Mcpp					
Mercury, total	<.5				
Methacrylonitrile	<1				
Methapyriline	<8				
Methoxychlor	<.05				
Methyl methacrylate	<1				
Methyl methanesulfonate	<8				
Methyl parathion	<.4				
Methylene chloride	<5	<5	<5	<5	<5
Naphthalene	<8				
Nickel, total	36.5	13.1	12.9	10.8	17.6
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				
Parathion-ethyl					
Parathion-methyl					
Pcb-1016	<.2				
Pcb-1221	<.2				
Pcb-1232	<.2				
Pcb-1242	<.2				
Pcb-1248	<.2				
Pcb-1254	<.2				
Pcb-1260	<.2				
Pcb-1268					
Pentachlorobenzene	<8				
Pentachloroethane					
Pentachloronitrobenzene	<8				
Pentachlorophenol	<8				
pH					
Phenacetin	<8				
Phenanthrene	<8				
Phenol	<8				
Phorate	<.4				
Picloram					
Pronamide	<8				
Propionitrile	<10				
Pyrene	<8				
Pyridine					
Safrole	<8				
Selenium, total	<4	<4	<4	<2	<2
Silver, total	<4	<4	<4	<5	<5
Specific conductance					
Styrene	<1	<1	<1	<1	<1
Sulfide, total	<.1				
Tetrachloroethene	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<.5	<.5

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

Table 9

Analytical Data Summary for MW90-14

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Thionazin	ug/L		<10.0						
Tin, total	ug/L		<100						
Toluene	ug/L		<1		<1	<1	<1	<1	<1
Total organic halides	mg/L			.0324 *					
Total suspended solids	mg/L								
Toxaphene	ug/L		<2.0						
Trans-1,2-dichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L		<5		<5	<5	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L		<10		<10	<10	<5	<5	<5
Trichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L		<4		<4	<4	<1	<1	<1
Vanadium, total	ug/L		<50.0		<50.0	<50.0	14.4	<10.0	<10.0
Vinyl acetate	ug/L		<2		<2	<2	<5	<5	<5
Vinyl chloride	ug/L		<1		<1	<1	<1	<1	<1
Xylenes, total	ug/L		<3		<3	<3	<2	<2	<2
Zinc, total	ug/L		106.0		51.2	57.9	38.5	20.1	<10.0

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

Table 9

Analytical Data Summary for MW90-14

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Thionazin						<.4			
Tin, total						<20			
Toluene	<1	<1	<1	<1	<1	<1		<1	<1
Total organic halides									
Total suspended solids									43
Toxaphene						<.2			
Trans-1,2-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5		<5	<5
Trichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	26.4	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2		<2	<2
Zinc, total	<8.0	<8.0	13.7	<8.0	13.7	21.3	8.7	<20.0	8.9

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

Table 9

Analytical Data Summary for MW90-14

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	4/10/2018	9/24/2018	11/1/2018
Thionazin								<.4	
Tin, total								<20	
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	
Total organic halides									
Total suspended solids	36	5	4	<2	297	16	3	6	
Toxaphene								<.2	
Trans-1,2-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	
Zinc, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<20.0	<8.0	

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

Table 9

Analytical Data Summary for MW90-14

Constituents	4/16/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	4/5/2023
Thionazin									
Tin, total									
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total organic halides									
Total suspended solids	4	2	10	23					
Toxaphene									
Trans-1,2-dichloroethene	<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
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	9.6	<20.0	<20.0	<20.0	<20.0	<20.0	20.0	<20.0

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

Table 9

Analytical Data Summary for MW90-14

Constituents	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
Thionazin	<.4				
Tin, total	<20				
Toluene	<1	<1	<1	<1	<1
Total organic halides					
Total suspended solids					
Toxaphene	<.2				
Trans-1,2-dichloroethene	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5
Trichloroethene	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<2.0	<2.0
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<5.0	7.8

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

Table 9

Analytical Data Summary for MW90-17

Constituents	Units	3/21/2008	9/2/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010	4/5/2011	9/6/2011	3/16/2012
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-dichloroethene	ug/L				<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L				<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L				<1	<1	<1	<1	<1	<1
1,2-dibromoethane (edb)	ug/L				<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L				<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L				<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L				<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L				<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L				<5	<5	<5	<5	<5	<5
2-hexanone	ug/L				<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L				<5	<5	<5	<5	<5	<5
Acetone	ug/L				<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	ug/L				<5	<5	<5	<5	<5	<5
Ammonia as n	mg/L	<.2 *	<.2 *	<.2 *						
Antimony, total	ug/L				<1	<2	<5	<2	<2	<2
Arsenic, dissolved	ug/L			<1 *						
Arsenic, total	ug/L				<4	<4	<10	<4	<4	<4
Barium, dissolved	ug/L			170 *						
Barium, total	ug/L				199	171	169	215	207	196
Benzene	ug/L				<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L				<4.0	<4.0	<10.0	<4.0	<4.0	<4.0
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
Cadmium, dissolved	mg/L			<.0005 *						
Cadmium, total	ug/L				<1.0	<1.0	<2.5	<.8	<.8	<.8
Carbon disulfide	ug/L				<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L				<1	<1	<1	<1	<1	<1
Chemical oxygen demand	mg/L	<5 *	<5 *	<5 *						
Chloride	mg/L	<5 *	<5 *	<5 *						
Chlorobenzene	ug/L				<1	<1	<1	<1	<1	<1
Chloroethane	ug/L				<1	<1	<1	<1	<1	<1
Chloroform	ug/L				<1	<1	<1	<1	<1	<1
Chloromethane	ug/L				<1	<1	<1	<1	<1	<1
Chromium, total	ug/L				<10.0	<10.0	<25.0	<8.0	<20.0	<8.0
Cis-1,2-dichloroethene	ug/L				<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L				<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L				<4.0	<4.0	<10.0	<4.0	<4.0	<4.0
Copper, total	ug/L				<4	<4	<10	<4	<4	<4
Dibromochloromethane	ug/L				<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L				<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L				<1	<1	<1	<1	<1	<1
Iodomethane	ug/L				<1	<1	<1	<1	<1	<1
Iron, dissolved	mg/L	<.1	<.1	<.1 *						
Iron, total	mg/L	<.1	<.1							
Lead, total	ug/L				<4	<4	<10	<4	<4	<4
Methylene chloride	ug/L				<5	<5	<5	<5	<5	<5
Nickel, total	ug/L				<4.0	<4.0	<10.0	7.1	4.8	4.8
pH	units	7.60	7.68	7.97						
Phenol	ug/L		<20 *							
Selenium, total	ug/L				<4	<4	<10	<4	<4	<4
Silver, total	ug/L				<4	<4	<10	<4	<4	<4
Specific conductance	umhos/cm	652	566	738						
Styrene	ug/L				<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L				<1	<1	<1	<1	<1	<1
Thallium, total	ug/L				<4.0	<4.0	<10.0	<4.0	<4.0	<2.0
Toluene	ug/L				<1	<1	<1	<1	<1	<1
Total organic halides	mg/L		<.01 *							
Total suspended solids	mg/L									
Trans-1,2-dichloroethene	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
Trichloroethene	ug/L				<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L				<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L				<10.0	<10.0	<25.0	20.1	<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, dissolved	mg/L			.023 *						
Zinc, total	ug/L				<10.0	10.5	<25.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW90-17

Constituents	9/24/2012	4/24/2013	9/20/2013	4/8/2014	9/22/2014	3/20/2015	9/17/2015	3/17/2016	8/26/2016
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane (edb)	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ammonia as n									
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, dissolved									
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, dissolved									
Barium, total	185	183	351	261	212	257	234	246	266
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, dissolved									
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chemical oxygen demand									
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<4.0	<4.0	<4.0	<4.0	<.8	<.8	<.8	<.8	<.8
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iron, dissolved									
Iron, total									
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	5.3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
pH									
Phenol									
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total organic halides									
Total suspended solids					6	8	4	3	<2
Trans-1,2-dichloroethene	<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
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, dissolved									
Zinc, total	<8.0	<8.0	<20.0	<20.0	<8.0	<8.0	<8.0	<8.0	8.3

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

Table 9

Analytical Data Summary for MW90-17

Constituents	4/11/2017	9/23/2017	11/15/2017	4/10/2018	9/24/2018	11/1/2018	4/16/2019	8/29/2019	9/23/2019
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-dichloroethene	<1	<1		<1	<1		<1	<1	
1,2,3-trichloropropane	<1	<1		<1	<1		<1	<1	
1,2-dibromo-3-chloropropane	<1	<1		<1	<1		<1	<1	
1,2-dibromoethane (edb)	<1	<1		<1	<1		<1	<1	
1,2-dichlorobenzene	<1	<1		<1	<1		<1	<1	
1,2-dichloroethane	<1	<1		<1	<1		<1	<1	
1,2-dichloropropane	<1	<1		<1	<1		<1	<1	
1,4-dichlorobenzene	<1	<1		<1	<1		<1	<1	
2-butanone (mek)	<5	<5		<5	<5		<5	<5	
2-hexanone	<5	<5		<5	<5		<5	<5	
4-methyl-2-pentanone (mibk)	<5	<5		<5	<5		<5	<5	
Acetone	<10.0	12.9	<10.0	<10.0	<10.0		<10.0	<10.0	
Acrylonitrile	<5	<5		<5	<5		<5	<5	
Ammonia as n									
Antimony, total	<2	<2		<2	<2		<2	<2	
Arsenic, dissolved									
Arsenic, total	<4	<4		<4	<4		<4	<4	
Barium, dissolved									
Barium, total	234	275		242	259		242	281	
Benzene	<1	<1		<1	<1		<1	<1	
Beryllium, total	<4.0	<4.0		<4.0	<4.0		<4.0	<4.0	
Bromochloromethane	<1	<1		<1	<1		<1	<1	
Bromodichloromethane	<1	<1		<1	<1		<1	<1	
Bromoform	<1	<1		<1	<1		<1	<1	
Bromomethane	<1	<1		<1	<1		<1	<1	
Cadmium, dissolved									
Cadmium, total	<.8	<.8		<.8	1.1	<.8	<.8	<.8	
Carbon disulfide	<1	<1		<1	<1		<1	<1	
Carbon tetrachloride	<1	<1		<1	<1		<1	<1	
Chemical oxygen demand									
Chloride									
Chlorobenzene	<1	<1		<1	<1		<1	<1	
Chloroethane	<1	<1		<1	<1		<1	<1	
Chloroform	<1	<1		<1	<1		<1	<1	
Chloromethane	<1	<1		<1	<1		<1	<1	
Chromium, total	<8.0	<8.0		<8.0	<8.0		<8.0	<8.0	
Cis-1,2-dichloroethene	<1	<1		<1	<1		<1	<1	
Cis-1,3-dichloropropene	<1	<1		<1	<1		<1	<1	
Cobalt, total	<.8	<.8		<.8	<.8		<.8	<.8	
Copper, total	<4	<4		<4	<4		<4	<4	
Dibromochloromethane	<1	<1		<1	<1		<1	<1	
Dibromomethane	<1	<1		<1	<1		<1	<1	
Ethylbenzene	<1	<1		<1	<1		<1	<1	
Iodomethane	<1	<1		<1	<1		<1	<1	
Iron, dissolved									
Iron, total									
Lead, total	<4	<4		<4	<4		<4	<4	
Methylene chloride	<5	<5		<5	<5		<5	<5	
Nickel, total	<4.0	<4.0		<4.0	<4.0		<4.0	<4.0	
pH									
Phenol									
Selenium, total	<4	<4		<4	<4		<4	<4	
Silver, total	<4	<4		<4	<4		<4	<4	
Specific conductance									
Styrene	<1	<1		<1	<1		<1	<1	
Tetrachloroethene	<1	<1		<1	<1		<1	<1	
Thallium, total	<4.0	<4.0		<4.0	<4.0		<2.0	<2.0	
Toluene	<1	<1		<1	<1		<1	<1	
Total organic halides									
Total suspended solids	76	4		<2	2		<2	<2	
Trans-1,2-dichloroethene	<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	
Trichloroethene	<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	<20.0	
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, dissolved									
Zinc, total	<8.0	<8.0		<20.0	<8.0		<8.0	37.8	<8.0 *

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

Table 9

Analytical Data Summary for MW90-17

Constituents	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	4/5/2023	10/13/2023	4/18/2024
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane (edb)	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<10	<10	<10	<10	<10
2-hexanone	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ammonia as n									
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, dissolved									
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, dissolved									
Barium, total	274	281	265	251	299	288	307	314	310
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, dissolved									
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chemical oxygen demand									
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Copper, total	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iron, dissolved									
Iron, total									
Lead, total	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Methylene chloride	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
pH									
Phenol									
Selenium, total	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Silver, total	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total organic halides									
Total suspended solids	4	2							
Trans-1,2-dichloroethene	<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
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, dissolved									
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW90-17

Constituents	10/15/2024	4/16/2025	10/27/2025
1,1,1,2-tetrachloroethane	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1
1,1-dichloroethane	<1	<1	<1
1,1-dichloroethene	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5
1,2-dibromoethane (edb)	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1
1,2-dichloroethane	<1	<1	<1
1,2-dichloropropane	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1
2-butanone (mek)	<10	<10	<10
2-hexanone	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5
Acetone	<10.0	<10.0	<10.0
Acrylonitrile	<5	<5	<5
Ammonia as n			
Antimony, total	<2	<1	<1
Arsenic, dissolved			
Arsenic, total	<4	<2	<2
Barium, dissolved			
Barium, total	280	337	321
Benzene	<1	<1	<1
Beryllium, total	<4.0	<.5	<.5
Bromochloromethane	<1	<1	<1
Bromodichloromethane	<1	<1	<1
Bromoform	<1	<1	<1
Bromomethane	<1	<1	<1
Cadmium, dissolved			
Cadmium, total	<.8	<.2	<.2
Carbon disulfide	<1	<1	4
Carbon tetrachloride	<1	<1	<1
Chemical oxygen demand			
Chloride			
Chlorobenzene	<1	<1	<1
Chloroethane	<1	<1	<1
Chloroform	<1	<1	<1
Chloromethane	<1	<1	<1
Chromium, total	<8.0	2.8	2.8
Cis-1,2-dichloroethene	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1
Cobalt, total	<.4	<.5	<.5
Copper, total	<4	<5	<5
Dibromochloromethane	<1	<1	<1
Dibromomethane	<1	<1	<1
Ethylbenzene	<1	<1	<1
Iodomethane	<1	<1	<1
Iron, dissolved			
Iron, total			
Lead, total	<4	<1	<1
Methylene chloride	<5	<5	<5
Nickel, total	<4.0	<5.0	<5.0
pH			
Phenol			
Selenium, total	<4	<2	<2
Silver, total	<4	<5	<5
Specific conductance			
Styrene	<1	<1	<1
Tetrachloroethene	<1	<1	<1
Thallium, total	<2.0	<.5	<.5
Toluene	<1	<1	<1
Total organic halides			
Total suspended solids			
Trans-1,2-dichloroethene	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5
Trichloroethene	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1
Vanadium, total	<20.0	<2.0	<2.0
Vinyl acetate	<5	<5	<5
Vinyl chloride	<1	<1	<1
Xylenes, total	<2	<2	<2
Zinc, dissolved			
Zinc, total	<20.0	<5.0	33.7

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

Table 9

Analytical Data Summary for MW90-4

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
(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-dichloroethene	ug/L		<2		<2	<2	<1	<1	<1
1,1-dichloropropene	ug/L		<1						
1,2,3-trichloropropane	ug/L		<1		<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L		<10						
1,2,4-trichlorobenzene	ug/L		<8 *						
1,2-dibromo-3-chloropropane	ug/L		<10.00		<.86	<.86	<1.00	<1.00	<1.00
1,2-dibromoethane (edb)	ug/L		<10.00		<.25	<.25	<1.00	<1.00	<1.00
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		<10						
1,3-dichlorobenzene	ug/L		<1						
1,3-dichloropropane	ug/L		<1						
1,3-dinitrobenzene	ug/L		<10						
1,4-dichlorobenzene	ug/L		<1		<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L		<10						
1,4-phenylenediamine	ug/L		<10						
1-naphthylamine	ug/L		<10						
2,2-dichloropropane	ug/L		<4						
2,3,4,6-tetrachlorophenol	ug/L		<10						
2,4,5-t	ug/L		<.556						
2,4,5-tp (silvex)	ug/L		<.556						
2,4,5-trichlorophenol	ug/L		<10						
2,4,6-trichlorophenol	ug/L		<10						
2,4-d	ug/L		<.556						
2,4-db	ug/L		<.556						
2,4-dichlorophenol	ug/L		<10						
2,4-dimethylphenol	ug/L		<10						
2,4-dinitrophenol	ug/L		<10						
2,4-dinitrotoluene	ug/L		<10						
2,6-dichlorophenol	ug/L		<10						
2,6-dinitrotoluene	ug/L		<10						
2-acetylaminofluorene	ug/L		<10						
2-butanone (mek)	ug/L		<10		<10	<10	<5	<5	<5
2-chloronaphthalene	ug/L		<10						
2-chlorophenol	ug/L		<10						
2-hexanone	ug/L		<10		<10	<10	<5	<5	<5
2-methylnaphthalene	ug/L		<10						
2-methylphenol (o-cresol)	ug/L		<10						
2-naphthylamine	ug/L		<10						
2-nitroaniline	ug/L		<10						
2-nitrophenol	ug/L		<10						
3,3'-dichlorobenzidine	ug/L		<85						
3,3'-dimethylbenzidine	ug/L		<20						
3/4-methylphenol	ug/L		<10						
3-methylcholanthrene	ug/L		<10						
3-nitroaniline	ug/L		<10						
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		<10						
4-aminobiphenyl	ug/L		<20						
4-bromophenyl phenyl ether	ug/L		<10						
4-chloro-3-methylphenol	ug/L		<10						
4-chloroaniline	ug/L		<10						
4-chlorophenyl phenyl ether	ug/L		<10						
4-methyl-2-pentanone (mibk)	ug/L		<10		<10	<10	<5	<5	<5
4-nitroaniline	ug/L		<10						
4-nitrophenol	ug/L		<5.278 *						
5-nitro-o-toluidine	ug/L		<10						
7,12-dimethylbenz (a) anthracene	ug/L		<10						
Acenaphthene	ug/L		<10 *						
Acetone	ug/L		<10		<10	<10	<10	<10	<10
Acetonitrile	ug/L		<10						
Acetophenone	ug/L		<10						
Acrolein	ug/L		<10						
Acrylonitrile	ug/L		<10		<10	<10	<5	<5	<5
Aldrin	ug/L		<.05						
Allyl chloride	ug/L		<2						
Alpha-bhc	ug/L		<.05						

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

Table 9

Analytical Data Summary for MW90-4

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
(3,4)-methylphenol									
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene									
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
1,4-naphthoquinone									
1,4-phenylenediamine									
1-naphthylamine									
2,2-dichloropropane									
2,3,4,6-tetrachlorophenol									
2,4,5-t									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-db									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone (mek)	<5	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene									
2-chlorophenol									
2-hexanone	<5	<5	<5	<5	<5	<5		<5	<5
2-methylnaphthalene									
2-methylphenol (o-cresol)									
2-naphthylamine									
2-nitroaniline									
2-nitrophenol									
3,3'-dichlorobenzidine									
3,3'-dimethylbenzidine									
3/4-methylphenol									
3-methylcholanthrene									
3-nitroaniline									
4,4'-ddd									
4,4'-dde									
4,4'-ddt									
4,6-dinitro-2-methylphenol									
4-aminobiphenyl									
4-bromophenyl phenyl ether									
4-chloro-3-methylphenol									
4-chloroaniline									
4-chlorophenyl phenyl ether									
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz (a) anthracene									
Acenaphthene									
Acetone	<10	<10	<10	<10	<10	<10		<10	<10
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5	<5	<5	<5	<5	<5		<5	<5
Aldrin									
Allyl chloride									
Alpha-bhc									

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

Table 9

Analytical Data Summary for MW90-4

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	11/15/2017	4/10/2018	9/24/2018
(3,4)-methylphenol			<8						
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene			<1						
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene			<8						
1,2,4-trichlorobenzene			<1						
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dinitrobenzene			<8						
1,3,5-trinitrobenzene			<8						
1,3-dichlorobenzene			<1						
1,3-dichloropropane			<1						
1,3-dinitrobenzene			<8						
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
1,4-naphthoquinone			<8						
1,4-phenylenediamine			<8						
1-naphthylamine			<8						
2,2-dichloropropane			<1						
2,3,4,6-tetrachlorophenol			<8						
2,4,5-t			<.500						
2,4,5-tp (silvex)			<.500						
2,4,5-trichlorophenol			<8						
2,4,6-trichlorophenol			<8						
2,4-d			<2.000						
2,4-db			<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 (mek)	<5	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene			<8						
2-chlorophenol			<8						
2-hexanone	<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						
3/4-methylphenol			<8						
3-methylcholanthrene			<8						
3-nitroaniline			<8						
4,4'-ddd			<.05						
4,4'-dde			<.05						
4,4'-ddt			<.05						
4,6-dinitro-2-methylphenol			<8						
4-aminobiphenyl			<8						
4-bromophenyl phenyl ether			<8						
4-chloro-3-methylphenol			<8						
4-chloroaniline			<8						
4-chlorophenyl phenyl ether			<8						
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline			<8						
4-nitrophenol			<8.000						
5-nitro-o-toluidine			<8						
7,12-dimethylbenz (a) anthracene			<8						
Acenaphthene			<8 *						
Acetone	<10	<10	<10	<10	<10	<10		<10	<10
Acetonitrile			<10						
Acetophenone			<8						
Acrolein			<10						
Acrylonitrile	<5	<5	<5	<5	<5	<5		<5	<5
Aldrin			<.05						
Allyl chloride			<1						
Alpha-bhc			<.05						

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

Table 9

Analytical Data Summary for MW90-4

Constituents	4/16/2019	6/25/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022
(3,4)-methylphenol						<8			
1,1,1,2-tetrachloroethane	<1		<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1		<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1		<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1		<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1		<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	<1		<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene						<1			
1,2,3-trichloropropane	<1		<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene						<8			
1,2,4-trichlorobenzene						<1			
1,2-dibromo-3-chloropropane	<1.00		<1.00	<5.00	<5.00	<1.00	<5.00	<5.00	<5.00
1,2-dibromoethane (edb)	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1		<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1		<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1		<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene						<8			
1,3,5-trinitrobenzene						<8			
1,3-dichlorobenzene						<1			
1,3-dichloropropane						<1			
1,3-dinitrobenzene						<8			
1,4-dichlorobenzene	<1		<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone						<8			
1,4-phenylenediamine						<8			
1-naphthylamine						<8			
2,2-dichloropropane						<1			
2,3,4,6-tetrachlorophenol						<8			
2,4,5-t						<.500			
2,4,5-tp (silvex)						<.500			
2,4,5-trichlorophenol						<8			
2,4,6-trichlorophenol						<8			
2,4-d						<2.000			
2,4-db									
2,4-dichlorophenol						<8			
2,4-dimethylphenol						<8			
2,4-dinitrophenol						<8			
2,4-dinitrotoluene						<8			
2,6-dichlorophenol						<8			
2,6-dinitrotoluene						<8			
2-acetylaminofluorene						<8			
2-butanone (mek)	<5		<5	<5	<5	<5	<5	<10	<10
2-chloronaphthalene						<8			
2-chlorophenol						<8			
2-hexanone	<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			
3/4-methylphenol									
3-methylcholanthrene						<8			
3-nitroaniline						<8			
4,4'-ddd						<.05			
4,4'-dde						<.05			
4,4'-ddt						<.05			
4,6-dinitro-2-methylphenol						<8			
4-aminobiphenyl						<8			
4-bromophenyl phenyl ether						<8			
4-chloro-3-methylphenol						<8			
4-chloroaniline						<8			
4-chlorophenyl phenyl ether						<8			
4-methyl-2-pentanone (mibk)	<5		<5	<5	<5	<5	<5	<5	<5
4-nitroaniline						<8			
4-nitrophenol						<8.000			
5-nitro-o-toluidine						<8			
7,12-dimethylbenz (a) anthracene						<8			
Acenaphthene						<8 *			
Acetone	<10		<10	<10	<10	<10	<10	<10	<10
Acetonitrile						<10			
Acetophenone						<8			
Acrolein						<10			
Acrylonitrile	<5		<5	<5	<5	<5	<5	<5	<5
Aldrin						<.05			
Allyl chloride						<1			
Alpha-bhc						<.05			

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

Table 9

Analytical Data Summary for MW90-4

Constituents	1/4/2023	4/5/2023	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
(3,4)-methylphenol							
1,1,1,2-tetrachloroethane		<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane		<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane		<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane		<1	<1	<1	<1	<1	<1
1,1-dichloroethane		<1	<1	<1	<1	<1	<1
1,1-dichloroethene		<1	<1	<1	<1	<1	<1
1,1-dichloropropene							
1,2,3-trichloropropane		<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene							
1,2,4-trichlorobenzene							
1,2-dibromo-3-chloropropane		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane (edb)		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene		<1	<1	<1	<1	<1	<1
1,2-dichloroethane		<1	<1	<1	<1	<1	<1
1,2-dichloropropane		<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene							
1,3,5-trinitrobenzene							
1,3-dichlorobenzene							
1,3-dichloropropane							
1,3-dinitrobenzene							
1,4-dichlorobenzene		<1	<1	<1	<1	<1	<1
1,4-naphthoquinone							
1,4-phenylenediamine							
1-naphthylamine							
2,2-dichloropropane							
2,3,4,6-tetrachlorophenol							
2,4,5-t							
2,4,5-tp (silvex)							
2,4,5-trichlorophenol							
2,4,6-trichlorophenol							
2,4-d							
2,4-db							
2,4-dichlorophenol							
2,4-dimethylphenol							
2,4-dinitrophenol							
2,4-dinitrotoluene							
2,6-dichlorophenol							
2,6-dinitrotoluene							
2-acetylaminofluorene							
2-butanone (mek)		<10	<10	<10	<10	<10	<10
2-chloronaphthalene							
2-chlorophenol							
2-hexanone		<5	<5	<5	<5	<5	<5
2-methylnaphthalene							
2-methylphenol (o-cresol)							
2-naphthylamine							
2-nitroaniline							
2-nitrophenol							
3,3'-dichlorobenzidine							
3,3'-dimethylbenzidine							
3/4-methylphenol							
3-methylcholanthrene							
3-nitroaniline							
4,4'-ddd							
4,4'-dde							
4,4'-ddt							
4,6-dinitro-2-methylphenol							
4-aminobiphenyl							
4-bromophenyl phenyl ether							
4-chloro-3-methylphenol							
4-chloroaniline							
4-chlorophenyl phenyl ether							
4-methyl-2-pentanone (mibk)		<5	<5	<5	<5	<5	<5
4-nitroaniline							
4-nitrophenol							
5-nitro-o-toluidine							
7,12-dimethylbenz (a) anthracene							
Acenaphthene							
Acetone		<10	<10	<10	<10	<10	<10
Acetonitrile							
Acetophenone							
Acrolein							
Acrylonitrile		<5	<5	<5	<5	<5	<5
Aldrin							
Allyl chloride							
Alpha-bhc							

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

Table 9

Analytical Data Summary for MW90-4

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Alpha-chlordane	ug/L		<.05						
Ammonia as n	mg/L	<.2 *							
Anthracene	ug/L		<10						
Antimony, total	ug/L		<6		<6	<6	<1	<2	<2
Arsenic, total	ug/L		<1.00		<1.00	6.87	<4.00	<4.00	<4.00
Azobenzene	ug/L								
Barium, total	ug/L		336		469	444	512	315	420
Benzene	ug/L		<.5		<.5	<.5	<1.0	<1.0	<1.0
Benzo(a)anthracene	ug/L		<10						
Benzo(a)pyrene	ug/L		<10						
Benzo(b)fluoranthene	ug/L		<10						
Benzo(g,h,i)perylene	ug/L		<10						
Benzo(k)fluoranthene	ug/L		<10						
Benzyl alcohol	ug/L		<10						
Beryllium, total	ug/L		<1.00		<1.00	1.31	<4.00	<4.00	<4.00
Beta-bhc	ug/L								
Bis(2-chloroethoxy)methane	ug/L		<10						
Bis(2-chloroethyl)ether	ug/L		<10						
Bis(2-chloroisopropyl) ether	ug/L		<10						
Bis(2-ethylhexyl)phthalate	ug/L		<10						
Bis[2-chloroisopropyl]ether	ug/L								
Bromochloromethane	ug/L		<5		<5	<5	<1	<1	<1
Bromodichloromethane	ug/L		<1		<1	<1	<1	<1	<1
Bromoform	ug/L		<5		<5	<5	<1	<1	<1
Bromomethane	ug/L		<4		<4	<4	<1	<1	<1
Butyl benzyl phthalate	ug/L		<10						
Cadmium, total	ug/L		<.5		<.5	<.5	<1.0	<1.0	<1.0
Carbon disulfide	ug/L		<1		<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L		<2		<2	<2	<1	<1	<1
Chemical oxygen demand	mg/L	<5.0 *	14.2	13.5 *					
Chlordane	ug/L								
Chloride	mg/L	64.4 *	49.8	63.8 *					
Chlorobenzene	ug/L		<1		<1	<1	<1	<1	<1
Chlorobenzilate	ug/L		<10						
Chlorodibromomethane	ug/L		<5		<5	<5			
Chloroethane	ug/L		<4		<4	<4	<1	<1	<1
Chloroform	ug/L		<1		<1	<1	<1	<1	<1
Chloromethane	ug/L		<3		<3	<3	<1	<1	<1
Chloroprene	ug/L		<1						
Chromium, total	ug/L		<20.0		<20.0	<20.0	<10.0	<10.0	<10.0
Chrysene	ug/L		<10						
Cis-1,2-dichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L		<5		<5	<5	<1	<1	<1
Cobalt, total	ug/L		<20.0		<20.0	<20.0	<4.0	<4.0	<4.0
Copper, total	ug/L		<20.0		<20.0	<20.0	7.2	<4.0	5.2
Cyanide	mg/L		<.010						
Dalapon	ug/L		<1.11						
Delta-bhc	ug/L								
Diallate	ug/L								
Diallate (cis or trans)	ug/L		<10						
Dibenzo(a,h)anthracene	ug/L		<10						
Dibenzofuran	ug/L		<10						
Dibromochloromethane	ug/L						<1	<1	<1
Dibromomethane	ug/L		<1		<1	<1	<1	<1	<1
Dicamba	ug/L		<.556						
Dichlorodifluoromethane	ug/L		<3						
Dichloroprop	ug/L		<.556						
Dieldrin	ug/L		<.05						
Diethyl phthalate	ug/L		<10						
Dimethoate	ug/L		<10.0						
Dimethyl phthalate	ug/L		<10						
Di-n-butyl phthalate	ug/L		<10						
Di-n-octyl phthalate	ug/L		<10						
Dinoseb	ug/L		<5.278 *						
Diphenylamine	ug/L		<10						
Disulfoton	ug/L		<70.0						
Endosulfan i	ug/L		<.05						
Endosulfan ii	ug/L		<.05						
Endosulfan sulfate	ug/L		<.05						
Endrin	ug/L		<.05						
Endrin aldehyde	ug/L		<.05						
Endrin ketone	ug/L		<.05						
Ethyl methacrylate	ug/L		<2						
Ethyl methanesulfonate	ug/L		<10						
Ethylbenzene	ug/L		<1		<1	<1	<1	<1	<1
Famphur	ug/L		<20.0						
Fluoranthene	ug/L		<10						

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

Table 9

Analytical Data Summary for MW90-4

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Alpha-chlordane									
Ammonia as n									
Anthracene									
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4.00	<4.00	<4.00	<4.00	<4.00	4.50	<4.00	<4.00	<4.00
Azobenzene									
Barium, total	427	499	399	322	233	679	329	379	383
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Beta-bhc									
Bis(2-chloroethoxy)methane									
Bis(2-chloroethyl)ether									
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate									
Bis[2-chloroisopropyl]ether									
Bromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromoform	<1	<1	<1	<1	<1	<1		<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate									
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1		<1	<1
Chemical oxygen demand									
Chlordane									
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate									
Chlorodibromomethane									
Chloroethane	<1	<1	<1	<1	<1	<1		<1	<1
Chloroform	<1	<1	<1	<1	<1	<1		<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Chloroprene									
Chromium, total	<8.0	<20.0	<8.0	<8.0	<8.0	9.9	<8.0	<8.0	<8.0
Chrysene									
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<.8
Copper, total	5.4	7.5	4.8	4.5	<4.0	10.6	<4.0	6.0	<4.0
Cyanide									
Dalapon									
Delta-bhc									
Diallate									
Diallate (cis or trans)									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Dicamba									
Dichlorodifluoromethane									
Dichloroprop									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan i									
Endosulfan ii									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Endrin ketone									
Ethyl methacrylate									
Ethyl methanesulfonate									
Ethylbenzene	<1	<1	<1	<1	<1	<1		<1	<1
Famphur									
Fluoranthene									

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

Table 9

Analytical Data Summary for MW90-4

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	11/15/2017	4/10/2018	9/24/2018
Alpha-chlordane									
Ammonia as n									
Anthracene			<8						
Antimony, total	<2	<2	<2	<2	<2	<2		<2	<2
Arsenic, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00		<4.00	<4.00
Azobenzene			<8						
Barium, total	434	437	381	381	332	362	339	340	306
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Benzo(a)anthracene			<8						
Benzo(a)pyrene			<8						
Benzo(b)fluoranthene			<8						
Benzo(g,h,i)perylene			<8						
Benzo(k)fluoranthene			<8						
Benzyl alcohol			<8						
Beryllium, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00		<4.00	<4.00
Beta-bhc			<.05						
Bis(2-chloroethoxy)methane			<8						
Bis(2-chloroethyl)ether			<8						
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate			<8						
Bis[2-chloroisopropyl]ether			<8						
Bromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromoform	<1	<1	<1	<1	<1	<1		<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate			<8						
Cadmium, total	<.8	1.2	<.8	<.8	<.8	<.8		<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1		<1	<1
Chemical oxygen demand									
Chlordane			<.1						
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate			<8						
Chlorodibromomethane									
Chloroethane	<1	<1	<1	<1	<1	<1		<1	<1
Chloroform	<1	<1	<1	<1	<1	<1		<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Chloroprene			<1						
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0		<8.0	<8.0
Chrysene			<8						
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.8	<.8		<.8	<.8
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Cyanide			<.005						
Dalapon									
Delta-bhc			<.05						
Diallate			<8						
Diallate (cis or trans)									
Dibenzo(a,h)anthracene			<8						
Dibenzofuran			<8						
Dibromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Dicamba									
Dichlorodifluoromethane			<1						
Dichloroprop									
Dieldrin			<.05						
Diethyl phthalate			<8						
Dimethoate			<.4						
Dimethyl phthalate			<8						
Di-n-butyl phthalate			<8						
Di-n-octyl phthalate			<8						
Dinoseb			<.500						
Diphenylamine			<8						
Disulfoton			<.4						
Endosulfan i			<.05						
Endosulfan ii			<.05						
Endosulfan sulfate			<.05						
Endrin			<.05						
Endrin aldehyde			<.05						
Endrin ketone									
Ethyl methacrylate			<10						
Ethyl methanesulfonate			<8						
Ethylbenzene	<1	<1	<1	<1	<1	<1		<1	<1
Famphur			<.4						
Fluoranthene			<8						

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

Table 9

Analytical Data Summary for MW90-4

Constituents	4/16/2019	6/25/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022
Alpha-chlordane									
Ammonia as n									
Anthracene						<8			
Antimony, total	<2		<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4.00		<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Azobenzene						<8			
Barium, total	361	433	359	377	385	298	377	348	351
Benzene	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene						<8			
Benzo(a)pyrene						<8			
Benzo(b)fluoranthene						<8			
Benzo(g,h,i)perylene						<8			
Benzo(k)fluoranthene						<8			
Benzyl alcohol						<8			
Beryllium, total	<4.00		<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Beta-bhc						<.05			
Bis(2-chloroethoxy)methane						<8			
Bis(2-chloroethyl)ether						<8			
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate						9		<6	14
Bis[2-chloroisopropyl]ether						<8			
Bromochloromethane	<1		<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1		<1	<1	<1	<1	<1	<1	<1
Bromoform	<1		<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1		<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate						<8			
Cadmium, total	<.8		<.8	<.8	<.8	.8	<.8	<.8	3.1
Carbon disulfide	<1		<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1		<1	<1	<1	<1	<1	<1	<1
Chemical oxygen demand									
Chlordane						<.1			
Chloride									
Chlorobenzene	<1		<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate						<8			
Chlorodibromomethane									
Chloroethane	<1		<1	<1	<1	<1	<1	<1	<1
Chloroform	<1		<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1		<1	<1	<1	<1	<1	<1	<1
Chloroprene						<1			
Chromium, total	<8.0		<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene						<8			
Cis-1,2-dichloroethene	<1		<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1		<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8		<.8	<.4	<.4	<.4	<.4	<.4	2.0
Copper, total	<4.0		<4.0	<4.0	12.1	<4.0	<4.0	<4.0	<4.0
Cyanide						<.005			
Dalapon									
Delta-bhc						<.05			
Diallate						<8			
Diallate (cis or trans)									
Dibenzo(a,h)anthracene						<8			
Dibenzofuran						<8			
Dibromochloromethane	<1		<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1		<1	<1	<1	<1	<1	<1	<1
Dicamba									
Dichlorodifluoromethane						<1			
Dichloroprop									
Dieldrin						<.05			
Diethyl phthalate						<8			
Dimethoate						<.4			
Dimethyl phthalate						<8			
Di-n-butyl phthalate						<8			
Di-n-octyl phthalate						<8			
Dinoseb						<.500			
Diphenylamine						<8			
Disulfoton						<.4			
Endosulfan i						<.05			
Endosulfan ii						<.05			
Endosulfan sulfate						<.05			
Endrin						<.05			
Endrin aldehyde						<.05			
Endrin ketone									
Ethyl methacrylate						<10			
Ethyl methanesulfonate						<8			
Ethylbenzene	<1		<1	<1	<1	<1	<1	<1	<1
Famphur						<.4			
Fluoranthene						<8			

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

Table 9

Analytical Data Summary for MW90-4

Constituents	1/4/2023	4/5/2023	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
Alpha-chlordane							
Ammonia as n							
Anthracene							
Antimony, total		<2	<2	<2	<2	<1	<1
Arsenic, total		<4.00	<4.00	<4.00	<4.00	<2.00	<2.00
Azobenzene							
Barium, total		320	342	375	381	377	403
Benzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene							
Benzo(a)pyrene							
Benzo(b)fluoranthene							
Benzo(g,h,i)perylene							
Benzo(k)fluoranthene							
Benzyl alcohol							
Beryllium, total		<4.00	<4.00	<4.00	<4.00	<.50	<.50
Beta-bhc							
Bis(2-chloroethoxy)methane							
Bis(2-chloroethyl)ether							
Bis(2-chloroisopropyl) ether							
Bis(2-ethylhexyl)phthalate		<6	<6				
Bis[2-chloroisopropyl]ether							
Bromochloromethane		<1	<1	<1	<1	<1	<1
Bromodichloromethane		<1	<1	<1	<1	<1	<1
Bromoform		<1	<1	<1	<1	<1	<1
Bromomethane		<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate							
Cadmium, total	<.8	<.8	<.8	<.8	1.3	<.2	.6
Carbon disulfide		<1	<1	<1	<1	<1	<1
Carbon tetrachloride		<1	<1	<1	<1	<1	<1
Chemical oxygen demand							
Chlordane							
Chloride							
Chlorobenzene		<1	<1	<1	<1	<1	<1
Chlorobenzilate							
Chlorodibromomethane							
Chloroethane		<1	<1	<1	<1	<1	<1
Chloroform		<1	<1	<1	<1	<1	<1
Chloromethane		<1	<1	<1	<1	<1	<1
Chloroprene							
Chromium, total		<8.0	<8.0	<8.0	<8.0	1.0	1.1
Chrysene							
Cis-1,2-dichloroethene		<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene		<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4	<.5	<.5
Copper, total		<4.0	<4.0	<4.0	<4.0	<5.0	<5.0
Cyanide							
Dalapon							
Delta-bhc							
Diallate							
Diallate (cis or trans)							
Dibenzo(a,h)anthracene							
Dibenzofuran							
Dibromochloromethane		<1	<1	<1	<1	<1	<1
Dibromomethane		<1	<1	<1	<1	<1	<1
Dicamba							
Dichlorodifluoromethane							
Dichloroprop							
Dieldrin							
Diethyl phthalate							
Dimethoate							
Dimethyl phthalate							
Di-n-butyl phthalate							
Di-n-octyl phthalate							
Dinoseb							
Diphenylamine							
Disulfoton							
Endosulfan i							
Endosulfan ii							
Endosulfan sulfate							
Endrin							
Endrin aldehyde							
Endrin ketone							
Ethyl methacrylate							
Ethyl methanesulfonate							
Ethylbenzene		<1	<1	<1	<1	<1	<1
Famphur							
Fluoranthene							

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

Table 9

Analytical Data Summary for MW90-4

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Fluorene	ug/L		<10						
Gamma-bhc (lindane)	ug/L		<.05						
Gamma-chlordane	ug/L		<.05						
Heptachlor	ug/L		<.05						
Heptachlor epoxide	ug/L		<.05						
Hexachlorobenzene	ug/L		<10.00						
Hexachlorobutadiene	ug/L		<10						
Hexachlorocyclopentadiene	ug/L		<10						
Hexachloroethane	ug/L		<10						
Hexachloropropene	ug/L		<10						
Indeno(1,2,3-cd)pyrene	ug/L		<10						
Iodomethane	ug/L		<10		<10	<10	<1	<1	<1
Iron, dissolved	mg/L	<.1		<.1					
Iron, total	mg/L	<.1		<.1					
Isobutanol	ug/L		<10						
Isodrin	ug/L		<10						
Isophorone	ug/L		<10						
Isosafrole	ug/L		<10						
Kepone	ug/L		<10						
Lead, total	ug/L		<4.00		<4.00	8.04	<4.00	<4.00	<4.00
Mcpa	ug/L		<55.6						
Mcpp	ug/L		<55.6						
Mercury, total	ug/L		<.2						
Methacrylonitrile	ug/L		<1						
Methapyrilene	ug/L		<10						
Methoxychlor	ug/L		<.05						
Methyl methacrylate	ug/L		<2						
Methyl methanesulfonate	ug/L		<10						
Methyl parathion	ug/L								
Methylene chloride	ug/L		<10		<5	<5	<5	<5	<5
Naphthalene	ug/L		<5						
Nickel, total	ug/L		<50.0		<50.0	<50.0	11.4	6.6	10.2
Nitrobenzene	ug/L		<10						
N-nitrosodiethylamine	ug/L		<10						
N-nitrosodimethylamine	ug/L		<10						
N-nitrosodi-n-butylamine	ug/L		<10						
N-nitroso-di-n-propylamine	ug/L		<10						
N-nitrosodiphenylamine	ug/L		<10						
N-nitrosomethylethylamine	ug/L		<10						
N-nitrosopiperidine	ug/L		<10						
N-nitrosopyrrolidine	ug/L		<10						
O,o,o-triethyl phosphorothioate	ug/L		<30.0						
O-toluidine	ug/L		<10						
P-(dimethylamino)azobenzene	ug/L		<10						
Parathion	ug/L								
Parathion-ethyl	ug/L		<10						
Parathion-methyl	ug/L		<10						
Pcb-1016	ug/L		<.8						
Pcb-1221	ug/L		<.8						
Pcb-1232	ug/L		<.8						
Pcb-1242	ug/L		<.8						
Pcb-1248	ug/L		<.8						
Pcb-1254	ug/L		<.8						
Pcb-1260	ug/L		<.8						
Pcb-1268	ug/L		<.8						
Pentachlorobenzene	ug/L		<10						
Pentachloroethane	ug/L		<10						
Pentachloronitrobenzene	ug/L		<10						
Pentachlorophenol	ug/L		<5.278 *						
pH	units	7.17	<2.00	7.16	<2.00	6.84			
Phenacetin	ug/L		<10						
Phenanthrene	ug/L		<10						
Phenol	ug/L		<20						
Phorate	ug/L		<60.0						
Picloram	ug/L		<.556						
Pronamide	ug/L		<10						
Propionitrile	ug/L		<10						
Pyrene	ug/L		<10						
Pyridine	ug/L		<10						
Safrole	ug/L		<10						
Selenium, total	ug/L		<5		<5	<5	<4	<4	<4
Silver, total	ug/L		<20		<20	<20	<4	<4	<4
Specific conductance	umhos/cm	900		734		1063			
Styrene	ug/L		<1		<1	<1	<1	<1	<1
Sulfide, total	mg/L		<2.0		<1	<1	<1	<1	<1
Tetrachloroethene	ug/L		<1		<1	<1	<1	<1	<1
Thallium, total	ug/L		<2.0		<2.0	<2.0	<4.0	<4.0	<4.0

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

Table 9

Analytical Data Summary for MW90-4

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Fluorene									
Gamma-bhc (lindane)									
Gamma-chlordane									
Heptachlor									
Heptachlor epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Iodomethane	<1	<1	<1	<1	<1	<1		<1	<1
Iron, dissolved									
Iron, total									
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepone									
Lead, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Mcpa									
Mcpp									
Mercury, total									
Methacrylonitrile									
Methapyriline									
Methoxychlor									
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride	<5	<5	<5	<5	<5	<5		<5	<5
Naphthalene									
Nickel, total	14.8	13.4	9.4	9.1	6.0	13.9	5.4	10.4	<4.0
Nitrobenzene									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
P-(dimethylamino)azobenzene									
Parathion									
Parathion-ethyl									
Parathion-methyl									
Pcb-1016									
Pcb-1221									
Pcb-1232									
Pcb-1242									
Pcb-1248									
Pcb-1254									
Pcb-1260									
Pcb-1268									
Pentachlorobenzene									
Pentachloroethane									
Pentachloronitrobenzene									
Pentachlorophenol									
pH									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Picloram									
Pronamide									
Propionitrile									
Pyrene									
Pyridine									
Safrole									
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1		<1	<1
Sulfide, total									
Tetrachloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0

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

Table 9

Analytical Data Summary for MW90-4

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	11/15/2017	4/10/2018	9/24/2018
Fluorene			<8						
Gamma-bhc (lindane)			<.05						
Gamma-chlordane									
Heptachlor			<.05						
Heptachlor epoxide			<.05						
Hexachlorobenzene			<.05						
Hexachlorobutadiene			<8						
Hexachlorocyclopentadiene			<8						
Hexachloroethane			<8						
Hexachloropropene			<8						
Indeno(1,2,3-cd)pyrene			<8						
Iodomethane	<1	<1	<1	<1	<1	<1		<1	<1
Iron, dissolved									
Iron, total									
Isobutanol			<1000						
Isodrin			<8						
Isophorone			<8						
Isosafrole			<8						
Kepone			<8						
Lead, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00		<4.00	<4.00
Mcpa									
Mcpp									
Mercury, total			<.5						
Methacrylonitrile			<1						
Methapyriline			<8						
Methoxychlor			<.05						
Methyl methacrylate			<1						
Methyl methanesulfonate			<8						
Methyl parathion			<.4						
Methylene chloride	<5	<5	<5	<5	<5	<5		<5	<5
Naphthalene			<8						
Nickel, total	4.3	<4.0	4.3	<4.0	<4.0	<4.0		<4.0	<4.0
Nitrobenzene			<8						
N-nitrosodiethylamine			<8						
N-nitrosodimethylamine			<8						
N-nitrosodi-n-butylamine			<8						
N-nitroso-di-n-propylamine			<8						
N-nitrosodiphenylamine			<8						
N-nitrosomethylethylamine			<8						
N-nitrosopiperidine			<8						
N-nitrosopyrrolidine			<8						
O,o,o-triethyl phosphorothioate			<.4						
O-toluidine			<8						
P-(dimethylamino)azobenzene			<8						
Parathion			<.4						
Parathion-ethyl									
Parathion-methyl									
Pcb-1016			<.1						
Pcb-1221			<.2						
Pcb-1232			<.2						
Pcb-1242			<.2						
Pcb-1248			<.2						
Pcb-1254			<.1						
Pcb-1260			<.1						
Pcb-1268									
Pentachlorobenzene			<8						
Pentachloroethane									
Pentachloronitrobenzene			<8						
Pentachlorophenol			<8.000						
pH									
Phenacetin			<8						
Phenanthrene			<8						
Phenol			<8						
Phorate			<.4						
Picloram									
Pronamide			<8						
Propionitrile			<10						
Pyrene			<8						
Pyridine									
Safrole			<8						
Selenium, total	<4	<4	<4	<4	<4	<4		<4	<4
Silver, total	<4	<4	<4	<4	<4	<4		<4	<4
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1		<1	<1
Sulfide, total			<.1						
Tetrachloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Thallium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0

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

Table 9

Analytical Data Summary for MW90-4

Constituents	4/16/2019	6/25/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022
Fluorene						<8			
Gamma-bhc (lindane)						<.05			
Gamma-chlordane									
Heptachlor						<.05			
Heptachlor epoxide						<.05			
Hexachlorobenzene						<.05			
Hexachlorobutadiene						<8			
Hexachlorocyclopentadiene						<8			
Hexachloroethane						<8			
Hexachloropropene						<8			
Indeno(1,2,3-cd)pyrene						<8			
Iodomethane	<1		<1	<1	<1	<2	<1	<1	<1
Iron, dissolved									
Iron, total									
Isobutanol						<1000			
Isodrin						<8			
Isophorone						<8			
Isosafrole						<8			
Kepone						<8			
Lead, total	<4.00		<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Mcpa									
Mcpp									
Mercury, total						<.5			
Methacrylonitrile						<1			
Methapyriline						<8			
Methoxychlor						<.05			
Methyl methacrylate						<1			
Methyl methanesulfonate						<8			
Methyl parathion						<.4			
Methylene chloride	<5		<5	<5	<5	<5	<5	<5	<5
Naphthalene						<8			
Nickel, total	4.2		<4.0	<4.0	11.0	<4.0	<4.0	<4.0	4.1
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			
Parathion-ethyl									
Parathion-methyl									
Pcb-1016						<.1			
Pcb-1221						<.2			
Pcb-1232						<.2			
Pcb-1242						<.2			
Pcb-1248						<.2			
Pcb-1254						<.1			
Pcb-1260						<.1			
Pcb-1268									
Pentachlorobenzene						<8			
Pentachloroethane									
Pentachloronitrobenzene						<8			
Pentachlorophenol						<8.000			
pH									
Phenacetin						<8			
Phenanthrene						<8			
Phenol						<8			
Phorate						<.4			
Picloram									
Pronamide						<8			
Propionitrile						<10			
Pyrene						<8			
Pyridine									
Safrole						<8			
Selenium, total	<4		<4	<4	<4	<4	<4	<4	<4
Silver, total	<4		<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1		<1	<1	<1	<1	<1	<1	<1
Sulfide, total						<.1			
Tetrachloroethene	<1		<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

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

Table 9

Analytical Data Summary for MW90-4

Constituents	1/4/2023	4/5/2023	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
Fluorene							
Gamma-bhc (lindane)							
Gamma-chlordane							
Heptachlor							
Heptachlor epoxide							
Hexachlorobenzene							
Hexachlorobutadiene							
Hexachlorocyclopentadiene							
Hexachloroethane							
Hexachloropropene							
Indeno(1,2,3-cd)pyrene							
Iodomethane		<1	<1	<1	<1	<1	<1
Iron, dissolved							
Iron, total							
Isobutanol							
Isodrin							
Isophorone							
Isosafrole							
Kepone							
Lead, total		<4.00	<4.00	<4.00	<4.00	<1.00	<1.00
Mcpa							
Mcpp							
Mercury, total							
Methacrylonitrile							
Methapyrilene							
Methoxychlor							
Methyl methacrylate							
Methyl methanesulfonate							
Methyl parathion							
Methylene chloride		<5	<5	<5	<5	<5	<5
Naphthalene							
Nickel, total		<4.0	4.3	<4.0	<4.0	<5.0	<5.0
Nitrobenzene							
N-nitrosodiethylamine							
N-nitrosodimethylamine							
N-nitrosodi-n-butylamine							
N-nitroso-di-n-propylamine							
N-nitrosodiphenylamine							
N-nitrosomethylethylamine							
N-nitrosopiperidine							
N-nitrosopyrrolidine							
O,o,o-triethyl phosphorothioate							
O-toluidine							
P-(dimethylamino)azobenzene							
Parathion							
Parathion-ethyl							
Parathion-methyl							
Pcb-1016							
Pcb-1221							
Pcb-1232							
Pcb-1242							
Pcb-1248							
Pcb-1254							
Pcb-1260							
Pcb-1268							
Pentachlorobenzene							
Pentachloroethane							
Pentachloronitrobenzene							
Pentachlorophenol							
pH							
Phenacetin							
Phenanthrene							
Phenol							
Phorate							
Picloram							
Pronamide							
Propionitrile							
Pyrene							
Pyridine							
Safrole							
Selenium, total		<4	<4	<4	<4	<2	<2
Silver, total		<4	<4	<4	<4	<5	<5
Specific conductance							
Styrene		<1	<1	<1	<1	<1	<1
Sulfide, total							
Tetrachloroethene		<1	<1	<1	<1	<1	<1
Thallium, total		<2.0	<2.0	<2.0	<2.0	<5	<5

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

Table 9

Analytical Data Summary for MW90-4

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Thionazin	ug/L		<10.0						
Tin, total	ug/L		<100						
Toluene	ug/L		<1		<1	<1	<1	<1	<1
Total organic halides	mg/L			.0322 *					
Total suspended solids	mg/L								
Toxaphene	ug/L		<2.0						
Trans-1,2-dichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L		<5		<5	<5	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L		<10		<10	<10	<5	<5	<5
Trichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L		<4		<4	<4	<1	<1	<1
Vanadium, total	ug/L		<50.0		<50.0	<50.0	15.3	<10.0	<10.0
Vinyl acetate	ug/L		<2		<2	<2	<5	<5	<5
Vinyl chloride	ug/L		<1		<1	<1	<1	<1	<1
Xylenes, total	ug/L		<3		<3	<3	<2	<2	<2
Zinc, total	ug/L		63.9		29.1	51.6	27.9	11.3	<10.0

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

Table 9

Analytical Data Summary for MW90-4

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Thionazin									
Tin, total									
Toluene	<1	<1	<1	<1	<1	<1		<1	<1
Total organic halides									
Total suspended solids									25
Toxaphene									
Trans-1,2-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5		<5	<5
Trichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	30.0	<20.0	<20.0	<20.0	<20.0	22.9	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2		<2	<2
Zinc, total	9.3	13.6	9.6	<8.0	<8.0	27.6	10.9	20.2	<8.0

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

Table 9

Analytical Data Summary for MW90-4

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	11/15/2017	4/10/2018	9/24/2018
Thionazin			<.4						
Tin, total			<20						
Toluene	<1	<1	<1	<1	<1	<1		<1	<1
Total organic halides									
Total suspended solids	52	26	13	13	67	38		16	26
Toxaphene			<.2						
Trans-1,2-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5		<5	<5
Trichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0		<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2		<2	<2
Zinc, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0		<20.0	<8.0

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

Table 9

Analytical Data Summary for MW90-4

Constituents	4/16/2019	6/25/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022
Thionazin						<.4			
Tin, total						<20			
Toluene	<1		<1	<1	<1	<1	<1	<1	<1
Total organic halides									
Total suspended solids	17		15	65	121				
Toxaphene						<.2			
Trans-1,2-dichloroethene	<1		<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1		<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5		<5	<5	<5	<5	<5	<5	<5
Trichloroethene	<1		<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1		<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0		<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5		<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1		<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2		<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0		26.8	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW90-4

Constituents	1/4/2023	4/5/2023	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
Thionazin							
Tin, total							
Toluene		<1	<1	<1	<1	<1	<1
Total organic halides							
Total suspended solids							
Toxaphene							
Trans-1,2-dichloroethene		<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
Trichloroethene		<1	<1	<1	<1	<1	<1
Trichlorofluoromethane		<1	<1	<1	<1	<1	<1
Vanadium, total		<20.0	<20.0	<20.0	<20.0	<2.0	<2.0
Vinyl acetate		<5	<5	<5	<5	<5	<5
Vinyl chloride		<1	<1	<1	<1	<1	<1
Xylenes, total		<2	<2	<2	<2	<2	<2
Zinc, total		<20.0	<20.0	<20.0	<20.0	<5.0	8.2

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

Table 9

Analytical Data Summary for MW90-7

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
(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-dichloroethene	ug/L		<2		<2	<2	<1	<1	<1
1,1-dichloropropene	ug/L		<1						
1,2,3-trichloropropane	ug/L		<1		<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L		<10						
1,2,4-trichlorobenzene	ug/L		<8 *						
1,2-dibromo-3-chloropropane	ug/L		<10.00		<.86	<.86	<1.00	<1.00	<1.00
1,2-dibromoethane (edb)	ug/L		<10.00		<.25	<.25	<1.00	<1.00	<1.00
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		<10						
1,3-dichlorobenzene	ug/L		<1						
1,3-dichloropropane	ug/L		<1						
1,3-dinitrobenzene	ug/L		<10						
1,4-dichlorobenzene	ug/L		<1		<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L		<10						
1,4-phenylenediamine	ug/L		<10						
1-naphthylamine	ug/L		<10						
2,2-dichloropropane	ug/L		<4						
2,3,4,6-tetrachlorophenol	ug/L		<10						
2,4,5-t	ug/L		<.526						
2,4,5-tp (silvex)	ug/L		<.526						
2,4,5-trichlorophenol	ug/L		<10						
2,4,6-trichlorophenol	ug/L		<10						
2,4-d	ug/L		<.526						
2,4-db	ug/L		<.526						
2,4-dichlorophenol	ug/L		<10						
2,4-dimethylphenol	ug/L		<10						
2,4-dinitrophenol	ug/L		<10						
2,4-dinitrotoluene	ug/L		<10						
2,6-dichlorophenol	ug/L		<10						
2,6-dinitrotoluene	ug/L		<10						
2-acetylaminofluorene	ug/L		<10						
2-butanone (mek)	ug/L		<10		<10	<10	<5	<5	<5
2-chloronaphthalene	ug/L		<10						
2-chlorophenol	ug/L		<10						
2-hexanone	ug/L		<10		<10	<10	<5	<5	<5
2-methylnaphthalene	ug/L		<10						
2-methylphenol (o-cresol)	ug/L		<10						
2-naphthylamine	ug/L		<10						
2-nitroaniline	ug/L		<10						
2-nitrophenol	ug/L		<10						
3,3'-dichlorobenzidine	ug/L		<85						
3,3'-dimethylbenzidine	ug/L		<20						
3/4-methylphenol	ug/L		<10						
3-methylcholanthrene	ug/L		<10						
3-nitroaniline	ug/L		<10						
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		<10						
4-aminobiphenyl	ug/L		<20						
4-bromophenyl phenyl ether	ug/L		<10						
4-chloro-3-methylphenol	ug/L		<10						
4-chloroaniline	ug/L		<10						
4-chlorophenyl phenyl ether	ug/L		<10						
4-methyl-2-pentanone (mibk)	ug/L		<10		<10	<10	<5	<5	<5
4-nitroaniline	ug/L		<10						
4-nitrophenol	ug/L		<5.263 *						
5-nitro-o-toluidine	ug/L		<10						
7,12-dimethylbenz (a) anthracene	ug/L		<10						
Acenaphthene	ug/L		<10 *						
Acetone	ug/L		<10		<10	<10	<10	<10	<10
Acetonitrile	ug/L		<10						
Acetophenone	ug/L		<10						
Acrolein	ug/L		<10						
Acrylonitrile	ug/L		<10		<10	<10	<5	<5	<5
Aldrin	ug/L		<.05						
Allyl chloride	ug/L		<2						
Alpha-bhc	ug/L		<.05						

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

Table 9

Analytical Data Summary for MW90-7

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
(3,4)-methylphenol								<8	
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene								<1	
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene								<8	
1,2,4-trichlorobenzene								<1	
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dinitrobenzene								<8	
1,3,5-trinitrobenzene								<8	
1,3-dichlorobenzene								<1	
1,3-dichloropropane								<1	
1,3-dinitrobenzene								<8	
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
1,4-naphthoquinone								<8	
1,4-phenylenediamine								<8	
1-naphthylamine								<8	
2,2-dichloropropane								<1	
2,3,4,6-tetrachlorophenol								<8	
2,4,5-t								<.500	
2,4,5-tp (silvex)								<.500	
2,4,5-trichlorophenol								<8	
2,4,6-trichlorophenol								<8	
2,4-d								<2.000	
2,4-db									
2,4-dichlorophenol								<8	
2,4-dimethylphenol								<8	
2,4-dinitrophenol								<8	
2,4-dinitrotoluene								<8	
2,6-dichlorophenol								<8	
2,6-dinitrotoluene								<8	
2-acetylaminofluorene								<8	
2-butanone (mek)	<5	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene								<8	
2-chlorophenol								<8	
2-hexanone	<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	
3/4-methylphenol									
3-methylcholanthrene								<8	
3-nitroaniline								<8	
4,4'-ddd								<.05	
4,4'-dde								<.05	
4,4'-ddt								<.05	
4,6-dinitro-2-methylphenol								<8	
4-aminobiphenyl								<8	
4-bromophenyl phenyl ether								<8	
4-chloro-3-methylphenol								<8	
4-chloroaniline								<8	
4-chlorophenyl phenyl ether								<8	
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline								<8	
4-nitrophenol								<8.000	
5-nitro-o-toluidine								<8	
7,12-dimethylbenz (a) anthracene								<8	
Acenaphthene								<8 *	
Acetone	<10	<10	<10	<10	<10	<10		<10	<10
Acetonitrile								<10	
Acetophenone								<8	
Acrolein								<10	
Acrylonitrile	<5	<5	<5	<5	<5	<5		<5	<5
Aldrin								<.05	
Allyl chloride								<1	
Alpha-bhc								<.05	

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

Table 9

Analytical Data Summary for MW90-7

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	4/10/2018	9/24/2018	4/16/2019
(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-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									<8
1,2,4-trichlorobenzene									<1
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene									<8
1,3,5-trinitrobenzene									<8
1,3-dichlorobenzene									<1
1,3-dichloropropane									<1
1,3-dinitrobenzene									<8
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone									<8
1,4-phenylenediamine									<8
1-naphthylamine									<8
2,2-dichloropropane									<1
2,3,4,6-tetrachlorophenol									<8
2,4,5-t									<.500
2,4,5-tp (silvex)									<.500
2,4,5-trichlorophenol									<8
2,4,6-trichlorophenol									<8
2,4-d									<2.000
2,4-db									<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 (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5
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
3/4-methylphenol									<8
3-methylcholanthrene									<8
3-nitroaniline									<8
4,4'-ddd									<.05
4,4'-dde									<.05
4,4'-ddt									<.05
4,6-dinitro-2-methylphenol									<8
4-aminobiphenyl									<8
4-bromophenyl phenyl ether									<8
4-chloro-3-methylphenol									<8
4-chloroaniline									<8
4-chlorophenyl phenyl ether									<8
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline									<8
4-nitrophenol									<8.000
5-nitro-o-toluidine									<8
7,12-dimethylbenz (a) anthracene									<8 *
Acenaphthene									<10
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile									<8
Acetophenone									<10
Acrolein									<5
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<.05
Aldrin									<1
Allyl chloride									<.05
Alpha-bhc									<.05

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

Table 9

Analytical Data Summary for MW90-7

Constituents	6/25/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	4/5/2023
(3,4)-methylphenol									
1,1,1,2-tetrachloroethane		<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane		<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane		<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane		<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane		<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene		<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									
1,2,3-trichloropropane		<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane		<1.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-dibromoethane (edb)		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane		<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane		<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone									
1,4-phenylenediamine									
1-naphthylamine									
2,2-dichloropropane									
2,3,4,6-tetrachlorophenol									
2,4,5-t									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-db									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone (mek)		<5	<5	<5	<5	<5	<10	<10	<10
2-chloronaphthalene									
2-chlorophenol									
2-hexanone		<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene									
2-methylphenol (o-cresol)									
2-naphthylamine									
2-nitroaniline									
2-nitrophenol									
3,3'-dichlorobenzidine									
3,3'-dimethylbenzidine									
3/4-methylphenol									
3-methylcholanthrene									
3-nitroaniline									
4,4'-ddd									
4,4'-dde									
4,4'-ddt									
4,6-dinitro-2-methylphenol									
4-aminobiphenyl									
4-bromophenyl phenyl ether									
4-chloro-3-methylphenol									
4-chloroaniline									
4-chlorophenyl phenyl ether									
4-methyl-2-pentanone (mibk)		<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz (a) anthracene									
Acenaphthene									
Acetone		<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile		<5	<5	<5	<5	<5	<5	<5	<5
Aldrin									
Allyl chloride									
Alpha-bhc									

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

Table 9

Analytical Data Summary for MW90-7

Constituents	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
(3,4)-methylphenol		<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-dichloroethene	<1	<1	<1	<1	<1
1,1-dichloropropene		<1			
1,2,3-trichloropropane	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene		<8			
1,2,4-trichlorobenzene		<1			
1,2-dibromo-3-chloropropane	<5.00	<1.00	<5.00	<5.00	<5.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00	<1.00	<1.00
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			
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
1,4-naphthoquinone		<8			
1,4-phenylenediamine		<8			
1-naphthylamine		<8			
2,2-dichloropropane		<1			
2,3,4,6-tetrachlorophenol		<8			
2,4,5-t		<.500			
2,4,5-tp (silvex)		<.500			
2,4,5-trichlorophenol		<8			
2,4,6-trichlorophenol		<8			
2,4-d		<2.000			
2,4-db					
2,4-dichlorophenol		<8			
2,4-dimethylphenol		<8			
2,4-dinitrophenol		<8			
2,4-dinitrotoluene		<8			
2,6-dichlorophenol		<8			
2,6-dinitrotoluene		<8			
2-acetylaminofluorene		<8			
2-butanone (mek)	<10	<5	<10	<10	<10
2-chloronaphthalene		<8			
2-chlorophenol		<8			
2-hexanone	<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			
3/4-methylphenol					
3-methylcholanthrene		<8			
3-nitroaniline		<8			
4,4'-ddd		<.05			
4,4'-dde		<.05			
4,4'-ddt		<.05			
4,6-dinitro-2-methylphenol		<8			
4-aminobiphenyl		<8			
4-bromophenyl phenyl ether		<8			
4-chloro-3-methylphenol		<8			
4-chloroaniline		<8			
4-chlorophenyl phenyl ether		<8			
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5
4-nitroaniline		<8			
4-nitrophenol		<8.000			
5-nitro-o-toluidine		<8			
7,12-dimethylbenz (a) anthracene		<8			
Acenaphthene		<8 *			
Acetone	<10	<10	<10	<10	<10
Acetonitrile		<10			
Acetophenone		<8			
Acrolein		<10			
Acrylonitrile	<5	<5	<5	<5	<5
Aldrin		<.05			
Allyl chloride		<1			
Alpha-bhc		<.05			

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

Table 9

Analytical Data Summary for MW90-7

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Alpha-chlordane	ug/L		<.05						
Ammonia as n	mg/L	<.2 *							
Anthracene	ug/L		<10						
Antimony, total	ug/L		<6		<6	<6	<1	<2	<2
Arsenic, total	ug/L		2.96		15.60	7.89	<4.00	<4.00	<4.00
Azobenzene	ug/L								
Barium, total	ug/L		249.0		368.0	289.0	303.0	204.0	275.0
Benzene	ug/L		<.5		<.5	<.5	<1.0	<1.0	<1.0
Benzo(a)anthracene	ug/L		<10						
Benzo(a)pyrene	ug/L		<10						
Benzo(b)fluoranthene	ug/L		<10						
Benzo(g,h,i)perylene	ug/L		<10						
Benzo(k)fluoranthene	ug/L		<10						
Benzyl alcohol	ug/L		<10						
Beryllium, total	ug/L		<1.0		<1.0	<1.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L								
Bis(2-chloroethoxy)methane	ug/L		<10						
Bis(2-chloroethyl)ether	ug/L		<10						
Bis(2-chloroisopropyl) ether	ug/L		<10						
Bis(2-ethylhexyl)phthalate	ug/L		<10						
Bis[2-chloroisopropyl]ether	ug/L								
Bromochloromethane	ug/L		<5		<5	<5	<1	<1	<1
Bromodichloromethane	ug/L		<1		<1	<1	<1	<1	<1
Bromoform	ug/L		<5		<5	<5	<1	<1	<1
Bromomethane	ug/L		<4		<4	<4	<1	<1	<1
Butyl benzyl phthalate	ug/L		<10						
Cadmium, total	ug/L		.591		1.460	.515	<1.000	<1.000	<1.000
Carbon disulfide	ug/L		<1		<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L		<2		<2	<2	<1	<1	<1
Chemical oxygen demand	mg/L	<5.0 *	19.9						
Chlordane	ug/L								
Chloride	mg/L	257 *	198	168 *					
Chlorobenzene	ug/L		<1		<1	<1	<1	<1	<1
Chlorobenzilate	ug/L		<10						
Chlorodibromomethane	ug/L		<5		<5	<5			
Chloroethane	ug/L		<4		<4	<4	<1	<1	<1
Chloroform	ug/L		<1		<1	<1	<1	<1	<1
Chloromethane	ug/L		<3		<3	<3	<1	<1	<1
Chloroprene	ug/L		<1						
Chromium, total	ug/L		<20		<20	<20	<10	<10	<10
Chrysene	ug/L		<10						
Cis-1,2-dichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L		<5		<5	<5	<1	<1	<1
Cobalt, total	ug/L		<20.0		<20.0	<20.0	4.8	<4.0	<4.0
Copper, total	ug/L		<20		<20	<20	<4	<4	<4
Cyanide	mg/L		<.010						
Dalapon	ug/L		<1.05						
Delta-bhc	ug/L								
Diallate	ug/L								
Diallate (cis or trans)	ug/L		<10						
Dibenzo(a,h)anthracene	ug/L		<10						
Dibenzofuran	ug/L		<10						
Dibromochloromethane	ug/L						<1	<1	<1
Dibromomethane	ug/L		<1		<1	<1	<1	<1	<1
Dicamba	ug/L		<.526						
Dichlorodifluoromethane	ug/L		<3						
Dichloroprop	ug/L		<.526						
Dieldrin	ug/L		<.05						
Diethyl phthalate	ug/L		<10						
Dimethoate	ug/L		<10.0						
Dimethyl phthalate	ug/L		<10						
Di-n-butyl phthalate	ug/L		<10						
Di-n-octyl phthalate	ug/L		<10						
Dinoseb	ug/L		<5.263 *						
Diphenylamine	ug/L		<10						
Disulfoton	ug/L		<70.0						
Endosulfan i	ug/L		<.05						
Endosulfan ii	ug/L		<.05						
Endosulfan sulfate	ug/L		<.05						
Endrin	ug/L		<.05						
Endrin aldehyde	ug/L		<.05						
Endrin ketone	ug/L		<.05						
Ethyl methacrylate	ug/L		<2						
Ethyl methanesulfonate	ug/L		<10						
Ethylbenzene	ug/L		<1		<1	<1	<1	<1	<1
Famphur	ug/L		<20.0						
Fluoranthene	ug/L		<10						

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

Table 9

Analytical Data Summary for MW90-7

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Alpha-chlordane									
Ammonia as n									
Anthracene								<8	
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	7.10	<4.00	5.30	<4.00	6.20	11.80	6.40	7.50	4.60
Azobenzene								<8	
Barium, total	260.0	262.0	259.0	12.5	164.0	402.0	250.0	289.0	189.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Benzo(a)anthracene								<8	
Benzo(a)pyrene								<8	
Benzo(b)fluoranthene								<8	
Benzo(g,h,i)perylene								<8	
Benzo(k)fluoranthene								<8	
Benzyl alcohol								<8	
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc								<.05	
Bis(2-chloroethoxy)methane								<8	
Bis(2-chloroethyl)ether								<8	
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate								<8	
Bis[2-chloroisopropyl]ether								<8	
Bromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromoform	<1	<1	<1	<1	<1	<1		<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate								<8	
Cadmium, total	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1		<1	<1
Chemical oxygen demand									
Chlordane								<1	
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate								<8	
Chlorodibromomethane									
Chloroethane	<1	<1	<1	<1	<1	<1		<1	<1
Chloroform	<1	<1	<1	<1	<1	<1		<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Chloroprene								<1	
Chromium, total	<8	<20	<8	<8	<8	<8	<8	<8	<8
Chrysene								<8	
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	<4.0	<4.0	4.3	4.4	<4.0	5.7	<4.0	6.3	2.7
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide								<.005	
Dalapon									
Delta-bhc								<.05	
Diallate								<8	
Diallate (cis or trans)									
Dibenzo(a,h)anthracene								<8	
Dibenzofuran								<8	
Dibromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Dicamba									
Dichlorodifluoromethane								<1	
Dichloroprop									
Dieldrin								<.05	
Diethyl phthalate								<8	
Dimethoate								<.4	
Dimethyl phthalate								<8	
Di-n-butyl phthalate								<8	
Di-n-octyl phthalate								<8	
Dinoseb								<.500	
Diphenylamine								<8	
Disulfoton								<.4	
Endosulfan i								<.05	
Endosulfan ii								<.05	
Endosulfan sulfate								<.05	
Endrin								<.05	
Endrin aldehyde								<.05	
Endrin ketone									
Ethyl methacrylate								<10	
Ethyl methanesulfonate								<8	
Ethylbenzene	<1	<1	<1	<1	<1	<1		<1	<1
Famphur								<.4	
Fluoranthene								<8	

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

Table 9

Analytical Data Summary for MW90-7

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	4/10/2018	9/24/2018	4/16/2019
Alpha-chlordane									
Ammonia as n									
Anthracene									<8
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	4.30	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Azobenzene									<8
Barium, total	255.0	271.0	259.0	302.0	267.0	284.0	251.0	250.0	253.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene									<8
Benzo(a)pyrene									<8
Benzo(b)fluoranthene									<8
Benzo(g,h,i)perylene									<8
Benzo(k)fluoranthene									<8
Benzyl alcohol									<8
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc									<.05
Bis(2-chloroethoxy)methane									<8
Bis(2-chloroethyl)ether									<8
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate									9
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	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chemical oxygen demand									
Chlordane									<.1
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate									<8
Chlorodibromomethane									
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene									<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene									<8
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	4.6	6.5	<.8	6.6	1.5	2.5	1.9	5.1	<.8
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide									<.005
Dalapon									
Delta-bhc									<.05
Diallate									<8
Diallate (cis or trans)									
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
Dicamba									
Dichlorodifluoromethane									<1
Dichloroprop									
Dieldrin									<.05
Diethyl phthalate									<8
Dimethoate									<.4
Dimethyl phthalate									<8
Di-n-butyl phthalate									<8
Di-n-octyl phthalate									<8
Dinoseb									<.500
Diphenylamine									<8
Disulfoton									<.4
Endosulfan i									<.05
Endosulfan ii									<.05
Endosulfan sulfate									<.05
Endrin									<.05
Endrin aldehyde									<.05
Endrin ketone									
Ethyl methacrylate									<10
Ethyl methanesulfonate									<8
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur									<.4
Fluoranthene									<8

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

Table 9

Analytical Data Summary for MW90-7

Constituents	6/25/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	4/5/2023
Alpha-chlordane									
Ammonia as n									
Anthracene									
Antimony, total		<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total		<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Azobenzene									
Barium, total		334.0	311.0	308.0	403.0	269.0	182.0	242.0	242.0
Benzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc									
Bis(2-chloroethoxy)methane									
Bis(2-chloroethyl)ether									
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate	11	15	7	<6	7	<6	<6	<6	
Bis[2-chloroisopropyl]ether									
Bromochloromethane		<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1
Bromoform		<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate									
Cadmium, total		<.800	1.400	<.800	<.800	<.800	<.800	<.800	<.800
Carbon disulfide		<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride		<1	<1	<1	<1	<1	<1	<1	<1
Chemical oxygen demand									
Chlordane									
Chloride									
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate									
Chlorodibromomethane									
Chloroethane		<1	<1	<1	<1	<1	<1	<1	<1
Chloroform		<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane		<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene									
Chromium, total		<8	<8	<8	<8	<8	<8	<8	<8
Chrysene									
Cis-1,2-dichloroethene		<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total		1.6	2.1	2.1	2.1	5.3	.8	6.0	1.6
Copper, total		<4	<4	<4	<4	<4	<4	<4	<4
Cyanide									
Dalapon									
Delta-bhc									
Diallate									
Diallate (cis or trans)									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane		<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane		<1	<1	<1	<1	<1	<1	<1	<1
Dicamba									
Dichlorodifluoromethane									
Dichloroprop									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan i									
Endosulfan ii									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Endrin ketone									
Ethyl methacrylate									
Ethyl methanesulfonate									
Ethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1
Famphur									
Fluoranthene									

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

Table 9

Analytical Data Summary for MW90-7

Constituents	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
Alpha-chlordane					
Ammonia as n					
Anthracene		<8			
Antimony, total	<2	<2	<2	<1	<1
Arsenic, total	<4.00	<4.00	<4.00	4.30	3.20
Azobenzene		<8			
Barium, total	302.0	248.0	271.0	280.0	259.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene		<8			
Benzo(a)pyrene		<8			
Benzo(b)fluoranthene		<8			
Benzo(g,h,i)perylene		<8			
Benzo(k)fluoranthene		<8			
Benzyl alcohol		<8			
Beryllium, total	<4.0	<4.0	<4.0	<.5	<.5
Beta-bhc		<.05			
Bis(2-chloroethoxy)methane		<8			
Bis(2-chloroethyl)ether		<8			
Bis(2-chloroisopropyl) ether					
Bis(2-ethylhexyl)phthalate		18	<6		
Bis[2-chloroisopropyl]ether		<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			
Cadmium, total	<.800	<.800	<.800	.200	<.200
Carbon disulfide	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1
Chemical oxygen demand					
Chlordane		<.1			
Chloride					
Chlorobenzene	<1	<1	<1	<1	<1
Chlorobenzilate		<8			
Chlorodibromomethane					
Chloroethane	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1
Chloroprene		<1			
Chromium, total	<8	<8	<8	<1	<1
Chrysene		<8			
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1
Cobalt, total	19.8	1.9	7.6	1.7	3.3
Copper, total	<4	<4	<4	<5	<5
Cyanide		<.005			
Dalapon					
Delta-bhc		<.05			
Diallate		<8			
Diallate (cis or trans)					
Dibenzo(a,h)anthracene		<8			
Dibenzofuran		<8			
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Dicamba					
Dichlorodifluoromethane		<1			
Dichloroprop					
Dieldrin		<.05			
Diethyl phthalate		<8			
Dimethoate		<.4			
Dimethyl phthalate		<8			
Di-n-butyl phthalate		<8			
Di-n-octyl phthalate		<8			
Dinoseb		<.500			
Diphenylamine		<8			
Disulfoton		<.4			
Endosulfan i		<.05			
Endosulfan ii		<.05			
Endosulfan sulfate		<.05			
Endrin		<.05			
Endrin aldehyde		<.05			
Endrin ketone					
Ethyl methacrylate		<10			
Ethyl methanesulfonate		<8			
Ethylbenzene	<1	<1	<1	<1	<1
Famphur		<.4			
Fluoranthene		<8			

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

Table 9

Analytical Data Summary for MW90-7

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Fluorene	ug/L		<10						
Gamma-bhc (lindane)	ug/L		<.05						
Gamma-chlordane	ug/L		<.05						
Heptachlor	ug/L		<.05						
Heptachlor epoxide	ug/L		<.05						
Hexachlorobenzene	ug/L		<10.00						
Hexachlorobutadiene	ug/L		<10						
Hexachlorocyclopentadiene	ug/L		<10						
Hexachloroethane	ug/L		<10						
Hexachloropropene	ug/L		<10						
Indeno(1,2,3-cd)pyrene	ug/L		<10						
Iodomethane	ug/L		<10		<10	<10	<1	<1	<1
Iron, dissolved	mg/L	<.1		.3					
Iron, total	mg/L	<.1		.3					
Isobutanol	ug/L		<10						
Isodrin	ug/L		<10						
Isophorone	ug/L		<10						
Isosafrole	ug/L		<10						
Kepone	ug/L		<10						
Lead, total	ug/L		<4		<4	<4	<4	<4	<4
Mcpa	ug/L		<52.6						
Mcpp	ug/L		<52.6						
Mercury, total	ug/L		<.2						
Methacrylonitrile	ug/L		<1						
Methapyrilene	ug/L		<10						
Methoxychlor	ug/L		<.05						
Methyl methacrylate	ug/L		<2						
Methyl methanesulfonate	ug/L		<10						
Methyl parathion	ug/L								
Methylene chloride	ug/L		<10		<5	<5	<5	<5	<5
Naphthalene	ug/L		<5						
Nickel, total	ug/L		<50.0		54.9	<50.0	49.1	38.3	50.5
Nitrobenzene	ug/L		<10						
N-nitrosodiethylamine	ug/L		<10						
N-nitrosodimethylamine	ug/L		<10						
N-nitrosodi-n-butylamine	ug/L		<10						
N-nitroso-di-n-propylamine	ug/L		<10						
N-nitrosodiphenylamine	ug/L		<10						
N-nitrosomethylethylamine	ug/L		<10						
N-nitrosopiperidine	ug/L		<10						
N-nitrosopyrrolidine	ug/L		<10						
O,o,o-triethyl phosphorothioate	ug/L		<30.0						
O-toluidine	ug/L		<10						
P-(dimethylamino)azobenzene	ug/L		<10						
Parathion	ug/L								
Parathion-ethyl	ug/L		<10						
Parathion-methyl	ug/L		<10						
Pcb-1016	ug/L		<.8						
Pcb-1221	ug/L		<.8						
Pcb-1232	ug/L		<.8						
Pcb-1242	ug/L		<.8						
Pcb-1248	ug/L		<.8						
Pcb-1254	ug/L		<.8						
Pcb-1260	ug/L		<.8						
Pcb-1268	ug/L		<.8						
Pentachlorobenzene	ug/L		<10						
Pentachloroethane	ug/L		<10						
Pentachloronitrobenzene	ug/L		<10						
Pentachlorophenol	ug/L		<5.263 *						
pH	units	7.37	<2.00	6.94	<2.00	6.86			
Phenacetin	ug/L		<10						
Phenanthrene	ug/L		<10						
Phenol	ug/L		<20						
Phorate	ug/L		<60.0						
Picloram	ug/L		<.526						
Pronamide	ug/L		<10						
Propionitrile	ug/L		<10						
Pyrene	ug/L		<10						
Pyridine	ug/L		<10						
Safrole	ug/L		<10						
Selenium, total	ug/L		<5.0		<5.0	<5.0	5.6	<4.0	<4.0
Silver, total	ug/L		<20		<20	<20	<4	<4	<4
Specific conductance	umhos/cm	1511		1021		1887			
Styrene	ug/L		<1		<1	<1	<1	<1	<1
Sulfide, total	mg/L		<2.00						
Tetrachloroethene	ug/L		<1		<1	<1	<1	<1	<1
Thallium, total	ug/L		<2.0		<2.0	<2.0	<4.0	<4.0	<4.0

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

Table 9

Analytical Data Summary for MW90-7

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Fluorene								<8	
Gamma-bhc (lindane)								<.05	
Gamma-chlordane									
Heptachlor								<.05	
Heptachlor epoxide								<.05	
Hexachlorobenzene								<4.03 *	
Hexachlorobutadiene								<8	
Hexachlorocyclopentadiene								<8	
Hexachloroethane								<8	
Hexachloropropene								<8	
Indeno(1,2,3-cd)pyrene								<8	
Iodomethane	<1	<1	<1	<1	<1	<1		<1	<1
Iron, dissolved									
Iron, total									
Isobutanol								<1000	
Isodrin								<8	
Isophorone								<8	
Isosafrole								<8	
Kepone								<8	
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mcpa									
Mcpp									
Mercury, total								<.5	
Methacrylonitrile								<1	
Methapyrilene								<8	
Methoxychlor								<.05	
Methyl methacrylate								<1	
Methyl methanesulfonate								<8	
Methyl parathion								<.4	
Methylene chloride	<5	<5	<5	<5	<5	<5		<5	<5
Naphthalene								<8	
Nickel, total	52.5	43.4	42.6	28.6	33.4	60.4	41.4	39.6	25.3
Nitrobenzene								<8	
N-nitrosodiethylamine								<8	
N-nitrosodimethylamine								<8	
N-nitrosodi-n-butylamine								<8	
N-nitroso-di-n-propylamine								<8	
N-nitrosodiphenylamine								<8	
N-nitrosomethylethylamine								<8	
N-nitrosopiperidine								<8	
N-nitrosopyrrolidine								<8	
O,o,o-triethyl phosphorothioate								<.4	
O-toluidine								<8	
P-(dimethylamino)azobenzene								<8	
Parathion								<.4	
Parathion-ethyl									
Parathion-methyl									
Pcb-1016								<.1	
Pcb-1221								<.2	
Pcb-1232								<.2	
Pcb-1242								<.2	
Pcb-1248								<.2	
Pcb-1254								<.1	
Pcb-1260								<.1	
Pcb-1268									
Pentachlorobenzene								<8	
Pentachloroethane									
Pentachloronitrobenzene								<8	
Pentachlorophenol								<8.000	
pH									
Phenacetin								<8	
Phenanthrene								<8	
Phenol								<8	
Phorate								<.4	
Picloram									
Pronamide								<8	
Propionitrile								<10	
Pyrene								<8	
Pyridine									
Safrole								<8	
Selenium, total	6.2	<4.0	<4.0	<4.0	21.2	<4.0	<4.0	20.2	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1		<1	<1
Sulfide, total								<.10	
Tetrachloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0

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

Table 9

Analytical Data Summary for MW90-7

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	4/10/2018	9/24/2018	4/16/2019
Fluorene									<8
Gamma-bhc (lindane)									<.05
Gamma-chlordane									
Heptachlor									<.05
Heptachlor epoxide									<.05
Hexachlorobenzene									<.05
Hexachlorobutadiene									<8
Hexachlorocyclopentadiene									<8
Hexachloroethane									<8
Hexachloropropene									<8
Indeno(1,2,3-cd)pyrene									<8
Iodomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iron, dissolved									
Iron, total									<1000
Isobutanol									<8
Isodrin									<8
Isophorone									<8
Isosafrole									<8
Kepone									<8
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mcpa									
Mcpp									
Mercury, total									<.5
Methacrylonitrile									<1
Methapyriline									<8
Methoxychlor									<.05
Methyl methacrylate									<1
Methyl methanesulfonate									<8
Methyl parathion									<.4
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									<8
Nickel, total	34.0	29.6	23.5	32.6	23.3	26.4	33.8	22.3	16.3
Nitrobenzene									<8
N-nitrosodiethylamine									<8
N-nitrosodimethylamine									<8
N-nitrosodi-n-butylamine									<8
N-nitroso-di-n-propylamine									<8
N-nitrosodiphenylamine									<8
N-nitrosomethylethylamine									<8
N-nitrosopiperidine									<8
N-nitrosopyrrolidine									<8
O,o,o-triethyl phosphorothioate									<.4
O-toluidine									<8
P-(dimethylamino)azobenzene									<8
Parathion									<.4
Parathion-ethyl									
Parathion-methyl									
Pcb-1016									<.1
Pcb-1221									<.2
Pcb-1232									<.2
Pcb-1242									<.2
Pcb-1248									<.2
Pcb-1254									<.1
Pcb-1260									<.1
Pcb-1268									
Pentachlorobenzene									<8
Pentachloroethane									
Pentachloronitrobenzene									<8
Pentachlorophenol									<8.000
pH									
Phenacetin									<8
Phenanthrene									<8
Phenol									<8
Phorate									<.4
Picloram									
Pronamide									<8
Propionitrile									<10
Pyrene									<8
Pyridine									
Safrole									<8
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total									<.10
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<2.0

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

Table 9

Analytical Data Summary for MW90-7

Constituents	6/25/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	4/5/2023
Fluorene									
Gamma-bhc (lindane)									
Gamma-chlordane									
Heptachlor									
Heptachlor epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Iodomethane		<1	<1	<1	<1	<1	<1	<1	<1
Iron, dissolved									
Iron, total									
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepone									
Lead, total		<4	<4	<4	<4	<4	<4	<4	<4
Mcpa									
Mcpp									
Mercury, total									
Methacrylonitrile									
Methapyriline									
Methoxychlor									
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride		<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									
Nickel, total		25.6	23.0	29.2	42.1	29.7	15.2	27.4	25.6
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									
Parathion-ethyl									
Parathion-methyl									
Pcb-1016									
Pcb-1221									
Pcb-1232									
Pcb-1242									
Pcb-1248									
Pcb-1254									
Pcb-1260									
Pcb-1268									
Pentachlorobenzene									
Pentachloroethane									
Pentachloronitrobenzene									
Pentachlorophenol									
pH									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Picloram									
Pronamide									
Propionitrile									
Pyrene									
Pyridine									
Safrole									
Selenium, total		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total		<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene		<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total									
Tetrachloroethene		<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

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

Table 9

Analytical Data Summary for MW90-7

Constituents	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
Fluorene		<8			
Gamma-bhc (lindane)		<.05			
Gamma-chlordane					
Heptachlor		<.05			
Heptachlor epoxide		<.05			
Hexachlorobenzene		<.05			
Hexachlorobutadiene		<8			
Hexachlorocyclopentadiene		<8			
Hexachloroethane		<8			
Hexachloropropene		<8			
Indeno(1,2,3-cd)pyrene		<8			
Iodomethane	<1	<2	<1	<1	<1
Iron, dissolved					
Iron, total					
Isobutanol		<1000			
Isodrin		<8			
Isophorone		<8			
Isosafrole		<8			
Kepone		<8			
Lead, total	<4	<4	<4	<1	<1
Mcpa					
Mcpp					
Mercury, total		<.5			
Methacrylonitrile		<1			
Methapyrilene		<8			
Methoxychlor		<.05			
Methyl methacrylate		<1			
Methyl methanesulfonate		<8			
Methyl parathion		<.4			
Methylene chloride	<5	<5	<5	<5	<5
Naphthalene		<8			
Nickel, total	29.4	28.4	23.3	23.1	22.4
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			
Parathion-ethyl					
Parathion-methyl					
Pcb-1016		<.2			
Pcb-1221		<.2			
Pcb-1232		<.2			
Pcb-1242		<.2			
Pcb-1248		<.2			
Pcb-1254		<.2			
Pcb-1260		<.2			
Pcb-1268					
Pentachlorobenzene		<8			
Pentachloroethane					
Pentachloronitrobenzene		<8			
Pentachlorophenol		<8.000			
pH					
Phenacetin		<8			
Phenanthrene		<8			
Phenol		<8			
Phorate		<.4			
Picloram					
Pronamide		<8			
Propionitrile		<10			
Pyrene		<8			
Pyridine					
Safrole		<8			
Selenium, total	<4.0	<4.0	<4.0	<2.0	<2.0
Silver, total	<4	<4	<4	<5	<5
Specific conductance					
Styrene	<1	<1	<1	<1	<1
Sulfide, total		<.15			
Tetrachloroethene	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<.5	<.5

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

Table 9

Analytical Data Summary for MW90-7

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Thionazin	ug/L		<10.0						
Tin, total	ug/L		<100						
Toluene	ug/L		<1		<1	<1	<1	<1	<1
Total organic halides	mg/L			.0502 *					
Total suspended solids	mg/L								
Toxaphene	ug/L		<2.0						
Trans-1,2-dichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L		<5		<5	<5	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L		<10		<10	<10	<5	<5	<5
Trichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L		<4		<4	<4	<1	<1	<1
Vanadium, total	ug/L		<50.0		<50.0	<50.0	<10.0	<10.0	<10.0
Vinyl acetate	ug/L		<2		<2	<2	<5	<5	<5
Vinyl chloride	ug/L		<1		<1	<1	<1	<1	<1
Xylenes, total	ug/L		<3		<3	<3	<2	<2	<2
Zinc, total	ug/L		109.0		36.7	63.4	12.1	<10.0	<10.0

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

Table 9

Analytical Data Summary for MW90-7

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Thionazin								<.4	
Tin, total								<20	
Toluene	<1	<1	<1	<1	<1	<1		<1	<1
Total organic halides									
Total suspended solids									10
Toxaphene								<.2	
Trans-1,2-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5		<5	<5
Trichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	23.1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2		<2	<2
Zinc, total	<8.0	<8.0	<8.0	15.0	<8.0	<20.0	<8.0	<20.0	<8.0

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

Table 9

Analytical Data Summary for MW90-7

Constituents	3/20/2015	9/17/2015	3/17/2016	8/26/2016	4/11/2017	9/23/2017	4/10/2018	9/24/2018	4/16/2019
Thionazin									<.4
Tin, total									<20
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total organic halides									
Total suspended solids	10	8	4	3	71	12	4	7	3
Toxaphene									<.2
Trans-1,2-dichloroethene	<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
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<20.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW90-7

Constituents	6/25/2019	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	4/5/2023
Thionazin									
Tin, total									
Toluene		<1	<1	<1	<1	<1	<1	<1	<1
Total organic halides									
Total suspended solids		2	8	16					
Toxaphene									
Trans-1,2-dichloroethene		<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene		<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene		<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane		<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total		<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate		<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride		<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total		<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total		<8.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW90-7

Constituents	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
Thionazin		<.4			
Tin, total		<20			
Toluene	<1	<1	<1	<1	<1
Total organic halides					
Total suspended solids					
Toxaphene		<.2			
Trans-1,2-dichloroethene	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5
Trichloroethene	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<2.0	<2.0
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<5.0	<5.0

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

Table 9

Analytical Data Summary for MW91-19

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
(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-dichloroethene	ug/L		<2		<2	<2	<1	<1	<1
1,1-dichloropropene	ug/L		<1						
1,2,3-trichloropropane	ug/L		<1		<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L		<10						
1,2,4-trichlorobenzene	ug/L		<8 *						
1,2-dibromo-3-chloropropane	ug/L		<10.00		<.86	<.86	<1.00	<1.00	<1.00
1,2-dibromoethane (edb)	ug/L		<10.00		<.25	<.25	<1.00	<1.00	<1.00
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		<10						
1,3-dichlorobenzene	ug/L		<1						
1,3-dichloropropane	ug/L		<1						
1,3-dinitrobenzene	ug/L		<10						
1,4-dichlorobenzene	ug/L		<1		<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L		<10						
1,4-phenylenediamine	ug/L		<10						
1-naphthylamine	ug/L		<10						
2,2-dichloropropane	ug/L		<4						
2,3,4,6-tetrachlorophenol	ug/L		<10						
2,4,5-t	ug/L		<5.0						
2,4,5-tp (silvex)	ug/L		<5.0						
2,4,5-trichlorophenol	ug/L		<10						
2,4,6-trichlorophenol	ug/L		<10						
2,4-d	ug/L		<5						
2,4-db	ug/L		<5						
2,4-dichlorophenol	ug/L		<10						
2,4-dimethylphenol	ug/L		<10						
2,4-dinitrophenol	ug/L		<10						
2,4-dinitrotoluene	ug/L		<10						
2,6-dichlorophenol	ug/L		<10						
2,6-dinitrotoluene	ug/L		<10						
2-acetylaminofluorene	ug/L		<10						
2-butanone (mek)	ug/L		<10		<10	<10	<5	<5	<5
2-chloronaphthalene	ug/L		<10						
2-chlorophenol	ug/L		<10						
2-hexanone	ug/L		<10		<10	<10	<5	<5	<5
2-methylnaphthalene	ug/L		<10						
2-methylphenol (o-cresol)	ug/L		<10						
2-naphthylamine	ug/L		<10						
2-nitroaniline	ug/L		<10						
2-nitrophenol	ug/L		<10						
3,3'-dichlorobenzidine	ug/L		<85						
3,3'-dimethylbenzidine	ug/L		<20						
3/4-methylphenol	ug/L		<10						
3-methylcholanthrene	ug/L		<10						
3-nitroaniline	ug/L		<10						
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		<10						
4-aminobiphenyl	ug/L		<20						
4-bromophenyl phenyl ether	ug/L		<10						
4-chloro-3-methylphenol	ug/L		<10						
4-chloroaniline	ug/L		<10						
4-chlorophenyl phenyl ether	ug/L		<10						
4-methyl-2-pentanone (mibk)	ug/L		<10		<10	<10	<5	<5	<5
4-nitroaniline	ug/L		<10						
4-nitrophenol	ug/L		<8 *						
5-nitro-o-toluidine	ug/L		<10						
7,12-dimethylbenz (a) anthracene	ug/L		<10						
Acenaphthene	ug/L		<10 *						
Acetone	ug/L		<10		<10	<10	<10	<10	<10
Acetonitrile	ug/L		<10						
Acetophenone	ug/L		<10						
Acrolein	ug/L		<10						
Acrylonitrile	ug/L		<10		<10	<10	<5	<5	<5
Aldrin	ug/L		<.05						
Allyl chloride	ug/L		<2						
Alpha-bhc	ug/L		<.05						

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

Table 9

Analytical Data Summary for MW91-19

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
(3,4)-methylphenol								<8	
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene								<1	
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene								<8	
1,2,4-trichlorobenzene								<1	
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dinitrobenzene								<8	
1,3,5-trinitrobenzene								<8	
1,3-dichlorobenzene								<1	
1,3-dichloropropane								<1	
1,3-dinitrobenzene								<8	
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
1,4-naphthoquinone								<8	
1,4-phenylenediamine								<8	
1-naphthylamine								<8	
2,2-dichloropropane								<1	
2,3,4,6-tetrachlorophenol								<8	
2,4,5-t								<5	
2,4,5-tp (silvex)								<5	
2,4,5-trichlorophenol								<8	
2,4,6-trichlorophenol								<8	
2,4-d								<2	
2,4-db									
2,4-dichlorophenol								<8	
2,4-dimethylphenol								<8	
2,4-dinitrophenol								<8	
2,4-dinitrotoluene								<8	
2,6-dichlorophenol								<8	
2,6-dinitrotoluene								<8	
2-acetylaminofluorene								<8	
2-butanone (mek)	<5	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene								<8	
2-chlorophenol								<8	
2-hexanone	<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	
3/4-methylphenol									
3-methylcholanthrene								<8	
3-nitroaniline								<8	
4,4'-ddd								<.05	
4,4'-dde								<.05	
4,4'-ddt								<.05	
4,6-dinitro-2-methylphenol								<8	
4-aminobiphenyl								<8	
4-bromophenyl phenyl ether								<8	
4-chloro-3-methylphenol								<8	
4-chloroaniline								<8	
4-chlorophenyl phenyl ether								<8	
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline								<8	
4-nitrophenol								<8	
5-nitro-o-toluidine								<8	
7,12-dimethylbenz (a) anthracene								<8	
Acenaphthene								<8 *	
Acetone	<10	<10	<10	<10	<10	<10		<10	<10
Acetonitrile								<10	
Acetophenone								<8	
Acrolein								<10	
Acrylonitrile	<5	<5	<5	<5	<5	<5		<5	<5
Aldrin								<.05	
Allyl chloride								<1	
Alpha-bhc								<.05	

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

Table 9

Analytical Data Summary for MW91-19

Constituents	3/20/2015	9/17/2015	3/17/2016	6/15/2016	8/26/2016	9/29/2016	4/11/2017	7/14/2017	9/23/2017
(3,4)-methylphenol									
1,1,1,2-tetrachloroethane	<1	<1	<1		<1		<1		<1
1,1,1-trichloroethane	<1	<1	<1		<1		<1		<1
1,1,2,2-tetrachloroethane	<1	<1	<1		<1		<1		<1
1,1,2-trichloroethane	<1	<1	<1		<1		<1		<1
1,1-dichloroethane	<1	<1	<1		<1		<1		<1
1,1-dichloroethene	<1	<1	<1		<1		<1		<1
1,1-dichloropropene									
1,2,3-trichloropropane	<1	<1	<1		<1		<1		<1
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane	<1.00	<1.00	<1.00		<1.00		<1.00		<1.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00		<1.00		<1.00		<1.00
1,2-dichlorobenzene	<1	<1	<1		<1		<1		<1
1,2-dichloroethane	<1	<1	<1		<1		<1		<1
1,2-dichloropropane	<1	<1	<1		<1		<1		<1
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene	<1	<1	<1		<1		<1		<1
1,4-naphthoquinone									
1,4-phenylenediamine									
1-naphthylamine									
2,2-dichloropropane									
2,3,4,6-tetrachlorophenol									
2,4,5-t									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-db									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone (mek)	<5	<5	<5		<5		<5		<5
2-chloronaphthalene									
2-chlorophenol									
2-hexanone	<5	<5	<5		<5		<5		<5
2-methylnaphthalene									
2-methylphenol (o-cresol)									
2-naphthylamine									
2-nitroaniline									
2-nitrophenol									
3,3'-dichlorobenzidine									
3,3'-dimethylbenzidine									
3/4-methylphenol									
3-methylcholanthrene									
3-nitroaniline									
4,4'-ddd									
4,4'-dde									
4,4'-ddt									
4,6-dinitro-2-methylphenol									
4-aminobiphenyl									
4-bromophenyl phenyl ether									
4-chloro-3-methylphenol									
4-chloroaniline									
4-chlorophenyl phenyl ether									
4-methyl-2-pentanone (mibk)	<5	<5	<5		<5		<5		<5
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz (a) anthracene									
Acenaphthene									
Acetone	<10	<10	<10		<10		<10		<10
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5	<5	<5		<5		<5		<5
Aldrin									
Allyl chloride									
Alpha-bhc									

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

Table 9

Analytical Data Summary for MW91-19

Constituents	11/15/2017	4/10/2018	9/24/2018	4/16/2019	8/29/2019	4/10/2020	6/9/2020	10/9/2020	4/9/2021
(3,4)-methylphenol									
1,1,1,2-tetrachloroethane		<1	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane		<1	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane		<1	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane		<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethane		<1	<1	<1	<1	<1		<1	<1
1,1-dichloroethene		<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene									
1,2,3-trichloropropane		<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane		<1.00	<1.00	<1.00	<1.00	<5.00		<5.00	<5.00
1,2-dibromoethane (edb)		<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00
1,2-dichlorobenzene		<1	<1	<1	<1	<1		<1	<1
1,2-dichloroethane		<1	<1	<1	<1	<1		<1	<1
1,2-dichloropropane		<1	<1	<1	<1	<1		<1	<1
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene		<1	<1	<1	<1	<1		<1	<1
1,4-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-db									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone (mek)		<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene									
2-chlorophenol									
2-hexanone		<5	<5	<5	<5	<5		<5	<5
2-methylnaphthalene									
2-methylphenol (o-cresol)									
2-naphthylamine									
2-nitroaniline									
2-nitrophenol									
3,3'-dichlorobenzidine									
3,3'-dimethylbenzidine									
3/4-methylphenol									
3-methylcholanthrene									
3-nitroaniline									
4,4'-ddd									
4,4'-dde									
4,4'-ddt									
4,6-dinitro-2-methylphenol									
4-aminobiphenyl									
4-bromophenyl phenyl ether									
4-chloro-3-methylphenol									
4-chloroaniline									
4-chlorophenyl phenyl ether									
4-methyl-2-pentanone (mibk)		<5	<5	<5	<5	<5		<5	<5
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz (a) anthracene									
Acenaphthene									
Acetone		<10	<10	<10	<10	<10		<10	<10
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile		<5	<5	<5	<5	<5		<5	<5
Aldrin									
Allyl chloride									
Alpha-bhc									

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

Table 9

Analytical Data Summary for MW91-19

Constituents	10/11/2021	4/7/2022	10/6/2022	1/4/2023	4/5/2023	10/13/2023	4/18/2024	10/15/2024	4/16/2025
(3,4)-methylphenol					<8		<8		
1,1,1,2-tetrachloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1-dichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
1,1-dichloropropene					<1		<1		
1,2,3-trichloropropane	<1	<1	<1		<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene					<8		<8		
1,2,4-trichlorobenzene					<1		<1		
1,2-dibromo-3-chloropropane	<5.00	<5.00	<5.00		<1.00	<5.00	<1.00	<5.00	<5.00
1,2-dibromoethane (edb)	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00
1,2-dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dinitrobenzene					<8		<8		
1,3,5-trinitrobenzene					<8		<8		
1,3-dichlorobenzene					<1		<1		
1,3-dichloropropane					<1		<1		
1,3-dinitrobenzene					<8		<8		
1,4-dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
1,4-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-db									
2,4-dichlorophenol					<8		<8		
2,4-dimethylphenol					<8		<8		
2,4-dinitrophenol					<8		<8		
2,4-dinitrotoluene					<8		<8		
2,6-dichlorophenol					<8		<8		
2,6-dinitrotoluene					<8		<8		
2-acetylaminofluorene					<8		<8		
2-butanone (mek)	<5	<10	<10		<5	<10	<5	<10	<10
2-chloronaphthalene					<8		<8		
2-chlorophenol					<8		<8		
2-hexanone	<5	<5	<5		<5	<5	<5	<5	<5
2-methylnaphthalene					<8		<8		
2-methylphenol (o-cresol)					<8		<8		
2-naphthylamine					<8		<8		
2-nitroaniline					<8		<8		
2-nitrophenol					<8		<8		
3,3'-dichlorobenzidine					<8		<8		
3,3'-dimethylbenzidine					<8		<8		
3/4-methylphenol									
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 (mibk)	<5	<5	<5		<5	<5	<5	<5	<5
4-nitroaniline					<8		<8		
4-nitrophenol					<8		<8		
5-nitro-o-toluidine					<8		<8		
7,12-dimethylbenz (a) anthracene					<8		<8		
Acenaphthene					<8 *		<8 *		
Acetone	<10	<10	<10		<10	<10	<10	<10	<10
Acetonitrile					<10		<10		
Acetophenone					<8		<8		
Acrolein					<10		<10		
Acrylonitrile	<5	<5	<5		<5	<5	<5	<5	<5
Aldrin					<.05		<.05		
Allyl chloride					<1		<1		
Alpha-bhc					<.05		<.05		

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

Table 9

Analytical Data Summary for MW91-19

Constituents	10/27/2025
(3,4)-methylphenol	
1,1,1,2-tetrachloroethane	<1
1,1,1-trichloroethane	<1
1,1,2,2-tetrachloroethane	<1
1,1,2-trichloroethane	<1
1,1-dichloroethane	<1
1,1-dichloroethene	<1
1,1-dichloropropene	
1,2,3-trichloropropane	<1
1,2,4,5-tetrachlorobenzene	
1,2,4-trichlorobenzene	
1,2-dibromo-3-chloropropane	<5.00
1,2-dibromoethane (edb)	<1.00
1,2-dichlorobenzene	<1
1,2-dichloroethane	<1
1,2-dichloropropane	<1
1,2-dinitrobenzene	
1,3,5-trinitrobenzene	
1,3-dichlorobenzene	
1,3-dichloropropane	
1,3-dinitrobenzene	
1,4-dichlorobenzene	<1
1,4-naphthoquinone	
1,4-phenylenediamine	
1-naphthylamine	
2,2-dichloropropane	
2,3,4,6-tetrachlorophenol	
2,4,5-t	
2,4,5-tp (silvex)	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
2,4-d	
2,4-db	
2,4-dichlorophenol	
2,4-dimethylphenol	
2,4-dinitrophenol	
2,4-dinitrotoluene	
2,6-dichlorophenol	
2,6-dinitrotoluene	
2-acetylaminofluorene	
2-butanone (mek)	<10
2-chloronaphthalene	
2-chlorophenol	
2-hexanone	<5
2-methylnaphthalene	
2-methylphenol (o-cresol)	
2-naphthylamine	
2-nitroaniline	
2-nitrophenol	
3,3'-dichlorobenzidine	
3,3'-dimethylbenzidine	
3/4-methylphenol	
3-methylcholanthrene	
3-nitroaniline	
4,4'-ddd	
4,4'-dde	
4,4'-ddt	
4,6-dinitro-2-methylphenol	
4-aminobiphenyl	
4-bromophenyl phenyl ether	
4-chloro-3-methylphenol	
4-chloroaniline	
4-chlorophenyl phenyl ether	
4-methyl-2-pentanone (mibk)	<5
4-nitroaniline	
4-nitrophenol	
5-nitro-o-toluidine	
7,12-dimethylbenz (a) anthracene	
Acenaphthene	
Acetone	<10
Acetonitrile	
Acetophenone	
Acrolein	
Acrylonitrile	<5
Aldrin	
Allyl chloride	
Alpha-bhc	

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

Table 9

Analytical Data Summary for MW91-19

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Alpha-chlordane	ug/L		<.05						
Ammonia as n	mg/L	<.2 *							
Anthracene	ug/L		<10						
Antimony, total	ug/L		<6		<6	<6	<1	<2	<2
Arsenic, total	ug/L		<1.00		<1.00	1.92	<4.00	<4.00	<4.00
Azobenzene	ug/L								
Barium, total	ug/L		331		331	374	390	350	430
Benzene	ug/L		<.5		<.5	<.5	<1.0	<1.0	<1.0
Benzo(a)anthracene	ug/L		<10						
Benzo(a)pyrene	ug/L		<10						
Benzo(b)fluoranthene	ug/L		<10						
Benzo(g,h,i)perylene	ug/L		<10						
Benzo(k)fluoranthene	ug/L		<10						
Benzyl alcohol	ug/L		<10						
Beryllium, total	ug/L		<1.0		<1.0	<1.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L								
Bis(2-chloroethoxy)methane	ug/L		<10						
Bis(2-chloroethyl)ether	ug/L		<10						
Bis(2-chloroisopropyl) ether	ug/L		<10						
Bis(2-ethylhexyl)phthalate	ug/L		<10						
Bis[2-chloroisopropyl]ether	ug/L								
Bromochloromethane	ug/L		<5		<5	<5	<1	<1	<1
Bromodichloromethane	ug/L		<1		<1	<1	<1	<1	<1
Bromoform	ug/L		<5		<5	<5	<1	<1	<1
Bromomethane	ug/L		<4		<4	<4	<1	<1	<1
Butyl benzyl phthalate	ug/L		<10						
Cadmium, total	ug/L		<.5		<.5	<.5	<1.0	<1.0	<1.0
Carbon disulfide	ug/L		<1		<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L		<2		<2	<2	<1	<1	<1
Chemical oxygen demand	mg/L	<5.0 *	8.1						
Chlordane	ug/L								
Chloride	mg/L	104.0 *	76.0	79.3 *					
Chlorobenzene	ug/L		<1		<1	<1	<1	<1	<1
Chlorobenzilate	ug/L		<10						
Chlorodibromomethane	ug/L		<5		<5	<5			
Chloroethane	ug/L		<4		<4	<4	<1	<1	<1
Chloroform	ug/L		<1		<2	<1	<1	<1	<1
Chloromethane	ug/L		<3		<3	<3	<1	<1	<1
Chloroprene	ug/L		<1						
Chromium, total	ug/L		<20.0		<20.0	<20.0	<10.0	<10.0	<10.0
Chrysene	ug/L		<10						
Cis-1,2-dichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L		<5		<5	<5	<1	<1	<1
Cobalt, total	ug/L		<20.0		<20.0	<20.0	<4.0	<4.0	<4.0
Copper, total	ug/L		<20		<20	<20	<4	<4	<4
Cyanide	mg/L		<.010						
Dalapon	ug/L		<10						
Delta-bhc	ug/L								
Diallate	ug/L								
Diallate (cis or trans)	ug/L		<10						
Dibenzo(a,h)anthracene	ug/L		<10						
Dibenzofuran	ug/L		<10						
Dibromochloromethane	ug/L						<1	<1	<1
Dibromomethane	ug/L		<1		<1	<1	<1	<1	<1
Dicamba	ug/L		<5						
Dichlorodifluoromethane	ug/L		<3						
Dichloroprop	ug/L		<5						
Dieldrin	ug/L		<.05						
Diethyl phthalate	ug/L		<10						
Dimethoate	ug/L		<10.0						
Dimethyl phthalate	ug/L		<10						
Di-n-butyl phthalate	ug/L		<10		<10	<10	<10	<10	<10
Di-n-octyl phthalate	ug/L		<10						
Dinoseb	ug/L		<7.5 *						
Diphenylamine	ug/L		<10						
Disulfoton	ug/L		<70.0						
Endosulfan i	ug/L		<.05						
Endosulfan ii	ug/L		<.05						
Endosulfan sulfate	ug/L		<.05						
Endrin	ug/L		<.05						
Endrin aldehyde	ug/L		<.05						
Endrin ketone	ug/L		<.05						
Ethyl methacrylate	ug/L		<2						
Ethyl methanesulfonate	ug/L		<10						
Ethylbenzene	ug/L		<1		<1	<1	<1	<1	<1
Famphur	ug/L		<20.0						
Fluoranthene	ug/L		<10						

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

Table 9

Analytical Data Summary for MW91-19

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Alpha-chlordane									
Ammonia as n									
Anthracene								<8	
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Azobenzene								<8	
Barium, total	347	534	390	449	277	833	467	396	317
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Benzo(a)anthracene								<8	
Benzo(a)pyrene								<8	
Benzo(b)fluoranthene								<8	
Benzo(g,h,i)perylene								<8	
Benzo(k)fluoranthene								<8	
Benzyl alcohol								<8	
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc								<.05	
Bis(2-chloroethoxy)methane								<8	
Bis(2-chloroethyl)ether								<8	
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate								<8	
Bis[2-chloroisopropyl]ether								<8	
Bromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Bromoform	<1	<1	<1	<1	<1	<1		<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate								<8	
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1		<1	<1
Chemical oxygen demand									
Chlordane								<1	
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate								<8	
Chlorodibromomethane									
Chloroethane	<1	<1	<1	<1	<1	<1		<1	<1
Chloroform	<1	<1	<1	<1	<1	<1		<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Chloroprene								<1	
Chromium, total	<8.0	<20.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene								<8	
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	1.0
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide								<.005	
Dalapon									
Delta-bhc								<.05	
Diallate								<8	
Diallate (cis or trans)									
Dibenzo(a,h)anthracene								<8	
Dibenzofuran								<8	
Dibromochloromethane	<1	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1		<1	<1
Dicamba									
Dichlorodifluoromethane								<1	
Dichloroprop									
Dieldrin								<.05	
Diethyl phthalate								<8	
Dimethoate								<4	
Dimethyl phthalate								<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	
Endrin ketone									
Ethyl methacrylate								<10	
Ethyl methanesulfonate								<8	
Ethylbenzene	<1	<1	<1	<1	<1	<1		<1	<1
Famphur								<4	
Fluoranthene								<8	

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

Table 9

Analytical Data Summary for MW91-19

Constituents	3/20/2015	9/17/2015	3/17/2016	6/15/2016	8/26/2016	9/29/2016	4/11/2017	7/14/2017	9/23/2017
Alpha-chlordane									
Ammonia as n									
Anthracene									
Antimony, total	<2	<2	<2		<2		<2		<2
Arsenic, total	<4.00	<4.00	<4.00		<4.00		<4.00		<4.00
Azobenzene									
Barium, total	331	275	372	310	362	291	325		516
Benzene	<1.0	<1.0	<1.0		<1.0		<1.0		<1.0
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total	<4.0	<4.0	<4.0		<4.0		<4.0		<4.0
Beta-bhc									
Bis(2-chloroethoxy)methane									
Bis(2-chloroethyl)ether									
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate									
Bis[2-chloroisopropyl]ether									
Bromochloromethane	<1	<1	<1		<1		<1		<1
Bromodichloromethane	<1	<1	<1		<1		<1		<1
Bromoform	<1	<1	<1		<1		<1		<1
Bromomethane	<1	<1	<1		<1		<1		<1
Butyl benzyl phthalate									
Cadmium, total	<.8	<.8	<.8		<.8		2.3	<.8	<.8
Carbon disulfide	<1	<1	<1		<1		<1		<1
Carbon tetrachloride	<1	<1	<1		<1		<1		<1
Chemical oxygen demand									
Chlordane									
Chloride									
Chlorobenzene	<1	<1	<1		<1		<1		<1
Chlorobenzilate									
Chlorodibromomethane									
Chloroethane	<1	<1	<1		<1		<1		<1
Chloroform	<1	<1	<1		<1		<1		<1
Chloromethane	<1	<1	<1		<1		<1		<1
Chloroprene									
Chromium, total	<8.0	<8.0	<8.0		<8.0		<8.0		<8.0
Chrysene									
Cis-1,2-dichloroethene	<1	<1	<1		<1		<1		<1
Cis-1,3-dichloropropene	<1	<1	<1		<1		<1		<1
Cobalt, total	<.8	<.8	<.8		1.0		<.8		<.8
Copper, total	<4	<4	<4		<4		<4		<4
Cyanide									
Dalapon									
Delta-bhc									
Diallate									
Diallate (cis or trans)									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane	<1	<1	<1		<1		<1		<1
Dibromomethane	<1	<1	<1		<1		<1		<1
Dicamba									
Dichlorodifluoromethane									
Dichloroprop									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan i									
Endosulfan ii									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Endrin ketone									
Ethyl methacrylate									
Ethyl methanesulfonate									
Ethylbenzene	<1	<1	<1		<1		<1		<1
Famphur									
Fluoranthene									

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

Table 9

Analytical Data Summary for MW91-19

Constituents	11/15/2017	4/10/2018	9/24/2018	4/16/2019	8/29/2019	4/10/2020	6/9/2020	10/9/2020	4/9/2021
Alpha-chlordane									
Ammonia as n									
Anthracene									
Antimony, total		<2	<2	<2	<2	<2		<2	<2
Arsenic, total		<4.00	<4.00	<4.00	<4.00	<4.00		<4.00	<4.00
Azobenzene									
Barium, total	296	339	281	342	335	373	327	495	328
Benzene		<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total		<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Beta-bhc									
Bis(2-chloroethoxy)methane									
Bis(2-chloroethyl)ether									
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate									
Bis[2-chloroisopropyl]ether									
Bromochloromethane		<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane		<1	<1	<1	<1	<1		<1	<1
Bromoform		<1	<1	<1	<1	<1		<1	<1
Bromomethane		<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate									
Cadmium, total		<.8	<.8	<.8	<.8	<.8		<.8	<.8
Carbon disulfide		<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride		<1	<1	<1	<1	<1		<1	<1
Chemical oxygen demand									
Chlordane									
Chloride									
Chlorobenzene		<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate									
Chlorodibromomethane									
Chloroethane		<1	<1	<1	<1	<1		<1	<1
Chloroform		<1	<1	<1	<1	<1		<1	<1
Chloromethane		<1	<1	<1	<1	<1		<1	<1
Chloroprene									
Chromium, total		<8.0	<8.0	<8.0	<8.0	<8.0		<8.0	<8.0
Chrysene									
Cis-1,2-dichloroethene		<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene		<1	<1	<1	<1	<1		<1	<1
Cobalt, total		<.8	<.8	<.8	<.8	<.4		2.4	<.4
Copper, total		<4	<4	<4	<4	<4		<4	<4
Cyanide									
Dalapon									
Delta-bhc									
Diallate									
Diallate (cis or trans)									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane		<1	<1	<1	<1	<1		<1	<1
Dibromomethane		<1	<1	<1	<1	<1		<1	<1
Dicamba									
Dichlorodifluoromethane									
Dichloroprop									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan i									
Endosulfan ii									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Endrin ketone									
Ethyl methacrylate									
Ethyl methanesulfonate									
Ethylbenzene		<1	<1	<1	<1	<1		<1	<1
Famphur									
Fluoranthene									

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

Table 9

Analytical Data Summary for MW91-19

Constituents	10/11/2021	4/7/2022	10/6/2022	1/4/2023	4/5/2023	10/13/2023	4/18/2024	10/15/2024	4/16/2025
Alpha-chlordane									
Ammonia as n									
Anthracene					<8		<8		
Antimony, total	<2	<2	<2		<2	<2	<2	<2	<1
Arsenic, total	<4.00	<4.00	<4.00		<4.00	<4.00	<4.00	<4.00	<2.00
Azobenzene					<8		<8		
Barium, total	321	343	504	434	380	482	303	276	315
Benzene	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0
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	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<5
Beta-bhc					<.05		<.05		
Bis(2-chloroethoxy)methane					<8		<8		
Bis(2-chloroethyl)ether					<8		<8		
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl)phthalate					<6		13	<6	
Bis[2-chloroisopropyl]ether					<8		<8		
Bromochloromethane	<1	<1	<1		<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1		<1	<1	<1	<1	<1
Bromoform	<1	<1	<1		<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1		<1	<1	<1	<1	<1
Butyl benzyl phthalate					<8		<8		
Cadmium, total	<.8	<.8	2.9	<.8	<.8	<.8	<.8	<.8	<.2
Carbon disulfide	<1	<1	<1		<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1		<1	<1	<1	<1	<1
Chemical oxygen demand									
Chlordane					<.1		<.1		
Chloride									
Chlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
Chlorobenzilate					<8		<8		
Chlorodibromomethane									
Chloroethane	<1	<1	<1		<1	<1	<1	<1	<1
Chloroform	<1	<1	<1		<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1		<1	<1	<1	<1	<1
Chloroprene					<1		<1		
Chromium, total	<8.0	<8.0	<8.0		<8.0	<8.0	<8.0	<8.0	<1.0
Chrysene					<8		<8		
Cis-1,2-dichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1		<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	1.9	.7	.5	1.4	<.4	<.4	<.5
Copper, total	<4	<4	<4		<4	<4	<4	<4	<5
Cyanide					<.005		<.005		
Dalapon									
Delta-bhc					<.05		<.05		
Diallate					<8		<8		
Diallate (cis or trans)									
Dibenzo(a,h)anthracene					<8		<8		
Dibenzofuran					<8		<8		
Dibromochloromethane	<1	<1	<1		<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1		<1	<1	<1	<1	<1
Dicamba									
Dichlorodifluoromethane					<1		<1		
Dichloroprop									
Dieldrin					<.05		<.05		
Diethyl phthalate					<8		<8		
Dimethoate					<.4		<.4		
Dimethyl phthalate					<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		
Endrin ketone									
Ethyl methacrylate					<10		<10		
Ethyl methanesulfonate					<8		<8		
Ethylbenzene	<1	<1	<1		<1	<1	<1	<1	<1
Famphur					<.4		<.4		
Fluoranthene					<8		<8		

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

Table 9

Analytical Data Summary for MW91-19

Constituents	10/27/2025
Alpha-chlordane	
Ammonia as n	
Anthracene	
Antimony, total	<1
Arsenic, total	<2.00
Azobenzene	
Barium, total	351
Benzene	<1.0
Benzo(a)anthracene	
Benzo(a)pyrene	
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
Benzyl alcohol	
Beryllium, total	<.5
Beta-bhc	
Bis(2-chloroethoxy)methane	
Bis(2-chloroethyl)ether	
Bis(2-chloroisopropyl) ether	
Bis(2-ethylhexyl)phthalate	
Bis[2-chloroisopropyl]ether	
Bromochloromethane	<1
Bromodichloromethane	<1
Bromoform	<1
Bromomethane	<1
Butyl benzyl phthalate	
Cadmium, total	.2
Carbon disulfide	<1
Carbon tetrachloride	<1
Chemical oxygen demand	
Chlordane	
Chloride	
Chlorobenzene	<1
Chlorobenzilate	
Chlorodibromomethane	
Chloroethane	<1
Chloroform	<1
Chloromethane	<1
Chloroprene	
Chromium, total	1.4
Chrysene	
Cis-1,2-dichloroethene	<1
Cis-1,3-dichloropropene	<1
Cobalt, total	3.0
Copper, total	<5
Cyanide	
Dalapon	
Delta-bhc	
Diallate	
Diallate (cis or trans)	
Dibenzo(a,h)anthracene	
Dibenzofuran	
Dibromochloromethane	<1
Dibromomethane	<1
Dicamba	
Dichlorodifluoromethane	
Dichloroprop	
Dieldrin	
Diethyl phthalate	
Dimethoate	
Dimethyl phthalate	
Di-n-butyl phthalate	
Di-n-octyl phthalate	
Dinoseb	
Diphenylamine	
Disulfoton	
Endosulfan i	
Endosulfan ii	
Endosulfan sulfate	
Endrin	
Endrin aldehyde	
Endrin ketone	
Ethyl methacrylate	
Ethyl methanesulfonate	
Ethylbenzene	<1
Famphur	
Fluoranthene	

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

Table 9

Analytical Data Summary for MW91-19

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Fluorene	ug/L		<10						
Gamma-bhc (lindane)	ug/L		<.05						
Gamma-chlordane	ug/L		<.05						
Heptachlor	ug/L		<.05						
Heptachlor epoxide	ug/L		<.05						
Hexachlorobenzene	ug/L		<10.00						
Hexachlorobutadiene	ug/L		<10						
Hexachlorocyclopentadiene	ug/L		<10						
Hexachloroethane	ug/L		<10						
Hexachloropropene	ug/L		<10						
Indeno(1,2,3-cd)pyrene	ug/L		<10						
Iodomethane	ug/L		<10		<10	<10	<1	<1	<1
Iron, dissolved	mg/L	<.1		<.1					
Iron, total	mg/L	<.1		<.1					
Isobutanol	ug/L		<10						
Isodrin	ug/L		<10						
Isophorone	ug/L		<10						
Isosafrole	ug/L		<10						
Kepone	ug/L		<10						
Lead, total	ug/L		<4		<4	<4	<4	<4	<4
Mcpa	ug/L		<500						
Mcpp	ug/L		<500						
Mercury, total	ug/L		<.2						
Methacrylonitrile	ug/L		<1						
Methapyrilene	ug/L		<10						
Methoxychlor	ug/L		<.05						
Methyl methacrylate	ug/L		<2						
Methyl methanesulfonate	ug/L		<10						
Methyl parathion	ug/L								
Methylene chloride	ug/L		<10		<5	<5	<5	<5	<5
Naphthalene	ug/L		<5						
Nickel, total	ug/L		<50.0		<50.0	<50.0	7.1	6.7	6.9
Nitrobenzene	ug/L		<10						
N-nitrosodiethylamine	ug/L		<10						
N-nitrosodimethylamine	ug/L		<10						
N-nitrosodi-n-butylamine	ug/L		<10						
N-nitroso-di-n-propylamine	ug/L		<10						
N-nitrosodiphenylamine	ug/L		<10						
N-nitrosomethylethylamine	ug/L		<10						
N-nitrosopiperidine	ug/L		<10						
N-nitrosopyrrolidine	ug/L		<10						
O,o,o-triethyl phosphorothioate	ug/L		<30.0						
O-toluidine	ug/L		<10						
P-(dimethylamino)azobenzene	ug/L		<10						
Parathion	ug/L								
Parathion-ethyl	ug/L		<10						
Parathion-methyl	ug/L		<10						
Pcb-1016	ug/L		<.8						
Pcb-1221	ug/L		<.8						
Pcb-1232	ug/L		<.8						
Pcb-1242	ug/L		<.8						
Pcb-1248	ug/L		<.8						
Pcb-1254	ug/L		<.8						
Pcb-1260	ug/L		<.8						
Pcb-1268	ug/L		<.8						
Pentachlorobenzene	ug/L		<10						
Pentachloroethane	ug/L		<10						
Pentachloronitrobenzene	ug/L		<10						
Pentachlorophenol	ug/L		<8 *						
pH	units	7.16	<2.00	7.29	<2.00	6.60			
Phenacetin	ug/L		<10						
Phenanthrene	ug/L		<10						
Phenol	ug/L		<20						
Phorate	ug/L		<60.0						
Picloram	ug/L		<5						
Pronamide	ug/L		<10						
Propionitrile	ug/L		<10						
Pyrene	ug/L		<10						
Pyridine	ug/L		<10						
Safrole	ug/L		<10						
Selenium, total	ug/L		<5		<5	<5	<4	<4	<4
Silver, total	ug/L		<20		<20	<20	<4	<4	<4
Specific conductance	umhos/cm	694		536		778			
Styrene	ug/L		<1		<1	<1	<1	<1	<1
Sulfide, total	mg/L		<2.00						
Terphenyl-dl4	ug/L								55
Tetrachloroethene	ug/L		<1		<1	<1	<1	<1	<1

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

Table 9

Analytical Data Summary for MW91-19

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Fluorene								<8	
Gamma-bhc (lindane)								<.05	
Gamma-chlordane									
Heptachlor								<.05	
Heptachlor epoxide								<.05	
Hexachlorobenzene								<4.03 *	
Hexachlorobutadiene								<8	
Hexachlorocyclopentadiene								<8	
Hexachloroethane								<8	
Hexachloropropene								<8	
Indeno(1,2,3-cd)pyrene								<8	
Iodomethane	<1	<1	<1	<1	<1	<1		<1	<1
Iron, dissolved									
Iron, total									
Isobutanol								<1000	
Isodrin								<8	
Isophorone								<8	
Isosafrole								<8	
Kepone								<8	
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mcpa									
Mcpp									
Mercury, total								<.5	
Methacrylonitrile								<1	
Methapyrilene								<8	
Methoxychlor								<.05	
Methyl methacrylate								<1	
Methyl methanesulfonate								<8	
Methyl parathion								<.4	
Methylene chloride	<5	<5	<5	<5	<5	<5		<5	<5
Naphthalene								<8	
Nickel, total	9.7	8.3	6.2	6.8	6.0	5.5	4.4	4.3	6.8
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	
Parathion-ethyl									
Parathion-methyl									
Pcb-1016								<.1	
Pcb-1221								<.2	
Pcb-1232								<.2	
Pcb-1242								<.2	
Pcb-1248								<.2	
Pcb-1254								<.1	
Pcb-1260								<.1	
Pcb-1268									
Pentachlorobenzene								<8	
Pentachloroethane									
Pentachloronitrobenzene								<8	
Pentachlorophenol								<8	
pH									
Phenacetin								<8	
Phenanthrene								<8	
Phenol								<8	
Phorate								<.4	
Picloram									
Pronamide								<8	
Propionitrile								<10	
Pyrene								<8	
Pyridine									
Safrole								<8	
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1		<1	<1
Sulfide, total								<.10	
Terphenyl-dl4									
Tetrachloroethene	<1	<1	<1	<1	<1	<1		<1	<1

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

Table 9

Analytical Data Summary for MW91-19

Constituents	3/20/2015	9/17/2015	3/17/2016	6/15/2016	8/26/2016	9/29/2016	4/11/2017	7/14/2017	9/23/2017
Fluorene									
Gamma-bhc (lindane)									
Gamma-chlordane									
Heptachlor									
Heptachlor epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Iodomethane	<1	<1	<1		<1		<1		<1
Iron, dissolved									
Iron, total									
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepone									
Lead, total	<4	<4	<4		<4		<4		<4
Mcpa									
Mcpp									
Mercury, total									
Methacrylonitrile									
Methapyriline									
Methoxychlor									
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride	<5	<5	<5		<5		<5		<5
Naphthalene									
Nickel, total	4.0	<4.0	5.2		7.1		5.1		4.5
Nitrobenzene									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
P-(dimethylamino)azobenzene									
Parathion									
Parathion-ethyl									
Parathion-methyl									
Pcb-1016									
Pcb-1221									
Pcb-1232									
Pcb-1242									
Pcb-1248									
Pcb-1254									
Pcb-1260									
Pcb-1268									
Pentachlorobenzene									
Pentachloroethane									
Pentachloronitrobenzene									
Pentachlorophenol									
pH									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Picloram									
Pronamide									
Propionitrile									
Pyrene									
Pyridine									
Safrole									
Selenium, total	<4	<4	<4		<4		<4		<4
Silver, total	<4	<4	<4		<4		<4		<4
Specific conductance									
Styrene	<1	<1	<1		<1		<1		<1
Sulfide, total									
Terphenyl-dl4									
Tetrachloroethene	<1	<1	<1		<1		<1		<1

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

Table 9

Analytical Data Summary for MW91-19

Constituents	11/15/2017	4/10/2018	9/24/2018	4/16/2019	8/29/2019	4/10/2020	6/9/2020	10/9/2020	4/9/2021
Fluorene									
Gamma-bhc (lindane)									
Gamma-chlordane									
Heptachlor									
Heptachlor epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Iodomethane		<1	<1	<1	<1	<1		<1	<1
Iron, dissolved									
Iron, total									
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepon									
Lead, total		<4	<4	<4	<4	<4		<4	<4
Mcpa									
Mcpp									
Mercury, total									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride		<5	<5	<5	<5	<5		<5	<5
Naphthalene									
Nickel, total		<4.0	<4.0	<4.0	<4.0	5.7		9.3	<4.0
Nitrobenzene									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
P-(dimethylamino)azobenzene									
Parathion									
Parathion-ethyl									
Parathion-methyl									
Pcb-1016									
Pcb-1221									
Pcb-1232									
Pcb-1242									
Pcb-1248									
Pcb-1254									
Pcb-1260									
Pcb-1268									
Pentachlorobenzene									
Pentachloroethane									
Pentachloronitrobenzene									
Pentachlorophenol									
pH									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Picloram									
Pronamide									
Propionitrile									
Pyrene									
Pyridine									
Safrole									
Selenium, total		<4	<4	<4	<4	<4		<4	<4
Silver, total		<4	<4	<4	<4	<4		<4	<4
Specific conductance									
Styrene		<1	<1	<1	<1	<1		<1	<1
Sulfide, total									
Terphenyl-dl4									
Tetrachloroethene		<1	<1	<1	<1	<1		<1	<1

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

Table 9

Analytical Data Summary for MW91-19

Constituents	10/11/2021	4/7/2022	10/6/2022	1/4/2023	4/5/2023	10/13/2023	4/18/2024	10/15/2024	4/16/2025
Fluorene					<8		<8		
Gamma-bhc (lindane)					<.05		<.05		
Gamma-chlordane									
Heptachlor					<.05		<.05		
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	<1	<1	<1		<2	<1	<2	<1	<1
Iron, dissolved									
Iron, total									
Isobutanol					<1000		<1000		
Isodrin					<8		<8		
Isophorone					<8		<8		
Isosafrole					<8		<8		
Kepone					<8		<8		
Lead, total	<4	<4	<4		<4	<4	<4	<4	<1
Mcpa									
Mcpp									
Mercury, total					<.5		<.5		
Methacrylonitrile					<1		<1		
Methapyrilene					<8		<8		
Methoxychlor					<.05		<.05		
Methyl methacrylate					<1		<1		
Methyl methanesulfonate					<8		<8		
Methyl parathion					<.4		<.4		
Methylene chloride	<5	<5	<5		<5	<5	<5	<5	<5
Naphthalene					<8		<8		
Nickel, total	<4.0	<4.0	7.8	10.1	<4.0	5.3	<4.0	<4.0	<5.0
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		
Parathion-ethyl									
Parathion-methyl									
Pcb-1016					<.1		<.2		
Pcb-1221					<.2		<.2		
Pcb-1232					<.2		<.2		
Pcb-1242					<.2		<.2		
Pcb-1248					<.2		<.2		
Pcb-1254					<.1		<.2		
Pcb-1260					<.1		<.2		
Pcb-1268									
Pentachlorobenzene					<8		<8		
Pentachloroethane									
Pentachloronitrobenzene					<8		<8		
Pentachlorophenol					<8		<8		
pH									
Phenacetin					<8		<8		
Phenanthrene					<8		<8		
Phenol					<8		<8		
Phorate					<.4		<.4		
Picloram									
Pronamide					<8		<8		
Propionitrile					<10		<10		
Pyrene					<8		<8		
Pyridine									
Safrole					<8		<8		
Selenium, total	<4	<4	<4		<4	<4	<4	<4	<2
Silver, total	<4	<4	<4		<4	<4	<4	<4	<5
Specific conductance									
Styrene	<1	<1	<1		<1	<1	<1	<1	<1
Sulfide, total					<.10		<.15		
Terphenyl-dl4									
Tetrachloroethene	<1	<1	<1		<1	<1	<1	<1	<1

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

Table 9

Analytical Data Summary for MW91-19

Constituents	10/27/2025
Fluorene	
Gamma-bhc (lindane)	
Gamma-chlordane	
Heptachlor	
Heptachlor epoxide	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Hexachloropropene	
Indeno(1,2,3-cd)pyrene	
Iodomethane	<1
Iron, dissolved	
Iron, total	
Isobutanol	
Isodrin	
Isophorone	
Isosafrole	
Kepone	
Lead, total	<1
Mcpa	
Mcpp	
Mercury, total	
Methacrylonitrile	
Methapyrilene	
Methoxychlor	
Methyl methacrylate	
Methyl methanesulfonate	
Methyl parathion	
Methylene chloride	<5
Naphthalene	
Nickel, total	<5.0
Nitrobenzene	
N-nitrosodiethylamine	
N-nitrosodimethylamine	
N-nitrosodi-n-butylamine	
N-nitroso-di-n-propylamine	
N-nitrosodiphenylamine	
N-nitrosomethylethylamine	
N-nitrosopiperidine	
N-nitrosopyrrolidine	
O,o,o-triethyl phosphorothioate	
O-toluidine	
P-(dimethylamino)azobenzene	
Parathion	
Parathion-ethyl	
Parathion-methyl	
Pcb-1016	
Pcb-1221	
Pcb-1232	
Pcb-1242	
Pcb-1248	
Pcb-1254	
Pcb-1260	
Pcb-1268	
Pentachlorobenzene	
Pentachloroethane	
Pentachloronitrobenzene	
Pentachlorophenol	
pH	
Phenacetin	
Phenanthrene	
Phenol	
Phorate	
Picloram	
Pronamide	
Propionitrile	
Pyrene	
Pyridine	
Safrole	
Selenium, total	<2
Silver, total	<5
Specific conductance	
Styrene	<1
Sulfide, total	
Terphenyl-dl4	
Tetrachloroethene	<1

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

Table 9

Analytical Data Summary for MW91-19

Constituents	Units	3/21/2008	6/9/2008	9/2/2008	10/16/2008	3/5/2009	9/30/2009	3/23/2010	9/7/2010
Thallium, total	ug/L		<2.0		<2.0	<2.0	<4.0	<4.0	<4.0
Thionazin	ug/L		<10.0						
Tin, total	ug/L		<100						
Toluene	ug/L		<1		<1	<1	<1	<1	<1
Total organic halides	mg/L			.0164 *					
Total suspended solids	mg/L								
Toxaphene	ug/L		<2.0						
Trans-1,2-dichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L		<5		<5	<5	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L		<10		<10	<10	<5	<5	<5
Trichloroethene	ug/L		<1		<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L		<4		<4	<4	<1	<1	<1
Vanadium, total	ug/L		<50.0		<50.0	<50.0	<10.0	<10.0	<10.0
Vinyl acetate	ug/L		<2		<2	<2	<5	<5	<5
Vinyl chloride	ug/L		<1		<1	<1	<1	<1	<1
Xylenes, total	ug/L		<3		<3	<3	<2	<2	<2
Zinc, total	ug/L		56.4		<20.0	34.4	18.1	17.0	<10.0

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

Table 9

Analytical Data Summary for MW91-19

Constituents	4/5/2011	9/6/2011	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0
Thionazin								<4	
Tin, total								<20	
Toluene	<1	<1	<1	<1	<1	<1		<1	<1
Total organic halides									
Total suspended solids									43
Toxaphene								<.2	
Trans-1,2-dichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5		<5	<5
Trichloroethene	<1	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	20.8	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2		<2	<2
Zinc, total	<8.0	<8.0	<8.0	<8.0	<8.0	<20.0	8.6	<20.0	<8.0

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

Table 9

Analytical Data Summary for MW91-19

Constituents	3/20/2015	9/17/2015	3/17/2016	6/15/2016	8/26/2016	9/29/2016	4/11/2017	7/14/2017	9/23/2017
Thallium, total	<4.0	<4.0	<4.0		<4.0		<4.0		<4.0
Thionazin									
Tin, total									
Toluene	<1	<1	<1		<1		<1		<1
Total organic halides									
Total suspended solids	31	3	<2		<2		44		4
Toxaphene									
Trans-1,2-dichloroethene	<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
Trichloroethene	<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		<20.0
Vinyl acetate	<5	<5	<5		<5		<5		<5
Vinyl chloride	<1	<1	<1		<1		<1		<1
Xylenes, total	<2	<2	<2		<2		<2		<2
Zinc, total	8.4	<8.0	<8.0		<8.0		<8.0		<8.0

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

Table 9

Analytical Data Summary for MW91-19

Constituents	11/15/2017	4/10/2018	9/24/2018	4/16/2019	8/29/2019	4/10/2020	6/9/2020	10/9/2020	4/9/2021
Thallium, total		<4.0	<4.0	<2.0	<2.0	<2.0		<2.0	<2.0
Thionazin									
Tin, total									
Toluene		<1	<1	<1	<1	<1		<1	<1
Total organic halides									
Total suspended solids		<2	4	<2	<2	2		7	
Toxaphene									
Trans-1,2-dichloroethene		<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene		<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene		<5	<5	<5	<5	<5		<5	<5
Trichloroethene		<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane		<1	<1	<1	<1	<1		<1	<1
Vanadium, total		<20.0	<20.0	<20.0	<20.0	<20.0		<20.0	<20.0
Vinyl acetate		<5	<5	<5	<5	<5		<5	<5
Vinyl chloride		<1	<1	<1	<1	<1		<1	<1
Xylenes, total		<2	<2	<2	<2	<2		<2	<2
Zinc, total		<20.0	<8.0	<8.0	<8.0	<20.0		<20.0	<20.0

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

Table 9

Analytical Data Summary for MW91-19

Constituents	10/11/2021	4/7/2022	10/6/2022	1/4/2023	4/5/2023	10/13/2023	4/18/2024	10/15/2024	4/16/2025
Thallium, total	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<5
Thionazin					<.4		<.4		
Tin, total					<20		<20		
Toluene	<1	<1	<1		<1	<1	<1	<1	<1
Total organic halides									
Total suspended solids									
Toxaphene					<.2		<.2		
Trans-1,2-dichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5		<5	<5	<5	<5	<5
Trichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1		<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0		<20.0	<20.0	<20.0	<20.0	<2.0
Vinyl acetate	<5	<5	<5		<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1		<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2		<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0		<20.0	<20.0	<20.0	<20.0	<5.0

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

Table 9

Analytical Data Summary for MW91-19

Constituents	10/27/2025
Thallium, total	<.5
Thionazin	
Tin, total	
Toluene	<1
Total organic halides	
Total suspended solids	
Toxaphene	
Trans-1,2-dichloroethene	<1
Trans-1,3-dichloropropene	<1
Trans-1,4-dichloro-2-butene	<5
Trichloroethene	<1
Trichlorofluoromethane	<1
Vanadium, total	<2.0
Vinyl acetate	<5
Vinyl chloride	<1
Xylenes, total	<2
Zinc, total	6.9

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

Table 9

Analytical Data Summary for MW91-20

Constituents	Units	3/21/2008	9/2/2008	3/5/2009	3/6/2009	9/30/2009	3/23/2010	9/7/2010	4/5/2011	9/6/2011
1,1,1,2-tetrachloroethane	ug/L					<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L					<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L					<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L					<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L					<1	<1	<1	<1	<1
1,1-dichloroethene	ug/L					<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L					<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L					<1	<1	<1	<1	<1
1,2-dibromoethane (edb)	ug/L					<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L					<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L					<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L					<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L					<1	<1	<1	<1	<1
2-butanone (mek)	ug/L					<5	<5	<5	<5	<5
2-hexanone	ug/L					<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L					<5	<5	<5	<5	<5
Acetone	ug/L					<10	<10	<10	<10	<10
Acrylonitrile	ug/L					<5	<5	<5	<5	<5
Ammonia as n	mg/L	<.2 *	<.2 *	<.2	<.2					
Antimony, total	ug/L					<1	<2	<2	<2	<2
Arsenic, total	ug/L					<4	<4	<4	<4	<4
Barium, total	ug/L					174	138	156	168	156
Benzene	ug/L					<1	<1	<1	<1	<1
Beryllium, total	ug/L					<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L					<1	<1	<1	<1	<1
Bromodichloromethane	ug/L					<1	<1	<1	<1	<1
Bromoform	ug/L					<1	<1	<1	<1	<1
Bromomethane	ug/L					<1	<1	<1	<1	<1
Cadmium, total	ug/L					<1.0	<1.0	<1.0	<.8	<.8
Carbon disulfide	ug/L					<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	ug/L					<1	<1	<1	<1	<1
Chemical oxygen demand	mg/L	<5 *	<5 *	<5	<5					
Chloride	mg/L	6.11 *	<5.00 *	<5.00	<5.00					
Chlorobenzene	ug/L					<1	<1	<1	<1	<1
Chloroethane	ug/L					<1	<1	<1	<1	<1
Chloroform	ug/L					<1	<1	<1	<1	<1
Chloromethane	ug/L					<1	<1	<1	<1	<1
Chromium, total	ug/L					<10.0	<10.0	<10.0	<8.0	<20.0
Cis-1,2-dichloroethene	ug/L					<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L					<1	<1	<1	<1	<1
Cobalt, total	ug/L					<4.0	<4.0	<4.0	<4.0	<4.0
Copper, total	ug/L					<4	<4	<4	<4	<4
Dibromochloromethane	ug/L					<1	<1	<1	<1	<1
Dibromomethane	ug/L					<1	<1	<1	<1	<1
Ethylbenzene	ug/L					<1	<1	<1	<1	<1
Iodomethane	ug/L					<1	<1	<1	<1	<1
Iron, dissolved	mg/L	<.1	<.1	<.1	<.1					
Iron, total	mg/L	<.1	<.1							
Lead, total	ug/L					<4	<4	<4	<4	<4
Methylene chloride	ug/L					<5	<5	<5	<5	<5
Nickel, total	ug/L					5.6	4.4	5.6	5.1	5.3
pH	units	7.95	8.32	7.72						
Phenol	ug/L		<20 *							
Selenium, total	ug/L					4.5	5.0	7.4	4.1	11.3
Silver, total	ug/L					<4	<4	<4	<4	<4
Specific conductance	umhos/cm	453	420	517						
Styrene	ug/L					<1	<1	<1	<1	<1
Tetrachloroethene	ug/L					<1	<1	<1	<1	<1
Thallium, total	ug/L					<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L					<1	<1	<1	<1	<1
Total organic halides	mg/L		<.01 *							
Total suspended solids	mg/L									
Trans-1,2-dichloroethene	ug/L					<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L					<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L					<5	<5	<5	<5	<5
Trichloroethene	ug/L					<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L					<1	<1	<1	<1	<1
Vanadium, total	ug/L					<10.0	<10.0	<10.0	22.4	<20.0
Vinyl acetate	ug/L					<5	<5	<5	<5	<5
Vinyl chloride	ug/L					<1	<1	<1	<1	<1
Xylenes, total	ug/L					<2	<2	<2	<2	<2
Zinc, total	ug/L					13.0	<10.0	<10.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW91-20

Constituents	3/16/2012	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014	3/20/2015	9/17/2015
1,1,1,2-tetrachloroethane	<1	<1	<1	<1		<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1		<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1		<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1		<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1		<1	<1	<1	<1
1,1-dichloroethene	<1	<1	<1	<1		<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1		<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1		<1	<1	<1	<1
1,2-dibromoethane (edb)	<1	<1	<1	<1		<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1		<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1		<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1		<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1		<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5		<5	<5	<5	<5
2-hexanone	<5	<5	<5	<5		<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5		<5	<5	<5	<5
Acetone	<10	<10	<10	<10		<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5		<5	<5	<5	<5
Ammonia as n									
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	152	140	149	263	151	176	169	172	167
Benzene	<1	<1	<1	<1		<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1		<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1		<1	<1	<1	<1
Bromoform	<1	<1	<1	<1		<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1		<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1	<1	<1	<1		<1	<1	<1	<1
Chemical oxygen demand									
Chloride									
Chlorobenzene	<1	<1	<1	<1		<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1		<1	<1	<1	<1
Chloroform	<1	<1	<1	<1		<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1		<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethene	<1	<1	<1	<1		<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1		<1	<1	<1	<1
Cobalt, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<.8	.8	<.8
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	<1	<1	<1	<1		<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1		<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1		<1	<1	<1	<1
Iodomethane	<1	<1	<1	<1		<1	<1	<1	<1
Iron, dissolved									
Iron, total									
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methylene chloride	<5	<5	<5	<5		<5	<5	<5	<5
Nickel, total	<4.0	<4.0	6.1	4.4	<4.0	<4.0	<4.0	<4.0	<4.0
pH									
Phenol									
Selenium, total	13.3	9.5	<4.0	22.3	8.1	5.3	<4.0	4.1	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1	<1	<1	<1		<1	<1	<1	<1
Tetrachloroethene	<1	<1	<1	<1		<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	<1	<1	<1	<1		<1	<1	<1	<1
Total organic halides									
Total suspended solids							10	23	2
Trans-1,2-dichloroethene	<1	<1	<1	<1		<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1		<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5		<5	<5	<5	<5
Trichloroethene	<1	<1	<1	<1		<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1		<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5		<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1		<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2		<2	<2	<2	<2
Zinc, total	<8.0	<8.0	11.1	<20.0	14.6	<20.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW91-20

Constituents	3/17/2016	8/26/2016	4/11/2017	9/23/2017	4/10/2018	9/24/2018	4/16/2019	8/29/2019	4/10/2020
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<5
1,2-dibromoethane (edb)	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ammonia as n									
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	195	168	180	186	182	180	191	164	212
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chemical oxygen demand									
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iron, dissolved									
Iron, total									
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
pH									
Phenol									
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total organic halides									
Total suspended solids	<2	<2	41	4	<2	<2	<2	<2	<2
Trans-1,2-dichloroethene	<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
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<8.0	<8.0	<8.0	<20.0	<8.0	<8.0	<8.0	<20.0

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

Table 9

Analytical Data Summary for MW91-20

Constituents	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	1/4/2023	4/5/2023	10/13/2023	4/18/2024
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1		<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1		<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5		<5	<5	<5
1,2-dibromoethane (edb)	<1	<1	<1	<1	<1		<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1		<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1		<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1		<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1		<1	<1	<1
2-butanone (mek)	<5	<5	<5	<10	<10		<10	<10	<10
2-hexanone	<5	<5	<5	<5	<5		<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5		<5	<5	<5
Acetone	<10	<10	<10	<10	<10		<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5		<5	<5	<5
Ammonia as n									
Antimony, total	<2	<2	<2	<2	<2		<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4		<4	<4	<4
Barium, total	197	191	180	204	181		192	210	202
Benzene	<1	<1	<1	<1	<1		<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1		<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1		<1	<1	<1
Bromoform	<1	<1	<1	<1	<1		<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1		<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	2.6	<.8	<.8	<.8	<.8
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0
Carbon tetrachloride	<1	<1	<1	<1	<1		<1	<1	<1
Chemical oxygen demand									
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1		<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1		<1	<1	<1
Chloroform	<1	<1	<1	<1	<1		<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1		<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0		<8.0	<8.0	<8.0
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1		<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1		<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	.4		<.4	<.4	<.4
Copper, total	<.4	<.4	<.4	<.4	<.4		<.4	<.4	<.4
Dibromochloromethane	<1	<1	<1	<1	<1		<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1		<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1		<1	<1	<1
Iodomethane	<1	<1	<1	<1	<1		<1	<1	<1
Iron, dissolved									
Iron, total									
Lead, total	<.4	<.4	<.4	<.4	<.4		<.4	<.4	<.4
Methylene chloride	<.5	<.5	<.5	<.5	<.5		<.5	<.5	<.5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0
pH									
Phenol									
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0
Silver, total	<.4	<.4	<.4	<.4	<.4		<.4	<.4	<.4
Specific conductance									
Styrene	<1	<1	<1	<1	<1		<1	<1	<1
Tetrachloroethene	<1	<1	<1	<1	<1		<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1		<1	<1	<1
Total organic halides									
Total suspended solids	10								
Trans-1,2-dichloroethene	<1	<1	<1	<1	<1		<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1		<1	<1	<1
Trans-1,4-dichloro-2-butene	<.5	<.5	<.5	<.5	<.5		<.5	<.5	<.5
Trichloroethene	<1	<1	<1	<1	<1		<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1		<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0		<20.0	<20.0	<20.0
Vinyl acetate	<.5	<.5	<.5	<.5	<.5		<.5	<.5	<.5
Vinyl chloride	<1	<1	<1	<1	<1		<1	<1	<1
Xylenes, total	<.2	<.2	<.2	<.2	<.2		<.2	<.2	<.2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0		<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW91-20

Constituents	10/15/2024	4/16/2025	10/27/2025
1,1,1,2-tetrachloroethane	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1
1,1-dichloroethane	<1	<1	<1
1,1-dichloroethene	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5
1,2-dibromoethane (edb)	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1
1,2-dichloroethane	<1	<1	<1
1,2-dichloropropane	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1
2-butanone (mek)	<10	<10	<10
2-hexanone	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5
Acetone	<10	<10	<10
Acrylonitrile	<5	<5	<5
Ammonia as n			
Antimony, total	<2	<1	<1
Arsenic, total	<4	<2	<2
Barium, total	161	183	184
Benzene	<1	<1	<1
Beryllium, total	<4.0	<.5	<.5
Bromochloromethane	<1	<1	<1
Bromodichloromethane	<1	<1	<1
Bromoform	<1	<1	<1
Bromomethane	<1	<1	<1
Cadmium, total	<.8	.9	<.2
Carbon disulfide	<1.0	<1.0	2.1
Carbon tetrachloride	<1	<1	<1
Chemical oxygen demand			
Chloride			
Chlorobenzene	<1	<1	<1
Chloroethane	<1	<1	<1
Chloroform	<1	<1	<1
Chloromethane	<1	<1	<1
Chromium, total	<8.0	1.3	1.4
Cis-1,2-dichloroethene	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1
Cobalt, total	<.4	<.5	<.5
Copper, total	<4	<5	<5
Dibromochloromethane	<1	<1	<1
Dibromomethane	<1	<1	<1
Ethylbenzene	<1	<1	<1
Iodomethane	<1	<1	<1
Iron, dissolved			
Iron, total			
Lead, total	<4	<1	<1
Methylene chloride	<5	<5	<5
Nickel, total	<4.0	<5.0	<5.0
pH			
Phenol			
Selenium, total	<4.0	<2.0	<2.0
Silver, total	<4	<5	<5
Specific conductance			
Styrene	<1	<1	<1
Tetrachloroethene	<1	<1	<1
Thallium, total	<2.0	<.5	<.5
Toluene	<1	<1	<1
Total organic halides			
Total suspended solids			
Trans-1,2-dichloroethene	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5
Trichloroethene	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1
Vanadium, total	<20.0	<2.0	<2.0
Vinyl acetate	<5	<5	<5
Vinyl chloride	<1	<1	<1
Xylenes, total	<2	<2	<2
Zinc, total	<20.0	<5.0	7.2

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

Table 9**Analytical Data Summary for SW-1**

Constituents	Units	3/21/2008	9/2/2008
Ammonia as n	mg/L	<.2 *	<.2 *
Chemical oxygen demand	mg/L	8.6 *	11.8 *
Chloride	mg/L	9.47 *	6.62 *
Iron, dissolved	mg/L	<.1	<.1
Iron, total	mg/L	<.1	<.1
pH	units	8.37	7.82
Phenol	ug/L		<20 *
Specific conductance	umhos/cm	518	432
Total organic halides	mg/L		.026 *

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

Table 9

Analytical Data Summary for SW-2

Constituents	Units	3/21/2008	9/2/2008
Ammonia as n	mg/L	<.2 *	<.2 *
Chemical oxygen demand	mg/L	<5.0 *	7.9 *
Chloride	mg/L	14.2 *	12.2 *
Iron, dissolved	mg/L	<.1	<.1
Iron, total	mg/L	<.1	<.1
pH	units	8.67	8.10
Phenol	ug/L		<20 *
Specific conductance	umhos/cm	521	433
Total organic halides	mg/L		<.01 *

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

Table 9

Analytical Data Summary for SW-3

Constituents	Units	3/21/2008	3/5/2009	3/6/2009	9/30/2009	3/23/2010	9/7/2010	4/5/2011	9/6/2011	3/16/2012
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-dichloroethene	ug/L				<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L				<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L				<1	<1	<1	<1	<1	<1
1,2-dibromoethane (edb)	ug/L				<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L				<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L				<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L				<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L				<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L				<5	<5	<5	<5	<5	<5
2-hexanone	ug/L				<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L				<5	<5	<5	<5	<5	<5
Acetone	ug/L				<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L				<5	<5	<5	<5	<5	<5
Ammonia as n	mg/L	<.200 *	.277	.277						
Antimony, total	ug/L				<1	<2	<2	<2	<2	<2
Arsenic, dissolved	ug/L		1.30	1.25						
Arsenic, total	ug/L				<4	<4	<4	<4	<4	<4
Barium, dissolved	ug/L		138	138						
Barium, total	ug/L				282	268	261	245	324	211
Benzene	ug/L				<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L				<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
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
Cadmium, total	ug/L				<1.0	<1.0	<1.0	<.8	<.8	<.8
Carbon disulfide	ug/L				<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L				<1	<1	<1	<1	<1	<1
Chemical oxygen demand	mg/L	6.2 *	16.2	16.2						
Chloride	mg/L	9.47 *	21.30	21.30						
Chlorobenzene	ug/L				<1	<1	<1	<1	<1	<1
Chloroethane	ug/L				<1	<1	<1	<1	<1	<1
Chloroform	ug/L				<1	<1	<1	<1	<1	<1
Chloromethane	ug/L				<1	<1	<1	<1	<1	<1
Chromium, total	ug/L				<10	<10	<10	<8	<20	<8
Cis-1,2-dichloroethene	ug/L				<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L				<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L				<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Copper, total	ug/L				<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L				<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L				<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L				<1	<1	<1	<1	<1	<1
Iodomethane	ug/L				<1	<1	<1	<1	<1	<1
Iron, dissolved	mg/L	<.1	<.1	<.1						
Iron, total	mg/L	<.1								
Lead, total	ug/L				<4	<4	<4	<4	<4	<4
Methylene chloride	ug/L				<5	<5	<5	<5	<5	<5
Nickel, total	ug/L				<4.0	7.6	<4.0	7.3	4.1	4.2
pH	units	8.39	7.71							
Selenium, total	ug/L				<4	<4	<4	<4	<4	<4
Silver, total	ug/L				<4	<4	<4	<4	<4	<4
Specific conductance	umhos/cm	517	437							
Styrene	ug/L				<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L				<1	<1	<1	<1	<1	<1
Thallium, total	ug/L				<4.0	<4.0	<4.0	<4.0	<4.0	<2.0
Toluene	ug/L				<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L									
Trans-1,2-dichloroethene	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
Trichloroethene	ug/L				<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L				<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L				<10.0	<10.0	<10.0	24.5	<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, dissolved	mg/L		<.02	<.02						
Zinc, total	ug/L				13.1	22.4	<10.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for SW-3

Constituents	9/24/2012	4/24/2013	9/20/2013	10/28/2013	4/8/2014	9/22/2014	3/20/2015	9/17/2015	3/17/2016
1,1,1,2-tetrachloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1-dichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dibromoethane (edb)	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1		<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5		<5	<5	<5	<5	<5
2-hexanone	<5	<5	<5		<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5		<5	<5	<5	<5	<5
Acetone	<10	<10	<10		<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5		<5	<5	<5	<5	<5
Ammonia as n									
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, dissolved									
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, dissolved									
Barium, total	259	184	514	290	207	312	235	317	313
Benzene	<1	<1	<1		<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1		<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1		<1	<1	<1	<1	<1
Bromoform	<1	<1	<1		<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1		<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1		<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1		<1	<1	<1	<1	<1
Chemical oxygen demand									
Chloride									
Chlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1		<1	<1	<1	<1	<1
Chloroform	<1	<1	<1		<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1		<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1		<1	<1	<1	<1	<1
Cobalt, total	<4.0	<4.0	<4.0	<4.0	<4.0	<.8	<.8	<.8	<.8
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	<1	<1	<1		<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1		<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1		<1	<1	<1	<1	<1
Iodomethane	<1	<1	<1		<1	<1	<1	<1	<1
Iron, dissolved									
Iron, total									
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methylene chloride	<5	<5	<5		<5	<5	<5	<5	<5
Nickel, total	4.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
pH									
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1	<1	<1		<1	<1	<1	<1	<1
Tetrachloroethene	<1	<1	<1		<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	<1	<1	<1		<1	<1	<1	<1	<1
Total suspended solids						<2	<2	<2	<2
Trans-1,2-dichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5		<5	<5	<5	<5	<5
Trichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1		<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5		<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1		<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2		<2	<2	<2	<2	<2
Zinc, dissolved									
Zinc, total	<8.0	<8.0	<20.0	<8.0	<20.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for SW-3

Constituents	8/26/2016	4/11/2017	9/23/2017	4/10/2018	9/24/2018	8/29/2019	4/10/2020	10/9/2020	4/9/2021
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<1	<1	<5	<5	<5
1,2-dibromoethane (edb)	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ammonia as n									
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, dissolved									
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, dissolved									
Barium, total	311	282	342	258	343	355	305	319	248
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chemical oxygen demand									
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.8	<.8	<.4	<.4	<.4
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iron, dissolved									
Iron, total									
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
pH									
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	<2	<2	37	<2	44	39	<2	1	
Trans-1,2-dichloroethene	<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
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, dissolved									
Zinc, total	<8.0	<8.0	<8.0	<20.0	8.3	9.4	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for SW-3

Constituents	10/11/2021	4/7/2022	10/6/2022	4/5/2023	10/13/2023	4/18/2024	10/15/2024	4/16/2025	10/27/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane (edb)	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<10	<10	<10	<10	<10	<10	<10	<10
2-hexanone	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ammonia as n									
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<1	<1
Arsenic, dissolved									
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<2	<2
Barium, dissolved									
Barium, total	307	259	288	209	255	198	287	252	301
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5	<5
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.2	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chemical oxygen demand									
Chloride									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<1	<1
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.5	<.5
Copper, total	<4	<4	<4	<4	<4	<4	<4	<5	<5
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iron, dissolved									
Iron, total									
Lead, total	<4	<4	<4	<4	<4	<4	<4	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<5.0
pH									
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<2	<2
Silver, total	<4	<4	<4	<4	<4	<4	<4	<5	<5
Specific conductance									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<.5	<.5
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids									
Trans-1,2-dichloroethene	<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
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<2.0	<2.0
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, dissolved									
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<5.0	<5.0

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

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

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

Table 12 – Leachate Elevation Data (Current Year)

Table 12
Leachate Measurement Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C
2025

Well #	TOC Elevation	Bottom Elevation	Field Reading 4/16/2025	Leachate Elev.	Depth of Leachate		Field Reading 10/27/2025	Leachate Elev.	Bottom Field Reading	Bottom Elevation	Depth of Leachate (ft)
PZ-P-1	1362.10	1346.40	14.65	1347.45	1.05		14.65	1347.45	15.65	1346.45	1.00
PZ-P-2	1368.94	1349.24	16.80	1352.14	2.90		17.30	1351.64	19.60	1349.34	2.30
PZ-P-3	1388.64	1358.94	25.70	1362.94	4.00		25.95	1362.69	29.70	1358.94	3.75
PZ-P-4	1394.21	1369.01	25.60	1368.61	(0.40)		20.95	1373.26	25.20	1369.01	4.25
PZ-P-5	1400.02	1372.42	22.63	1377.39	4.97		22.25	1377.77	27.60	1372.42	5.35
PZ-P-6	1407.15	1382.40	21.60	1385.55	3.15		21.60	1385.55	24.65	1382.50	3.05
PZ-P-7	1396.65	1368.35	24.27	1372.38	4.03		24.17	1372.48	27.95	1368.70	3.78
PZ-P-8	1391.32	1363.67	25.52	1365.80	2.13		25.47	1365.85	26.60	1364.72	1.13
PZ-P-10	1370.94	1355.69	7.30	1363.64	7.95		7.40	1363.54	15.20	1355.74	7.80

Volume of Leachate Transported to POTW - 0 gallons in 2025

NOTES:

Some piezometers slanted due to settlement and cover construction activities.

The minor difference between dry and bottom elevations is attributed to the silt accumulating in the PZ or trying to determine true depth

Piezometer bottoms measured 4-11-17 by HLW

PZ-P-9 mowed off during summer 2018

PZ-P-9 abandoned Sept. 24, 2018 per IDNR approval

Table 12A – Leachate Elevation Data (Over Time)

TABLE 12A----LEACHATE LEVELS - AUDUBON COUNTY SANITARY LANDFILL

PZ No. Depth	Measured Leachate Level					Leachate Head Level									
	Leachate Head					Date Measured									
	1/30/2009	2/26/2009	3/20/2009	4/16/2009	5/18/2009	6/28/2009	7/24/2009	8/14/2009	9/30/2009	2/10/2010	4/13/2010	7/12/2010	10/7/2010	11/19/2010	
LPZ 1	14.70	14.50	14.50	14.50	14.50	14.50	14.40	14.40	14.40	13.87	13.54	13.95	14.25	14.50	
15.70	1.00	1.20	1.20	1.20	1.20	1.20	1.30	1.30	1.30	1.83	2.16	1.75	1.45	1.20	
LPZ 2	17.70	17.80	17.70	17.70	17.50	17.50	17.60	17.70	17.70	17.55	17.40	17.30	17.20	17.57	
19.80	2.10	2.00	2.10	2.10	2.30	2.30	2.20	2.10	2.10	2.25	2.40	2.50	2.60	2.23	
LPZ 3	25.00	frozen	25.20	25.40	25.60	25.80	25.80	25.80	25.75	25.75	25.80	NA	25.70	25.60	
29.75	4.75	NA	4.55	4.35	4.15	3.95	3.95	3.95	4.00	4.00	3.95	NA	4.05	4.15	
LPZ 4	23.10	23.90	23.80	23.75	26.70	23.60	23.50	23.40	23.15	22.76	22.33	20.70	19.30	19.85	
25.00	1.90	1.10	1.20	1.25	-1.70	1.40	1.50	1.60	1.85	2.24	2.67	4.30	5.70	5.15	
LPZ 5	18.00	18.40	18.60	18.75	19.00	19.15	19.30	19.50	19.50	19.78	20.30	20.30	22.50	20.11	
27.30	9.30	8.90	8.70	8.55	8.30	8.15	8.00	7.80	7.80	7.52	7.00	7.00	4.80	7.19	
LPZ 6	broken	broken	17.60	17.65	17.80	17.90	17.80	17.60	17.75	18.01	18.25	17.80	17.65	17.65	
23.80	NA	NA	6.20	6.15	6.00	5.90	6.00	6.20	6.05	5.79	5.55	6.00	6.15	6.15	
LPZ 7	23.40	23.80	23.70	23.60	23.50	23.40	23.00	22.40	23.20	22.83	21.58	21.38	22.00	22.45	
27.70	4.30	3.90	4.00	4.10	4.20	4.30	4.70	5.30	4.50	4.87	6.12	6.32	5.70	5.25	
LPZ 8	26.30	26.40	26.30	26.00	25.75	25.45	25.70	26.40	26.35	26.01	25.80	23.90	27.00	27.00	
26.70	0.40	0.30	0.40	0.70	0.95	1.25	1.00	0.30	0.35	0.69	0.90	2.80	-0.30	-0.30	
LPZ 10	8.70	8.70	8.50	8.35	7.80	7.05	7.30	7.75	8.05	7.67	7.00	7.60	7.00	7.00	
15.25	6.55	6.55	6.75	6.90	7.45	8.20	7.95	7.50	7.20	7.58	8.25	7.65	8.25	8.25	

TABLE 12A Continued ----LEACHATE LEVELS - AUDUBON COUNTY SANITARY LANDFILL

PZ No. Depth	4/11/2011	6/2/2011	8/29/2011	10/24/2011	3/13/2012	6/13/2012	7/30/2012	9/24/2012	1/16/2013	4/24/2013	7/20/2013	9/20/2013
LPZ 1	14.10	13.95	14.25	14.55	14.65	14.61	15.70	14.70				
15.70	1.60	1.75	1.45	1.15	1.05	1.09	0.00	1.00	0.50	1.00	1.08	0.50
LPZ 2	17.36	17.15	17.39	17.63	17.17	17.59	19.80	17.80				
19.80	2.44	2.65	2.41	2.17	2.63	2.21	0.00	2.00	1.50	1.50	2.33	1.33
LPZ 3	25.50	25.44	25.59	25.75	25.69	25.67	25.66	25.72				
29.75	4.25	4.31	4.16	4.00	4.06	4.08	4.09	4.03	2.50	2.83	3.25	2.50
LPZ 4	21.12	21.42	21.43	21.45	22.10	22.90	23.09	23.00				
25.00	3.88	3.58	3.57	3.55	2.90	2.10	1.91	2.00	1.50	2.50	2.67	2.00
LPZ 5	21.00	21.20	21.30	21.40	21.22	21.56	21.70	21.35				
27.30	6.30	6.10	6.00	5.90	6.08	5.74	5.60	5.95	6.50	5.92	5.00	5.50
LPZ 6	17.86	18.30	18.30	18.30	18.81	19.36	19.58	20.20	19.78	20.04	19.72	19.82
23.80	5.94	5.50	5.50	5.50	4.99	4.44	4.22	3.60	4.02	3.76	4.08	3.98
LPZ 7	22.63	22.90	23.73	24.55	24.35	23.00	27.70	24.00		23.00		
27.70	5.07	4.80	3.97	3.15	3.35	4.70	0.00	3.70	4.17	4.70	6.83	4.67
LPZ 8	NA	24.35	25.43	26.50	26.55	26.54	26.60	26.70				
26.70	NA	2.35	1.27	0.20	0.15	0.16	0.10	0.00	0.00	0.00	0.00	0.00
LPZ 10	6.25	5.50	6.97	8.43	6.23	8.20	8.32	8.25		5.01		
15.25	9.00	9.75	8.28	6.82	9.02	7.05	6.93	7.00	8.17	10.24	7.00	6.17

TABLE 12A Continued ----LEACHATE LEVELS - AUDUBON COUNTY SANITARY LANDFILL

PZ No. Depth	1/13/2014	4/8/2014	7/7/2014	9/22/2014	1/19/2015	3/20/2015	7/9/2015	9/17/2015	1/4/2016	3/17/2016	6/14/2016	8/26/2016
LPZ 1												
15.70	0.58	0.42	1.25	0.50	0.50	0.50	0.83	0.67	1.00	1.25	1.25	0.83
LPZ 2												
19.70	1.50	1.08	1.75	1.00	1.25	1.33	1.50	1.67	1.92	2.33	2.08	1.67
LPZ 3												
29.70	3.33	2.00	2.08	1.75	2.67	2.17	2.08	2.17	2.58	2.16	2.25	2.17
LPZ 4												
25.20	2.17	1.67	1.00	2.17	3.25	3.00	4.83	4.92	7.58	5.33	9.17	9.33
LPZ 5												
27.60	5.25	5.17	5.00	6.08	4.38	5.50	5.92	7.00	7.83	6.58	6.83	7.00
LPZ 6												
19.67	19.67	20.34	20.52	20.60	19.42	19.24	18.75	18.23	17.26	17.46	17.38	18.04
24.75	5.08	3.46	3.28	3.20	4.38	4.56	5.05	5.57	6.54	6.34	6.42	5.76
LPZ 7												
28.30	3.83	3.50	5.50	7.00	6.50	6.67	8.25	7.58	8.92	7.25	7.33	5.17
LPZ 8			24.28	24.20	25.53	26.40	24.90	25.02	23.36	22.43	23.58	24.65
27.65	0.00	0.00	2.42	2.50	1.17	0.30	1.80	1.68	3.34	4.27	3.12	2.05
LPZ 10												
15.25	5.17	6.00	8.16	8.58	6.67	6.17	8.17	6.33	8.33	8.50	6.83	6.83

TABLE 12A Continued ----LEACHATE LEVELS - AUDUBON COUNTY SANITARY LANDFILL

PZ No. Depth	12/30/2016	4/11/2017	7/14/2017	9/23/2017	1/9/2018	4/23/2018	7/17/2018	9/24/2018	1/8/2019	4/16/2019	6/25/2019
PZ-P-1		13.60									
15.70	1.08	2.10	0.58	1.42	0.83	1.08	1.42	1.50	1.17	1.58	1.75
PZ-P-2		16.60									
19.70	2.42	3.10	1.67	2.42	1.17	2.50	2.50	3.17	2.42	3.17	3.17
PZ-P-3		25.60									
29.70	2.42	4.10	2.00	3.17	3.17	2.25	3.17	2.67	2.17	2.58	3.33
PZ-P-4		12.90									
25.20	8.17	12.30	7.83	9.92	6.42	8.03	7.83	10.33	8.75	10.67	6.50
PZ-P-5		21.60									
27.60	6.67	6.00	6.25	6.50	6.67	5.83	6.25	7.08	6.42	6.25	5.92
PZ-P-6	18.34	19.00	18.68	18.45	18.40	19.06	19.06	18.83	18.65	18.78	18.70
24.75	5.46	5.75	6.07	6.30	6.35	5.69	5.69	5.92	6.10	5.97	6.05
PZ-P-7		20.92									
28.30	4.75	7.38	6.50	5.33	Frozen	4.83	8.42	8.83	Frozen	7.92	8.25
PZ-P-8	26.65	21.65	27.65	24.70	25.15	23.42	22.04	21.03	19.70	26.80	23.00
27.65	0.05	6.00	0.00	2.95	2.50	4.23	5.61	6.62	7.95	0.85	4.65
PZ-P-10		6.20									
15.25	7.33	9.05	6.67	8.58	7.17	8.25	7.67	9.17	6.83	9.67	7.42

TABLE 12A Continued ----LEACHATE LEVELS - AUDUBON COUNTY SANITARY LANDFILL

PZ No. Depth	8/29/2019	4/10/2020	10/9/2020	4/9/2021	10/11/2021	4/7/2022	10/6/2022	4/5/2023	10/13/2023	4/18/2024
PZ-P-1					14.45	13.20	14.40	14.88	14.82	14.40
15.65	1.58	2.00	1.42	1.33	1.20	2.45	1.25	0.77	0.83	1.25
PZ-P-2					17.10	16.90	17.08	17.55	17.77	17.35
19.60	2.83	3.42	1.67	2.00	2.50	2.70	2.52	2.05	1.83	2.25
PZ-P-3					25.55	25.55	25.55	25.60	26.20	25.62
29.70	2.83	4.00	2.08	1.75	4.15	4.15	4.15	4.10	3.50	4.08
PZ-P-4					21.50	20.80	22.25	22.70	23.00	23.92
25.20	9.92	5.00	6.25	6.75	3.70	4.40	2.95	2.50	2.20	1.28
PZ-P-5					21.29	21.75	21.65	21.90	21.65	22.80
27.60	6.58	6.00	6.92	6.00	6.36	5.85	5.95	5.70	5.95	4.80
PZ-P-6	18.90			19.91	20.75	19.70	21.30	21.30	21.50	21.35
24.65	5.85	5.75	6.50	4.84	3.90	4.95	3.35	3.35	3.15	3.30
PZ-P-7					23.66	23.80	23.51	24.05	23.70	24.90
27.95	6.08	8.25	6.75	5.25	4.29	4.15	4.44	3.90	4.25	3.05
PZ-P-8	21.20			22.70	24.85	23.10	24.53	24.76	25.15	25.48
26.60	6.45	7.33	5.25	4.95	1.75	3.50	2.07	1.84	1.45	1.12
PZ-P-10					7.05	6.20	8.90	5.55	9.10	6.35
15.20	8.92	9.00	6.25	5.67	8.15	9.00	6.30	9.65	6.10	8.85

TABLE 12A Continued ----LEACHATE LEVELS - AUDUBON COUNTY SANITARY LANDFILL

PZ No. Depth				Std. Dev./ Mean	
	10/15/2024	4/16/2025	10/27/2025		
PZ-P-1	14.85	14.65	14.65	1.88	LPZ 1
15.65	0.80	1.00	1.00	1.62	
PZ-P-2	17.27	16.80	17.30	2.28	LPZ 2
19.60	2.33	2.80	2.30	2.68	
PZ-P-3	25.65	25.70	25.95	3.49	LPZ 3
29.70	4.05	4.00	3.75	4.17	
PZ-P-4	23.00	25.60	20.95	4.04	LPZ 4
25.20	2.20	-0.40	4.25	4.92	
PZ-P-5	22.50	22.63	22.25	2.88	LPZ 5
27.60	5.10	4.97	5.35	7.07	
PZ-P-6	21.43	21.60	21.60	2.74	LPZ 6
24.65	3.22	3.05	3.05	5.75	
PZ-P-7	26.76	24.27	24.17	3.41	LPZ 7
27.95	1.19	3.68	3.78	6.00	
PZ-P-8	25.92	25.52	25.47	3.77	LPZ 8
26.60	0.68	1.08	1.13	2.71	
PZ-P-10	8.65	7.30	7.40	1.47	LPZ 10
15.20	6.55	7.90	7.80	7.88	

Table 13 – Gas Monitoring Summary

Table 13
Annual Methane Gas Evaluation Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C
2025

Location/Date	4/16/25	10/27/25
	% LEL	% LEL
Ambient Air - Breathing Zone		
BLDG 1 (Office)	0	0
BLDG 2 (Old Equipment Bldg)	0	0
BLDG 3 (Transfer Station)	0	0
MW-4	0	0
MW-7	0	0
MW-14	0	0
MW-17	0	0
MW-19	0	0
MW-20	0	0
SW-3	0	0

Frequency of gas monitoring changed to semi-annually in
the 4/21/20 email from IDNR (Doc #97559)

APPENDIX A

Field Sampling Forms

AUDUBON COUNTY SANITARY LANDFILL
PERMIT # 05-SDP-01-75C

4/16/2025

Sampled by: Glenn Hunter

Weather Conditions: Sunny 38-55 degrees

IDNR Form 542-1322

Monitoring Well: MW-90-4 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1324.25
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

CONFIRM

NO PURGE METHOD

TOC	1324.25
Well Depth	20.10
Top Screen	1314.15
Bottom Screen	1304.15
Bottom Well	1304.15
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	1310.25
Bottom sample	1306.25
Turbidity(NTU)	0.81

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	9:29	9.10	1315.15	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.81
Appendix I	Metals	250	250		0.81
Appendix I	VOC	120	120		0.81
Full Appendix II	10 more containers	5620			
Sulfide	Sulfide	250			
Supplemental	Minerals	750			
Total			380	0	

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

TOC	1324.25	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.10	Before purging	4/16/2025	9:29	9.10	1315.15		0.0	
		After purging				1324.25			
		Top of Screen January 1990				1314.15			
						1.00			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1304.15			
		Bottom of Well	4/16/2025		20.10	1304.15			
						0.00			feet sedimentation
		Before Sampling				1324.25			
		Recovery				1324.25			
		Recovery				1324.25			
		Recovery				1324.25			
		Recovery				1324.25			

IDNR Form 542-1322

Monitoring Well: MW-90-7 (dg)

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1300.32
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	1300.32
Well Depth	15.00
Top Screen	1290.32
Bottom Screen	1285.32
Bottom Well	1285.32
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	9.00
Top sample	1291.32
Bottom sample	1287.32
Turbidity(NTU)	50.40

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	9:44	9.42	1290.9	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		50.40
Appendix I	Metals	250	250		50.40
Appendix I	VOC	120	120		50.40
Full Appendix II	10 more containers	5620	490		
Sulfide	Sulfide	250			
Supplemental	Minerals	750			
Total			870	0	

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

TOC	1300.32	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	15.00	Before purging	4/16/2025	9:44	9.42	1290.90		0.0	
		After purging				1300.32			
		Top of Screen January 1990				1290.32			
						0.58			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1285.32			
		Bottom of Well	4/16/2025		15.03	1285.29			
						-0.03			feet sedimentation
		Before Sampling				1300.32			
		Recovery				1300.32			
		Recovery				1300.32			
		Recovery				1300.32			
		Recovery				1300.32			

IDNR Form 542-1322

Monitoring Well: MW-90-14 (dg)

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1347.51
Well Depth	19.70
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1347.51
Well Depth	19.70
Top Screen	1337.81
Bottom Screen	1327.81
Bottom Well	1327.81
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	13.00
Top sample	1334.51
Bottom sample	1330.51
Turbidity(NTU)	1.61

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	8:55	8.43	1339.08	

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		1.61
Appendix I	Metals	250	250		1.61
Appendix I	VOC	120	120		1.61
Full Appendix II	10 more containers	5620			
Sulfide	Sulfide	250			
Supplemental	Minerals	750			
Total			380	0	

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

TOC	1347.51	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.70	Before purging	4/16/2025	8:55	8.43	1339.08		0.0	
		After purging				1347.51			
		Top of Screen January 1990				1337.81			
						1.27			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1327.81			
		Bottom of Well	4/16/2025		19.86	1327.65			
						-0.16			feet sedimentation
		Before Sampling				1347.51			
		Recovery				1347.51			
		Recovery				1347.51			
		Recovery				1347.51			
		Recovery				1347.51			

IDNR Form 542-1322

Monitoring Well:

MW-90-17 (ug)
Background Well

Primary Sampling Method:

No-Purge for Appendix I

Secondary Sampling Method:

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1427.97
Well Depth	37.30
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1427.97
Well Depth	37.30
Top Screen	1400.67
Bottom Screen	1390.67
Bottom Well	1390.67
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	31.00
Top sample	1396.97
Bottom sample	1392.97
Turbidity(NTU)	0.91

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	8:24	25.05	1402.92	

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		0.91
Appendix I	Metals	250	250		0.91
Appendix I	VOC	120	120		0.91
Full Appendix II	10 more containers	5620			
Sulfide	Sulfide	250			
Supplemental	Minerals	750			
Total			380	0	

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

TOC	1427.97	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	37.30	Before purging	4/16/2025	8:24	25.05	1402.92		0.0	
		After purging				1427.97			
		Top of Screen January 1990				1400.67			
						2.25			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1390.67			
		Bottom of Well	4/16/2025		37.23	1390.74			
						0.07			feet sedimentation
		Before Sampling				1427.97			
		Recovery				1427.97			
		Recovery				1427.97			
		Recovery				1427.97			
		Recovery				1427.97			

IDNR Form 542-1322

Monitoring Well: MW-91-19 (dg)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	1347.5
Well Depth	25.00
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	1347.5
Well Depth	25.00
Top Screen	1337.50
Bottom Screen	1322.50
Bottom Well	1322.50
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	19.00
Top sample	1328.50
Bottom sample	1324.50
Turbidity(NTU)	0.80

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	9:08	12.70	1334.8	

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		0.80
Appendix I	Metals	250	250		0.80
Appendix I	VOC	120	120		0.80
Full Appendix II	10 more containers	5620	490		
Sulfide	Sulfide	250			
Supplemental	Minerals	750			
Total			870	0	

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

TOC	1347.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	25.00	Before purging	4/16/2025	9:08	12.70	1334.80		0.0	
		After purging				1347.50			
		Top of Screen January 1990				1337.50			
						-2.70	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				1322.50			
		Bottom of Well	4/16/2025		25.10	1322.40			
						-0.10	feet sedimentation		
		Before Sampling				1347.50			
		Recovery				1347.50			
		Recovery				1347.50			
		Recovery				1347.50			
		Recovery				1347.50			

Monitoring Well: MW-91-20 (dg)

Primary Sampling Method:

Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1371.99
Well Depth	32.40
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1371.99
Well Depth	32.40
Top Screen	1354.59
Bottom Screen	1339.59
Bottom Well	1339.59
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	26.00
Top sample	1345.99
Bottom sample	1341.99
Turbidity(NTU)	2.81

Date	Time	Water Level	Water Elevation	Notes
4/16/2025	8:41	8.85	1363.14	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.81
Appendix I	Metals	250	250		2.81
Appendix I	VOC	120	120		2.81
Full Appendix II	10 more containers	5620			
Sulfide	Sulfide	250			
Supplemental	Minerals	750			
Total			380	0	

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

TOC	1371.99	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	32.40	Before purging	4/16/2025	8:41	8.85	1363.14		0.0	
		After purging				1371.99			
		Top of Screen January 1990				1354.59			
						8.55			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1339.59			
		Bottom of Well	4/16/2025		32.32	1339.67			
						0.08			feet sedimentation
		Before Sampling				1371.99			
		Recovery				1371.99			
		Recovery				1371.99			
		Recovery				1371.99			
		Recovery				1371.99			

**AUDUBON COUNTY SANITARY LANDFILL
PERMIT # 05-SDP-01-75C**

4/16/2025

Sampled by: Glenn Hunter

Weather Conditions: Sunny 38-55 degrees

IDNR Form 542-1324

SW-3	Date	Time	Type	Flowing	Quantity	Discolored	Odor	Litter
	4/16/2025	9:17	Lagoon Underdrain	yes	200 ml per 12 sec	No	No	No
								Turbidity(NTU)
								0.51

AUDUBON COUNTY SANITARY LANDFILL
PERMIT # 05-SDP-01-75C

10/27/2025

Sampled by: Glenn Hunter

Weather Conditions: Overcast light drizzle, 60 degrees

IDNR Form 542-1322

Monitoring Well: MW-90-4 (dg) Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1324.25
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

CONFIRM

NO PURGE METHOD

TOC	1324.25
Well Depth	20.10
Top Screen	1314.15
Bottom Screen	1304.15
Bottom Well	1304.15
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	1310.25
Bottom sample	1306.25
Turbidity(NTU)	2.43

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	16:43	10.70	1313.55	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.43
Appendix I	Metals	250	250		2.43
Appendix I	VOC	120	120		2.43
Full Appendix II	10 more containers	5620			
Sulfide	Sulfide	250			
Supplemental	Minerals	750			
Total			380	0	

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

TOC	1324.25	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.10	Before purging	10/27/2025	16:43	10.70	1313.55		0.0	
		After purging				1324.25			
		Top of Screen January 1990				1314.15			
						-0.60			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1304.15			
		Bottom of Well	10/27/2025		20.10	1304.15			
						0.00			feet sedimentation
		Before Sampling				1324.25			
		Recovery				1324.25			
		Recovery				1324.25			
		Recovery				1324.25			
		Recovery				1324.25			

Monitoring Well: MW-90-7 (dg)

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1300.32
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	1300.32
Well Depth	15.00
Top Screen	1290.32
Bottom Screen	1285.32
Bottom Well	1285.32
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	10.00
Top sample	1290.32
Bottom sample	1286.32
Turbidity(NTU)	9.09

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	17:07	9.45	1290.87	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		9.09
Appendix I	Metals	250	250		9.09
Appendix I	VOC	120	120		9.09
Full Appendix II	10 more containers	5620	490		
Sulfide	Sulfide	250			
Supplemental	Minerals	750			
Total			870	0	

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

TOC	1300.32	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	15.00	Before purging	10/27/2025	17:07	9.45	1290.87		0.0	
		After purging				1300.32			
		Top of Screen January 1990				1290.32			
						0.55			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1285.32			
		Bottom of Well	10/27/2025		15.03	1285.29			
						-0.03			feet sedimentation
		Before Sampling				1300.32			
		Recovery				1300.32			
		Recovery				1300.32			
		Recovery				1300.32			
		Recovery				1300.32			

IDNR Form 542-1322

Monitoring Well: MW-90-14 (dg)

Primary Sampling Method:

Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1347.51
Well Depth	19.70
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1347.51
Well Depth	19.70
Top Screen	1337.81
Bottom Screen	1327.81
Bottom Well	1327.81
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	1333.51
Bottom sample	1329.51
Turbidity(NTU)	9.63

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	16:07	10.28	1337.23	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		9.63
Appendix I	Metals	250	250		9.63
Appendix I	VOC	120	120		9.63
Full Appendix II	10 more containers	5620			
Sulfide	Sulfide	250			
Supplemental	Minerals	750			
Total			380	0	

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

TOC	1347.51	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.70	Before purging	10/27/2025	16:07	10.28	1337.23		0.0	
		After purging				1347.51			
		Top of Screen January 1990				1337.81			
						-0.58			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1327.81			
		Bottom of Well	10/27/2025		19.86	1327.65			
						-0.16			feet sedimentation
		Before Sampling				1347.51			
		Recovery				1347.51			
		Recovery				1347.51			
		Recovery				1347.51			
		Recovery				1347.51			

IDNR Form 542-1322

Monitoring Well: MW-90-17 (ug)
Background Well

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1427.97
Well Depth	37.30
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1427.97
Well Depth	37.30
Top Screen	1400.67
Bottom Screen	1390.67
Bottom Well	1390.67
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	31.00
Top sample	1396.97
Bottom sample	1392.97
Turbidity(NTU)	1.10

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	15:36	25.78	1402.19	

ANALYTES, CONTAINERS, AND VOLUMES

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

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

TOC	1427.97	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	37.30	Before purging	10/27/2025	15:36	25.78	1402.19		0.0	
		After purging				1427.97			
		Top of Screen January 1990				1400.67			
						1.52	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				1390.67			
		Bottom of Well	10/27/2025		37.23	1390.74			
						0.07	feet sedimentation		
		Before Sampling				1427.97			
		Recovery				1427.97			
		Recovery				1427.97			
		Recovery				1427.97			
		Recovery				1427.97			

IDNR Form 542-1322

Monitoring Well: MW-91-19 (dg)

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1347.5
Well Depth	25.00
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	1347.5
Well Depth	25.00
Top Screen	1337.50
Bottom Screen	1322.50
Bottom Well	1322.50
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	19.00
Top sample	1328.50
Bottom sample	1324.50
Turbidity(NTU)	1.41

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	16:30	13.79	1333.71	

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		1.41
Appendix I	Metals	250	250		1.41
Appendix I	VOC	120	120		1.41
Full Appendix II	10 more containers	5620	490		
Sulfide	Sulfide	250			
Supplemental	Minerals	750			
Total			870	0	

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

TOC	1347.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	25.00	Before purging	10/27/2025	16:30	13.79	1333.71		0.0	
		After purging				1347.50			
		Top of Screen January 1990				1337.50			
						-3.79	feet above (+) or below (-) top screen		
		Bottom of Well January 1990				1322.50			
		Bottom of Well	10/27/2025		25.10	1322.40			
						-0.10	feet sedimentation		
		Before Sampling				1347.50			
		Recovery				1347.50			
		Recovery				1347.50			
		Recovery				1347.50			
		Recovery				1347.50			

IDNR Form 542-1322

Monitoring Well: MW-91-20 (dg)

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1371.99
Well Depth	32.40
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1371.99
Well Depth	32.40
Top Screen	1354.59
Bottom Screen	1339.59
Bottom Well	1339.59
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	26.00
Top sample	1345.99
Bottom sample	1341.99
Turbidity(NTU)	1.55

Date	Time	Water Level	Water Elevation	Notes
10/27/2025	15:52	11.92	1360.07	

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		1.55
Appendix I	Metals	250	250		1.55
Appendix I	VOC	120	120		1.55
Full Appendix II	10 more containers	5620			
Sulfide	Sulfide	250			
Supplemental	Minerals	750			
Total			380	0	

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

TOC	1371.99	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	32.40	Before purging	10/27/2025	15:52	11.92	1360.07		0.0	
		After purging				1371.99			
		Top of Screen January 1990				1354.59			
						5.48			feet above (+) or below (-) top screen
		Bottom of Well January 1990				1339.59			
		Bottom of Well	10/27/2025		32.32	1339.67			
						0.08			feet sedimentation
		Before Sampling				1371.99			
		Recovery				1371.99			
		Recovery				1371.99			
		Recovery				1371.99			
		Recovery				1371.99			

**AUDUBON COUNTY SANITARY LANDFILL
PERMIT # 05-SDP-01-75C**

10/27/2025

Sampled by: Glenn Hunter

Weather Conditions: Overcast light drizzle, 60 degrees

IDNR Form 542-1324

SW-3

Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
10/27/2025	16:54	Lagoon Underdrain	yes	200 ml per 15 sec		No	No	No
								Turbidity(NTU)
								5.67

APPENDIX B

Laboratory Analytical Data



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1ID1698

Project Description

6050

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Friday, June 20, 2025

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

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

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1ID1698

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6050

Project / PO Number: N/A
Received: 04/17/2025
Reported: 06/20/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW-90-4	1ID1698-01	Aqueous	GRAB		04/16/25 09:29	04/17/25 10:15
MW-90-7	1ID1698-02	Aqueous	GRAB		04/16/25 09:44	04/17/25 10:15
MW-90-14	1ID1698-03	Aqueous	GRAB		04/16/25 08:55	04/17/25 10:15
MW-90-17B	1ID1698-04	Aqueous	GRAB		04/16/25 08:24	04/17/25 10:15
MW-91-19	1ID1698-05	Aqueous	GRAB		04/16/25 09:08	04/17/25 10:15
MW-91-20	1ID1698-06	Aqueous	GRAB		04/16/25 08:41	04/17/25 10:15
SW-3	1ID1698-07	Aqueous	GRAB		04/16/25 09:17	04/17/25 10:15
Duplicate	1ID1698-08	Aqueous	GRAB		04/16/25 08:41	04/17/25 10:15



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11D1698

Analytical Testing Parameters

Client Sample ID:	MW-90-4	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	04/16/2025 9:29
Lab Sample ID:	11D1698-01		

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11D1698

Client Sample ID: MW-90-4
Sample Matrix: Aqueous
Lab Sample ID: 11D1698-01

Collected By: JGH
Collection Date: 04/16/2025 9:29

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
Bromoform		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,2,3-Trichloropropane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2134	RAF
Surrogate: Dibromofluoromethane	106	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 2134	RAF
Surrogate: Dibromofluoromethane	106	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 2134	RAF
Surrogate: 1,2-Dichloroethane-d4	94.3	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 2134	RAF
Surrogate: 1,2-Dichloroethane-d4	94.3	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 2134	RAF
Surrogate: Toluene-d8	99.2	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 2134	RAF
Surrogate: Toluene-d8	99.2	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 2134	RAF
Surrogate: 4-Bromofluorobenzene	93.9	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 2134	RAF
Surrogate: 4-Bromofluorobenzene	93.9	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 2134	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/19/25 0945	RVV
Arsenic, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/19/25 0945	RVV
Barium, total	0.377		0.0010	mg/L		04/18/25 1612	06/19/25 0945	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/19/25 0945	RVV
Cadmium, total		<0.0002	0.0002	mg/L		04/18/25 1612	06/19/25 0945	RVV
Chromium, total	0.0010		0.0010	mg/L		04/18/25 1612	06/19/25 0945	RVV
Cobalt, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/19/25 0945	RVV
Copper, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/19/25 0945	RVV
Lead, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/19/25 0945	RVV
Nickel, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/19/25 0945	RVV
Selenium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/19/25 0945	RVV
Silver, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/19/25 0945	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/19/25 0945	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/19/25 0945	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/19/25 0945	RVV

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID: MW-90-7
Sample Matrix: Aqueous
Lab Sample ID: 1ID1698-02

Collected By: JGH
Collection Date: 04/16/2025 9:44

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF

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CERTIFICATE OF ANALYSIS

11D1698

Client Sample ID: MW-90-7
Sample Matrix: Aqueous
Lab Sample ID: 11D1698-02

Collected By: JGH
Collection Date: 04/16/2025 9:44

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2156	RAF
Surrogate: Dibromofluoromethane	108	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 2156	RAF
Surrogate: Dibromofluoromethane	108	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 2156	RAF
Surrogate: 1,2-Dichloroethane-d4	97.0	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 2156	RAF
Surrogate: 1,2-Dichloroethane-d4	97.0	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 2156	RAF
Surrogate: Toluene-d8	99.6	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 2156	RAF
Surrogate: Toluene-d8	99.6	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 2156	RAF
Surrogate: 4-Bromofluorobenzene	99.1	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 2156	RAF
Surrogate: 4-Bromofluorobenzene	99.1	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 2156	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1858	RVV
Arsenic, total	0.0043		0.0020	mg/L		04/18/25 1612	06/18/25 1858	RVV
Barium, total	0.280		0.0010	mg/L		04/18/25 1612	06/18/25 1858	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1858	RVV
Cadmium, total	0.0002		0.0002	mg/L		04/18/25 1612	06/18/25 1858	RVV
Chromium, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1858	RVV
Cobalt, total	0.0017		0.0005	mg/L		04/18/25 1612	06/18/25 1858	RVV
Copper, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1858	RVV
Lead, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1858	RVV
Nickel, total	0.0231		0.0050	mg/L		04/18/25 1612	06/18/25 1858	RVV
Selenium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1858	RVV
Silver, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1858	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1858	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1858	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1858	RVV

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID: MW-90-14
Sample Matrix: Aqueous
Lab Sample ID: 1ID1698-03

Collected By: JGH
Collection Date: 04/16/2025 8:55

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID: MW-90-14
Sample Matrix: Aqueous
Lab Sample ID: 1ID1698-03

Collected By: JGH
Collection Date: 04/16/2025 8:55

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2218	RAF
Surrogate: Dibromofluoromethane	109	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 2218	RAF
Surrogate: Dibromofluoromethane	109	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 2218	RAF
Surrogate: 1,2-Dichloroethane-d4	98.3	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 2218	RAF
Surrogate: 1,2-Dichloroethane-d4	98.3	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 2218	RAF
Surrogate: Toluene-d8	95.8	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 2218	RAF
Surrogate: Toluene-d8	95.8	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 2218	RAF
Surrogate: 4-Bromofluorobenzene	93.2	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 2218	RAF
Surrogate: 4-Bromofluorobenzene	93.2	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 2218	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1901	RVV
Arsenic, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1901	RVV
Barium, total	0.316		0.0010	mg/L		04/18/25 1612	06/18/25 1901	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1901	RVV
Cadmium, total	0.0025		0.0002	mg/L		04/18/25 1612	06/18/25 1901	RVV
Chromium, total	0.0014		0.0010	mg/L		04/18/25 1612	06/18/25 1901	RVV
Cobalt, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1901	RVV
Copper, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1901	RVV
Lead, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1901	RVV
Nickel, total	0.0108		0.0050	mg/L		04/18/25 1612	06/18/25 1901	RVV
Selenium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1901	RVV
Silver, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1901	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1901	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1901	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1901	RVV

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID: MW-90-17B
Sample Matrix: Aqueous
Lab Sample ID: 1ID1698-04

Collected By: JGH
Collection Date: 04/16/2025 8:24

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Bromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Chloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Acetone	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Chloroform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Benzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Dibromomethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Toluene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Xylenes, total	<2.0	2.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Styrene	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Bromoform	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID: MW-90-17B
Sample Matrix: Aqueous
Lab Sample ID: 1ID1698-04

Collected By: JGH
Collection Date: 04/16/2025 8:24

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/21/25 0000	04/21/25 2241	RAF
Surrogate: Dibromofluoromethane	109	Limit: 57-134	% Rec			04/21/25 0000	04/21/25 2241	RAF
Surrogate: Dibromofluoromethane	109	Limit: 75-136	% Rec			04/21/25 0000	04/21/25 2241	RAF
Surrogate: 1,2-Dichloroethane-d4	94.1	Limit: 53-140	% Rec			04/21/25 0000	04/21/25 2241	RAF
Surrogate: 1,2-Dichloroethane-d4	94.1	Limit: 61-142	% Rec			04/21/25 0000	04/21/25 2241	RAF
Surrogate: Toluene-d8	102	Limit: 86-114	% Rec			04/21/25 0000	04/21/25 2241	RAF
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec			04/21/25 0000	04/21/25 2241	RAF
Surrogate: 4-Bromofluorobenzene	92.2	Limit: 78-121	% Rec			04/21/25 0000	04/21/25 2241	RAF
Surrogate: 4-Bromofluorobenzene	92.2	Limit: 80-116	% Rec			04/21/25 0000	04/21/25 2241	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1903	RVV
Arsenic, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1903	RVV
Barium, total	0.337	0.0010	mg/L			04/18/25 1612	06/18/25 1903	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1903	RVV
Cadmium, total		<0.0002	0.0002	mg/L		04/18/25 1612	06/18/25 1903	RVV
Chromium, total	0.0028	0.0010	mg/L			04/18/25 1612	06/18/25 1903	RVV
Cobalt, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1903	RVV
Copper, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1903	RVV
Lead, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1903	RVV
Nickel, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1903	RVV
Selenium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1903	RVV
Silver, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1903	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1903	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1903	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1903	RVV

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID: MW-91-19
Sample Matrix: Aqueous
Lab Sample ID: 1ID1698-05

Collected By: JGH
Collection Date: 04/16/2025 9:08

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Bromomethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Chloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Acetone	<10.0	10.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Chloroform	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Benzene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Dibromomethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Toluene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Xylenes, total	<2.0	2.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Styrene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Bromoform	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID: MW-91-19
Sample Matrix: Aqueous
Lab Sample ID: 1ID1698-05

Collected By: JGH
Collection Date: 04/16/2025 9:08

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2130	RAF
Surrogate: Dibromofluoromethane	109	Limit: 75-136	% Rec			04/22/25 0000	04/22/25 2130	RAF
Surrogate: Dibromofluoromethane	109	Limit: 57-134	% Rec			04/22/25 0000	04/22/25 2130	RAF
Surrogate: 1,2-Dichloroethane-d4	95.2	Limit: 53-140	% Rec			04/22/25 0000	04/22/25 2130	RAF
Surrogate: 1,2-Dichloroethane-d4	95.2	Limit: 61-142	% Rec			04/22/25 0000	04/22/25 2130	RAF
Surrogate: Toluene-d8	96.1	Limit: 86-114	% Rec			04/22/25 0000	04/22/25 2130	RAF
Surrogate: Toluene-d8	96.1	Limit: 82-121	% Rec			04/22/25 0000	04/22/25 2130	RAF
Surrogate: 4-Bromofluorobenzene	91.4	Limit: 80-116	% Rec			04/22/25 0000	04/22/25 2130	RAF
Surrogate: 4-Bromofluorobenzene	91.4	Limit: 78-121	% Rec			04/22/25 0000	04/22/25 2130	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1906	RVV
Arsenic, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1906	RVV
Barium, total	0.315		0.0010	mg/L		04/18/25 1612	06/18/25 1906	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1906	RVV
Cadmium, total		<0.0002	0.0002	mg/L		04/18/25 1612	06/18/25 1906	RVV
Chromium, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1906	RVV
Cobalt, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1906	RVV
Copper, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1906	RVV
Lead, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1906	RVV
Nickel, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1906	RVV
Selenium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1906	RVV
Silver, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1906	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1906	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1906	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1906	RVV

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID: MW-91-20
Sample Matrix: Aqueous
Lab Sample ID: 1ID1698-06

Collected By: JGH
Collection Date: 04/16/2025 8:41

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Bromomethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Chloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Acetone	<10.0	10.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Chloroform	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Benzene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Dibromomethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Toluene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Xylenes, total	<2.0	2.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Styrene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Bromoform	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID: MW-91-20
Sample Matrix: Aqueous
Lab Sample ID: 1ID1698-06

Collected By: JGH
Collection Date: 04/16/2025 8:41

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2152	RAF
Surrogate: Dibromofluoromethane	110	Limit: 75-136	% Rec			04/22/25 0000	04/22/25 2152	RAF
Surrogate: Dibromofluoromethane	110	Limit: 57-134	% Rec			04/22/25 0000	04/22/25 2152	RAF
Surrogate: 1,2-Dichloroethane-d4	92.4	Limit: 61-142	% Rec			04/22/25 0000	04/22/25 2152	RAF
Surrogate: 1,2-Dichloroethane-d4	92.4	Limit: 53-140	% Rec			04/22/25 0000	04/22/25 2152	RAF
Surrogate: Toluene-d8	101	Limit: 82-121	% Rec			04/22/25 0000	04/22/25 2152	RAF
Surrogate: Toluene-d8	101	Limit: 86-114	% Rec			04/22/25 0000	04/22/25 2152	RAF
Surrogate: 4-Bromofluorobenzene	92.6	Limit: 80-116	% Rec			04/22/25 0000	04/22/25 2152	RAF
Surrogate: 4-Bromofluorobenzene	92.6	Limit: 78-121	% Rec			04/22/25 0000	04/22/25 2152	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1914	RVV
Arsenic, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1914	RVV
Barium, total	0.183	0.0010	mg/L			04/18/25 1612	06/18/25 1914	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1914	RVV
Cadmium, total	0.0009	0.0002	mg/L			04/18/25 1612	06/18/25 1914	RVV
Chromium, total	0.0013	0.0010	mg/L			04/18/25 1612	06/18/25 1914	RVV
Cobalt, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1914	RVV
Copper, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1914	RVV
Lead, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1914	RVV
Nickel, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1914	RVV
Selenium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1914	RVV
Silver, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1914	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1914	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1914	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1914	RVV

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID: SW-3
Sample Matrix: Aqueous
Lab Sample ID: 1ID1698-07

Collected By: JGH
Collection Date: 04/16/2025 9:17

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Vinyl Chloride	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Bromomethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Chloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Acetone	<10.0	10.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Methyl Iodide	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Carbon Disulfide	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Methylene Chloride	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Acrylonitrile	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Vinyl Acetate	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Bromochloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Chloroform	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Benzene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Trichloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Dibromomethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Bromodichloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Toluene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Dibromochloromethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Chlorobenzene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Ethylbenzene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Xylenes, total	<2.0	2.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Styrene	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Bromoform	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID: SW-3
Sample Matrix: Aqueous
Lab Sample ID: 1ID1698-07

Collected By: JGH
Collection Date: 04/16/2025 9:17

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,4-Dichlorobenzene		<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,2-Dichlorobenzene		<1.0	1.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		04/22/25 0000	04/22/25 2214	RAF
Surrogate: Dibromofluoromethane	111	Limit: 57-134	% Rec			04/22/25 0000	04/22/25 2214	RAF
Surrogate: Dibromofluoromethane	111	Limit: 75-136	% Rec			04/22/25 0000	04/22/25 2214	RAF
Surrogate: 1,2-Dichloroethane-d4	96.5	Limit: 61-142	% Rec			04/22/25 0000	04/22/25 2214	RAF
Surrogate: 1,2-Dichloroethane-d4	96.5	Limit: 53-140	% Rec			04/22/25 0000	04/22/25 2214	RAF
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec			04/22/25 0000	04/22/25 2214	RAF
Surrogate: Toluene-d8	100	Limit: 86-114	% Rec			04/22/25 0000	04/22/25 2214	RAF
Surrogate: 4-Bromofluorobenzene	90.5	Limit: 78-121	% Rec			04/22/25 0000	04/22/25 2214	RAF
Surrogate: 4-Bromofluorobenzene	90.5	Limit: 80-116	% Rec			04/22/25 0000	04/22/25 2214	RAF

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1916	RVV
Arsenic, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1916	RVV
Barium, total	0.252		0.0010	mg/L		04/18/25 1612	06/18/25 1916	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1916	RVV
Cadmium, total		<0.0002	0.0002	mg/L		04/18/25 1612	06/18/25 1916	RVV
Chromium, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1916	RVV
Cobalt, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1916	RVV
Copper, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1916	RVV
Lead, total		<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1916	RVV
Nickel, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1916	RVV
Selenium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1916	RVV
Silver, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1916	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1916	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1916	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1916	RVV

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CERTIFICATE OF ANALYSIS

1ID1698

Client Sample ID:	Duplicate	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	04/16/2025 8:41
Lab Sample ID:	1ID1698-08		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1919	RVV
Arsenic, total	<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1919	RVV
Barium, total	0.176	0.0010	mg/L		04/18/25 1612	06/18/25 1919	RVV
Beryllium, total	<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1919	RVV
Cadmium, total	0.0011	0.0002	mg/L		04/18/25 1612	06/18/25 1919	RVV
Chromium, total	0.0012	0.0010	mg/L		04/18/25 1612	06/18/25 1919	RVV
Cobalt, total	<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1919	RVV
Copper, total	<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1919	RVV
Lead, total	<0.0010	0.0010	mg/L		04/18/25 1612	06/18/25 1919	RVV
Nickel, total	<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1919	RVV
Selenium, total	<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1919	RVV
Silver, total	<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1919	RVV
Thallium, total	<0.0005	0.0005	mg/L		04/18/25 1612	06/18/25 1919	RVV
Vanadium, total	<0.0020	0.0020	mg/L		04/18/25 1612	06/18/25 1919	RVV
Zinc, total	<0.0050	0.0050	mg/L		04/18/25 1612	06/18/25 1919	RVV

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1ID1698

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1ID1042	1ID1042-BLK1	
		1ID1042-BS1	
		1ID1042-MS1	1ID0775-01
		1ID1042-MSD1	1ID0775-01
		1ID1698-02	MW-90-7
		1ID1698-03	MW-90-14
		1ID1698-04	MW-90-17B
		1ID1698-05	MW-91-19
		1ID1698-06	MW-91-20
		1ID1698-07	SW-3
		1ID1698-08	Duplicate
		1ID1698-01	MW-90-4

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1ID1138	1ID1138-BS1	
		1ID1138-BLK1	
		1ID1138-BSD1	
		1ID1698-01	MW-90-4
		1ID1698-02	MW-90-7
		1ID1698-03	MW-90-14
		1ID1698-04	MW-90-17B
		1ID1138-MS1	1ID1594-21
		1ID1138-MSD1	1ID1594-21

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1ID1221	1ID1221-BS1	
		1ID1221-BLK1	
		1ID1698-05	MW-91-19
		1ID1698-06	MW-91-20
		1ID1698-07	SW-3
		1ID1221-MS1	1ID1698-05
		1ID1221-MSD1	1ID1698-05

Batch Quality Control Summary: Microbac Laboratories, Inc., Newton

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D										
Blank (1ID1138-BLK1)										
Chloromethane	<1.0	1.0	ug/L							

Prepared: 04/21/25 00:00 Analyzed: 04/21/25 12:36

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CERTIFICATE OF ANALYSIS

1ID1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D										
Blank (1ID1138-BLK1)				Prepared: 04/21/25 00:00 Analyzed: 04/21/25 12:36						
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							

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CERTIFICATE OF ANALYSIS

1ID1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D									
Blank (1ID1138-BLK1)									
				Prepared: 04/21/25 00:00 Analyzed: 04/21/25 12:36					
1,4-Dichlorobenzene	<1.0	1.0	ug/L						
1,2-Dichlorobenzene	<1.0	1.0	ug/L						
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L						
Surrogate: Dibromofluoromethane	48.1		ug/L	50.2		95.8 57-134			
Surrogate: Dibromofluoromethane	48.1		ug/L	50.2		95.8 75-136			
Surrogate: 1,2-Dichloroethane-d4	42.2		ug/L	50.1		84.2 53-140			
Surrogate: 1,2-Dichloroethane-d4	42.2		ug/L	50.1		84.2 61-142			
Surrogate: Toluene-d8	47.6		ug/L	50.4		94.5 86-114			
Surrogate: Toluene-d8	47.6		ug/L	50.4		94.5 82-121			
Surrogate: 4-Bromofluorobenzene	47.8		ug/L	50.1		95.3 78-121			
Surrogate: 4-Bromofluorobenzene	47.8		ug/L	50.1		95.3 80-116			
LCS (1ID1138-BS1)									
				Prepared: 04/21/25 00:00 Analyzed: 04/21/25 11:51					
Chloromethane	28.06	1.0	ug/L	30.3		92.5 63-155			
Vinyl Chloride	29.65	1.0	ug/L	30.2		98.0 70-154			
Bromomethane	29.37	1.0	ug/L	30.1		97.5 52-176			
Chloroethane	29.30	1.0	ug/L	30.3		96.6 72-148			
Trichlorofluoromethane	32.99	1.0	ug/L	30.3		109 70-152			
1,1-Dichloroethylene	56.43	1.0	ug/L	50.1		113 70-148			
Acetone	88.06	10.0	ug/L	100		88.1 43-172			
Methyl Iodide	125.1	1.0	ug/L	100		125 69-170			
Carbon Disulfide	103.7	1.0	ug/L	100		104 72-162			
Methylene Chloride	53.71	5.0	ug/L	50.1		107 68-142			
Acrylonitrile	49.73	5.0	ug/L	50.2		99.1 56-135			
trans-1,2-Dichloroethylene	56.65	1.0	ug/L	50.1		113 66-148			
1,1-Dichloroethane	54.22	1.0	ug/L	50.1		108 66-143			
Vinyl Acetate	169.2	5.0	ug/L	140		121 43-153			
cis-1,2-Dichloroethylene	51.50	1.0	ug/L	50.4		102 71-149			
2-Butanone (MEK)	90.72	10.0	ug/L	100		90.7 52-159			
Bromochloromethane	50.67	1.0	ug/L	50.4		101 69-143			
Chloroform	52.81	1.0	ug/L	50.1		105 69-144			
1,1,1-Trichloroethane	58.80	1.0	ug/L	50.1		117 62-129			
Carbon Tetrachloride	58.85	1.0	ug/L	50.1		117 63-141			
Benzene	54.26	1.0	ug/L	50.4		108 71-134			
1,2-Dichloroethane	56.69	1.0	ug/L	50.1		113 72-132			
Trichloroethylene	57.85	1.0	ug/L	50.1		115 71-135			
1,2-Dichloropropane	54.86	1.0	ug/L	50.1		110 69-136			
Dibromomethane	50.75	1.0	ug/L	50.4		101 73-147			
Bromodichloromethane	58.97	1.0	ug/L	50.1		118 68-129			
cis-1,3-Dichloropropene	47.43	1.0	ug/L	50.1		94.7 65-134			
4-Methyl-2-pentanone (MIBK)	86.90	5.0	ug/L	100		86.9 58-147			
Toluene	55.31	1.0	ug/L	50.5		110 72-133			
trans-1,3-Dichloropropene	48.41	1.0	ug/L	50.1		96.7 67-130			
1,1,2-Trichloroethane	52.18	1.0	ug/L	50.1		104 69-135			

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CERTIFICATE OF ANALYSIS

1ID1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D										
LCS (1ID1138-BS1)										
Prepared: 04/21/25 00:00 Analyzed: 04/21/25 11:51										
Tetrachloroethylene	51.33	1.0	ug/L	50.1		102	69-130			
2-Hexanone (MBK)	62.28	5.0	ug/L	100		62.3	55-144			
Dibromochloromethane	50.34	1.0	ug/L	50.1		101	73-127			
1,2-Dibromoethane	46.09	1.0	ug/L	50.2		91.8	67-132			
Chlorobenzene	48.30	1.0	ug/L	50.1		96.4	72-123			
1,1,1,2-Tetrachloroethane	49.30	1.0	ug/L	50.3		97.9	73-127			
Ethylbenzene	50.01	1.0	ug/L	50.2		99.7	71-127			
Xylenes, total	151.7	2.0	ug/L	151		100	74-127			
Styrene	46.78	1.0	ug/L	50.4		92.9	66-126			
Bromoform	49.74	1.0	ug/L	50.1		99.3	68-130			
1,2,3-Trichloropropane	46.78	1.0	ug/L	50.3		92.9	63-136			
trans-1,4-Dichloro-2-butene	79.33	5.0	ug/L	100		79.3	54-134			
1,1,2,2-Tetrachloroethane	39.59	1.0	ug/L	50.1		79.0	61-131			
1,4-Dichlorobenzene	42.99	1.0	ug/L	50.1		85.8	70-129			
1,2-Dichlorobenzene	45.28	1.0	ug/L	50.1		90.4	69-126			
1,2-Dibromo-3-chloropropane	35.27	5.0	ug/L	50.1		70.4	50-143			
Surrogate: Dibromofluoromethane	51.5		ug/L	50.2		103	57-134			
Surrogate: Dibromofluoromethane	51.5		ug/L	50.2		103	75-136			
Surrogate: 1,2-Dichloroethane-d4	46.7		ug/L	50.1		93.3	53-140			
Surrogate: 1,2-Dichloroethane-d4	46.7		ug/L	50.1		93.3	61-142			
Surrogate: Toluene-d8	53.2		ug/L	50.4		106	86-114			
Surrogate: Toluene-d8	53.2		ug/L	50.4		106	82-121			
Surrogate: 4-Bromofluorobenzene	53.8		ug/L	50.1		107	78-121			
Surrogate: 4-Bromofluorobenzene	53.8		ug/L	50.1		107	80-116			
LCS Dup (1ID1138-BS1)										
Prepared: 04/21/25 00:00 Analyzed: 04/21/25 13:31										
Chloromethane	29.14	1.0	ug/L	30.3		96.1	63-155	3.78	24	
Vinyl Chloride	30.58	1.0	ug/L	30.2		101	70-154	3.09	25	
Bromomethane	30.02	1.0	ug/L	30.1		99.7	52-176	2.19	27	
Chloroethane	31.86	1.0	ug/L	30.3		105	72-148	8.37	25	
Trichlorofluoromethane	33.92	1.0	ug/L	30.3		112	70-152	2.78	26	
1,1-Dichloroethylene	58.41	1.0	ug/L	50.1		117	70-148	3.45	24	
Acetone	87.01	10.0	ug/L	100		87.0	43-172	1.20	30	
Methyl Iodide	126.1	1.0	ug/L	100		126	69-170	0.780	30	
Carbon Disulfide	104.0	1.0	ug/L	100		104	72-162	0.212	24	
Methylene Chloride	52.71	5.0	ug/L	50.1		105	68-142	1.88	21	
Acrylonitrile	42.41	5.0	ug/L	50.2		84.5	56-135	15.9	16	
trans-1,2-Dichloroethylene	57.10	1.0	ug/L	50.1		114	66-148	0.791	27	
1,1-Dichloroethane	54.63	1.0	ug/L	50.1		109	66-143	0.753	24	
Vinyl Acetate	147.0	5.0	ug/L	140		105	43-153	14.0	30	
cis-1,2-Dichloroethylene	51.76	1.0	ug/L	50.4		103	71-149	0.504	26	
2-Butanone (MEK)	70.38	10.0	ug/L	100		70.4	52-159	25.3	27	
Bromochloromethane	45.48	1.0	ug/L	50.4		90.2	69-143	10.8	23	
Chloroform	51.56	1.0	ug/L	50.1		103	69-144	2.40	23	

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CERTIFICATE OF ANALYSIS

1ID1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D										
LCS Dup (1ID1138-BSD1)				Prepared: 04/21/25 00:00 Analyzed: 04/21/25 13:31						
1,1,1-Trichloroethane	58.26	1.0	ug/L	50.1		116	62-129	0.923	24	
Carbon Tetrachloride	57.97	1.0	ug/L	50.1		116	63-141	1.51	25	
Benzene	52.58	1.0	ug/L	50.4		104	71-134	3.14	24	
1,2-Dichloroethane	48.45	1.0	ug/L	50.1		96.7	72-132	15.7	24	
Trichloroethylene	56.67	1.0	ug/L	50.1		113	71-135	2.06	24	
1,2-Dichloropropane	51.74	1.0	ug/L	50.1		103	69-136	5.85	24	
Dibromomethane	44.38	1.0	ug/L	50.4		88.1	73-147	13.4	25	
Bromodichloromethane	53.46	1.0	ug/L	50.1		107	68-129	9.80	22	
cis-1,3-Dichloropropene	42.47	1.0	ug/L	50.1		84.8	65-134	11.0	23	
4-Methyl-2-pentanone (MIBK)	63.38	5.0	ug/L	100		63.4	58-147	31.3	27	R1
Toluene	53.55	1.0	ug/L	50.5		106	72-133	3.23	24	
trans-1,3-Dichloropropene	40.83	1.0	ug/L	50.1		81.5	67-130	17.0	24	
1,1,2-Trichloroethane	43.46	1.0	ug/L	50.1		86.8	69-135	18.2	23	
Tetrachloroethylene	51.41	1.0	ug/L	50.1		103	69-130	0.156	25	
2-Hexanone (MBK)	44.35	5.0	ug/L	100		44.4	55-144	33.6	25	Q3, R1
Dibromochloromethane	43.82	1.0	ug/L	50.1		87.5	73-127	13.8	22	
1,2-Dibromoethane	38.56	1.0	ug/L	50.2		76.8	67-132	17.8	24	
Chlorobenzene	47.06	1.0	ug/L	50.1		94.0	72-123	2.60	23	
1,1,1,2-Tetrachloroethane	45.92	1.0	ug/L	50.3		91.2	73-127	7.10	24	
Ethylbenzene	49.97	1.0	ug/L	50.2		99.6	71-127	0.0800	26	
Xylenes, total	151.8	2.0	ug/L	151		100	74-127	0.0791	25	
Styrene	44.94	1.0	ug/L	50.4		89.2	66-126	4.01	23	
Bromoform	40.93	1.0	ug/L	50.1		81.7	68-130	19.4	23	
1,2,3-Trichloropropane	37.47	1.0	ug/L	50.3		74.4	63-136	22.1	24	
trans-1,4-Dichloro-2-butene	61.90	5.0	ug/L	100		61.9	54-134	24.7	27	
1,1,2,2-Tetrachloroethane	32.63	1.0	ug/L	50.1		65.1	61-131	19.3	29	
1,4-Dichlorobenzene	41.96	1.0	ug/L	50.1		83.7	70-129	2.42	24	
1,2-Dichlorobenzene	41.97	1.0	ug/L	50.1		83.8	69-126	7.59	26	
1,2-Dibromo-3-chloropropane	22.14	5.0	ug/L	50.1		44.2	50-143	45.7	30	Q3, R1
Surrogate: Dibromofluoromethane	49.3		ug/L	50.2		98.2	57-134			
Surrogate: Dibromofluoromethane	49.3		ug/L	50.2		98.2	75-136			
Surrogate: 1,2-Dichloroethane-d4	42.6		ug/L	50.1		85.1	61-142			
Surrogate: 1,2-Dichloroethane-d4	42.6		ug/L	50.1		85.1	53-140			
Surrogate: Toluene-d8	51.2		ug/L	50.4		102	86-114			
Surrogate: Toluene-d8	51.2		ug/L	50.4		102	82-121			
Surrogate: 4-Bromofluorobenzene	50.6		ug/L	50.1		101	78-121			
Surrogate: 4-Bromofluorobenzene	50.6		ug/L	50.1		101	80-116			
Matrix Spike (1ID1138-MS1)				Source: 1ID1594-21		Prepared: 04/21/25 00:00 Analyzed: 04/21/25 23:03				
Chloromethane	285.5	10.0	ug/L	303	ND	94.2	61-152			
Vinyl Chloride	307.7	10.0	ug/L	302	ND	102	66-149			
Bromomethane	297.6	10.0	ug/L	301	ND	98.8	43-171			
Chloroethane	310.0	10.0	ug/L	303	ND	102	69-148			
Trichlorofluoromethane	351.3	10.0	ug/L	303	ND	116	62-163			

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CERTIFICATE OF ANALYSIS

1ID1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D										
Matrix Spike (1ID1138-MS1)	Source: 1ID1594-21			Prepared: 04/21/25 00:00 Analyzed: 04/21/25 23:03						
1,1-Dichloroethylene	581.0	10.0	ug/L	501	ND	116	70-148			
Acetone	949.7	100	ug/L	1000	ND	95.0	45-173			
Methyl Iodide	1240	10.0	ug/L	1000	ND	124	62-167			
Carbon Disulfide	1048	10.0	ug/L	1000	ND	105	71-163			
Methylene Chloride	552.3	50.0	ug/L	501	ND	110	69-140			
Acrylonitrile	517.3	50.0	ug/L	502	ND	103	38-147			
trans-1,2-Dichloroethylene	586.2	10.0	ug/L	501	ND	117	69-144			
1,1-Dichloroethane	568.0	10.0	ug/L	501	ND	113	70-138			
Vinyl Acetate	1502	50.0	ug/L	1400	ND	107	58-142			
cis-1,2-Dichloroethylene	539.4	10.0	ug/L	504	ND	107	68-151			
2-Butanone (MEK)	980.4	100	ug/L	1000	ND	98.0	50-160			
Bromochloromethane	536.9	10.0	ug/L	504	ND	107	65-143			
Chloroform	549.8	10.0	ug/L	501	ND	110	71-143			
1,1,1-Trichloroethane	627.8	10.0	ug/L	501	ND	125	63-133			
Carbon Tetrachloride	629.0	10.0	ug/L	501	ND	126	63-142			
Benzene	546.8	10.0	ug/L	504	ND	108	69-133			
1,2-Dichloroethane	558.2	10.0	ug/L	501	ND	111	63-138			
Trichloroethylene	584.2	10.0	ug/L	501	ND	117	71-133			
1,2-Dichloropropane	555.1	10.0	ug/L	501	ND	111	69-132			
Dibromomethane	510.8	10.0	ug/L	504	ND	101	70-147			
Bromodichloromethane	599.0	10.0	ug/L	501	ND	120	67-130			
cis-1,3-Dichloropropene	446.5	10.0	ug/L	501	ND	89.1	61-126			
4-Methyl-2-pentanone (MIBK)	864.0	50.0	ug/L	1000	ND	86.4	55-147			
Toluene	552.5	10.0	ug/L	505	ND	109	71-133			
trans-1,3-Dichloropropene	463.3	10.0	ug/L	501	ND	92.5	63-124			
1,1,2-Trichloroethane	528.5	10.0	ug/L	501	ND	106	69-133			
Tetrachloroethylene	517.2	10.0	ug/L	501	ND	103	70-124			
2-Hexanone (MBK)	594.5	50.0	ug/L	1000	ND	59.4	53-141			
Dibromochloromethane	499.5	10.0	ug/L	501	ND	99.8	74-122			
1,2-Dibromoethane	446.2	10.0	ug/L	502	ND	88.8	66-127			
Chlorobenzene	476.0	10.0	ug/L	501	ND	95.0	76-116			
1,1,1,2-Tetrachloroethane	491.2	10.0	ug/L	503	ND	97.6	77-121			
Ethylbenzene	499.2	10.0	ug/L	502	ND	99.5	73-124			
Xylenes, total	1529	20.0	ug/L	1510	ND	101	75-123			
Styrene	465.7	10.0	ug/L	504	ND	92.5	70-120			
Bromoform	489.8	10.0	ug/L	501	ND	97.7	70-124			
1,2,3-Trichloropropane	471.3	10.0	ug/L	503	ND	93.6	62-135			
trans-1,4-Dichloro-2-butene	755.1	50.0	ug/L	1000	ND	75.5	50-120			
1,1,2,2-Tetrachloroethane	364.9	10.0	ug/L	501	ND	72.8	63-126			
1,4-Dichlorobenzene	408.9	10.0	ug/L	501	ND	81.6	72-119			
1,2-Dichlorobenzene	439.2	10.0	ug/L	501	ND	87.7	71-117			
1,2-Dibromo-3-chloropropane	319.4	50.0	ug/L	501	ND	63.7	49-134			

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CERTIFICATE OF ANALYSIS

11D1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11D1138 - EPA 5030B - EPA 8260D									
Matrix Spike (11D1138-MS1) Source: 11D1594-21 Prepared: 04/21/25 00:00 Analyzed: 04/21/25 23:03									
Surrogate: Dibromofluoromethane	564		ug/L	502		112 57-134			
Surrogate: Dibromofluoromethane	564		ug/L	502		112 75-136			
Surrogate: 1,2-Dichloroethane-d4	519		ug/L	501		104 53-140			
Surrogate: 1,2-Dichloroethane-d4	519		ug/L	501		104 61-142			
Surrogate: Toluene-d8	537		ug/L	504		107 86-114			
Surrogate: Toluene-d8	537		ug/L	504		107 82-121			
Surrogate: 4-Bromofluorobenzene	553		ug/L	501		110 78-121			
Surrogate: 4-Bromofluorobenzene	553		ug/L	501		110 80-116			
Matrix Spike Dup (11D1138-MSD1) Source: 11D1594-21 Prepared: 04/21/25 00:00 Analyzed: 04/21/25 23:25									
Chloromethane	284.9	10.0	ug/L	303	ND	94.0 61-152	0.210	26	
Vinyl Chloride	303.2	10.0	ug/L	302	ND	100 66-149	1.47	23	
Bromomethane	295.9	10.0	ug/L	301	ND	98.2 43-171	0.573	29	
Chloroethane	301.2	10.0	ug/L	303	ND	99.3 69-148	2.88	25	
Trichlorofluoromethane	340.2	10.0	ug/L	303	ND	112 62-163	3.21	25	
1,1-Dichloroethylene	588.4	10.0	ug/L	501	ND	117 70-148	1.27	22	
Acetone	1085	100	ug/L	1000	ND	108 45-173	13.3	30	
Methyl Iodide	1224	10.0	ug/L	1000	ND	122 62-167	1.32	24	
Carbon Disulfide	1036	10.0	ug/L	1000	ND	104 71-163	1.16	22	
Methylene Chloride	543.5	50.0	ug/L	501	ND	108 69-140	1.61	19	
Acrylonitrile	535.2	50.0	ug/L	502	ND	107 38-147	3.40	30	
trans-1,2-Dichloroethylene	577.7	10.0	ug/L	501	ND	115 69-144	1.46	22	
1,1-Dichloroethane	574.3	10.0	ug/L	501	ND	115 70-138	1.10	20	
Vinyl Acetate	1518	50.0	ug/L	1400	ND	108 58-142	1.07	24	
cis-1,2-Dichloroethylene	547.4	10.0	ug/L	504	ND	109 68-151	1.47	22	
2-Butanone (MEK)	999.3	100	ug/L	1000	ND	99.9 50-160	1.91	23	
Bromochloromethane	540.2	10.0	ug/L	504	ND	107 65-143	0.613	22	
Chloroform	543.7	10.0	ug/L	501	ND	109 71-143	1.12	21	
1,1,1-Trichloroethane	616.1	10.0	ug/L	501	ND	123 63-133	1.88	23	
Carbon Tetrachloride	621.9	10.0	ug/L	501	ND	124 63-142	1.14	22	
Benzene	521.7	10.0	ug/L	504	ND	103 69-133	4.70	18	
1,2-Dichloroethane	524.2	10.0	ug/L	501	ND	105 63-138	6.28	20	
Trichloroethylene	555.2	10.0	ug/L	501	ND	111 71-133	5.09	23	
1,2-Dichloropropane	526.1	10.0	ug/L	501	ND	105 69-132	5.36	20	
Dibromomethane	485.0	10.0	ug/L	504	ND	96.3 70-147	5.18	22	
Bromodichloromethane	569.5	10.0	ug/L	501	ND	114 67-130	5.05	21	
cis-1,3-Dichloropropene	445.3	10.0	ug/L	501	ND	88.9 61-126	0.269	21	
4-Methyl-2-pentanone (MIBK)	842.1	50.0	ug/L	1000	ND	84.2 55-147	2.57	23	
Toluene	523.7	10.0	ug/L	505	ND	104 71-133	5.35	19	
trans-1,3-Dichloropropene	450.4	10.0	ug/L	501	ND	89.9 63-124	2.82	21	
1,1,2-Trichloroethane	490.5	10.0	ug/L	501	ND	97.9 69-133	7.46	19	
Tetrachloroethylene	499.1	10.0	ug/L	501	ND	99.6 70-124	3.56	24	
2-Hexanone (MBK)	642.8	50.0	ug/L	1000	ND	64.3 53-141	7.81	24	
Dibromochloromethane	492.0	10.0	ug/L	501	ND	98.3 74-122	1.51	21	

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CERTIFICATE OF ANALYSIS

1ID1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1138 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1ID1138-MSD1)		Source: 1ID1594-21		Prepared: 04/21/25 00:00 Analyzed: 04/21/25 23:25						
1,2-Dibromoethane	441.6	10.0	ug/L	502	ND	87.9	66-127	1.04	23	
Chlorobenzene	461.9	10.0	ug/L	501	ND	92.2	76-116	3.01	21	
1,1,1,2-Tetrachloroethane	479.8	10.0	ug/L	503	ND	95.3	77-121	2.35	25	
Ethylbenzene	485.0	10.0	ug/L	502	ND	96.7	73-124	2.89	20	
Xylenes, total	1489	20.0	ug/L	1510	ND	98.6	75-123	2.62	20	
Styrene	450.5	10.0	ug/L	504	ND	89.4	70-120	3.32	23	
Bromoform	471.4	10.0	ug/L	501	ND	94.1	70-124	3.83	22	
1,2,3-Trichloropropane	465.6	10.0	ug/L	503	ND	92.5	62-135	1.22	28	
trans-1,4-Dichloro-2-butene	833.9	50.0	ug/L	1000	ND	83.4	50-120	9.92	26	
1,1,2,2-Tetrachloroethane	365.2	10.0	ug/L	501	ND	72.9	63-126	0.0822	24	
1,4-Dichlorobenzene	399.6	10.0	ug/L	501	ND	79.7	72-119	2.30	24	
1,2-Dichlorobenzene	434.2	10.0	ug/L	501	ND	86.7	71-117	1.14	24	
1,2-Dibromo-3-chloropropane	310.8	50.0	ug/L	501	ND	62.0	49-134	2.73	28	
Surrogate: Dibromofluoromethane	556		ug/L	502		111	57-134			
Surrogate: Dibromofluoromethane	556		ug/L	502		111	75-136			
Surrogate: 1,2-Dichloroethane-d4	527		ug/L	501		105	53-140			
Surrogate: 1,2-Dichloroethane-d4	527		ug/L	501		105	61-142			
Surrogate: Toluene-d8	528		ug/L	504		105	86-114			
Surrogate: Toluene-d8	528		ug/L	504		105	82-121			
Surrogate: 4-Bromofluorobenzene	540		ug/L	501		108	78-121			
Surrogate: 4-Bromofluorobenzene	540		ug/L	501		108	80-116			

Batch 1ID1221 - EPA 5030B - EPA 8260D

Blank (1ID1221-BLK1)		Prepared: 04/22/25 00:00 Analyzed: 04/22/25 14:54								
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							

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1ID1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1221 - EPA 5030B - EPA 8260D										
Blank (1ID1221-BLK1)										
Prepared: 04/22/25 00:00 Analyzed: 04/22/25 14:54										
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	51.9		ug/L	50.2		103	57-134			
Surrogate: Dibromofluoromethane	51.9		ug/L	50.2		103	75-136			
Surrogate: 1,2-Dichloroethane-d4	43.0		ug/L	50.1		86.0	53-140			
Surrogate: 1,2-Dichloroethane-d4	43.0		ug/L	50.1		86.0	61-142			
Surrogate: Toluene-d8	49.0		ug/L	50.4		97.4	86-114			
Surrogate: Toluene-d8	49.0		ug/L	50.4		97.4	82-121			
Surrogate: 4-Bromofluorobenzene	46.1		ug/L	50.1		91.9	78-121			
Surrogate: 4-Bromofluorobenzene	46.1		ug/L	50.1		91.9	80-116			
LCS (1ID1221-BS1)										
Prepared: 04/22/25 00:00 Analyzed: 04/22/25 14:10										
Chloromethane	33.12	1.0	ug/L	30.3		109	63-155			
Vinyl Chloride	35.43	1.0	ug/L	30.2		117	70-154			
Bromomethane	34.60	1.0	ug/L	30.1		115	52-176			
Chloroethane	34.59	1.0	ug/L	30.3		114	72-148			
Trichlorofluoromethane	37.53	1.0	ug/L	30.3		124	70-152			
1,1-Dichloroethylene	65.17	1.0	ug/L	50.1		130	70-148			

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CERTIFICATE OF ANALYSIS

1ID1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1221 - EPA 5030B - EPA 8260D										
LCS (1ID1221-BS1)				Prepared: 04/22/25 00:00 Analyzed: 04/22/25 14:10						
Acetone	107.8	10.0	ug/L	100		108	43-172			
Methyl Iodide	138.0	1.0	ug/L	100		138	69-170			
Carbon Disulfide	119.5	1.0	ug/L	100		119	72-162			
Methylene Chloride	59.54	5.0	ug/L	50.1		119	68-142			
Acrylonitrile	55.83	5.0	ug/L	50.2		111	56-135			
trans-1,2-Dichloroethylene	64.69	1.0	ug/L	50.1		129	66-148			
1,1-Dichloroethane	62.62	1.0	ug/L	50.1		125	66-143			
Vinyl Acetate	178.7	5.0	ug/L	140		128	43-153			
cis-1,2-Dichloroethylene	60.00	1.0	ug/L	50.4		119	71-149			
2-Butanone (MEK)	101.0	10.0	ug/L	100		101	52-159			
Bromochloromethane	56.95	1.0	ug/L	50.4		113	69-143			
Chloroform	59.28	1.0	ug/L	50.1		118	69-144			
1,1,1-Trichloroethane	66.76	1.0	ug/L	50.1		133	62-129			Q2
Carbon Tetrachloride	66.37	1.0	ug/L	50.1		133	63-141			
Benzene	57.66	1.0	ug/L	50.4		114	71-134			
1,2-Dichloroethane	55.85	1.0	ug/L	50.1		112	72-132			
Trichloroethylene	61.42	1.0	ug/L	50.1		123	71-135			
1,2-Dichloropropane	58.63	1.0	ug/L	50.1		117	69-136			
Dibromomethane	51.63	1.0	ug/L	50.4		103	73-147			
Bromodichloromethane	61.54	1.0	ug/L	50.1		123	68-129			
cis-1,3-Dichloropropene	48.99	1.0	ug/L	50.1		97.8	65-134			
4-Methyl-2-pentanone (MIBK)	87.57	5.0	ug/L	100		87.6	58-147			
Toluene	59.55	1.0	ug/L	50.5		118	72-133			
trans-1,3-Dichloropropene	48.67	1.0	ug/L	50.1		97.2	67-130			
1,1,2-Trichloroethane	52.89	1.0	ug/L	50.1		106	69-135			
Tetrachloroethylene	54.26	1.0	ug/L	50.1		108	69-130			
2-Hexanone (MBK)	61.61	5.0	ug/L	100		61.6	55-144			
Dibromochloromethane	51.25	1.0	ug/L	50.1		102	73-127			
1,2-Dibromoethane	45.02	1.0	ug/L	50.2		89.6	67-132			
Chlorobenzene	50.74	1.0	ug/L	50.1		101	72-123			
1,1,1,2-Tetrachloroethane	50.85	1.0	ug/L	50.3		101	73-127			
Ethylbenzene	53.11	1.0	ug/L	50.2		106	71-127			
Xylenes, total	161.6	2.0	ug/L	151		107	74-127			
Styrene	49.04	1.0	ug/L	50.4		97.4	66-126			
Bromoform	49.37	1.0	ug/L	50.1		98.5	68-130			
1,2,3-Trichloropropane	46.40	1.0	ug/L	50.3		92.2	63-136			
trans-1,4-Dichloro-2-butene	78.99	5.0	ug/L	100		79.0	54-134			
1,1,2,2-Tetrachloroethane	40.07	1.0	ug/L	50.1		80.0	61-131			
1,4-Dichlorobenzene	44.88	1.0	ug/L	50.1		89.5	70-129			
1,2-Dichlorobenzene	46.76	1.0	ug/L	50.1		93.3	69-126			
1,2-Dibromo-3-chloropropane	33.29	5.0	ug/L	50.1		66.4	50-143			
Surrogate: Dibromofluoromethane	54.6		ug/L	50.2		109	57-134			

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CERTIFICATE OF ANALYSIS

11D1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11D1221 - EPA 5030B - EPA 8260D									
LCS (11D1221-BS1)									
Prepared: 04/22/25 00:00 Analyzed: 04/22/25 14:10									
Surrogate: Dibromofluoromethane	54.6		ug/L	50.2		109 75-136			
Surrogate: 1,2-Dichloroethane-d4	48.6		ug/L	50.1		96.9 53-140			
Surrogate: 1,2-Dichloroethane-d4	48.6		ug/L	50.1		96.9 61-142			
Surrogate: Toluene-d8	53.6		ug/L	50.4		106 86-114			
Surrogate: Toluene-d8	53.6		ug/L	50.4		106 82-121			
Surrogate: 4-Bromofluorobenzene	53.5		ug/L	50.1		107 78-121			
Surrogate: 4-Bromofluorobenzene	53.5		ug/L	50.1		107 80-116			
Matrix Spike (11D1221-MS1) Source: 11D1698-05 Prepared: 04/22/25 00:00 Analyzed: 04/23/25 00:06									
Chloromethane	236.7	10.0	ug/L	303	ND	78.1 61-152			
Vinyl Chloride	257.8	10.0	ug/L	302	ND	85.2 66-149			
Bromomethane	258.4	10.0	ug/L	301	ND	85.8 43-171			
Chloroethane	268.5	10.0	ug/L	303	ND	88.6 69-148			
Trichlorofluoromethane	299.9	10.0	ug/L	303	ND	99.0 62-163			
1,1-Dichloroethylene	522.3	10.0	ug/L	501	ND	104 70-148			
Acetone	1081	100	ug/L	1000	ND	108 45-173			
Methyl Iodide	1093	10.0	ug/L	1000	ND	109 62-167			
Carbon Disulfide	913.3	10.0	ug/L	1000	ND	91.3 71-163			
Methylene Chloride	516.5	50.0	ug/L	501	ND	103 69-140			
Acrylonitrile	529.3	50.0	ug/L	502	ND	105 38-147			
trans-1,2-Dichloroethylene	537.6	10.0	ug/L	501	ND	107 69-144			
1,1-Dichloroethane	545.2	10.0	ug/L	501	ND	109 70-138			
Vinyl Acetate	1650	50.0	ug/L	1400	ND	118 58-142			
cis-1,2-Dichloroethylene	526.7	10.0	ug/L	504	ND	105 68-151			
2-Butanone (MEK)	927.5	100	ug/L	1000	ND	92.8 50-160			
Bromochloromethane	513.3	10.0	ug/L	504	ND	102 65-143			
Chloroform	536.3	10.0	ug/L	501	ND	107 71-143			
1,1,1-Trichloroethane	582.6	10.0	ug/L	501	ND	116 63-133			
Carbon Tetrachloride	587.2	10.0	ug/L	501	ND	117 63-142			
Benzene	518.7	10.0	ug/L	504	ND	103 69-133			
1,2-Dichloroethane	542.6	10.0	ug/L	501	ND	108 63-138			
Trichloroethylene	555.5	10.0	ug/L	501	ND	111 71-133			
1,2-Dichloropropane	539.4	10.0	ug/L	501	ND	108 69-132			
Dibromomethane	515.0	10.0	ug/L	504	ND	102 70-147			
Bromodichloromethane	601.1	10.0	ug/L	501	ND	120 67-130			
cis-1,3-Dichloropropene	456.5	10.0	ug/L	501	ND	91.1 61-126			
4-Methyl-2-pentanone (MIBK)	902.9	50.0	ug/L	1000	ND	90.3 55-147			
Toluene	541.3	10.0	ug/L	505	ND	107 71-133			
trans-1,3-Dichloropropene	455.9	10.0	ug/L	501	ND	91.0 63-124			
1,1,2-Trichloroethane	528.0	10.0	ug/L	501	ND	105 69-133			
Tetrachloroethylene	496.9	10.0	ug/L	501	ND	99.2 70-124			
2-Hexanone (MBK)	652.8	50.0	ug/L	1000	ND	65.3 53-141			
Dibromochloromethane	507.7	10.0	ug/L	501	ND	101 74-122			
1,2-Dibromoethane	443.0	10.0	ug/L	502	ND	88.2 66-127			

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CERTIFICATE OF ANALYSIS

1ID1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1221 - EPA 5030B - EPA 8260D										
Matrix Spike (1ID1221-MS1)	Source: 1ID1698-05			Prepared: 04/22/25 00:00 Analyzed: 04/23/25 00:06						
Chlorobenzene	466.1	10.0	ug/L	501	ND	93.1	76-116			
1,1,1,2-Tetrachloroethane	482.4	10.0	ug/L	503	ND	95.8	77-121			
Ethylbenzene	481.5	10.0	ug/L	502	ND	96.0	73-124			
Xylenes, total	1483	20.0	ug/L	1510	ND	98.2	75-123			
Styrene	453.7	10.0	ug/L	504	ND	90.1	70-120			
Bromoform	505.3	10.0	ug/L	501	ND	101	70-124			
1,2,3-Trichloropropane	492.4	10.0	ug/L	503	ND	97.8	62-135			
trans-1,4-Dichloro-2-butene	797.8	50.0	ug/L	1000	ND	79.8	50-120			
1,1,2,2-Tetrachloroethane	385.6	10.0	ug/L	501	ND	77.0	63-126			
1,4-Dichlorobenzene	412.0	10.0	ug/L	501	ND	82.2	72-119			
1,2-Dichlorobenzene	450.5	10.0	ug/L	501	ND	89.9	71-117			
1,2-Dibromo-3-chloropropane	343.0	50.0	ug/L	501	ND	68.4	49-134			
Surrogate: Dibromofluoromethane	538		ug/L	502		107	57-134			
Surrogate: Dibromofluoromethane	538		ug/L	502		107	75-136			
Surrogate: 1,2-Dichloroethane-d4	518		ug/L	501		103	53-140			
Surrogate: 1,2-Dichloroethane-d4	518		ug/L	501		103	61-142			
Surrogate: Toluene-d8	532		ug/L	504		106	86-114			
Surrogate: Toluene-d8	532		ug/L	504		106	82-121			
Surrogate: 4-Bromofluorobenzene	538		ug/L	501		107	78-121			
Surrogate: 4-Bromofluorobenzene	538		ug/L	501		107	80-116			
Matrix Spike Dup (1ID1221-MSD1)	Source: 1ID1698-05			Prepared: 04/22/25 00:00 Analyzed: 04/23/25 00:28						
Chloromethane	228.9	10.0	ug/L	303	ND	75.5	61-152	3.35	26	
Vinyl Chloride	258.2	10.0	ug/L	302	ND	85.4	66-149	0.155	23	
Bromomethane	258.2	10.0	ug/L	301	ND	85.7	43-171	0.0774	29	
Chloroethane	260.2	10.0	ug/L	303	ND	85.8	69-148	3.14	25	
Trichlorofluoromethane	293.6	10.0	ug/L	303	ND	96.9	62-163	2.12	25	
1,1-Dichloroethylene	513.8	10.0	ug/L	501	ND	103	70-148	1.64	22	
Acetone	939.6	100	ug/L	1000	ND	94.0	45-173	14.0	30	
Methyl Iodide	1083	10.0	ug/L	1000	ND	108	62-167	0.882	24	
Carbon Disulfide	892.5	10.0	ug/L	1000	ND	89.2	71-163	2.30	22	
Methylene Chloride	522.0	50.0	ug/L	501	ND	104	69-140	1.06	19	
Acrylonitrile	538.7	50.0	ug/L	502	ND	107	38-147	1.76	30	
trans-1,2-Dichloroethylene	531.9	10.0	ug/L	501	ND	106	69-144	1.07	22	
1,1-Dichloroethane	532.9	10.0	ug/L	501	ND	106	70-138	2.28	20	
Vinyl Acetate	1704	50.0	ug/L	1400	ND	122	58-142	3.21	24	
cis-1,2-Dichloroethylene	515.2	10.0	ug/L	504	ND	102	68-151	2.21	22	
2-Butanone (MEK)	949.2	100	ug/L	1000	ND	94.9	50-160	2.31	23	
Bromochloromethane	518.3	10.0	ug/L	504	ND	103	65-143	0.969	22	
Chloroform	536.4	10.0	ug/L	501	ND	107	71-143	0.0187	21	
1,1,1-Trichloroethane	581.7	10.0	ug/L	501	ND	116	63-133	0.155	23	
Carbon Tetrachloride	581.2	10.0	ug/L	501	ND	116	63-142	1.03	22	
Benzene	510.7	10.0	ug/L	504	ND	101	69-133	1.55	18	
1,2-Dichloroethane	536.0	10.0	ug/L	501	ND	107	63-138	1.22	20	

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CERTIFICATE OF ANALYSIS

1ID1698

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1221 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1ID1221-MSD1)	Source: 1ID1698-05			Prepared: 04/22/25 00:00 Analyzed: 04/23/25 00:28						
Trichloroethylene	535.2	10.0	ug/L	501	ND	107	71-133	3.72	23	
1,2-Dichloropropane	537.6	10.0	ug/L	501	ND	107	69-132	0.334	20	
Dibromomethane	494.8	10.0	ug/L	504	ND	98.2	70-147	4.00	22	
Bromodichloromethane	588.0	10.0	ug/L	501	ND	117	67-130	2.20	21	
cis-1,3-Dichloropropene	444.8	10.0	ug/L	501	ND	88.8	61-126	2.60	21	
4-Methyl-2-pentanone (MIBK)	907.5	50.0	ug/L	1000	ND	90.8	55-147	0.508	23	
Toluene	527.7	10.0	ug/L	505	ND	105	71-133	2.54	19	
trans-1,3-Dichloropropene	455.7	10.0	ug/L	501	ND	91.0	63-124	0.0439	21	
1,1,2-Trichloroethane	531.9	10.0	ug/L	501	ND	106	69-133	0.736	19	
Tetrachloroethylene	479.8	10.0	ug/L	501	ND	95.8	70-124	3.50	24	
2-Hexanone (MBK)	672.1	50.0	ug/L	1000	ND	67.2	53-141	2.91	24	
Dibromochloromethane	501.4	10.0	ug/L	501	ND	100	74-122	1.25	21	
1,2-Dibromoethane	441.2	10.0	ug/L	502	ND	87.8	66-127	0.407	23	
Chlorobenzene	464.7	10.0	ug/L	501	ND	92.8	76-116	0.301	21	
1,1,1,2-Tetrachloroethane	477.1	10.0	ug/L	503	ND	94.8	77-121	1.10	25	
Ethylbenzene	476.8	10.0	ug/L	502	ND	95.0	73-124	0.981	20	
Xylenes, total	1460	20.0	ug/L	1510	ND	96.7	75-123	1.54	20	
Styrene	446.2	10.0	ug/L	504	ND	88.6	70-120	1.67	23	
Bromoform	497.9	10.0	ug/L	501	ND	99.4	70-124	1.48	22	
1,2,3-Trichloropropane	476.8	10.0	ug/L	503	ND	94.7	62-135	3.22	28	
trans-1,4-Dichloro-2-butene	771.2	50.0	ug/L	1000	ND	77.1	50-120	3.39	26	
1,1,2,2-Tetrachloroethane	404.6	10.0	ug/L	501	ND	80.8	63-126	4.81	24	
1,4-Dichlorobenzene	404.9	10.0	ug/L	501	ND	80.8	72-119	1.74	24	
1,2-Dichlorobenzene	445.8	10.0	ug/L	501	ND	89.0	71-117	1.05	24	
1,2-Dibromo-3-chloropropane	344.6	50.0	ug/L	501	ND	68.7	49-134	0.465	28	
Surrogate: Dibromofluoromethane	546		ug/L	502		109	57-134			
Surrogate: Dibromofluoromethane	546		ug/L	502		109	75-136			
Surrogate: 1,2-Dichloroethane-d4	502		ug/L	501		100	53-140			
Surrogate: 1,2-Dichloroethane-d4	502		ug/L	501		100	61-142			
Surrogate: Toluene-d8	519		ug/L	504		103	86-114			
Surrogate: Toluene-d8	519		ug/L	504		103	82-121			
Surrogate: 4-Bromofluorobenzene	540		ug/L	501		108	78-121			
Surrogate: 4-Bromofluorobenzene	540		ug/L	501		108	80-116			

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1042 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1ID1042-BLK1)				Prepared: 04/18/25 16:12 Analyzed: 06/18/25 18:16						
Antimony, total	<0.0010	0.0010	mg/L							
Arsenic, total	<0.0020	0.0020	mg/L							
Barium, total	<0.0010	0.0010	mg/L							
Beryllium, total	<0.0005	0.0005	mg/L							
Cadmium, total	<0.0002	0.0002	mg/L							

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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1042 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1ID1042-BLK1) Prepared: 04/18/25 16:12 Analyzed: 06/18/25 18:16										
Chromium, total	<0.0010	0.0010	mg/L							B
Cobalt, total	<0.0005	0.0005	mg/L							
Copper, total	<0.0050	0.0050	mg/L							
Lead, total	<0.0010	0.0010	mg/L							
Nickel, total	<0.0050	0.0050	mg/L							
Selenium, total	<0.0020	0.0020	mg/L							
Silver, total	<0.0050	0.0050	mg/L							
Thallium, total	<0.0005	0.0005	mg/L							
Vanadium, total	<0.0020	0.0020	mg/L							
Zinc, total	<0.0050	0.0050	mg/L							
LCS (1ID1042-BS1) Prepared: 04/18/25 16:12 Analyzed: 06/18/25 18:18										
Antimony, total	0.115	0.0010	mg/L	0.100		115	80-120			
Arsenic, total	0.0981	0.0020	mg/L	0.100		98.1	80-120			
Barium, total	0.116	0.0010	mg/L	0.100		116	80-120			
Beryllium, total	0.114	0.0005	mg/L	0.100		114	80-120			
Cadmium, total	0.103	0.0002	mg/L	0.100		103	80-120			
Chromium, total	0.114	0.0010	mg/L	0.100		114	80-120			
Cobalt, total	0.115	0.0005	mg/L	0.100		115	80-120			
Copper, total	0.0924	0.0050	mg/L	0.100		92.4	80-120			
Lead, total	0.106	0.0010	mg/L	0.100		106	80-120			
Nickel, total	0.0909	0.0050	mg/L	0.100		90.9	80-120			
Selenium, total	0.1013	0.0020	mg/L	0.100		101	80-120			
Silver, total	0.113	0.0050	mg/L	0.100		113	80-120			
Thallium, total	0.114	0.0005	mg/L	0.100		114	80-120			
Vanadium, total	0.118	0.0020	mg/L	0.100		118	80-120			
Zinc, total	0.0974	0.0050	mg/L	0.100		97.4	80-120			
Matrix Spike (1ID1042-MS1) Source: 1ID0775-01 Prepared: 04/18/25 16:12 Analyzed: 06/18/25 18:23										
Antimony, total	0.114	0.0010	mg/L	0.100	ND	114	75-125			
Arsenic, total	0.0943	0.0020	mg/L	0.100	ND	94.3	75-125			
Barium, total	0.372	0.0010	mg/L	0.100	0.264	107	75-125			
Beryllium, total	0.117	0.0005	mg/L	0.100	ND	117	75-125			
Cadmium, total	0.101	0.0002	mg/L	0.100	ND	101	75-125			
Chromium, total	0.111	0.0010	mg/L	0.100	0.0008	111	75-125			
Cobalt, total	0.107	0.0005	mg/L	0.100	0.0001	107	75-125			
Copper, total	0.0863	0.0050	mg/L	0.100	0.0017	84.6	75-125			
Lead, total	0.103	0.0010	mg/L	0.100	ND	103	75-125			
Nickel, total	0.0854	0.0050	mg/L	0.100	0.0009	84.5	75-125			
Selenium, total	0.0976	0.0020	mg/L	0.100	ND	97.6	75-125			
Silver, total	0.112	0.0050	mg/L	0.100	ND	112	75-125			
Thallium, total	0.109	0.0005	mg/L	0.100	ND	109	75-125			
Vanadium, total	0.119	0.0020	mg/L	0.100	ND	119	75-125			
Zinc, total	0.0966	0.0050	mg/L	0.100	0.0071	89.5	75-125			
Matrix Spike Dup (1ID1042-MSD1) Source: 1ID0775-01 Prepared: 04/18/25 16:12 Analyzed: 06/18/25 18:26										

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1ID1698

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID1042 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike Dup (1ID1042-MSD1) Source: 1ID0775-01 Prepared: 04/18/25 16:12 Analyzed: 06/18/25 18:26										
Antimony, total	0.115	0.0010	mg/L	0.100	ND	115	75-125	0.152	20	
Arsenic, total	0.0958	0.0020	mg/L	0.100	ND	95.8	75-125	1.63	20	
Barium, total	0.391	0.0010	mg/L	0.100	0.264	127	75-125	5.12	20	M1
Beryllium, total	0.118	0.0005	mg/L	0.100	ND	118	75-125	0.696	20	
Cadmium, total	0.103	0.0002	mg/L	0.100	ND	103	75-125	1.95	20	
Chromium, total	0.112	0.0010	mg/L	0.100	0.0008	111	75-125	0.330	20	
Cobalt, total	0.107	0.0005	mg/L	0.100	0.0001	106	75-125	0.202	20	
Copper, total	0.0867	0.0050	mg/L	0.100	0.0017	84.9	75-125	0.449	20	
Lead, total	0.105	0.0010	mg/L	0.100	ND	105	75-125	2.15	20	
Nickel, total	0.0865	0.0050	mg/L	0.100	0.0009	85.6	75-125	1.24	20	
Selenium, total	0.0985	0.0020	mg/L	0.100	ND	98.5	75-125	0.978	20	
Silver, total	0.111	0.0050	mg/L	0.100	ND	111	75-125	1.35	20	
Thallium, total	0.111	0.0005	mg/L	0.100	ND	111	75-125	1.45	20	
Vanadium, total	0.119	0.0020	mg/L	0.100	ND	119	75-125	0.0293	20	
Zinc, total	0.0977	0.0050	mg/L	0.100	0.0071	90.6	75-125	1.14	20	

Definitions

B:	The target analyte was detected in the blank at or above the method acceptance criteria.
M1:	Matrix spike recovery is above acceptance limits.
Q2:	LCS recovery is above acceptance limits.
Q3:	LCS recovery is below acceptance limits. The reported value is estimated.
R1:	Duplicate RPD is outside acceptance criteria.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID:	Default Cooler	Temp:	1.1°C

Cooler Inspection Checklist

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

Report Comments

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

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
06/20/25 13:10



600 East
Newton
641-792



1 I D 1 6 9 8

HLW Engineering
PM: Heather Murphy

Page 1 of

Printed: 3/20/2025 11:32:57A

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SITE INFORMATION

Sampler: JGH

Project: Audubon Co. - New Regs
6050

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Tami Anderson
Audubon County Landfill
1881 215th St
Audubon, IA 50025

LAB USE ONLY

Work Order 171698

Temperature 11

Turn-Cooler: No

☒ Custody Seal
☒ Containers Intact
☒ COC/Labels Agree
☒ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
-001	MW-90-4	Aqueous	GRAB	4/16/25	9:29	7	Indfill-app1-voc-group	Indfil-app1-metals-6020	01
-001	MW-90-7	Aqueous	GRAB	4/16/25	9:44	7	Indfill-app1-voc-group	Indfil-app1-metals-6020	02
-001	MW-90-14	Aqueous	GRAB	4/16/25	8:55	7	Indfill-app1-voc-group	Indfil-app1-metals-6020	03
-001	MW-90-17(b)	Aqueous	GRAB	4/16/25	8:24	7	Indfill-app1-voc-group	Indfil-app1-metals-6020	04
-001	MW-91-19	Aqueous	GRAB	4/16/25	9:08	7	Indfill-app1-voc-group	Indfil-app1-metals-6020	05
-001	MW-91-20	Aqueous	GRAB	4/16/25	8:41	7	Indfill-app1-voc-group	Indfil-app1-metals-6020	06
-001	SW-3	Aqueous	GRAB	4/16/25	9:17	7	Indfill-app1-voc-group	Indfil-app1-metals-6020	07

Relinquished By [Signature] Date/Time 4/17/25

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____

Received for Lab By [Signature] Date/Time 10:15

Original - Lab Copy Yellow - Sampler Copy

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ2328

Project Description

6050

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Monday, November 10, 2025

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

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

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CERTIFICATE OF ANALYSIS

1IJ2328

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6050

Project / PO Number: N/A
Received: 10/28/2025
Reported: 11/10/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW-90-4	1IJ2328-01	Aqueous	GRAB		10/27/25 16:43	10/28/25 10:34
MW-90-7	1IJ2328-02	Aqueous	GRAB		10/27/25 17:07	10/28/25 10:34
MW-90-14	1IJ2328-03	Aqueous	GRAB		10/27/25 16:07	10/28/25 10:34
MW-90-17(B)	1IJ2328-04	Aqueous	GRAB		10/27/25 15:36	10/28/25 10:34
MW-91-19	1IJ2328-05	Aqueous	GRAB		10/27/25 16:30	10/28/25 10:34
MW-91-20	1IJ2328-06	Aqueous	GRAB		10/27/25 15:52	10/28/25 10:34
SW-3	1IJ2328-07	Aqueous	GRAB		10/27/25 16:54	10/28/25 10:34
Duplicate	1IJ2328-08	Aqueous	GRAB		10/27/25 00:00	10/28/25 10:34



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CERTIFICATE OF ANALYSIS

1IJ2328

Analytical Testing Parameters

Client Sample ID: MW-90-4
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-01

Collected By: JGH
Collection Date: 10/27/2025 16:43

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Bromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Chloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Acetone	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Chloroform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Benzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Dibromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Toluene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Xylenes, total	<2.0	2.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Styrene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: MW-90-4
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-01

Collected By: JGH
Collection Date: 10/27/2025 16:43

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Bromoform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1228	RAF
Surrogate: Dibromofluoromethane	93.6	Limit: 75-136	% Rec		10/31/25 0000	10/31/25 1228	RAF
Surrogate: Dibromofluoromethane	93.6	Limit: 57-128	% Rec		10/31/25 0000	10/31/25 1228	RAF
Surrogate: 1,2-Dichloroethane-d4	83.7	Limit: 61-142	% Rec		10/31/25 0000	10/31/25 1228	RAF
Surrogate: 1,2-Dichloroethane-d4	83.7	Limit: 49-135	% Rec		10/31/25 0000	10/31/25 1228	RAF
Surrogate: Toluene-d8	98.0	Limit: 82-121	% Rec		10/31/25 0000	10/31/25 1228	RAF
Surrogate: Toluene-d8	98.0	Limit: 82-116	% Rec		10/31/25 0000	10/31/25 1228	RAF
Surrogate: 4-Bromofluorobenzene	92.8	Limit: 80-116	% Rec		10/31/25 0000	10/31/25 1228	RAF
Surrogate: 4-Bromofluorobenzene	92.8	Limit: 77-114	% Rec		10/31/25 0000	10/31/25 1228	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2013	RVV
Arsenic	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2013	RVV
Barium	0.403	0.0010	mg/L		10/30/25 1307	10/31/25 2013	RVV
Beryllium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2013	RVV
Cadmium	0.0006	0.0002	mg/L		10/30/25 1307	10/31/25 2013	RVV
Chromium	0.0011	0.0010	mg/L		10/30/25 1307	10/31/25 2013	RVV
Cobalt	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2013	RVV
Copper	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2013	RVV
Lead	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2013	RVV
Nickel	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2013	RVV
Selenium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2013	RVV
Silver	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2013	RVV
Thallium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2013	RVV
Vanadium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2013	RVV
Zinc	0.0082	0.0050	mg/L		10/30/25 1307	10/31/25 2013	RVV

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: MW-90-7
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-02

Collected By: JGH
Collection Date: 10/27/2025 17:07

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Bromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Chloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Acetone	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Carbon Disulfide	<1.0	1.0	ug/L		11/06/25 0000	11/06/25 1213	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Chloroform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Benzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Dibromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Toluene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Xylenes, total	<2.0	2.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Styrene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Bromoform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: MW-90-7
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-02

Collected By: JGH
Collection Date: 10/27/2025 17:07

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1251	RAF
Surrogate: Dibromofluoromethane	93.2	Limit: 57-128	% Rec		10/31/25 0000	10/31/25 1251	RAF
Surrogate: Dibromofluoromethane	117	Limit: 75-136	% Rec		11/06/25 0000	11/06/25 1213	RAF
Surrogate: Dibromofluoromethane	93.2	Limit: 75-136	% Rec		10/31/25 0000	10/31/25 1251	RAF
Surrogate: 1,2-Dichloroethane-d4	84.9	Limit: 61-142	% Rec		10/31/25 0000	10/31/25 1251	RAF
Surrogate: 1,2-Dichloroethane-d4	84.9	Limit: 49-135	% Rec		10/31/25 0000	10/31/25 1251	RAF
Surrogate: 1,2-Dichloroethane-d4	112	Limit: 61-142	% Rec		11/06/25 0000	11/06/25 1213	RAF
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec		11/06/25 0000	11/06/25 1213	RAF
Surrogate: Toluene-d8	97.8	Limit: 82-116	% Rec		10/31/25 0000	10/31/25 1251	RAF
Surrogate: Toluene-d8	97.8	Limit: 82-121	% Rec		10/31/25 0000	10/31/25 1251	RAF
Surrogate: 4-Bromofluorobenzene	92.1	Limit: 80-116	% Rec		10/31/25 0000	10/31/25 1251	RAF
Surrogate: 4-Bromofluorobenzene	92.1	Limit: 77-114	% Rec		10/31/25 0000	10/31/25 1251	RAF
Surrogate: 4-Bromofluorobenzene	93.9	Limit: 80-116	% Rec		11/06/25 0000	11/06/25 1213	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2023	RVV
Arsenic	0.0032	0.0020	mg/L		10/30/25 1307	10/31/25 2023	RVV
Barium	0.259	0.0010	mg/L		10/30/25 1307	10/31/25 2023	RVV
Beryllium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2023	RVV
Cadmium	<0.0002	0.0002	mg/L		10/30/25 1307	10/31/25 2023	RVV
Chromium	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2023	RVV
Cobalt	0.0033	0.0005	mg/L		10/30/25 1307	10/31/25 2023	RVV
Copper	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2023	RVV
Lead	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2023	RVV
Nickel	0.0224	0.0050	mg/L		10/30/25 1307	10/31/25 2023	RVV
Selenium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2023	RVV
Silver	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2023	RVV
Thallium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2023	RVV
Vanadium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2023	RVV
Zinc	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2023	RVV

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: MW-90-14
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-03

Collected By: JGH
Collection Date: 10/27/2025 16:07

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Bromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Chloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Acetone	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Chloroform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Benzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Dibromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Toluene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Xylenes, total	<2.0	2.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Styrene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Bromoform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: MW-90-14
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-03

Collected By: JGH
Collection Date: 10/27/2025 16:07

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1314	RAF
Surrogate: Dibromofluoromethane	91.2	Limit: 57-128	% Rec		10/31/25 0000	10/31/25 1314	RAF
Surrogate: Dibromofluoromethane	91.2	Limit: 75-136	% Rec		10/31/25 0000	10/31/25 1314	RAF
Surrogate: 1,2-Dichloroethane-d4	84.6	Limit: 49-135	% Rec		10/31/25 0000	10/31/25 1314	RAF
Surrogate: 1,2-Dichloroethane-d4	84.6	Limit: 61-142	% Rec		10/31/25 0000	10/31/25 1314	RAF
Surrogate: Toluene-d8	97.9	Limit: 82-121	% Rec		10/31/25 0000	10/31/25 1314	RAF
Surrogate: Toluene-d8	97.9	Limit: 82-116	% Rec		10/31/25 0000	10/31/25 1314	RAF
Surrogate: 4-Bromofluorobenzene	92.8	Limit: 77-114	% Rec		10/31/25 0000	10/31/25 1314	RAF
Surrogate: 4-Bromofluorobenzene	92.8	Limit: 80-116	% Rec		10/31/25 0000	10/31/25 1314	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2026	RVV
Arsenic	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2026	RVV
Barium	0.261	0.0010	mg/L		10/30/25 1307	10/31/25 2026	RVV
Beryllium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2026	RVV
Cadmium	0.0014	0.0002	mg/L		10/30/25 1307	10/31/25 2026	RVV
Chromium	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2026	RVV
Cobalt	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2026	RVV
Copper	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2026	RVV
Lead	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2026	RVV
Nickel	0.0176	0.0050	mg/L		10/30/25 1307	10/31/25 2026	RVV
Selenium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2026	RVV
Silver	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2026	RVV
Thallium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2026	RVV
Vanadium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2026	RVV
Zinc	0.0078	0.0050	mg/L		10/30/25 1307	10/31/25 2026	RVV

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: MW-90-17(B)
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-04

Collected By: JGH
Collection Date: 10/27/2025 15:36

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Bromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Chloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Acetone	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Carbon Disulfide	4.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Chloroform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Benzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Dibromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Toluene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Xylenes, total	<2.0	2.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Styrene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Bromoform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: MW-90-17(B)

Sample Matrix: Aqueous

Lab Sample ID: 1IJ2328-04

Collected By: JGH

Collection Date: 10/27/2025 15:36

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1336	RAF
Surrogate: Dibromofluoromethane	93.9	Limit: 57-128	% Rec		10/31/25 0000	10/31/25 1336	RAF
Surrogate: Dibromofluoromethane	93.9	Limit: 75-136	% Rec		10/31/25 0000	10/31/25 1336	RAF
Surrogate: 1,2-Dichloroethane-d4	85.0	Limit: 49-135	% Rec		10/31/25 0000	10/31/25 1336	RAF
Surrogate: 1,2-Dichloroethane-d4	85.0	Limit: 61-142	% Rec		10/31/25 0000	10/31/25 1336	RAF
Surrogate: Toluene-d8	98.3	Limit: 82-121	% Rec		10/31/25 0000	10/31/25 1336	RAF
Surrogate: Toluene-d8	98.3	Limit: 82-116	% Rec		10/31/25 0000	10/31/25 1336	RAF
Surrogate: 4-Bromofluorobenzene	91.7	Limit: 77-114	% Rec		10/31/25 0000	10/31/25 1336	RAF
Surrogate: 4-Bromofluorobenzene	91.7	Limit: 80-116	% Rec		10/31/25 0000	10/31/25 1336	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2028	RVV
Arsenic	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2028	RVV
Barium	0.321	0.0010	mg/L		10/30/25 1307	10/31/25 2028	RVV
Beryllium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2028	RVV
Cadmium	<0.0002	0.0002	mg/L		10/30/25 1307	10/31/25 2028	RVV
Chromium	0.0028	0.0010	mg/L		10/30/25 1307	10/31/25 2028	RVV
Cobalt	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2028	RVV
Copper	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2028	RVV
Lead	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2028	RVV
Nickel	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2028	RVV
Selenium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2028	RVV
Silver	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2028	RVV
Thallium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2028	RVV
Vanadium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2028	RVV
Zinc	0.0337	0.0050	mg/L		10/30/25 1307	10/31/25 2028	RVV

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: MW-91-19
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-05

Collected By: JGH
Collection Date: 10/27/2025 16:30

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Bromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Chloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Acetone	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Carbon Disulfide	<1.0	1.0	ug/L		11/06/25 0000	11/06/25 1259	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Chloroform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Benzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Dibromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Toluene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Xylenes, total	<2.0	2.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Styrene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Bromoform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: MW-91-19
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-05

Collected By: JGH
Collection Date: 10/27/2025 16:30

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1359	RAF
Surrogate: Dibromofluoromethane	93.1	Limit: 75-136	% Rec		10/31/25 0000	10/31/25 1359	RAF
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec		11/06/25 0000	11/06/25 1259	RAF
Surrogate: Dibromofluoromethane	93.1	Limit: 57-128	% Rec		10/31/25 0000	10/31/25 1359	RAF
Surrogate: 1,2-Dichloroethane-d4	95.2	Limit: 61-142	% Rec		11/06/25 0000	11/06/25 1259	RAF
Surrogate: 1,2-Dichloroethane-d4	83.5	Limit: 61-142	% Rec		10/31/25 0000	10/31/25 1359	RAF
Surrogate: 1,2-Dichloroethane-d4	83.5	Limit: 49-135	% Rec		10/31/25 0000	10/31/25 1359	RAF
Surrogate: Toluene-d8	97.3	Limit: 82-121	% Rec		11/06/25 0000	11/06/25 1259	RAF
Surrogate: Toluene-d8	97.8	Limit: 82-116	% Rec		10/31/25 0000	10/31/25 1359	RAF
Surrogate: Toluene-d8	97.8	Limit: 82-121	% Rec		10/31/25 0000	10/31/25 1359	RAF
Surrogate: 4-Bromofluorobenzene	92.9	Limit: 80-116	% Rec		11/06/25 0000	11/06/25 1259	RAF
Surrogate: 4-Bromofluorobenzene	91.7	Limit: 80-116	% Rec		10/31/25 0000	10/31/25 1359	RAF
Surrogate: 4-Bromofluorobenzene	91.7	Limit: 77-114	% Rec		10/31/25 0000	10/31/25 1359	RAF
Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2031	RVV
Arsenic	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2031	RVV
Barium	0.351	0.0010	mg/L		10/30/25 1307	10/31/25 2031	RVV
Beryllium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2031	RVV
Cadmium	0.0002	0.0002	mg/L		10/30/25 1307	10/31/25 2031	RVV
Chromium	0.0014	0.0010	mg/L		10/30/25 1307	10/31/25 2031	RVV
Cobalt	0.0030	0.0005	mg/L		10/30/25 1307	10/31/25 2031	RVV
Copper	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2031	RVV
Lead	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2031	RVV
Nickel	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2031	RVV
Selenium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2031	RVV
Silver	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2031	RVV
Thallium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2031	RVV
Vanadium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2031	RVV
Zinc	0.0069	0.0050	mg/L		10/30/25 1307	10/31/25 2031	RVV

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: MW-91-20
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-06

Collected By: JGH
Collection Date: 10/27/2025 15:52

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Bromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Chloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Acetone	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Carbon Disulfide	2.1	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Chloroform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Benzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Dibromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Toluene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Xylenes, total	<2.0	2.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Styrene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Bromoform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: MW-91-20
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-06

Collected By: JGH
Collection Date: 10/27/2025 15:52

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1422	RAF
Surrogate: Dibromofluoromethane	92.3	Limit: 57-128	% Rec		10/31/25 0000	10/31/25 1422	RAF
Surrogate: Dibromofluoromethane	92.3	Limit: 75-136	% Rec		10/31/25 0000	10/31/25 1422	RAF
Surrogate: 1,2-Dichloroethane-d4	84.7	Limit: 49-135	% Rec		10/31/25 0000	10/31/25 1422	RAF
Surrogate: 1,2-Dichloroethane-d4	84.7	Limit: 61-142	% Rec		10/31/25 0000	10/31/25 1422	RAF
Surrogate: Toluene-d8	97.9	Limit: 82-116	% Rec		10/31/25 0000	10/31/25 1422	RAF
Surrogate: Toluene-d8	97.9	Limit: 82-121	% Rec		10/31/25 0000	10/31/25 1422	RAF
Surrogate: 4-Bromofluorobenzene	90.6	Limit: 77-114	% Rec		10/31/25 0000	10/31/25 1422	RAF
Surrogate: 4-Bromofluorobenzene	90.6	Limit: 80-116	% Rec		10/31/25 0000	10/31/25 1422	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2033	RVV
Arsenic	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2033	RVV
Barium	0.184	0.0010	mg/L		10/30/25 1307	10/31/25 2033	RVV
Beryllium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2033	RVV
Cadmium	<0.0002	0.0002	mg/L		10/30/25 1307	10/31/25 2033	RVV
Chromium	0.0014	0.0010	mg/L		10/30/25 1307	10/31/25 2033	RVV
Cobalt	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2033	RVV
Copper	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2033	RVV
Lead	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2033	RVV
Nickel	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2033	RVV
Selenium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2033	RVV
Silver	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2033	RVV
Thallium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2033	RVV
Vanadium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2033	RVV
Zinc	0.0072	0.0050	mg/L		10/30/25 1307	10/31/25 2033	RVV

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: SW-3
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-07

Collected By: JGH
Collection Date: 10/27/2025 16:54

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Bromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Chloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Acetone	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Chloroform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Benzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Dibromomethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Toluene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Xylenes, total	<2.0	2.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Styrene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Bromoform	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID: SW-3
Sample Matrix: Aqueous
Lab Sample ID: 1IJ2328-07

Collected By: JGH
Collection Date: 10/27/2025 16:54

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/31/25 0000	10/31/25 1445	RAF
Surrogate: Dibromofluoromethane	93.0	Limit: 75-136	% Rec		10/31/25 0000	10/31/25 1445	RAF
Surrogate: Dibromofluoromethane	93.0	Limit: 57-128	% Rec		10/31/25 0000	10/31/25 1445	RAF
Surrogate: 1,2-Dichloroethane-d4	84.2	Limit: 49-135	% Rec		10/31/25 0000	10/31/25 1445	RAF
Surrogate: 1,2-Dichloroethane-d4	84.2	Limit: 61-142	% Rec		10/31/25 0000	10/31/25 1445	RAF
Surrogate: Toluene-d8	97.4	Limit: 82-121	% Rec		10/31/25 0000	10/31/25 1445	RAF
Surrogate: Toluene-d8	97.4	Limit: 82-116	% Rec		10/31/25 0000	10/31/25 1445	RAF
Surrogate: 4-Bromofluorobenzene	91.5	Limit: 77-114	% Rec		10/31/25 0000	10/31/25 1445	RAF
Surrogate: 4-Bromofluorobenzene	91.5	Limit: 80-116	% Rec		10/31/25 0000	10/31/25 1445	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2036	RVV
Arsenic	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2036	RVV
Barium	0.301	0.0010	mg/L		10/30/25 1307	10/31/25 2036	RVV
Beryllium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2036	RVV
Cadmium	<0.0002	0.0002	mg/L		10/30/25 1307	10/31/25 2036	RVV
Chromium	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2036	RVV
Cobalt	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2036	RVV
Copper	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2036	RVV
Lead	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2036	RVV
Nickel	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2036	RVV
Selenium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2036	RVV
Silver	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2036	RVV
Thallium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2036	RVV
Vanadium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2036	RVV
Zinc	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2036	RVV

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CERTIFICATE OF ANALYSIS

1IJ2328

Client Sample ID:	Duplicate	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	10/27/2025
Lab Sample ID:	1IJ2328-08		

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2043	RVV
Arsenic	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2043	RVV
Barium	0.258	0.0010	mg/L		10/30/25 1307	10/31/25 2043	RVV
Beryllium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2043	RVV
Cadmium	0.0018	0.0002	mg/L		10/30/25 1307	10/31/25 2043	RVV
Chromium	0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2043	RVV
Cobalt	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2043	RVV
Copper	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2043	RVV
Lead	<0.0010	0.0010	mg/L		10/30/25 1307	10/31/25 2043	RVV
Nickel	0.0174	0.0050	mg/L		10/30/25 1307	10/31/25 2043	RVV
Selenium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2043	RVV
Silver	<0.0050	0.0050	mg/L		10/30/25 1307	10/31/25 2043	RVV
Thallium	<0.0005	0.0005	mg/L		10/30/25 1307	10/31/25 2043	RVV
Vanadium	<0.0020	0.0020	mg/L		10/30/25 1307	10/31/25 2043	RVV
Zinc	0.0127	0.0050	mg/L		10/30/25 1307	10/31/25 2043	RVV

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CERTIFICATE OF ANALYSIS

1IJ2328

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1IJ1761	1IJ1761-BLK1	
		1IJ1761-BS1	
		1IJ2328-01	MW-90-4
		1IJ1761-MS1	1IJ2328-01
		1IJ1761-MSD1	1IJ2328-01
		1IJ1761-PS1	1IJ2328-01
		1IJ2328-02	MW-90-7
		1IJ2328-03	MW-90-14
		1IJ2328-04	MW-90-17(B)
		1IJ2328-05	MW-91-19
		1IJ2328-06	MW-91-20
		1IJ2328-07	SW-3
		1IJ2328-08	Duplicate
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IJ1857	1IJ1857-BS1	
		1IJ1857-BSD1	
		1IJ1857-BLK1	
		1IJ2328-01	MW-90-4
		1IJ2328-02	MW-90-7
		1IJ2328-03	MW-90-14
		1IJ2328-04	MW-90-17(B)
		1IJ2328-05	MW-91-19
		1IJ2328-06	MW-91-20
		1IJ2328-07	SW-3
		1IJ1857-MS1	1IJ2328-01
		1IJ1857-MSD1	1IJ2328-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IK0326	1IK0326-BS1	
		1IK0326-BSD1	
		1IK0326-BLK1	
		1IJ2328-02RE1	MW-90-7
		1IJ2328-05RE1	MW-91-19
		1IK0326-MS1	3IJ0165-01
		1IK0326-MSD1	3IJ0165-01

Batch Quality Control Summary: Microbac Laboratories, Inc., Newton

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1857 - EPA 5030B - EPA 8260D										
Blank (1IJ1857-BLK1)				Prepared: 10/31/25 00:00 Analyzed: 10/31/25 10:34						
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							

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CERTIFICATE OF ANALYSIS

1IJ2328

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1857 - EPA 5030B - EPA 8260D										
Blank (1IJ1857-BLK1)				Prepared: 10/31/25 00:00 Analyzed: 10/31/25 10:34						
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	46.0		ug/L	50.2		91.6	75-136			

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CERTIFICATE OF ANALYSIS

1IJ2328

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1857 - EPA 5030B - EPA 8260D									
Blank (1IJ1857-BLK1)									
Prepared: 10/31/25 00:00 Analyzed: 10/31/25 10:34									
Surrogate: Dibromofluoromethane	46.0		ug/L	50.2		91.6 57-128			
Surrogate: 1,2-Dichloroethane-d4	41.1		ug/L	50.4		81.7 61-142			
Surrogate: 1,2-Dichloroethane-d4	41.1		ug/L	50.4		81.7 49-135			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.0 82-121			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.0 82-116			
Surrogate: 4-Bromofluorobenzene	46.2		ug/L	50.2		92.2 80-116			
Surrogate: 4-Bromofluorobenzene	46.2		ug/L	50.2		92.2 77-114			
LCS (1IJ1857-BS1)									
Prepared: 10/31/25 00:00 Analyzed: 10/31/25 09:25									
Chloromethane	25.86	1.0	ug/L	30.3		85.3 63-155			Q3
Vinyl Chloride	15.30	1.0	ug/L	30.2		50.6 70-154			
Bromomethane	25.24	1.0	ug/L	30.1		83.8 52-176			
Chloroethane	25.20	1.0	ug/L	30.3		83.1 72-148			
Trichlorofluoromethane	28.79	1.0	ug/L	30.3		95.0 70-152			
1,1-Dichloroethylene	39.65	1.0	ug/L	50.1		79.1 70-148			
Acetone	75.91	10.0	ug/L	100		75.9 43-172			
Methyl Iodide	109.7	1.0	ug/L	100		110 69-170			
Carbon Disulfide	84.40	1.0	ug/L	100		84.4 72-162			
Methylene Chloride	44.17	5.0	ug/L	50.1		88.2 68-142			
Acrylonitrile	39.80	5.0	ug/L	50.4		79.0 33-163			
trans-1,2-Dichloroethylene	41.97	1.0	ug/L	50.1		83.8 66-148			
1,1-Dichloroethane	38.51	1.0	ug/L	50.1		76.9 66-143			
Vinyl Acetate	139.7	5.0	ug/L	142		98.0 43-153			
cis-1,2-Dichloroethylene	41.11	1.0	ug/L	50.4		81.6 71-149			
2-Butanone (MEK)	83.74	10.0	ug/L	100		83.7 52-159			
Bromochloromethane	37.95	1.0	ug/L	50.4		75.3 69-143			
Chloroform	39.81	1.0	ug/L	50.1		79.5 69-144			
1,1,1-Trichloroethane	41.10	1.0	ug/L	50.1		82.0 62-129			
Carbon Tetrachloride	48.98	1.0	ug/L	50.1		97.8 63-141			
Benzene	41.36	1.0	ug/L	50.4		82.0 71-134			
1,2-Dichloroethane	41.44	1.0	ug/L	50.1		82.7 72-132			
Trichloroethylene	45.28	1.0	ug/L	50.1		90.4 71-135			
1,2-Dichloropropane	43.83	1.0	ug/L	50.1		87.5 69-136			
Dibromomethane	43.11	1.0	ug/L	50.4		85.6 73-147			
Bromodichloromethane	44.00	1.0	ug/L	50.1		87.8 68-129			
cis-1,3-Dichloropropene	40.32	1.0	ug/L	50.1		80.5 65-134			
4-Methyl-2-pentanone (MIBK)	79.47	5.0	ug/L	100		79.5 58-147			
Toluene	43.66	1.0	ug/L	50.5		86.5 72-133			
trans-1,3-Dichloropropene	40.46	1.0	ug/L	50.1		80.8 67-130			
1,1,2-Trichloroethane	45.72	1.0	ug/L	50.1		91.3 69-135			
Tetrachloroethylene	51.50	1.0	ug/L	50.1		103 69-130			
2-Hexanone (MBK)	85.40	5.0	ug/L	100		85.4 55-144			
Dibromochloromethane	47.59	1.0	ug/L	50.1		95.0 73-127			
1,2-Dibromoethane	47.25	1.0	ug/L	50.2		94.1 67-132			

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CERTIFICATE OF ANALYSIS

1IJ2328

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1857 - EPA 5030B - EPA 8260D										
LCS (1IJ1857-BS1)										
Prepared: 10/31/25 00:00 Analyzed: 10/31/25 09:25										
Chlorobenzene	44.94	1.0	ug/L	50.1		89.7	72-123			
1,1,1,2-Tetrachloroethane	51.01	1.0	ug/L	50.3		101	73-127			
Ethylbenzene	44.15	1.0	ug/L	50.2		88.0	71-127			
Xylenes, total	131.3	2.0	ug/L	151		86.9	74-127			
Styrene	52.26	1.0	ug/L	50.4		104	66-126			
Bromoform	52.08	1.0	ug/L	50.1		104	68-130			
1,2,3-Trichloropropane	47.51	1.0	ug/L	50.3		94.4	63-136			
trans-1,4-Dichloro-2-butene	73.12	5.0	ug/L	100		73.1	54-134			
1,1,2,2-Tetrachloroethane	38.82	1.0	ug/L	50.1		77.5	61-131			
1,4-Dichlorobenzene	47.24	1.0	ug/L	50.1		94.2	70-129			
1,2-Dichlorobenzene	46.43	1.0	ug/L	50.1		92.7	69-126			
1,2-Dibromo-3-chloropropane	46.97	5.0	ug/L	50.1		93.7	50-143			
Surrogate: Dibromofluoromethane	45.7		ug/L	50.2		91.0	75-136			
Surrogate: Dibromofluoromethane	45.7		ug/L	50.2		91.0	57-128			
Surrogate: 1,2-Dichloroethane-d4	40.7		ug/L	50.4		80.8	61-142			
Surrogate: 1,2-Dichloroethane-d4	40.7		ug/L	50.4		80.8	49-135			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.2	82-121			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.2	82-116			
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50.2		98.0	80-116			
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50.2		98.0	77-114			
LCS Dup (1IJ1857-BSD1)										
Prepared: 10/31/25 00:00 Analyzed: 10/31/25 09:48										
Chloromethane	25.53	1.0	ug/L	30.3		84.2	63-155	1.28	24	
Vinyl Chloride	15.34	1.0	ug/L	30.2		50.7	70-154	0.261	25	Q3
Bromomethane	24.70	1.0	ug/L	30.1		82.0	52-176	2.16	27	
Chloroethane	25.11	1.0	ug/L	30.3		82.8	72-148	0.358	25	
Trichlorofluoromethane	28.69	1.0	ug/L	30.3		94.7	70-152	0.348	26	
1,1-Dichloroethylene	39.50	1.0	ug/L	50.1		78.8	70-148	0.379	24	
Acetone	75.07	10.0	ug/L	100		75.1	43-172	1.11	30	
Methyl Iodide	113.8	1.0	ug/L	100		114	69-170	3.71	30	
Carbon Disulfide	84.14	1.0	ug/L	100		84.1	72-162	0.309	24	
Methylene Chloride	42.98	5.0	ug/L	50.1		85.8	68-142	2.73	21	
Acrylonitrile	39.19	5.0	ug/L	50.4		77.8	33-163	1.54	28	
trans-1,2-Dichloroethylene	41.96	1.0	ug/L	50.1		83.8	66-148	0.0238	27	
1,1-Dichloroethane	38.27	1.0	ug/L	50.1		76.4	66-143	0.625	24	
Vinyl Acetate	134.0	5.0	ug/L	142		94.0	43-153	4.17	30	
cis-1,2-Dichloroethylene	41.01	1.0	ug/L	50.4		81.4	71-149	0.244	26	
2-Butanone (MEK)	82.16	10.0	ug/L	100		82.2	52-159	1.90	27	
Bromochloromethane	36.98	1.0	ug/L	50.4		73.4	69-143	2.59	23	
Chloroform	39.98	1.0	ug/L	50.1		79.8	69-144	0.426	23	
1,1,1-Trichloroethane	41.50	1.0	ug/L	50.1		82.8	62-129	0.969	24	
Carbon Tetrachloride	49.28	1.0	ug/L	50.1		98.4	63-141	0.611	25	
Benzene	41.67	1.0	ug/L	50.4		82.6	71-134	0.747	24	
1,2-Dichloroethane	41.15	1.0	ug/L	50.1		82.2	72-132	0.702	24	

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CERTIFICATE OF ANALYSIS

11J2328

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1857 - EPA 5030B - EPA 8260D										
LCS Dup (11J1857-BSD1)				Prepared: 10/31/25 00:00 Analyzed: 10/31/25 09:48						
Trichloroethylene	45.80	1.0	ug/L	50.1		91.4	71-135	1.14	24	
1,2-Dichloropropane	43.30	1.0	ug/L	50.1		86.4	69-136	1.22	24	
Dibromomethane	43.57	1.0	ug/L	50.4		86.5	73-147	1.06	25	
Bromodichloromethane	44.91	1.0	ug/L	50.1		89.7	68-129	2.05	22	
cis-1,3-Dichloropropene	41.14	1.0	ug/L	50.1		82.1	65-134	2.01	23	
4-Methyl-2-pentanone (MIBK)	78.30	5.0	ug/L	100		78.3	58-147	1.48	27	
Toluene	44.10	1.0	ug/L	50.5		87.4	72-133	1.00	24	
trans-1,3-Dichloropropene	40.48	1.0	ug/L	50.1		80.8	67-130	0.0494	24	
1,1,2-Trichloroethane	45.00	1.0	ug/L	50.1		89.8	69-135	1.59	23	
Tetrachloroethylene	51.65	1.0	ug/L	50.1		103	69-130	0.291	25	
2-Hexanone (MBK)	83.60	5.0	ug/L	100		83.6	55-144	2.13	25	
Dibromochloromethane	46.75	1.0	ug/L	50.1		93.4	73-127	1.78	22	
1,2-Dibromoethane	46.24	1.0	ug/L	50.2		92.1	67-132	2.16	24	
Chlorobenzene	45.09	1.0	ug/L	50.1		90.0	72-123	0.333	23	
1,1,1,2-Tetrachloroethane	50.60	1.0	ug/L	50.3		101	73-127	0.807	24	
Ethylbenzene	44.54	1.0	ug/L	50.2		88.8	71-127	0.879	26	
Xylenes, total	132.0	2.0	ug/L	151		87.4	74-127	0.554	25	
Styrene	52.37	1.0	ug/L	50.4		104	66-126	0.210	23	
Bromoform	52.61	1.0	ug/L	50.1		105	68-130	1.01	23	
1,2,3-Trichloropropane	45.11	1.0	ug/L	50.3		89.6	63-136	5.18	24	
trans-1,4-Dichloro-2-butene	71.10	5.0	ug/L	100		71.1	54-134	2.80	27	
1,1,2,2-Tetrachloroethane	38.23	1.0	ug/L	50.1		76.3	61-131	1.53	29	
1,4-Dichlorobenzene	48.02	1.0	ug/L	50.1		95.8	70-129	1.64	24	
1,2-Dichlorobenzene	46.93	1.0	ug/L	50.1		93.7	69-126	1.07	26	
1,2-Dibromo-3-chloropropane	49.55	5.0	ug/L	50.1		98.8	50-143	5.35	30	
Surrogate: Dibromofluoromethane	45.7		ug/L	50.2		91.0	75-136			
Surrogate: Dibromofluoromethane	45.7		ug/L	50.2		91.0	57-128			
Surrogate: 1,2-Dichloroethane-d4	40.4		ug/L	50.4		80.3	61-142			
Surrogate: 1,2-Dichloroethane-d4	40.4		ug/L	50.4		80.3	49-135			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.3	82-121			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.3	82-116			
Surrogate: 4-Bromofluorobenzene	48.5		ug/L	50.2		96.6	80-116			
Surrogate: 4-Bromofluorobenzene	48.5		ug/L	50.2		96.6	77-114			
Matrix Spike (11J1857-MS1)				Source: 11J2328-01		Prepared: 10/31/25 00:00 Analyzed: 10/31/25 15:08				
Chloromethane	266.9	10.0	ug/L	303	ND	88.0	61-152			
Vinyl Chloride	160.1	10.0	ug/L	302	ND	52.9	66-149			M2
Bromomethane	260.1	10.0	ug/L	301	ND	86.4	43-171			
Chloroethane	257.1	10.0	ug/L	303	ND	84.8	69-148			
Trichlorofluoromethane	301.5	10.0	ug/L	303	ND	99.5	62-163			
1,1-Dichloroethylene	414.2	10.0	ug/L	501	ND	82.6	70-148			
Acetone	1099	100	ug/L	1000	ND	110	45-173			
Methyl Iodide	1065	10.0	ug/L	1000	ND	106	62-167			
Carbon Disulfide	871.8	10.0	ug/L	1000	ND	87.2	71-163			

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CERTIFICATE OF ANALYSIS

1IJ2328

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1857 - EPA 5030B - EPA 8260D										
Matrix Spike (1IJ1857-MS1)	Source: 1IJ2328-01			Prepared: 10/31/25 00:00 Analyzed: 10/31/25 15:08						
Methylene Chloride	452.3	50.0	ug/L	501	ND	90.3	69-140			
Acrylonitrile	409.6	50.0	ug/L	504	ND	81.4	32-159			
trans-1,2-Dichloroethylene	438.5	10.0	ug/L	501	ND	87.5	69-144			
1,1-Dichloroethane	406.9	10.0	ug/L	501	ND	81.2	70-138			
Vinyl Acetate	1423	50.0	ug/L	1420	ND	99.9	58-142			
cis-1,2-Dichloroethylene	431.3	10.0	ug/L	504	ND	85.7	68-151			
2-Butanone (MEK)	933.9	100	ug/L	1000	ND	93.4	50-160			
Bromochloromethane	390.9	10.0	ug/L	504	ND	77.6	65-143			
Chloroform	422.8	10.0	ug/L	501	ND	84.4	71-143			
1,1,1-Trichloroethane	429.4	10.0	ug/L	501	ND	85.7	63-133			
Carbon Tetrachloride	505.0	10.0	ug/L	501	ND	101	63-142			
Benzene	431.2	10.0	ug/L	504	ND	85.5	69-133			
1,2-Dichloroethane	427.4	10.0	ug/L	501	ND	85.3	63-138			
Trichloroethylene	475.8	10.0	ug/L	501	ND	95.0	71-133			
1,2-Dichloropropane	449.5	10.0	ug/L	501	ND	89.7	69-132			
Dibromomethane	441.4	10.0	ug/L	504	ND	87.6	70-147			
Bromodichloromethane	454.3	10.0	ug/L	501	ND	90.7	67-130			
cis-1,3-Dichloropropene	411.1	10.0	ug/L	501	ND	82.1	61-126			
4-Methyl-2-pentanone (MIBK)	802.9	50.0	ug/L	1000	ND	80.3	55-147			
Toluene	456.2	10.0	ug/L	505	ND	90.4	71-133			
trans-1,3-Dichloropropene	402.2	10.0	ug/L	501	ND	80.3	63-124			
1,1,2-Trichloroethane	467.3	10.0	ug/L	501	ND	93.3	69-133			
Tetrachloroethylene	534.4	10.0	ug/L	501	ND	107	70-124			
2-Hexanone (MBK)	911.1	50.0	ug/L	1000	ND	91.1	53-141			
Dibromochloromethane	473.0	10.0	ug/L	501	ND	94.5	74-122			
1,2-Dibromoethane	472.4	10.0	ug/L	502	ND	94.1	66-127			
Chlorobenzene	458.3	10.0	ug/L	501	ND	91.5	76-116			
1,1,1,2-Tetrachloroethane	504.3	10.0	ug/L	503	ND	100	77-121			
Ethylbenzene	458.9	10.0	ug/L	502	ND	91.5	73-124			
Xylenes, total	1364	20.0	ug/L	1510	ND	90.3	75-123			
Styrene	534.0	10.0	ug/L	504	ND	106	70-120			
Bromoform	516.5	10.0	ug/L	501	ND	103	70-124			
1,2,3-Trichloropropane	471.8	10.0	ug/L	503	ND	93.7	62-135			
trans-1,4-Dichloro-2-butene	737.1	50.0	ug/L	1000	ND	73.7	50-120			
1,1,2,2-Tetrachloroethane	392.6	10.0	ug/L	501	ND	78.4	63-126			
1,4-Dichlorobenzene	490.7	10.0	ug/L	501	ND	97.9	72-119			
1,2-Dichlorobenzene	478.3	10.0	ug/L	501	ND	95.5	71-117			
1,2-Dibromo-3-chloropropane	488.8	50.0	ug/L	501	ND	97.5	49-134			
Surrogate: Dibromofluoromethane	462		ug/L	502		92.0	57-128			
Surrogate: Dibromofluoromethane	462		ug/L	502		92.0	75-136			
Surrogate: 1,2-Dichloroethane-d4	414		ug/L	504		82.2	49-135			
Surrogate: 1,2-Dichloroethane-d4	414		ug/L	504		82.2	61-142			
Surrogate: Toluene-d8	496		ug/L	505		98.3	82-116			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1857 - EPA 5030B - EPA 8260D										
Matrix Spike (1IJ1857-MS1)		Source: 1IJ2328-01		Prepared: 10/31/25 00:00 Analyzed: 10/31/25 15:08						
Surrogate: Toluene-d8	496		ug/L	505		98.3	82-121			
Surrogate: 4-Bromofluorobenzene	479		ug/L	502		95.4	77-114			
Surrogate: 4-Bromofluorobenzene	479		ug/L	502		95.4	80-116			
Matrix Spike Dup (1IJ1857-MSD1)		Source: 1IJ2328-01		Prepared: 10/31/25 00:00 Analyzed: 10/31/25 15:31						
Chloromethane	248.1	10.0	ug/L	303	ND	81.8	61-152	7.30	26	
Vinyl Chloride	150.7	10.0	ug/L	302	ND	49.8	66-149	6.05	23	M2
Bromomethane	250.8	10.0	ug/L	301	ND	83.3	43-171	3.64	29	
Chloroethane	247.8	10.0	ug/L	303	ND	81.7	69-148	3.68	25	
Trichlorofluoromethane	284.8	10.0	ug/L	303	ND	94.0	62-163	5.70	25	
1,1-Dichloroethylene	388.8	10.0	ug/L	501	ND	77.6	70-148	6.33	22	
Acetone	1058	100	ug/L	1000	ND	106	45-173	3.80	30	
Methyl Iodide	1101	10.0	ug/L	1000	ND	110	62-167	3.38	24	
Carbon Disulfide	806.4	10.0	ug/L	1000	ND	80.6	71-163	7.79	22	
Methylene Chloride	430.8	50.0	ug/L	501	ND	86.0	69-140	4.87	19	
Acrylonitrile	399.1	50.0	ug/L	504	ND	79.3	32-159	2.60	30	
trans-1,2-Dichloroethylene	415.3	10.0	ug/L	501	ND	82.9	69-144	5.43	22	
1,1-Dichloroethane	382.4	10.0	ug/L	501	ND	76.3	70-138	6.21	20	
Vinyl Acetate	1400	50.0	ug/L	1420	ND	98.2	58-142	1.64	24	
cis-1,2-Dichloroethylene	408.2	10.0	ug/L	504	ND	81.1	68-151	5.50	22	
2-Butanone (MEK)	913.4	100	ug/L	1000	ND	91.3	50-160	2.22	23	
Bromochloromethane	374.4	10.0	ug/L	504	ND	74.3	65-143	4.31	22	
Chloroform	400.9	10.0	ug/L	501	ND	80.0	71-143	5.32	21	
1,1,1-Trichloroethane	405.9	10.0	ug/L	501	ND	81.0	63-133	5.63	23	
Carbon Tetrachloride	478.1	10.0	ug/L	501	ND	95.4	63-142	5.47	22	
Benzene	411.7	10.0	ug/L	504	ND	81.6	69-133	4.63	18	
1,2-Dichloroethane	411.6	10.0	ug/L	501	ND	82.2	63-138	3.77	20	
Trichloroethylene	447.5	10.0	ug/L	501	ND	89.3	71-133	6.13	23	
1,2-Dichloropropane	436.4	10.0	ug/L	501	ND	87.1	69-132	2.96	20	
Dibromomethane	428.7	10.0	ug/L	504	ND	85.1	70-147	2.92	22	
Bromodichloromethane	444.0	10.0	ug/L	501	ND	88.6	67-130	2.29	21	
cis-1,3-Dichloropropene	405.5	10.0	ug/L	501	ND	81.0	61-126	1.37	21	
4-Methyl-2-pentanone (MIBK)	793.3	50.0	ug/L	1000	ND	79.3	55-147	1.20	23	
Toluene	435.1	10.0	ug/L	505	ND	86.2	71-133	4.73	19	
trans-1,3-Dichloropropene	400.5	10.0	ug/L	501	ND	80.0	63-124	0.424	21	
1,1,2-Trichloroethane	456.4	10.0	ug/L	501	ND	91.1	69-133	2.36	19	
Tetrachloroethylene	501.8	10.0	ug/L	501	ND	100	70-124	6.29	24	
2-Hexanone (MBK)	904.4	50.0	ug/L	1000	ND	90.4	53-141	0.738	24	
Dibromochloromethane	468.2	10.0	ug/L	501	ND	93.5	74-122	1.02	21	
1,2-Dibromoethane	461.6	10.0	ug/L	502	ND	91.9	66-127	2.31	23	
Chlorobenzene	440.7	10.0	ug/L	501	ND	88.0	76-116	3.92	21	
1,1,1,2-Tetrachloroethane	507.1	10.0	ug/L	503	ND	101	77-121	0.554	25	
Ethylbenzene	432.6	10.0	ug/L	502	ND	86.2	73-124	5.90	20	

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11J2328

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1857 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11J1857-MSD1) Source: 11J2328-01 Prepared: 10/31/25 00:00 Analyzed: 10/31/25 15:31										
Xylenes, total	1286	20.0	ug/L	1510	ND	85.1	75-123	5.85	20	
Styrene	516.0	10.0	ug/L	504	ND	102	70-120	3.43	23	
Bromoform	521.2	10.0	ug/L	501	ND	104	70-124	0.906	22	
1,2,3-Trichloropropane	469.0	10.0	ug/L	503	ND	93.2	62-135	0.595	28	
trans-1,4-Dichloro-2-butene	726.4	50.0	ug/L	1000	ND	72.6	50-120	1.46	26	
1,1,2,2-Tetrachloroethane	384.0	10.0	ug/L	501	ND	76.6	63-126	2.21	24	
1,4-Dichlorobenzene	469.8	10.0	ug/L	501	ND	93.7	72-119	4.35	24	
1,2-Dichlorobenzene	460.5	10.0	ug/L	501	ND	91.9	71-117	3.79	24	
1,2-Dibromo-3-chloropropane	472.8	50.0	ug/L	501	ND	94.3	49-134	3.33	28	
Surrogate: Dibromofluoromethane	460		ug/L	502		91.6	57-128			
Surrogate: Dibromofluoromethane	460		ug/L	502		91.6	75-136			
Surrogate: 1,2-Dichloroethane-d4	411		ug/L	504		81.7	49-135			
Surrogate: 1,2-Dichloroethane-d4	411		ug/L	504		81.7	61-142			
Surrogate: Toluene-d8	497		ug/L	505		98.5	82-116			
Surrogate: Toluene-d8	497		ug/L	505		98.5	82-121			
Surrogate: 4-Bromofluorobenzene	485		ug/L	502		96.6	77-114			
Surrogate: 4-Bromofluorobenzene	485		ug/L	502		96.6	80-116			
Batch 11K0326 - EPA 5030B - EPA 8260D										
Blank (11K0326-BLK1) Prepared: 11/06/25 00:00 Analyzed: 11/06/25 10:19										
Carbon Disulfide	<1.0	1.0	ug/L							
Surrogate: Dibromofluoromethane	53.4		ug/L	50.2		106	75-136			
Surrogate: 1,2-Dichloroethane-d4	49.0		ug/L	50.4		97.4	61-142			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.1	82-121			
Surrogate: 4-Bromofluorobenzene	46.6		ug/L	50.2		92.8	80-116			
LCS (11K0326-BS1) Prepared: 11/06/25 00:00 Analyzed: 11/06/25 09:10										
Carbon Disulfide	103.7	1.0	ug/L	100		104	72-162			
Surrogate: Dibromofluoromethane	53.7		ug/L	50.2		107	75-136			
Surrogate: 1,2-Dichloroethane-d4	47.9		ug/L	50.4		95.1	61-142			
Surrogate: Toluene-d8	49.3		ug/L	50.5		97.6	82-121			
Surrogate: 4-Bromofluorobenzene	48.6		ug/L	50.2		96.8	80-116			
LCS Dup (11K0326-BSD1) Prepared: 11/06/25 00:00 Analyzed: 11/06/25 09:33										
Carbon Disulfide	105.7	1.0	ug/L	100		106	72-162	1.97	24	
Surrogate: Dibromofluoromethane	53.6		ug/L	50.2		107	75-136			
Surrogate: 1,2-Dichloroethane-d4	47.3		ug/L	50.4		93.8	61-142			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.2	82-121			
Surrogate: 4-Bromofluorobenzene	48.2		ug/L	50.2		96.1	80-116			
Matrix Spike (11K0326-MS1) Source: 31J0165-01 Prepared: 11/06/25 00:00 Analyzed: 11/07/25 11:12										
Carbon Disulfide	857.0	10.0	ug/L	1000	ND	85.7	71-163			
Surrogate: Dibromofluoromethane	171		ug/L	502		34.1	75-136			S2

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IK0326 - EPA 5030B - EPA 8260D										
Matrix Spike (1IK0326-MS1)	Source: 3IJ0165-01			Prepared: 11/06/25 00:00 Analyzed: 11/07/25 11:12						
Surrogate: 1,2-Dichloroethane-d4	429		ug/L	504		85.2	61-142			
Surrogate: Toluene-d8	501		ug/L	505		99.3	82-121			
Surrogate: 4-Bromofluorobenzene	485		ug/L	502		96.7	80-116			
Matrix Spike Dup (1IK0326-MSD1)	Source: 3IJ0165-01			Prepared: 11/06/25 00:00 Analyzed: 11/07/25 11:35						
Carbon Disulfide	823.9	10.0	ug/L	1000	ND	82.4	71-163	3.94	22	
Surrogate: Dibromofluoromethane	176		ug/L	502		35.1	75-136			S2
Surrogate: 1,2-Dichloroethane-d4	432		ug/L	504		85.7	61-142			
Surrogate: Toluene-d8	497		ug/L	505		98.4	82-121			
Surrogate: 4-Bromofluorobenzene	480		ug/L	502		95.7	80-116			
Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1761 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1IJ1761-BLK1)	Prepared: 10/30/25 13:07 Analyzed: 10/31/25 19:50									
Antimony	<0.0010	0.0010	mg/L							B
Arsenic	<0.0020	0.0020	mg/L							
Barium	<0.0010	0.0010	mg/L							
Beryllium	<0.0005	0.0005	mg/L							
Cadmium	<0.0002	0.0002	mg/L							
Chromium	<0.0010	0.0010	mg/L							B
Cobalt	<0.0005	0.0005	mg/L							
Copper	<0.0050	0.0050	mg/L							
Lead	<0.0010	0.0010	mg/L							
Nickel	<0.0050	0.0050	mg/L							
Selenium	<0.0020	0.0020	mg/L							
Silver	<0.0050	0.0050	mg/L							
Thallium	<0.0005	0.0005	mg/L							
Vanadium	<0.0020	0.0020	mg/L							
Zinc	<0.0050	0.0050	mg/L							
LCS (1IJ1761-BS1)	Prepared: 10/30/25 13:07 Analyzed: 10/31/25 19:53									
Antimony	0.104	0.0010	mg/L	0.100		104	80-120			
Arsenic	0.0998	0.0020	mg/L	0.100		99.8	80-120			
Barium	0.100	0.0010	mg/L	0.100		100	80-120			
Beryllium	0.0979	0.0005	mg/L	0.100		97.9	80-120			
Cadmium	0.0962	0.0002	mg/L	0.100		96.2	80-120			
Chromium	0.0991	0.0010	mg/L	0.100		99.1	80-120			
Cobalt	0.104	0.0005	mg/L	0.100		104	80-120			
Copper	0.0946	0.0050	mg/L	0.100		94.6	80-120			
Lead	0.0950	0.0010	mg/L	0.100		95.0	80-120			
Nickel	0.0935	0.0050	mg/L	0.100		93.5	80-120			
Selenium	0.1023	0.0020	mg/L	0.100		102	80-120			

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Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1761 - EPA 3005A Total Recoverable Metals - EPA 6020A										
LCS (1IJ1761-BS1)			Prepared: 10/30/25 13:07 Analyzed: 10/31/25 19:53							
Silver	0.0954	0.0050	mg/L	0.100		95.4	80-120			
Thallium	0.0922	0.0005	mg/L	0.100		92.2	80-120			
Vanadium	0.105	0.0020	mg/L	0.100		105	80-120			
Zinc	0.0986	0.0050	mg/L	0.100		98.6	80-120			
Matrix Spike (1IJ1761-MS1)			Source: 1IJ2328-01	Prepared: 10/30/25 13:07 Analyzed: 10/31/25 20:16						
Antimony	0.110	0.0010	mg/L	0.100	0.0009	109	75-125			
Arsenic	0.0984	0.0020	mg/L	0.100	0.0005	97.9	75-125			
Barium	0.511	0.0010	mg/L	0.100	0.403	108	75-125			
Beryllium	0.101	0.0005	mg/L	0.100	ND	101	75-125			
Cadmium	0.100	0.0002	mg/L	0.100	0.0006	99.8	75-125			
Chromium	0.0972	0.0010	mg/L	0.100	0.0011	96.2	75-125			
Cobalt	0.101	0.0005	mg/L	0.100	0.0002	101	75-125			
Copper	0.0925	0.0050	mg/L	0.100	0.0014	92.5	75-125			
Lead	0.0950	0.0010	mg/L	0.100	ND	95.0	75-125			
Nickel	0.0955	0.0050	mg/L	0.100	0.0038	91.7	75-125			
Selenium	0.0999	0.0020	mg/L	0.100	0.0010	99.0	75-125			
Silver	0.0962	0.0050	mg/L	0.100	ND	96.2	75-125			
Thallium	0.0935	0.0005	mg/L	0.100	ND	93.5	75-125			
Vanadium	0.104	0.0020	mg/L	0.100	0.0005	103	75-125			
Zinc	0.103	0.0050	mg/L	0.100	0.0082	95.0	75-125			
Matrix Spike Dup (1IJ1761-MSD1)			Source: 1IJ2328-01	Prepared: 10/30/25 13:07 Analyzed: 10/31/25 20:18						
Antimony	0.113	0.0010	mg/L	0.100	0.0009	112	75-125	2.41	20	
Arsenic	0.101	0.0020	mg/L	0.100	0.0005	101	75-125	3.09	20	
Barium	0.563	0.0010	mg/L	0.100	0.403	160	75-125	9.80	20	M6
Beryllium	0.103	0.0005	mg/L	0.100	ND	103	75-125	1.66	20	
Cadmium	0.103	0.0002	mg/L	0.100	0.0006	102	75-125	2.51	20	
Chromium	0.102	0.0010	mg/L	0.100	0.0011	101	75-125	5.10	20	
Cobalt	0.104	0.0005	mg/L	0.100	0.0002	104	75-125	2.31	20	
Copper	0.0941	0.0050	mg/L	0.100	0.0014	94.1	75-125	1.77	20	
Lead	0.0973	0.0010	mg/L	0.100	ND	97.3	75-125	2.33	20	
Nickel	0.0970	0.0050	mg/L	0.100	0.0038	93.2	75-125	1.58	20	
Selenium	0.1039	0.0020	mg/L	0.100	0.0010	103	75-125	3.88	20	
Silver	0.101	0.0050	mg/L	0.100	ND	101	75-125	5.18	20	
Thallium	0.0963	0.0005	mg/L	0.100	ND	96.3	75-125	2.94	20	
Vanadium	0.114	0.0020	mg/L	0.100	0.0005	113	75-125	8.97	20	
Zinc	0.105	0.0050	mg/L	0.100	0.0082	96.8	75-125	1.75	20	
Post Spike (1IJ1761-PS1)			Source: 1IJ2328-01	Prepared: 10/30/25 13:07 Analyzed: 10/31/25 20:21						
Antimony	0.0223		mg/L	0.0200	0.0009	107	80-120			
Arsenic	0.0199		mg/L	0.0200	0.0005	97.2	80-120			
Barium	0.404		mg/L	0.0200	0.403	3.28	80-120			M6
Beryllium	0.0195		mg/L	0.0200	0.000001	97.7	80-120			
Cadmium	0.0199		mg/L	0.0200	0.0006	96.6	80-120			
Chromium	0.0190		mg/L	0.0200	0.0011	89.9	80-120			

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Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1761 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Post Spike (1IJ1761-PS1) Source: 1IJ2328-01 Prepared: 10/30/25 13:07 Analyzed: 10/31/25 20:21										
Cobalt	0.0181		mg/L	0.0200	0.0002	89.9	80-120			
Copper	0.0187		mg/L	0.0200	0.0014	86.7	80-120			
Lead	0.0183		mg/L	0.0200	0.00005	91.4	80-120			
Nickel	0.0212		mg/L	0.0200	0.0038	87.2	80-120			
Selenium	0.0203		mg/L	0.0200	0.0010	96.4	80-120			
Silver	0.0196		mg/L	0.0200	0.00007	97.6	80-120			
Thallium	0.0184		mg/L	0.0200	0.000003	92.1	80-120			
Vanadium	0.0188		mg/L	0.0200	0.0005	91.4	80-120			
Zinc	0.0252		mg/L	0.0200	0.0082	84.7	80-120			

Definitions

B:	The target analyte was detected in the blank at or above the method acceptance criteria.
M2:	Matrix spike recovery is below acceptance limits.
M6:	Matrix spike recovery is outside of acceptance limits. The analyte concentration is greater than 4X the spiking level.
Q3:	LCS recovery is below acceptance limits. The reported value is estimated.
RL:	Reporting Limit
RPD:	Relative Percent Difference
S2:	Surrogate recovery is below acceptance limits.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 1.3°C

Cooler Inspection Checklist

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

Report Comments

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

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
11/10/25 11:38

CHAIN OF CUSTODY RECORD



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Newton, IA 50208
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Printed: 9/16/2025 9:11:29AM

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SITE INFORMATION

Sampler: JGHProject: Audubon Co. - New Regs
6050

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Tami Anderson
Audubon County Landfill
1881 215th St
Audubon, IA 50025

LAB USE ONLY



1 I J 2 3 2 8

HLW Engineering
PM: Heather MurphyTemperature: 1.3 °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	MW-90-4	Aqueous	GRAB	10/27/25	16:43	7	Indfil-app1-metals-6020dfill-app1-voc-group	01
02-001	MW-90-7	Aqueous	GRAB	10/27/25	17:07	7	Indfil-app1-metals-6020dfill-app1-voc-group	02
03-001	MW-90-14	Aqueous	GRAB	10/27/25	16:07	7	Indfil-app1-metals-6020dfill-app1-voc-group	03
04-001	MW-90-17(b)	Aqueous	GRAB	10/27/25	15:36	7	Indfil-app1-metals-6020dfill-app1-voc-group	04
05-001	MW-91-19	Aqueous	GRAB	10/27/25	16:30	7	Indfil-app1-metals-6020dfill-app1-voc-group	05
06-001	MW-91-20	Aqueous	GRAB	10/27/25	15:52	7	Indfil-app1-metals-6020dfill-app1-voc-group	06
07-001	SW-3	Aqueous	GRAB	10/27/25	16:54	7	Indfil-app1-metals-6020dfill-app1-voc-group	07
08-001	Duplicate	Aqueous	GRAB			1	Indfil-app1-metals-6020	08

Relinquished By JGH Date/Time 10/28/25

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____

Received for Lab By Dan W. [Signature] Date/Time 10-28-25 10:34

Remarks:

APPENDIX C

Statistical Reports – Spring & Fall

Appendix C.1 – 1st Semester Statistical Report

Results of the Ground Water Statistics for Audubon County Sanitary Landfill

First Semi-Annual Monitoring Event in 2025

Prepared for:
Audubon County Solid Waste Management Commission
1881 215th Street
Audubon, Iowa

Prepared by:
Jeffrey A. Holmgren
Otter Creek Environmental Services, L.L.C.
Elgin, IL
(847) 464-1355

June 2025

INTRODUCTION

This report contains the results of the statistical analyses used to evaluate the ground water data obtained during the first semi-annual monitoring event in 2025 at Audubon County Sanitary Landfill in Audubon, Iowa. The ground water at Audubon County Sanitary Landfill is monitored by background well MW90-17 and compliance wells MW90-4, MW90-7, MW90-14, MW91-19, MW91-20, and SW-3. These monitoring wells were sampled on April 16, 2025 and analyzed for the parameters required by permit.

The statistical plan is designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. Both interwell and intrawell methodologies are described and then applied to the Audubon County Sanitary 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 Audubon County Sanitary Landfill includes upgradient well MW90-17 and compliance wells MW90-4, MW90-7, MW90-14, MW91-19, MW91-20, and SW-3. 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 below.

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

Organic Compounds:

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

Inorganic constituents:

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

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

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

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

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

Interwell Statistics: Upgradient versus Downgradient Comparisons

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

Results of the Interwell Statistics

The background data used in this statistical analysis includes the ground water data collected from ground water well MW90-17 during the period from September 2009 through the current data. A summary of the background data from monitoring well MW90-17 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 MW90-4, MW90-7, MW90-14, MW91-19, MW91-20 and SW-3, compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the most current data, the site prediction limit exceedances detected are summarized in the table below.

**Trace Metal Prediction Limit Exceedances at Audubon County Landfill
during the First Semi-Annual Monitoring Event in 2025**

Well	Trace Metal Detected	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting verification
MW90-14	Cadmium	2.5	1.1000	Nonparametric	Verified
	Nickel	10.8	7.1000	Nonparametric	Verified
MW90-4	Barium	377	370.5721	Normal	Verified
MW90-7	Arsenic	4.3	4.0000	Nonparametric	Awaiting verification
	Cobalt	1.7	0.8000	Nonparametric	Verified
	Nickel	23.1	7.1000	Nonparametric	Verified

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. Only barium was detected at a frequency greater than or equal to 50% in the upgradient well so only this metal was tested for normality. The remainder of the metals are rarely detected (less than 50%) in the upgradient wells so nonparametric prediction limits were be used in those cases.

Table 4 summarizes the results of the Shapiro-Wilk test. Table 5 is a summary of the statistics and prediction limits determined for the metals. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

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

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

The calculated 95% LCLs are below the respective USEPA MCLs or Iowa statewide standards.

Intrawell statistics

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

The most useful technique for intrawell comparisons is the combined Shewhart-CUSUM control chart. This control chart procedure is useful because it will detect releases both in terms of the constituent concentration and cumulative increases. This method is also extremely sensitive to sudden and gradual releases. A requirement for constructing these control charts is that the parameter is detected at a frequency greater than or equal to 25%, otherwise the data variance is not properly defined.

The combined Shewhart-CUSUM control chart assumes that the data are independent and normally distributed with a fixed mean and a constant variance. Independent data is much more critical than the normality assumption. To achieve independence, it is recommended that data are collected no more frequently than quarterly to account for seasonal variation. The combined Shewhart-CUSUM control chart is extremely robust to deviations from normality. Because the control charts do not use a specific multiplier based on a normal distribution, it is more conservative to assume normality.

It is recommended that at least eight rounds of data be available to provide a reliable estimate of the mean and standard deviation of the parameter concentration, although the control charts will be generated with as few as four data points. Having only four data points may produce greater uncertainty in the mean and standard deviation of the background data, leading to higher control limits, thus having a potentially high false negative rate.

Many groundwater monitoring parameters are not detected at a frequency great enough to generate the combined Shewhart-CUSUM control charts. For constituents that are detected less than 25% of the time at a particular well, the data should be plotted as a time series until a sufficient number of data points are available to provide a 99% confidence nonparametric prediction limit. Thirteen independent measurements (with 1 resample) are necessary to achieve a 99% confidence (1% false positive rate) nonparametric prediction limit. Eight independent measurements (for pass 1 of 2 resamples) are necessary to achieve a 99% confidence nonparametric prediction limit. The nonparametric prediction limit is the largest determination out of the data set collected for that well and parameter. If the detection frequency is 0% after thirteen samples have been collected, the practical quantitation limit (PQL) becomes the nonparametric prediction limit.

In developing the statistical background, the historical data must be thoroughly screened for anomalous data due to sampling error, analytical error, or simply by chance alone. An erroneous data point, if not removed prior to the mean and variance computations, would yield a larger control limit thus increasing the false negative rate. The DUMPStat[®] program screens for outliers using the Dixon test. Anomalous data will still be plotted on the graphs (with a unique symbol) but will not be included in the calculations.

The verification resample plan is an integral function of the statistical plan to reduce the probability that anomalous data obtained after the background has been established, is indicative of a landfill release.

The background data for each well and constituent is tested for existing trends using Sen's nonparametric estimate of trend. If contamination exists prior to completing the background, the control limits could be potentially high and this control chart method would not be able to detect an increasing trend unless the increase is severe.

Results of the Intrawell Statistics

The Appendix I trace metals data from wells MW90-17, MW90-4, MW90-7, MW90-14, MW91-19, MW91-20, and SW-3 were evaluated using the combined Shewhart-CUSUM control chart method. The previous background included historical data obtained from September 2009 through 2019.

As ground water monitoring at a municipal solid waste facility proceeds, it is recommended to update background data sets periodically with valid detection monitoring results that are representative of background groundwater quality not affected by leakage from a monitored unit. Failure to update background will exclude factors such as natural temporal variation, changes in field or laboratory methodologies, and changes in the water table due to meteorological conditions or other influences. Since there were no exceedances attributed to the landfill, the background was updated to included data obtained from September 2009 through 2021.

A summary of the intrawell statistics is included in Attachment D, Table 1 “Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts.” The control charts or time series graphs follow the summary table. For the most current data, the control limit exceedances detected are summarized in the table below.

Summary of Control Limit Exceedances for the First Semi-Annual Monitoring Event in 2025

Well	Parameter	Result	CUSUM Value	Control Limit	Control Limit Type	Verified or Awaiting Verification
MW91-20	Cadmium, µg/L	0.9	--	0.8000	Nonparametric	Awaiting Verification

Increasing trends were detected in the background data for barium at upgradient well MW90-17 and barium at MW91-20.

A control chart factor was selected to provide a balance of the site-wide false positive and false negative rates. A statistical power curve indicates the expected false assessments for the site as a whole. The site-wide false positive rate is 5% and the test becomes sensitive to 4 standard deviation units over background.

Volatile Organic Compounds

Volatile Organic Compounds (VOCs) are generally man-made compounds not present in ambient ground water. If VOCs are detected above their statistical limit (i.e., the laboratory PQL or reporting limit), a

verification resample will be conducted at the next scheduled sampling event. A statistical exceedance will be indicated if the VOC detection is confirmed by the subsequent monitoring.

No VOCs were detected in the samples obtained during the first semi-annual monitoring event in 2025. Historical VOC detections are summarized in Attachment E.

Attachment A

Ground Water Data obtained during the First Semi-Annual Monitoring Event in 2025

Table 1

Analytical Data Summary for 4/16/2025

Constituents	Units	MW90-14	MW90-17	MW90-4	MW90-7	MW91-19	MW91-20	SW-3
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	ug/L	<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 (edb)	ug/L	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<10	<10	<10	<10	<10	<10	<10
2-hexanone	ug/L	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<1	<1	<1	<1	<1	<1	<1
Arsenic, total	ug/L	<2.0	<2.0	<2.0	4.3	<2.0	<2.0	<2.0
Barium, total	ug/L	316	337	377	280	315	183	252
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5
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	2.5	<2	<2	.2	<2	.9	<2
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	1.4	2.8	1.0	<1.0	<1.0	1.3	<1.0
Cis-1,2-dichloroethene	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	<.5	<.5	<.5	1.7	<.5	<.5	<.5
Copper, total	ug/L	<5	<5	<5	<5	<5	<5	<5
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	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	10.8	<5.0	<5.0	23.1	<5.0	<5.0	<5.0
Selenium, total	ug/L	<2	<2	<2	<2	<2	<2	<2
Silver, total	ug/L	<5	<5	<5	<5	<5	<5	<5
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethene	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
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<2	<2	<2	<2	<2	<2	<2
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	<5	<5	<5	<5	<5	<5	<5

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW90-17	09/30/2009	ND	1.0000	2.0000	**
Antimony, total	ug/L	MW90-17	03/23/2010	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/07/2010	ND	5.0000	2.0000	**
Antimony, total	ug/L	MW90-17	04/05/2011	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/06/2011	ND	2.0000		
Antimony, total	ug/L	MW90-17	03/16/2012	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/24/2012	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/24/2013	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/20/2013	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/08/2014	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/22/2014	ND	2.0000		
Antimony, total	ug/L	MW90-17	03/20/2015	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/17/2015	ND	2.0000		
Antimony, total	ug/L	MW90-17	03/17/2016	ND	2.0000		
Antimony, total	ug/L	MW90-17	08/26/2016	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/11/2017	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/23/2017	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/10/2018	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/24/2018	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/16/2019	ND	2.0000		
Antimony, total	ug/L	MW90-17	08/29/2019	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/10/2020	ND	2.0000		
Antimony, total	ug/L	MW90-17	10/09/2020	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/09/2021	ND	2.0000		
Antimony, total	ug/L	MW90-17	10/11/2021	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/07/2022	ND	2.0000		
Antimony, total	ug/L	MW90-17	10/06/2022	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/05/2023	ND	2.0000		
Antimony, total	ug/L	MW90-17	10/13/2023	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/18/2024	ND	2.0000		
Antimony, total	ug/L	MW90-17	10/15/2024	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/16/2025	ND	1.0000	2.0000	**
Arsenic, total	ug/L	MW90-17	09/30/2009	ND	4.0000		
Arsenic, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/07/2010	ND	10.0000	4.0000	**
Arsenic, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Arsenic, total	ug/L	MW90-17	03/16/2012	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/24/2012	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Arsenic, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Arsenic, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Arsenic, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Arsenic, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Arsenic, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Arsenic, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Arsenic, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Arsenic, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Arsenic, total	ug/L	MW90-17	10/15/2024	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/16/2025	ND	2.0000	4.0000	**
Barium, total	ug/L	MW90-17	09/30/2009		199.0000		
Barium, total	ug/L	MW90-17	03/23/2010		171.0000		
Barium, total	ug/L	MW90-17	09/07/2010		169.0000		
Barium, total	ug/L	MW90-17	04/05/2011		215.0000		
Barium, total	ug/L	MW90-17	09/06/2011		207.0000		
Barium, total	ug/L	MW90-17	03/16/2012		196.0000		
Barium, total	ug/L	MW90-17	09/24/2012		185.0000		
Barium, total	ug/L	MW90-17	04/24/2013		183.0000		
Barium, total	ug/L	MW90-17	09/20/2013		351.0000		
Barium, total	ug/L	MW90-17	04/08/2014		261.0000		

* - 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	MW90-17	09/22/2014		212.0000		
Barium, total	ug/L	MW90-17	03/20/2015		257.0000		
Barium, total	ug/L	MW90-17	09/17/2015		234.0000		
Barium, total	ug/L	MW90-17	03/17/2016		246.0000		
Barium, total	ug/L	MW90-17	08/26/2016		266.0000		
Barium, total	ug/L	MW90-17	04/11/2017		234.0000		
Barium, total	ug/L	MW90-17	09/23/2017		275.0000		
Barium, total	ug/L	MW90-17	04/10/2018		242.0000		
Barium, total	ug/L	MW90-17	09/24/2018		259.0000		
Barium, total	ug/L	MW90-17	04/16/2019		242.0000		
Barium, total	ug/L	MW90-17	08/29/2019		281.0000		
Barium, total	ug/L	MW90-17	04/10/2020		274.0000		
Barium, total	ug/L	MW90-17	10/09/2020		281.0000		
Barium, total	ug/L	MW90-17	04/09/2021		265.0000		
Barium, total	ug/L	MW90-17	10/11/2021		251.0000		
Barium, total	ug/L	MW90-17	04/07/2022		299.0000		
Barium, total	ug/L	MW90-17	10/06/2022		288.0000		
Barium, total	ug/L	MW90-17	04/05/2023		307.0000		
Barium, total	ug/L	MW90-17	10/13/2023		314.0000		
Barium, total	ug/L	MW90-17	04/18/2024		310.0000		
Barium, total	ug/L	MW90-17	10/15/2024		280.0000		
Barium, total	ug/L	MW90-17	04/16/2025		337.0000		
Beryllium, total	ug/L	MW90-17	09/30/2009	ND	4.0000	4.0000	**
Beryllium, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/07/2010	ND	10.0000		
Beryllium, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Beryllium, total	ug/L	MW90-17	03/16/2012	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/24/2012	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Beryllium, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Beryllium, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Beryllium, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Beryllium, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Beryllium, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Beryllium, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Beryllium, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Beryllium, total	ug/L	MW90-17	10/15/2024	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/16/2025	ND	0.5000		*
Cadmium, total	ug/L	MW90-17	09/30/2009	ND	1.0000	0.8000	**
Cadmium, total	ug/L	MW90-17	03/23/2010	ND	1.0000	0.8000	**
Cadmium, total	ug/L	MW90-17	09/07/2010	ND	2.5000		*
Cadmium, total	ug/L	MW90-17	04/05/2011	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/06/2011	ND	0.8000		
Cadmium, total	ug/L	MW90-17	03/16/2012	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/24/2012	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/24/2013	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/20/2013	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/08/2014	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/22/2014	ND	0.8000		
Cadmium, total	ug/L	MW90-17	03/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/17/2015	ND	0.8000		
Cadmium, total	ug/L	MW90-17	03/17/2016	ND	0.8000		
Cadmium, total	ug/L	MW90-17	08/26/2016	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/11/2017	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/23/2017	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/10/2018	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/24/2018		1.1000		
Cadmium, total	ug/L	MW90-17	11/01/2018	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	MW90-17	04/16/2019	ND	0.8000		
Cadmium, total	ug/L	MW90-17	08/29/2019	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/10/2020	ND	0.8000		
Cadmium, total	ug/L	MW90-17	10/09/2020	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW90-17	10/11/2021	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/07/2022	ND	0.8000		
Cadmium, total	ug/L	MW90-17	10/06/2022	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/05/2023	ND	0.8000		
Cadmium, total	ug/L	MW90-17	10/13/2023	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/18/2024	ND	0.8000		
Cadmium, total	ug/L	MW90-17	10/15/2024	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/16/2025	ND	0.2000		*
Chromium, total	ug/L	MW90-17	09/30/2009	ND	10.0000	8.0000	**
Chromium, total	ug/L	MW90-17	03/23/2010	ND	10.0000	8.0000	**
Chromium, total	ug/L	MW90-17	09/07/2010	ND	25.0000		*
Chromium, total	ug/L	MW90-17	04/05/2011	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/06/2011	ND	20.0000	8.0000	**
Chromium, total	ug/L	MW90-17	03/16/2012	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/24/2012	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/24/2013	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/20/2013	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/08/2014	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/22/2014	ND	8.0000		
Chromium, total	ug/L	MW90-17	03/20/2015	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/17/2015	ND	8.0000		
Chromium, total	ug/L	MW90-17	03/17/2016	ND	8.0000		
Chromium, total	ug/L	MW90-17	08/26/2016	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/11/2017	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/23/2017	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/10/2018	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/16/2019	ND	8.0000		
Chromium, total	ug/L	MW90-17	08/29/2019	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/10/2020	ND	8.0000		
Chromium, total	ug/L	MW90-17	10/09/2020	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/09/2021	ND	8.0000		
Chromium, total	ug/L	MW90-17	10/11/2021	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/07/2022	ND	8.0000		
Chromium, total	ug/L	MW90-17	10/06/2022	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/05/2023	ND	8.0000		
Chromium, total	ug/L	MW90-17	10/13/2023	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/18/2024	ND	8.0000		
Chromium, total	ug/L	MW90-17	10/15/2024	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/16/2025	ND	2.8000		
Cobalt, total	ug/L	MW90-17	09/30/2009	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	03/23/2010	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	09/07/2010	ND	10.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/05/2011	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	09/06/2011	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	03/16/2012	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	09/24/2012	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/24/2013	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	09/20/2013	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/08/2014	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	09/22/2014	ND	0.8000		
Cobalt, total	ug/L	MW90-17	03/20/2015	ND	0.8000		
Cobalt, total	ug/L	MW90-17	09/17/2015	ND	0.8000		
Cobalt, total	ug/L	MW90-17	03/17/2016	ND	0.8000		
Cobalt, total	ug/L	MW90-17	08/26/2016	ND	0.8000		
Cobalt, total	ug/L	MW90-17	04/11/2017	ND	0.8000		
Cobalt, total	ug/L	MW90-17	09/23/2017	ND	0.8000		
Cobalt, total	ug/L	MW90-17	04/10/2018	ND	0.8000		
Cobalt, total	ug/L	MW90-17	09/24/2018	ND	0.8000		
Cobalt, total	ug/L	MW90-17	04/16/2019	ND	0.8000		
Cobalt, total	ug/L	MW90-17	08/29/2019	ND	0.8000		
Cobalt, total	ug/L	MW90-17	04/10/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	10/09/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/09/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	10/11/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/07/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	10/06/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/05/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	10/13/2023	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	
Cobalt, total	ug/L	MW90-17	04/18/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	10/15/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/16/2025	ND	0.5000	0.8000	**
Copper, total	ug/L	MW90-17	09/30/2009	ND	4.0000	4.0000	**
Copper, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Copper, total	ug/L	MW90-17	09/07/2010	ND	10.0000		
Copper, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Copper, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Copper, total	ug/L	MW90-17	03/16/2012	ND	4.0000		
Copper, total	ug/L	MW90-17	09/24/2012	ND	4.0000		
Copper, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Copper, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Copper, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Copper, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Copper, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Copper, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Copper, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Copper, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Copper, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Copper, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Copper, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Copper, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Copper, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Copper, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Copper, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Copper, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Copper, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Copper, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Copper, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Copper, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Copper, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Copper, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Copper, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Copper, total	ug/L	MW90-17	10/15/2024	ND	4.0000	4.0000	**
Copper, total	ug/L	MW90-17	04/16/2025	ND	5.0000		
Lead, total	ug/L	MW90-17	09/30/2009	ND	4.0000	4.0000	**
Lead, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Lead, total	ug/L	MW90-17	09/07/2010	ND	10.0000		
Lead, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Lead, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Lead, total	ug/L	MW90-17	03/16/2012	ND	4.0000		
Lead, total	ug/L	MW90-17	09/24/2012	ND	4.0000		
Lead, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Lead, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Lead, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Lead, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Lead, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Lead, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Lead, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Lead, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Lead, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Lead, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Lead, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Lead, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Lead, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Lead, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Lead, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Lead, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Lead, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Lead, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Lead, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Lead, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Lead, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Lead, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Lead, total	ug/L	MW90-17	10/15/2024	ND	4.0000	1.0000	*
Lead, total	ug/L	MW90-17	04/16/2025	ND	1.0000		
Nickel, total	ug/L	MW90-17	09/30/2009	ND	4.0000	4.0000	**
Nickel, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/07/2010	ND	10.0000		
Nickel, total	ug/L	MW90-17	04/05/2011		7.1000		
Nickel, total	ug/L	MW90-17	09/06/2011		4.8000		
Nickel, total	ug/L	MW90-17	03/16/2012		4.8000		
Nickel, total	ug/L	MW90-17	09/24/2012		5.3000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Nickel, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Nickel, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Nickel, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Nickel, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Nickel, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Nickel, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Nickel, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Nickel, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Nickel, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Nickel, total	ug/L	MW90-17	10/15/2024	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/16/2025	ND	5.0000	4.0000	**
Selenium, total	ug/L	MW90-17	09/30/2009	ND	4.0000		
Selenium, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/07/2010	ND	10.0000	4.0000	**
Selenium, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Selenium, total	ug/L	MW90-17	03/16/2012	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/24/2012	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Selenium, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Selenium, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Selenium, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Selenium, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Selenium, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Selenium, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Selenium, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Selenium, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Selenium, total	ug/L	MW90-17	10/15/2024	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/16/2025	ND	2.0000	4.0000	**
Silver, total	ug/L	MW90-17	09/30/2009	ND	4.0000		
Silver, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Silver, total	ug/L	MW90-17	09/07/2010	ND	10.0000	4.0000	**
Silver, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Silver, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Silver, total	ug/L	MW90-17	03/16/2012	ND	4.0000		
Silver, total	ug/L	MW90-17	09/24/2012	ND	4.0000		
Silver, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Silver, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Silver, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Silver, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Silver, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Silver, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Silver, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Silver, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Silver, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Silver, total	ug/L	MW90-17	09/23/2017	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Silver, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Silver, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Silver, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Silver, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Silver, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Silver, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Silver, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Silver, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Silver, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Silver, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Silver, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Silver, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Silver, total	ug/L	MW90-17	10/15/2024	ND	4.0000		
Silver, total	ug/L	MW90-17	04/16/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW90-17	09/30/2009	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	03/23/2010	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/07/2010	ND	10.0000		*
Thallium, total	ug/L	MW90-17	04/05/2011	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/06/2011	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	03/16/2012	ND	2.0000		
Thallium, total	ug/L	MW90-17	09/24/2012	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/24/2013	ND	2.0000		
Thallium, total	ug/L	MW90-17	09/20/2013	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	04/08/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/22/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	03/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/17/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	03/17/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	08/26/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	04/11/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/23/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	04/10/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	04/16/2019	ND	2.0000		
Thallium, total	ug/L	MW90-17	08/29/2019	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/10/2020	ND	2.0000		
Thallium, total	ug/L	MW90-17	10/09/2020	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/09/2021	ND	2.0000		
Thallium, total	ug/L	MW90-17	10/11/2021	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/07/2022	ND	2.0000		
Thallium, total	ug/L	MW90-17	10/06/2022	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/05/2023	ND	2.0000		
Thallium, total	ug/L	MW90-17	10/13/2023	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/18/2024	ND	2.0000		
Thallium, total	ug/L	MW90-17	10/15/2024	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/16/2025	ND	0.5000		*
Vanadium, total	ug/L	MW90-17	09/30/2009	ND	10.0000	20.0000	**
Vanadium, total	ug/L	MW90-17	03/23/2010	ND	10.0000	20.0000	**
Vanadium, total	ug/L	MW90-17	09/07/2010	ND	25.0000	20.0000	**
Vanadium, total	ug/L	MW90-17	04/05/2011		20.1000		
Vanadium, total	ug/L	MW90-17	09/06/2011	ND	20.0000		
Vanadium, total	ug/L	MW90-17	03/16/2012	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/24/2012	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/24/2013	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/20/2013	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/08/2014	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/22/2014	ND	20.0000		
Vanadium, total	ug/L	MW90-17	03/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/17/2015	ND	20.0000		
Vanadium, total	ug/L	MW90-17	03/17/2016	ND	20.0000		
Vanadium, total	ug/L	MW90-17	08/26/2016	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/11/2017	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/23/2017	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/10/2018	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/16/2019	ND	20.0000		
Vanadium, total	ug/L	MW90-17	08/29/2019	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/10/2020	ND	20.0000		
Vanadium, total	ug/L	MW90-17	10/09/2020	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/09/2021	ND	20.0000		
Vanadium, total	ug/L	MW90-17	10/11/2021	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/07/2022	ND	20.0000		
Vanadium, total	ug/L	MW90-17	10/06/2022	ND	20.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium, total	ug/L	MW90-17	04/05/2023	ND	20.0000		
Vanadium, total	ug/L	MW90-17	10/13/2023	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/18/2024	ND	20.0000		
Vanadium, total	ug/L	MW90-17	10/15/2024	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/16/2025	ND	2.0000		*
Zinc, total	ug/L	MW90-17	09/30/2009	ND	10.0000	8.0000	**
Zinc, total	ug/L	MW90-17	03/23/2010		10.5000		
Zinc, total	ug/L	MW90-17	09/07/2010	ND	25.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/05/2011	ND	8.0000		
Zinc, total	ug/L	MW90-17	09/06/2011	ND	8.0000		
Zinc, total	ug/L	MW90-17	03/16/2012	ND	8.0000		
Zinc, total	ug/L	MW90-17	09/24/2012	ND	8.0000		
Zinc, total	ug/L	MW90-17	04/24/2013	ND	8.0000		
Zinc, total	ug/L	MW90-17	09/20/2013	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/08/2014	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	09/22/2014	ND	8.0000		
Zinc, total	ug/L	MW90-17	03/20/2015	ND	8.0000		
Zinc, total	ug/L	MW90-17	09/17/2015	ND	8.0000		
Zinc, total	ug/L	MW90-17	03/17/2016	ND	8.0000		
Zinc, total	ug/L	MW90-17	08/26/2016		8.3000		
Zinc, total	ug/L	MW90-17	04/11/2017	ND	8.0000		
Zinc, total	ug/L	MW90-17	09/23/2017	ND	8.0000		
Zinc, total	ug/L	MW90-17	04/10/2018	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	09/24/2018	ND	8.0000		
Zinc, total	ug/L	MW90-17	04/16/2019	ND	8.0000		
Zinc, total	ug/L	MW90-17	08/29/2019		37.8000		*
Zinc, total	ug/L	MW90-17	09/23/2019	ND	8.0000		
Zinc, total	ug/L	MW90-17	04/10/2020	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	10/09/2020	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/09/2021	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	10/11/2021	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/07/2022	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	10/06/2022	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/05/2023	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	10/13/2023	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/18/2024	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	10/15/2024	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/16/2025	ND	5.0000	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 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, total	ug/L	MW90-14	04/16/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW90-14	04/16/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW90-14	04/16/2025		316.0000		370.5721
Beryllium, total	ug/L	MW90-14	04/16/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW90-14	04/16/2025		2.5000	***	1.1000
Chromium, total	ug/L	MW90-14	04/16/2025		1.4000		8.0000
Cobalt, total	ug/L	MW90-14	04/16/2025	ND	0.5000		0.8000
Copper, total	ug/L	MW90-14	04/16/2025	ND	5.0000		4.0000
Lead, total	ug/L	MW90-14	04/16/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW90-14	04/16/2025		10.8000	***	7.1000
Selenium, total	ug/L	MW90-14	04/16/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW90-14	04/16/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW90-14	04/16/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW90-14	04/16/2025	ND	2.0000		20.1000
Zinc, total	ug/L	MW90-14	04/16/2025	ND	5.0000		10.5000
Antimony, total	ug/L	MW90-4	04/16/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW90-4	04/16/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW90-4	04/16/2025		377.0000	***	370.5721
Beryllium, total	ug/L	MW90-4	04/16/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW90-4	04/16/2025	ND	0.2000	**	1.1000
Chromium, total	ug/L	MW90-4	04/16/2025		1.0000		8.0000
Cobalt, total	ug/L	MW90-4	04/16/2025	ND	0.5000		0.8000
Copper, total	ug/L	MW90-4	04/16/2025	ND	5.0000		4.0000
Lead, total	ug/L	MW90-4	04/16/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW90-4	04/16/2025	ND	5.0000		7.1000
Selenium, total	ug/L	MW90-4	04/16/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW90-4	04/16/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW90-4	04/16/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW90-4	04/16/2025	ND	2.0000		20.1000
Zinc, total	ug/L	MW90-4	04/16/2025	ND	5.0000		10.5000
Antimony, total	ug/L	MW90-7	04/16/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW90-7	04/16/2025		4.3000	*	4.0000
Barium, total	ug/L	MW90-7	04/16/2025		280.0000		370.5721
Beryllium, total	ug/L	MW90-7	04/16/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW90-7	04/16/2025		0.2000		1.1000
Chromium, total	ug/L	MW90-7	04/16/2025	ND	1.0000		8.0000
Cobalt, total	ug/L	MW90-7	04/16/2025		1.7000	***	0.8000
Copper, total	ug/L	MW90-7	04/16/2025	ND	5.0000		4.0000
Lead, total	ug/L	MW90-7	04/16/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW90-7	04/16/2025		23.1000	***	7.1000
Selenium, total	ug/L	MW90-7	04/16/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW90-7	04/16/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW90-7	04/16/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW90-7	04/16/2025	ND	2.0000		20.1000
Zinc, total	ug/L	MW90-7	04/16/2025	ND	5.0000		10.5000
Antimony, total	ug/L	MW91-19	04/16/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW91-19	04/16/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW91-19	04/16/2025		315.0000		370.5721
Beryllium, total	ug/L	MW91-19	04/16/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW91-19	04/16/2025	ND	0.2000		1.1000
Chromium, total	ug/L	MW91-19	04/16/2025	ND	1.0000		8.0000
Cobalt, total	ug/L	MW91-19	04/16/2025	ND	0.5000		0.8000
Copper, total	ug/L	MW91-19	04/16/2025	ND	5.0000		4.0000
Lead, total	ug/L	MW91-19	04/16/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW91-19	04/16/2025	ND	5.0000		7.1000
Selenium, total	ug/L	MW91-19	04/16/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW91-19	04/16/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW91-19	04/16/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW91-19	04/16/2025	ND	2.0000		20.1000
Zinc, total	ug/L	MW91-19	04/16/2025	ND	5.0000		10.5000
Antimony, total	ug/L	MW91-20	04/16/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW91-20	04/16/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW91-20	04/16/2025		183.0000		370.5721
Beryllium, total	ug/L	MW91-20	04/16/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW91-20	04/16/2025		0.9000		1.1000
Chromium, total	ug/L	MW91-20	04/16/2025		1.3000		8.0000
Cobalt, total	ug/L	MW91-20	04/16/2025	ND	0.5000		0.8000
Copper, total	ug/L	MW91-20	04/16/2025	ND	5.0000		4.0000
Lead, total	ug/L	MW91-20	04/16/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW91-20	04/16/2025	ND	5.0000		7.1000
Selenium, total	ug/L	MW91-20	04/16/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW91-20	04/16/2025	ND	5.0000		4.0000

* - Current value failed - awaiting verification.

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

*** - Current value failed - exceedance verified.

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

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

ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Thallium, total	ug/L	MW91-20	04/16/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW91-20	04/16/2025	ND	2.0000		20.1000
Zinc, total	ug/L	MW91-20	04/16/2025	ND	5.0000		10.5000
Antimony, total	ug/L	SW-3	04/16/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	SW-3	04/16/2025	ND	2.0000		4.0000
Barium, total	ug/L	SW-3	04/16/2025		252.0000		370.5721
Beryllium, total	ug/L	SW-3	04/16/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	SW-3	04/16/2025	ND	0.2000		1.1000
Chromium, total	ug/L	SW-3	04/16/2025	ND	1.0000		8.0000
Cobalt, total	ug/L	SW-3	04/16/2025	ND	0.5000		0.8000
Copper, total	ug/L	SW-3	04/16/2025	ND	5.0000		4.0000
Lead, total	ug/L	SW-3	04/16/2025	ND	1.0000		4.0000
Nickel, total	ug/L	SW-3	04/16/2025	ND	5.0000		7.1000
Selenium, total	ug/L	SW-3	04/16/2025	ND	2.0000		4.0000
Silver, total	ug/L	SW-3	04/16/2025	ND	5.0000		4.0000
Thallium, total	ug/L	SW-3	04/16/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	SW-3	04/16/2025	ND	2.0000		20.1000
Zinc, total	ug/L	SW-3	04/16/2025	ND	5.0000		10.5000

* - 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	32	0.000	0	211	0.000
Arsenic, total	0	32	0.000	26	211	0.123
Barium, total	32	32	1.000	218	218	1.000
Beryllium, total	0	31	0.000	1	211	0.005
Cadmium, total	1	31	0.032	37	215	0.172
Chromium, total	1	31	0.032	4	211	0.019
Cobalt, total	0	32	0.000	49	213	0.230
Copper, total	0	32	0.000	18	211	0.085
Lead, total	0	31	0.000	6	211	0.028
Nickel, total	4	32	0.125	120	212	0.566
Selenium, total	0	32	0.000	15	211	0.071
Silver, total	0	32	0.000	0	211	0.000
Thallium, total	0	30	0.000	0	211	0.000
Vanadium, total	1	31	0.032	9	211	0.043
Zinc, total	2	32	0.063	44	211	0.209

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	32	0.000	0.533	0.336					2.326	normal	nonpar
Arsenic, total	0	32	0.000									nonpar
Barium, total	32	32	1.000									normal
Beryllium, total	0	31	0.000									nonpar
Cadmium, total	1	31	0.032									nonpar
Chromium, total	1	31	0.032	1.529	1.344					2.326	normal	nonpar
Cobalt, total	0	32	0.000									nonpar
Copper, total	0	32	0.000									nonpar
Lead, total	0	31	0.000									nonpar
Nickel, total	4	32	0.125									nonpar
Selenium, total	0	32	0.000									nonpar
Silver, total	0	32	0.000									nonpar
Thallium, total	0	30	0.000									nonpar
Vanadium, total	1	31	0.032									nonpar
Zinc, total	2	32	0.063									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	32	252.8438	47.2687	0.0100	2.4906	2.0000	nonpar	***	0.99
Arsenic, total	ug/L	0	32					4.0000	nonpar	***	0.99
Barium, total	ug/L	32	32					370.5721	normal		
Beryllium, total	ug/L	0	31					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	1	31					1.1000	nonpar		0.99
Chromium, total	ug/L	1	31					8.0000	nonpar	***	0.99
Cobalt, total	ug/L	0	32					0.8000	nonpar	***	0.99
Copper, total	ug/L	0	32					4.0000	nonpar	***	0.99
Lead, total	ug/L	0	31					4.0000	nonpar	***	0.99
Nickel, total	ug/L	4	32					7.1000	nonpar		0.99
Selenium, total	ug/L	0	32					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	32					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	30					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	1	31					20.1000	nonpar		0.99
Zinc, total	ug/L	2	32					10.5000	nonpar		0.99

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

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

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

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

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

Table 6

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

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Beryllium, total	ug/L	MW90-17	04/16/2025	0.5000	< 0.5000	09/30/2009-04/16/2025	32	0.4448
Cadmium, total	ug/L	MW90-17	09/07/2010	2.5000	< 2.5000	09/30/2009-04/16/2025	33	0.4405
Cadmium, total	ug/L	MW90-17	04/16/2025	0.2000	< 0.2000	09/30/2009-04/16/2025	33	0.4405
Chromium, total	ug/L	MW90-17	09/07/2010	25.0000	< 25.0000	09/30/2009-04/16/2025	32	0.4448
Lead, total	ug/L	MW90-17	04/16/2025	1.0000	< 1.0000	09/30/2009-04/16/2025	32	0.4448
Thallium, total	ug/L	MW90-17	09/07/2010	10.0000	< 10.0000	09/30/2009-04/16/2025	32	0.4448
Thallium, total	ug/L	MW90-17	04/16/2025	0.5000	< 0.5000	09/30/2009-04/16/2025	32	0.4448
Vanadium, total	ug/L	MW90-17	04/16/2025	2.0000	< 2.0000	09/30/2009-04/16/2025	32	0.4448

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

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

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

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Cadmium, total	ug/L	MW90-14	06/09/2008		1.8300 *	1.1000
Cadmium, total	ug/L	MW90-14	10/16/2008		1.4500 *	1.1000
Cadmium, total	ug/L	MW90-14	03/05/2009		2.8400 *	1.1000
Cadmium, total	ug/L	MW90-14	09/30/2009		3.8000 *	1.1000
Cadmium, total	ug/L	MW90-14	03/23/2010		1.3000 *	1.1000
Cadmium, total	ug/L	MW90-14	09/07/2010		1.0000	1.1000
Cadmium, total	ug/L	MW90-14	04/05/2011		0.9000	1.1000
Cadmium, total	ug/L	MW90-14	09/06/2011		1.2000 *	1.1000
Cadmium, total	ug/L	MW90-14	03/16/2012		11.7000 *	1.1000
Cadmium, total	ug/L	MW90-14	09/24/2012		35.4000 *	1.1000
Cadmium, total	ug/L	MW90-14	04/24/2013		2.8000 *	1.1000
Cadmium, total	ug/L	MW90-14	09/20/2013		10.3000 *	1.1000
Cadmium, total	ug/L	MW90-14	10/28/2013	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/08/2014		25.6000 *	1.1000
Cadmium, total	ug/L	MW90-14	09/22/2014		0.9000	1.1000
Cadmium, total	ug/L	MW90-14	03/20/2015	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	09/17/2015		1.8000 *	1.1000
Cadmium, total	ug/L	MW90-14	03/17/2016	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	08/26/2016	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/11/2017		1.3000 *	1.1000
Cadmium, total	ug/L	MW90-14	09/23/2017	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/10/2018	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	09/24/2018	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/16/2019	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	08/29/2019		0.9000	1.1000
Cadmium, total	ug/L	MW90-14	04/10/2020		1.7000 *	1.1000
Cadmium, total	ug/L	MW90-14	10/09/2020		1.2000 *	1.1000
Cadmium, total	ug/L	MW90-14	04/09/2021		1.0000	1.1000
Cadmium, total	ug/L	MW90-14	10/11/2021	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/07/2022		0.8000	1.1000
Cadmium, total	ug/L	MW90-14	10/06/2022	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/05/2023	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	10/13/2023	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/18/2024	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	10/15/2024		1.3000 *	1.1000
Cadmium, total	ug/L	MW90-14	04/16/2025		2.5000 *	1.1000
Nickel, total	ug/L	MW90-14	06/09/2008	ND	69.7000 *	7.1000
Nickel, total	ug/L	MW90-14	10/16/2008		65.3000 *	7.1000
Nickel, total	ug/L	MW90-14	03/05/2009		50.0000	7.1000
Nickel, total	ug/L	MW90-14	09/30/2009		59.1000 *	7.1000
Nickel, total	ug/L	MW90-14	03/23/2010		31.5000 *	7.1000
Nickel, total	ug/L	MW90-14	09/07/2010		45.2000 *	7.1000
Nickel, total	ug/L	MW90-14	04/05/2011		45.5000 *	7.1000
Nickel, total	ug/L	MW90-14	09/06/2011		33.9000 *	7.1000
Nickel, total	ug/L	MW90-14	03/16/2012		36.6000 *	7.1000
Nickel, total	ug/L	MW90-14	09/24/2012		26.4000 *	7.1000
Nickel, total	ug/L	MW90-14	04/24/2013		24.1000 *	7.1000
Nickel, total	ug/L	MW90-14	09/20/2013		60.2000 *	7.1000
Nickel, total	ug/L	MW90-14	10/28/2013		13.9000 *	7.1000
Nickel, total	ug/L	MW90-14	04/08/2014		31.1000 *	7.1000
Nickel, total	ug/L	MW90-14	09/22/2014		34.0000 *	7.1000
Nickel, total	ug/L	MW90-14	03/20/2015		18.3000 *	7.1000
Nickel, total	ug/L	MW90-14	09/17/2015		20.8000 *	7.1000
Nickel, total	ug/L	MW90-14	03/17/2016		36.1000 *	7.1000
Nickel, total	ug/L	MW90-14	08/26/2016		21.3000 *	7.1000
Nickel, total	ug/L	MW90-14	04/11/2017		31.9000 *	7.1000
Nickel, total	ug/L	MW90-14	09/23/2017		30.9000 *	7.1000
Nickel, total	ug/L	MW90-14	04/10/2018		20.1000 *	7.1000
Nickel, total	ug/L	MW90-14	09/24/2018		35.0000 *	7.1000
Nickel, total	ug/L	MW90-14	04/16/2019		12.2000 *	7.1000
Nickel, total	ug/L	MW90-14	08/29/2019		33.1000 *	7.1000
Nickel, total	ug/L	MW90-14	04/10/2020		41.7000 *	7.1000
Nickel, total	ug/L	MW90-14	10/09/2020		59.0000 *	7.1000
Nickel, total	ug/L	MW90-14	04/09/2021		31.1000 *	7.1000
Nickel, total	ug/L	MW90-14	10/11/2021		33.4000 *	7.1000
Nickel, total	ug/L	MW90-14	04/07/2022		20.2000 *	7.1000
Nickel, total	ug/L	MW90-14	10/06/2022		27.8000 *	7.1000
Nickel, total	ug/L	MW90-14	04/05/2023		6.3000	7.1000
Nickel, total	ug/L	MW90-14	10/13/2023		36.5000 *	7.1000
Nickel, total	ug/L	MW90-14	04/18/2024		13.1000 *	7.1000
Nickel, total	ug/L	MW90-14	10/15/2024		12.9000 *	7.1000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Nickel, total	ug/L	MW90-14	04/16/2025		10.8000 *	7.1000
Barium, total	ug/L	MW90-4	06/09/2008		336.0000	370.5721
Barium, total	ug/L	MW90-4	10/16/2008		469.0000 *	370.5721
Barium, total	ug/L	MW90-4	03/05/2009		444.0000 *	370.5721
Barium, total	ug/L	MW90-4	09/30/2009		512.0000 *	370.5721
Barium, total	ug/L	MW90-4	03/23/2010		315.0000	370.5721
Barium, total	ug/L	MW90-4	09/07/2010		420.0000 *	370.5721
Barium, total	ug/L	MW90-4	04/05/2011		427.0000 *	370.5721
Barium, total	ug/L	MW90-4	09/06/2011		499.0000 *	370.5721
Barium, total	ug/L	MW90-4	03/16/2012		399.0000 *	370.5721
Barium, total	ug/L	MW90-4	09/24/2012		322.0000	370.5721
Barium, total	ug/L	MW90-4	04/24/2013		233.0000	370.5721
Barium, total	ug/L	MW90-4	09/20/2013		679.0000 *	370.5721
Barium, total	ug/L	MW90-4	10/28/2013		329.0000	370.5721
Barium, total	ug/L	MW90-4	04/08/2014		379.0000 *	370.5721
Barium, total	ug/L	MW90-4	09/22/2014		383.0000 *	370.5721
Barium, total	ug/L	MW90-4	03/20/2015		434.0000 *	370.5721
Barium, total	ug/L	MW90-4	09/17/2015		437.0000 *	370.5721
Barium, total	ug/L	MW90-4	03/17/2016		381.0000 *	370.5721
Barium, total	ug/L	MW90-4	08/26/2016		381.0000 *	370.5721
Barium, total	ug/L	MW90-4	04/11/2017		332.0000	370.5721
Barium, total	ug/L	MW90-4	09/23/2017		362.0000	370.5721
Barium, total	ug/L	MW90-4	11/15/2017		339.0000	370.5721
Barium, total	ug/L	MW90-4	04/10/2018		340.0000	370.5721
Barium, total	ug/L	MW90-4	09/24/2018		306.0000	370.5721
Barium, total	ug/L	MW90-4	04/16/2019		361.0000	370.5721
Barium, total	ug/L	MW90-4	06/25/2019		433.0000 *	370.5721
Barium, total	ug/L	MW90-4	08/29/2019		359.0000	370.5721
Barium, total	ug/L	MW90-4	04/10/2020		377.0000 *	370.5721
Barium, total	ug/L	MW90-4	10/09/2020		385.0000 *	370.5721
Barium, total	ug/L	MW90-4	04/09/2021		298.0000	370.5721
Barium, total	ug/L	MW90-4	10/11/2021		377.0000 *	370.5721
Barium, total	ug/L	MW90-4	04/07/2022		348.0000	370.5721
Barium, total	ug/L	MW90-4	10/06/2022		351.0000	370.5721
Barium, total	ug/L	MW90-4	04/05/2023		320.0000	370.5721
Barium, total	ug/L	MW90-4	10/13/2023		342.0000	370.5721
Barium, total	ug/L	MW90-4	04/18/2024		375.0000 *	370.5721
Barium, total	ug/L	MW90-4	10/15/2024		381.0000 *	370.5721
Barium, total	ug/L	MW90-4	04/16/2025		377.0000 *	370.5721
Cadmium, total	ug/L	MW90-4	06/09/2008	ND	0.5000	1.1000
Cadmium, total	ug/L	MW90-4	10/16/2008	ND	0.5000	1.1000
Cadmium, total	ug/L	MW90-4	03/05/2009	ND	0.5000	1.1000
Cadmium, total	ug/L	MW90-4	09/30/2009	ND	1.0000	1.1000
Cadmium, total	ug/L	MW90-4	03/23/2010	ND	1.0000	1.1000
Cadmium, total	ug/L	MW90-4	09/07/2010	ND	1.0000	1.1000
Cadmium, total	ug/L	MW90-4	04/05/2011	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	09/06/2011	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	03/16/2012	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	09/24/2012	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	04/24/2013	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	09/20/2013	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	10/28/2013	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	04/08/2014	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	09/22/2014	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	03/20/2015	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	09/17/2015		1.2000 *	1.1000
Cadmium, total	ug/L	MW90-4	03/17/2016	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	08/26/2016	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	04/11/2017	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	09/23/2017	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	04/10/2018	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	09/24/2018	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	04/16/2019	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	08/29/2019	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	04/10/2020	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	10/09/2020	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	04/09/2021		0.8000	1.1000
Cadmium, total	ug/L	MW90-4	10/11/2021	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	04/07/2022	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	10/06/2022		3.1000 *	1.1000
Cadmium, total	ug/L	MW90-4	01/04/2023	ND	0.8000	1.1000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Cadmium, total	ug/L	MW90-4	04/05/2023	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	10/13/2023	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	04/18/2024	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-4	10/15/2024		1.3000 *	1.1000
Cadmium, total	ug/L	MW90-4	04/16/2025	ND	0.2000	1.1000
Arsenic, total	ug/L	MW90-7	09/07/2007		6.5100 *	4.0000
Arsenic, total	ug/L	MW90-7	06/09/2008		2.9600	4.0000
Arsenic, total	ug/L	MW90-7	10/16/2008		15.6000 *	4.0000
Arsenic, total	ug/L	MW90-7	03/05/2009		7.8900 *	4.0000
Arsenic, total	ug/L	MW90-7	09/30/2009	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	03/23/2010	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	09/07/2010	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/05/2011		7.1000 *	4.0000
Arsenic, total	ug/L	MW90-7	09/06/2011	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	03/16/2012		5.3000 *	4.0000
Arsenic, total	ug/L	MW90-7	09/24/2012	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/24/2013		6.2000 *	4.0000
Arsenic, total	ug/L	MW90-7	09/20/2013		11.8000 *	4.0000
Arsenic, total	ug/L	MW90-7	10/28/2013		6.4000 *	4.0000
Arsenic, total	ug/L	MW90-7	04/08/2014		7.5000 *	4.0000
Arsenic, total	ug/L	MW90-7	09/22/2014		4.6000 *	4.0000
Arsenic, total	ug/L	MW90-7	03/20/2015		4.3000 *	4.0000
Arsenic, total	ug/L	MW90-7	09/17/2015	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	03/17/2016	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	08/26/2016	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/11/2017	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	09/23/2017	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/10/2018	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	09/24/2018	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/16/2019	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	08/29/2019	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/10/2020	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	10/09/2020	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/09/2021	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	10/11/2021	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/07/2022	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	10/06/2022	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/05/2023	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	10/13/2023	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/18/2024	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	10/15/2024	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/16/2025		4.3000 *	4.0000
Cobalt, total	ug/L	MW90-7	09/07/2007	ND	20.0000	0.8000
Cobalt, total	ug/L	MW90-7	06/09/2008	ND	20.0000	0.8000
Cobalt, total	ug/L	MW90-7	10/16/2008	ND	20.0000	0.8000
Cobalt, total	ug/L	MW90-7	03/05/2009	ND	20.0000	0.8000
Cobalt, total	ug/L	MW90-7	09/30/2009		4.8000 *	0.8000
Cobalt, total	ug/L	MW90-7	03/23/2010	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	09/07/2010	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	04/05/2011	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	09/06/2011	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	03/16/2012		4.3000 *	0.8000
Cobalt, total	ug/L	MW90-7	09/24/2012		4.4000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/24/2013	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	09/20/2013		5.7000 *	0.8000
Cobalt, total	ug/L	MW90-7	10/28/2013	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	04/08/2014		6.3000 *	0.8000
Cobalt, total	ug/L	MW90-7	09/22/2014		2.7000 *	0.8000
Cobalt, total	ug/L	MW90-7	03/20/2015		4.6000 *	0.8000
Cobalt, total	ug/L	MW90-7	09/17/2015		6.5000 *	0.8000
Cobalt, total	ug/L	MW90-7	03/17/2016	ND	0.8000	0.8000
Cobalt, total	ug/L	MW90-7	08/26/2016		6.6000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/11/2017		1.5000 *	0.8000
Cobalt, total	ug/L	MW90-7	09/23/2017		2.5000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/10/2018		1.9000 *	0.8000
Cobalt, total	ug/L	MW90-7	09/24/2018		5.1000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/16/2019	ND	0.8000	0.8000
Cobalt, total	ug/L	MW90-7	08/29/2019		1.6000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/10/2020		2.1000 *	0.8000
Cobalt, total	ug/L	MW90-7	10/09/2020		2.1000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/09/2021		2.1000 *	0.8000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

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	MW90-7	10/11/2021		5.3000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/07/2022		0.8000 **	0.8000
Cobalt, total	ug/L	MW90-7	10/06/2022		6.0000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/05/2023		1.6000 *	0.8000
Cobalt, total	ug/L	MW90-7	10/13/2023		19.8000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/18/2024		1.9000 *	0.8000
Cobalt, total	ug/L	MW90-7	10/15/2024		7.6000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/16/2025		1.7000 *	0.8000
Nickel, total	ug/L	MW90-7	09/07/2007	ND	50.0000	7.1000
Nickel, total	ug/L	MW90-7	06/09/2008	ND	50.0000	7.1000
Nickel, total	ug/L	MW90-7	10/16/2008		54.9000 *	7.1000
Nickel, total	ug/L	MW90-7	03/05/2009	ND	50.0000	7.1000
Nickel, total	ug/L	MW90-7	09/30/2009		49.1000 *	7.1000
Nickel, total	ug/L	MW90-7	03/23/2010		38.3000 *	7.1000
Nickel, total	ug/L	MW90-7	09/07/2010		50.5000 *	7.1000
Nickel, total	ug/L	MW90-7	04/05/2011		52.5000 *	7.1000
Nickel, total	ug/L	MW90-7	09/06/2011		43.4000 *	7.1000
Nickel, total	ug/L	MW90-7	03/16/2012		42.6000 *	7.1000
Nickel, total	ug/L	MW90-7	09/24/2012		28.6000 *	7.1000
Nickel, total	ug/L	MW90-7	04/24/2013		33.4000 *	7.1000
Nickel, total	ug/L	MW90-7	09/20/2013		60.4000 *	7.1000
Nickel, total	ug/L	MW90-7	10/28/2013		41.4000 *	7.1000
Nickel, total	ug/L	MW90-7	04/08/2014		39.6000 *	7.1000
Nickel, total	ug/L	MW90-7	09/22/2014		25.3000 *	7.1000
Nickel, total	ug/L	MW90-7	03/20/2015		34.0000 *	7.1000
Nickel, total	ug/L	MW90-7	09/17/2015		29.6000 *	7.1000
Nickel, total	ug/L	MW90-7	03/17/2016		23.5000 *	7.1000
Nickel, total	ug/L	MW90-7	08/26/2016		32.6000 *	7.1000
Nickel, total	ug/L	MW90-7	04/11/2017		23.3000 *	7.1000
Nickel, total	ug/L	MW90-7	09/23/2017		26.4000 *	7.1000
Nickel, total	ug/L	MW90-7	04/10/2018		33.8000 *	7.1000
Nickel, total	ug/L	MW90-7	09/24/2018		22.3000 *	7.1000
Nickel, total	ug/L	MW90-7	04/16/2019		16.3000 *	7.1000
Nickel, total	ug/L	MW90-7	08/29/2019		25.6000 *	7.1000
Nickel, total	ug/L	MW90-7	04/10/2020		23.0000 *	7.1000
Nickel, total	ug/L	MW90-7	10/09/2020		29.2000 *	7.1000
Nickel, total	ug/L	MW90-7	04/09/2021		42.1000 *	7.1000
Nickel, total	ug/L	MW90-7	10/11/2021		29.7000 *	7.1000
Nickel, total	ug/L	MW90-7	04/07/2022		15.2000 *	7.1000
Nickel, total	ug/L	MW90-7	10/06/2022		27.4000 *	7.1000
Nickel, total	ug/L	MW90-7	04/05/2023		25.6000 *	7.1000
Nickel, total	ug/L	MW90-7	10/13/2023		29.4000 *	7.1000
Nickel, total	ug/L	MW90-7	04/18/2024		28.4000 *	7.1000
Nickel, total	ug/L	MW90-7	10/15/2024		23.3000 *	7.1000
Nickel, total	ug/L	MW90-7	04/16/2025		23.1000 *	7.1000

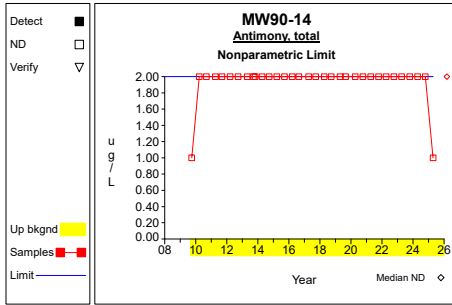
* - Significantly increased over background.

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

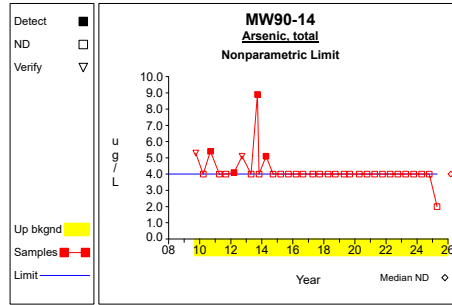
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

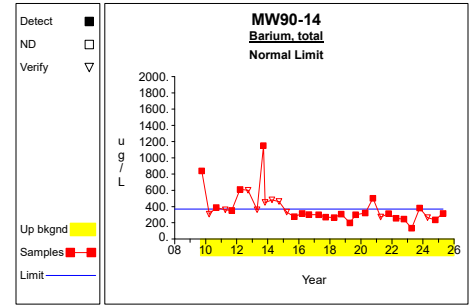
Up vs. Down Prediction Limits



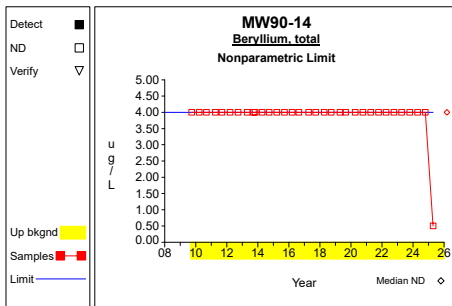
Graph 1



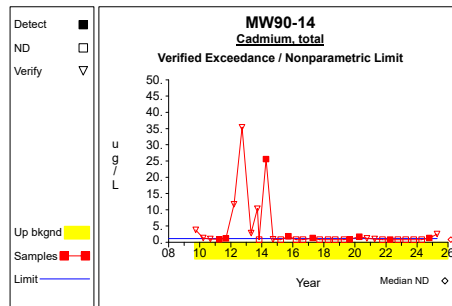
Graph 2



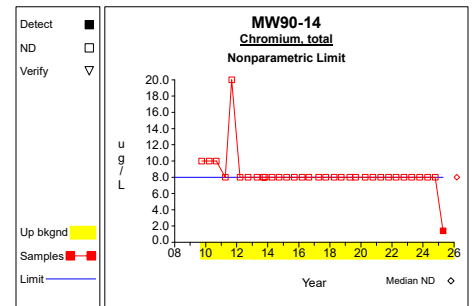
Graph 3



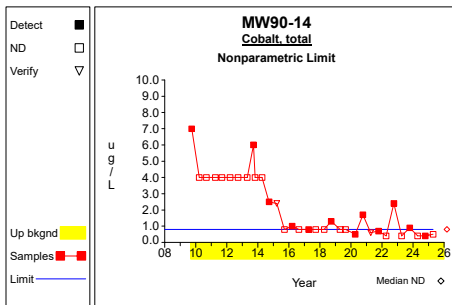
Graph 4



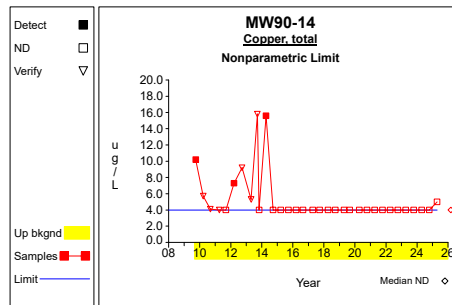
Graph 5



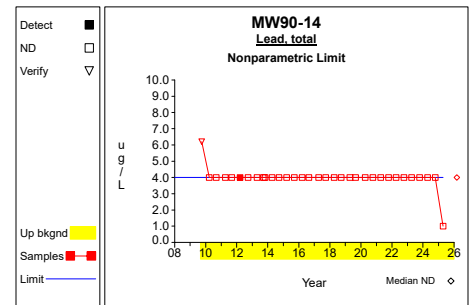
Graph 6



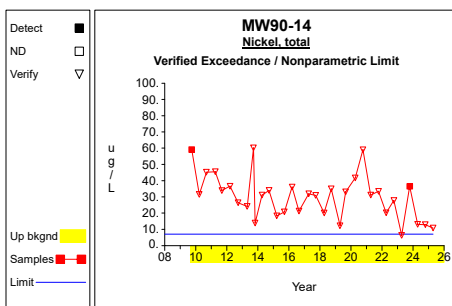
Graph 7



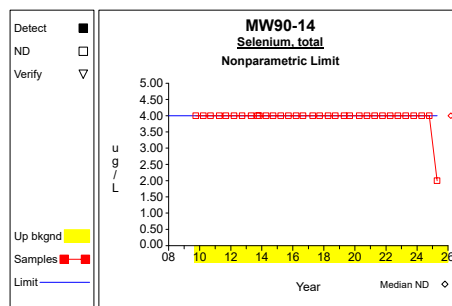
Graph 8



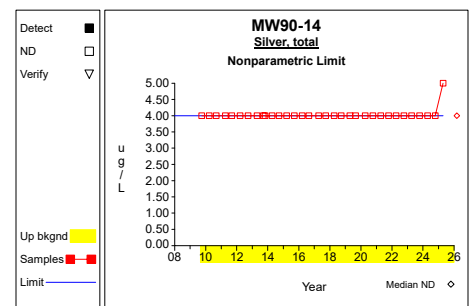
Graph 9



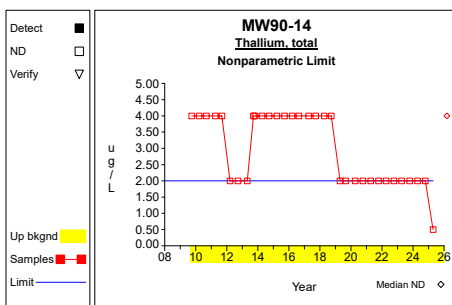
Graph 10



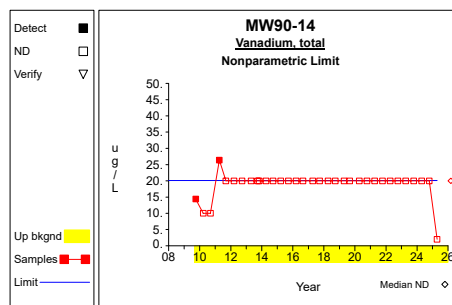
Graph 11



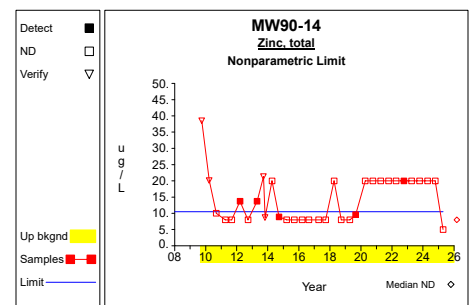
Graph 12



Graph 13

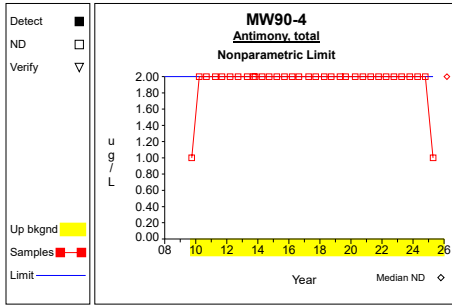


Graph 14

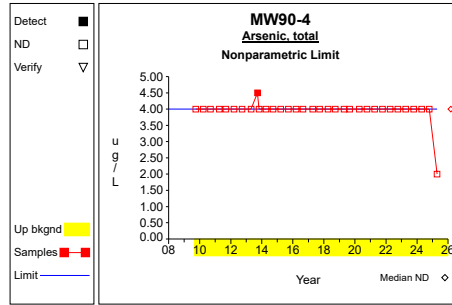


Graph 15

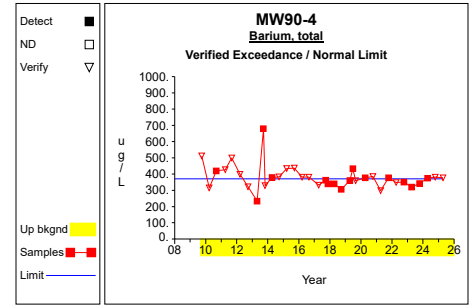
Up vs. Down Prediction Limits



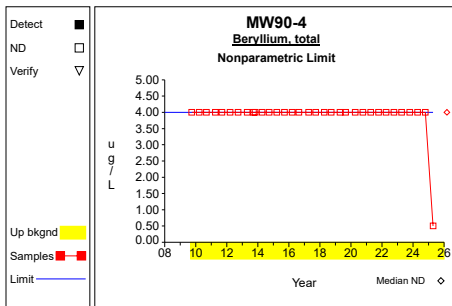
Graph 16



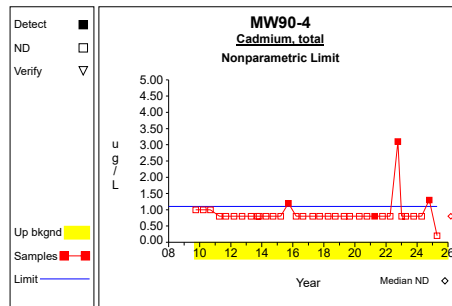
Graph 17



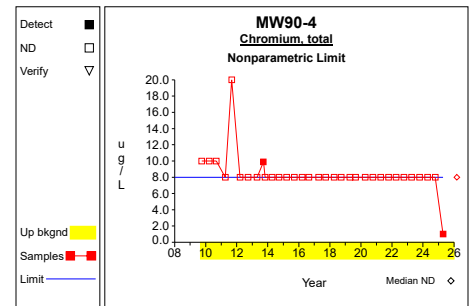
Graph 18



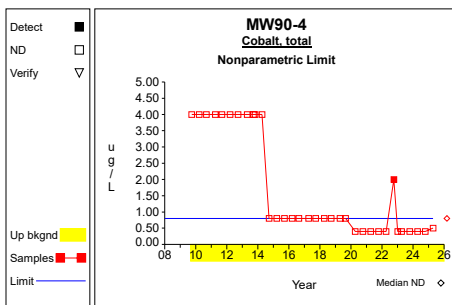
Graph 19



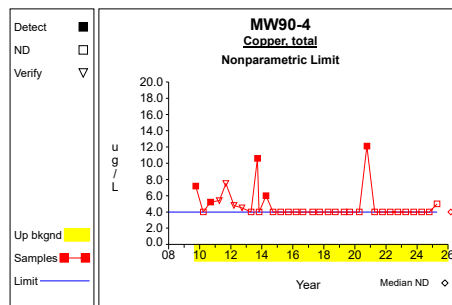
Graph 20



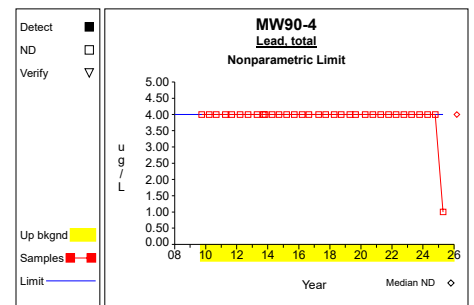
Graph 21



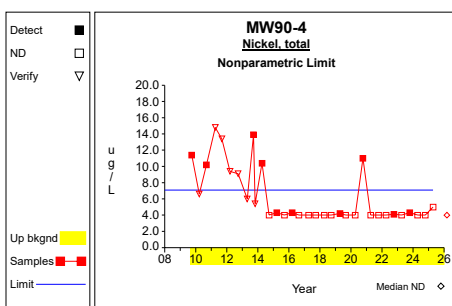
Graph 22



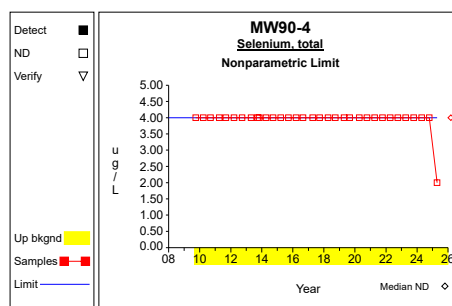
Graph 23



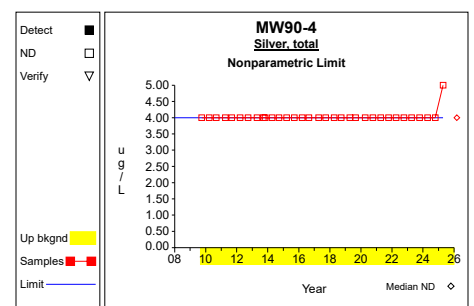
Graph 24



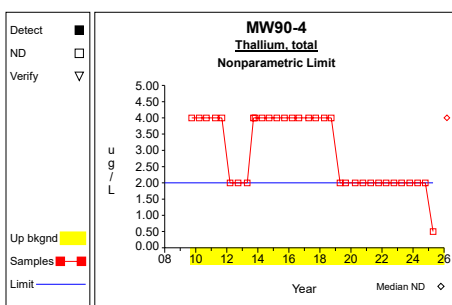
Graph 25



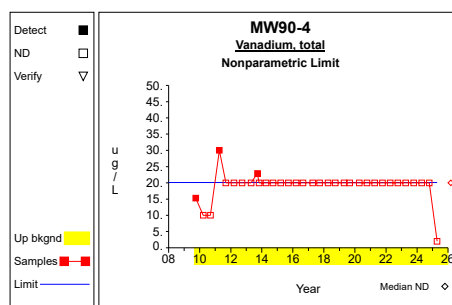
Graph 26



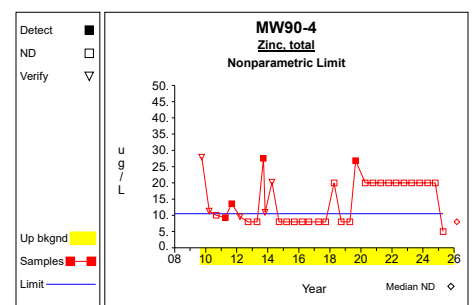
Graph 27



Graph 28

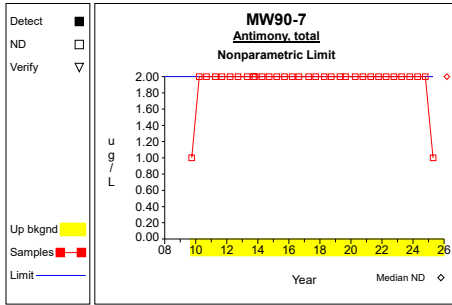


Graph 29

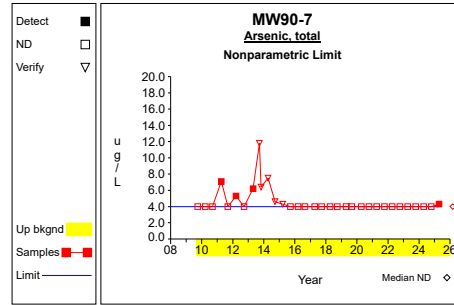


Graph 30

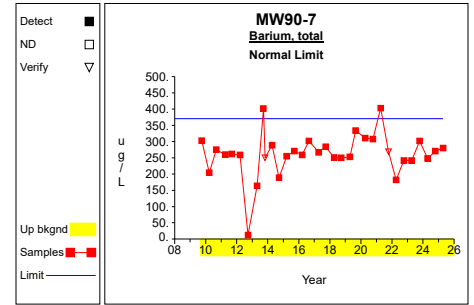
Up vs. Down Prediction Limits



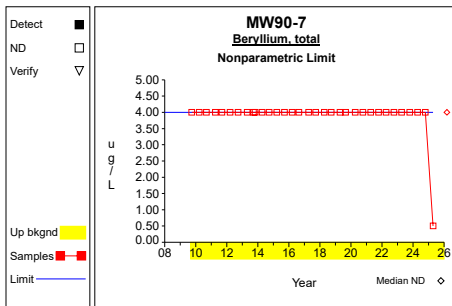
Graph 31



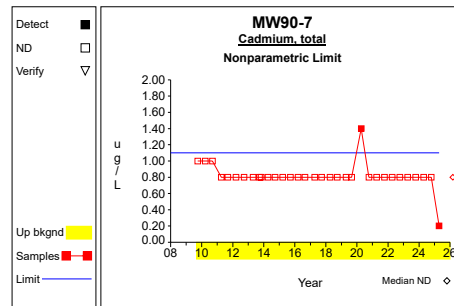
Graph 32



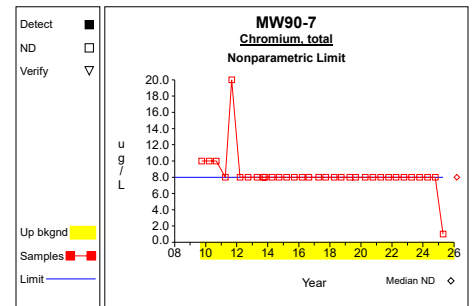
Graph 33



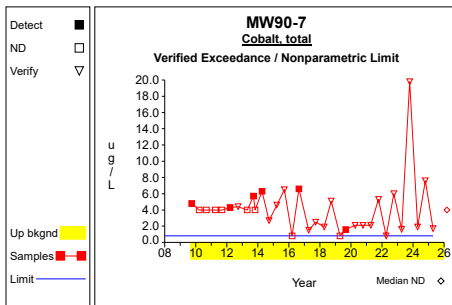
Graph 34



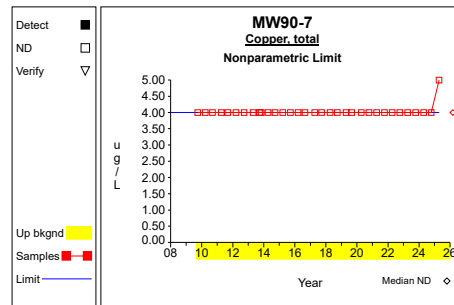
Graph 35



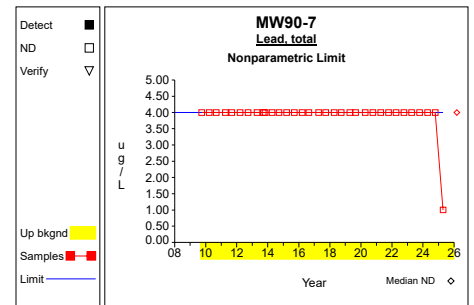
Graph 36



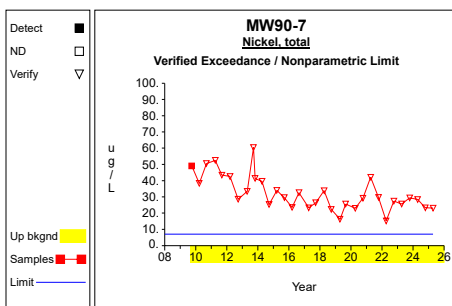
Graph 37



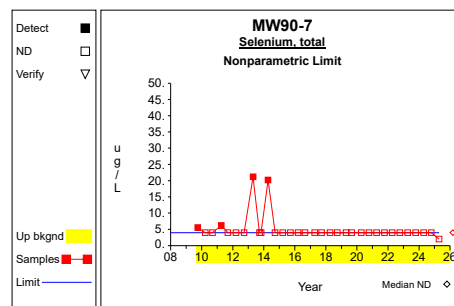
Graph 38



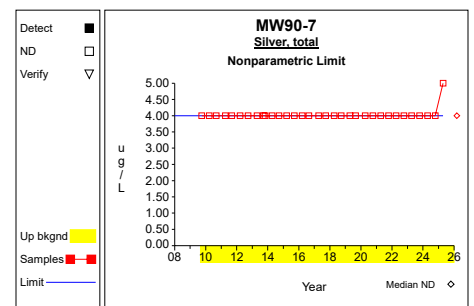
Graph 39



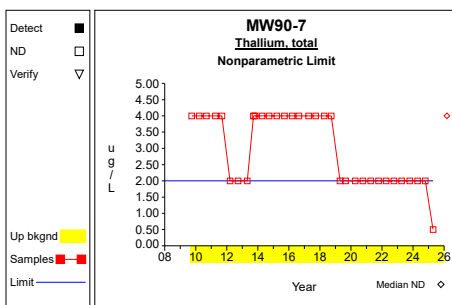
Graph 40



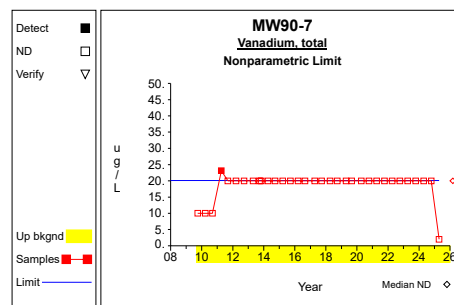
Graph 41



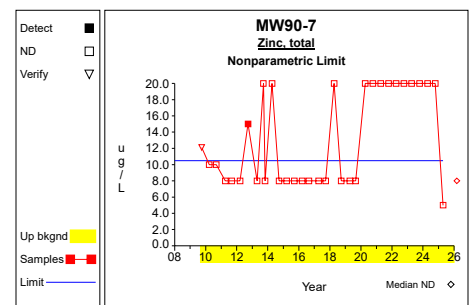
Graph 42



Graph 43

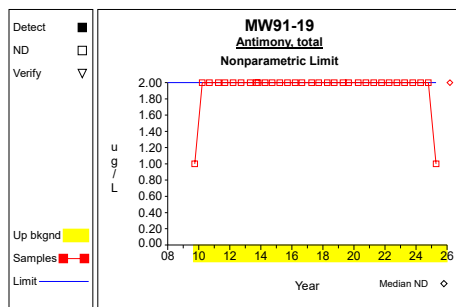


Graph 44

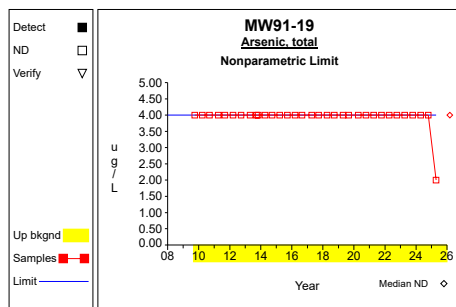


Graph 45

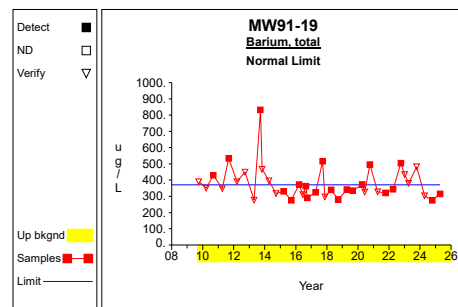
Up vs. Down Prediction Limits



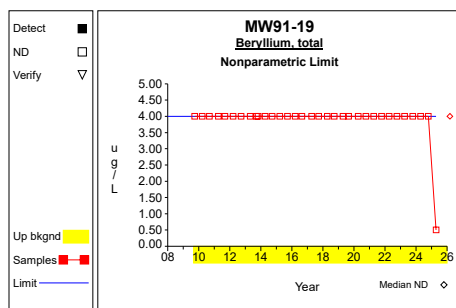
Graph 46



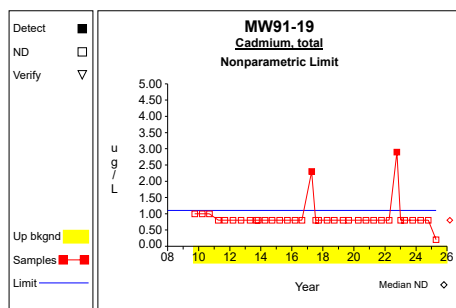
Graph 47



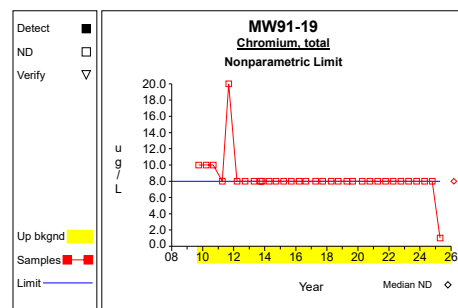
Graph 48



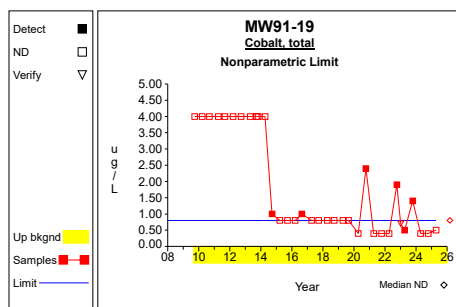
Graph 49



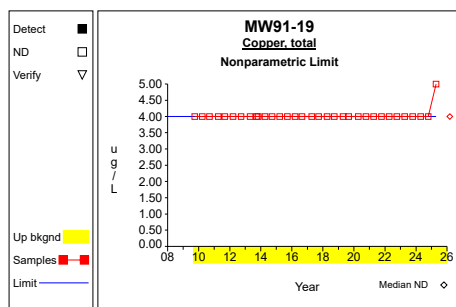
Graph 50



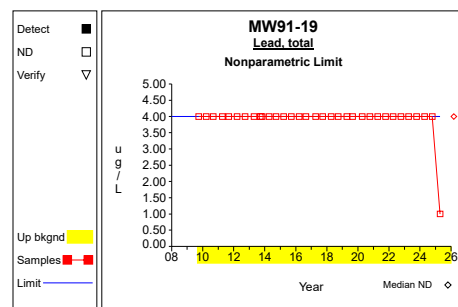
Graph 51



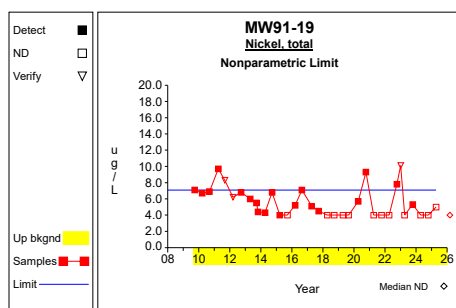
Graph 52



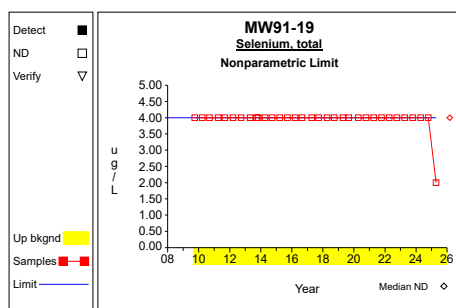
Graph 53



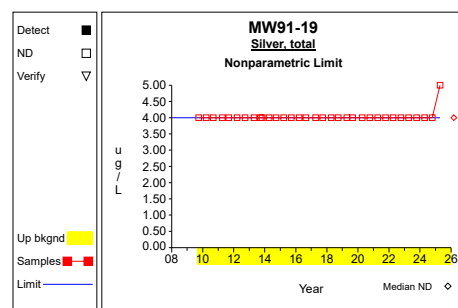
Graph 54



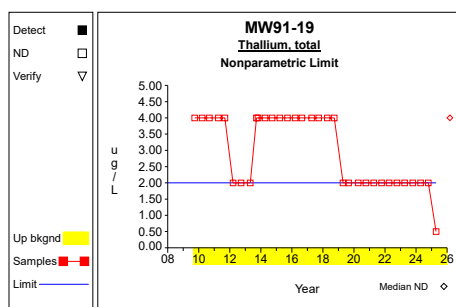
Graph 55



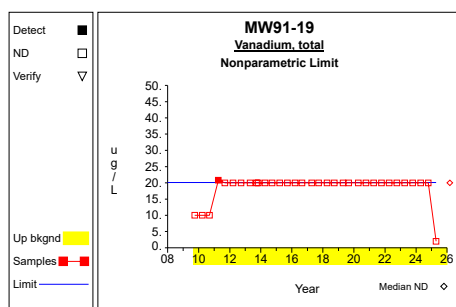
Graph 56



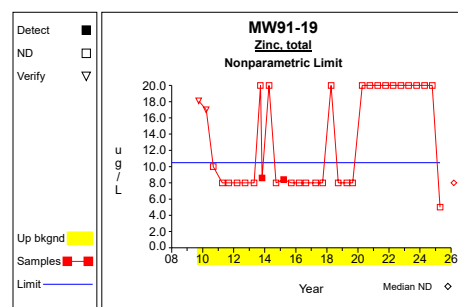
Graph 57



Graph 58

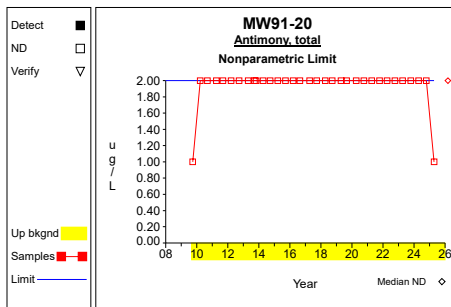


Graph 59

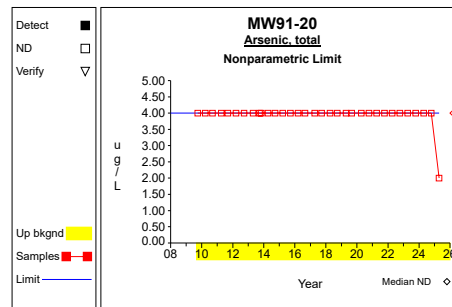


Graph 60

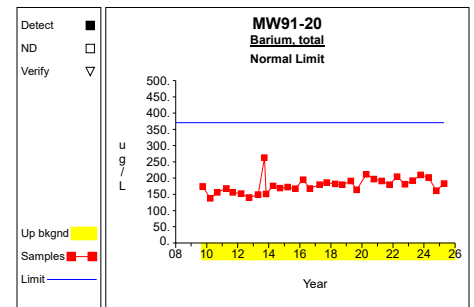
Up vs. Down Prediction Limits



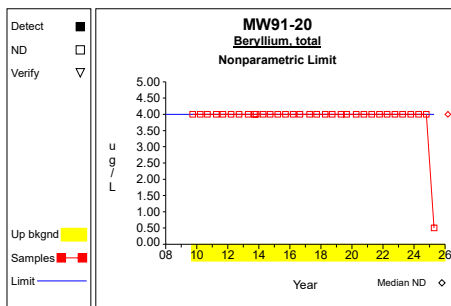
Graph 61



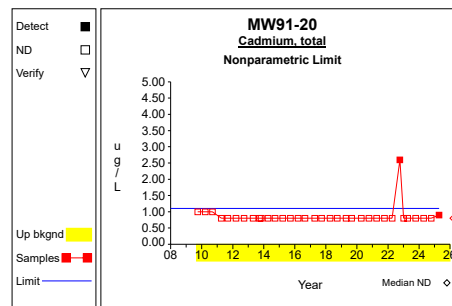
Graph 62



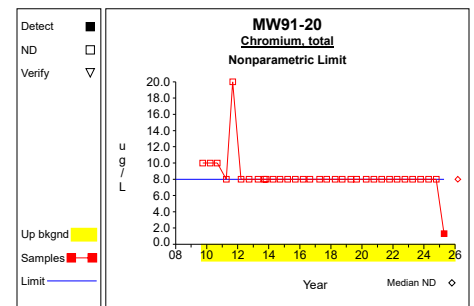
Graph 63



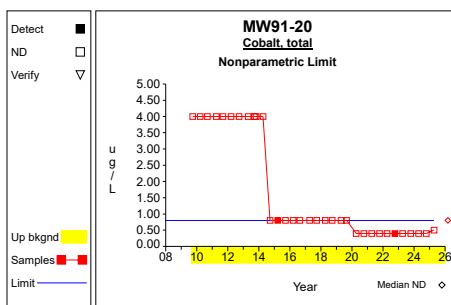
Graph 64



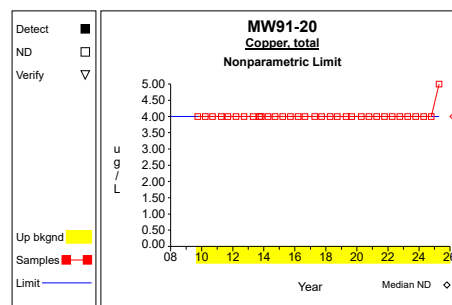
Graph 65



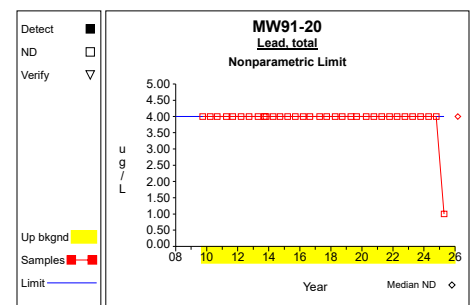
Graph 66



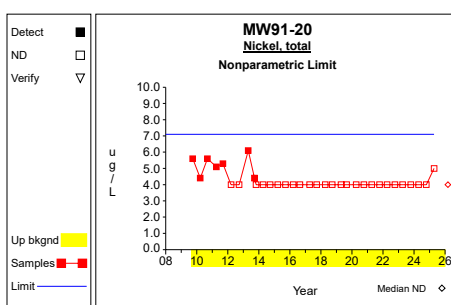
Graph 67



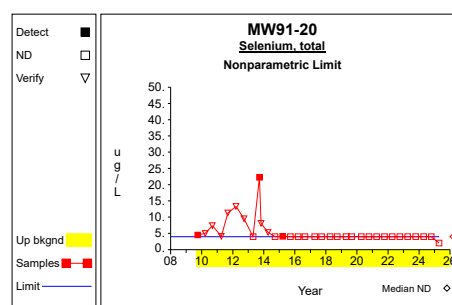
Graph 68



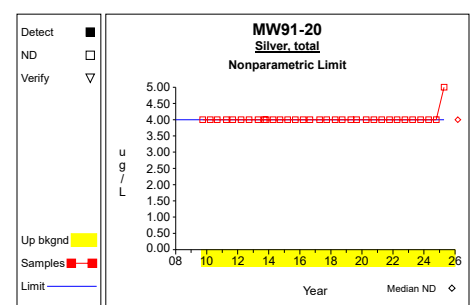
Graph 69



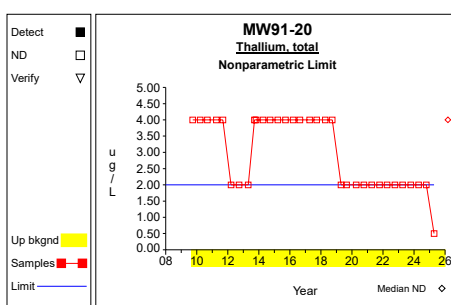
Graph 70



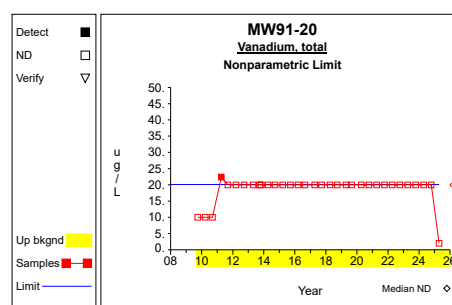
Graph 71



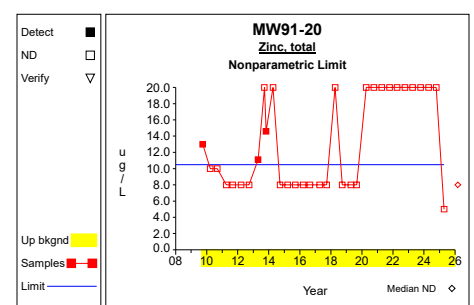
Graph 72



Graph 73

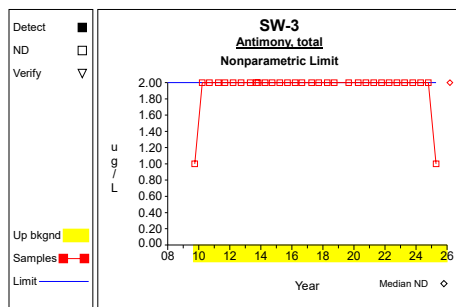


Graph 74

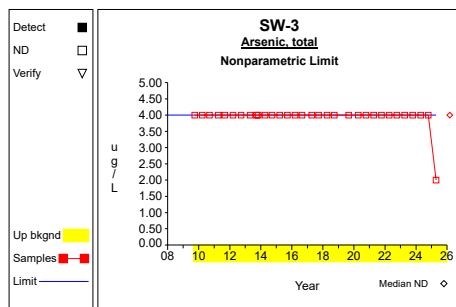


Graph 75

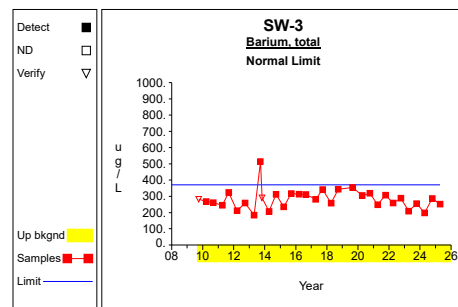
Up vs. Down Prediction Limits



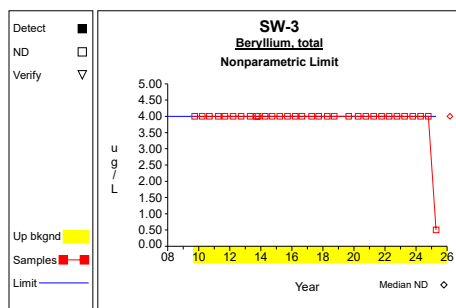
Graph 76



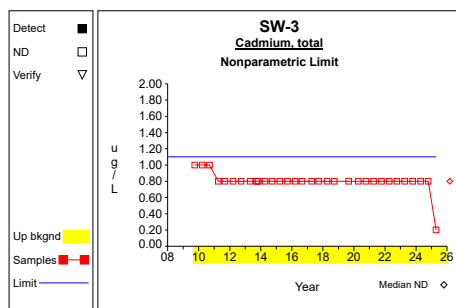
Graph 77



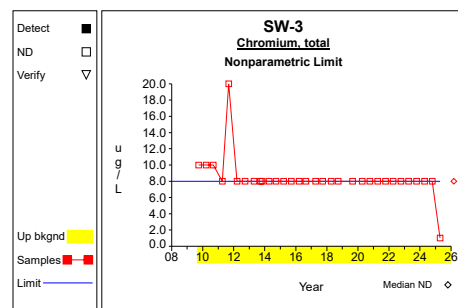
Graph 78



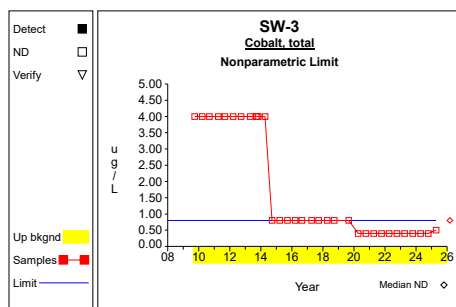
Graph 79



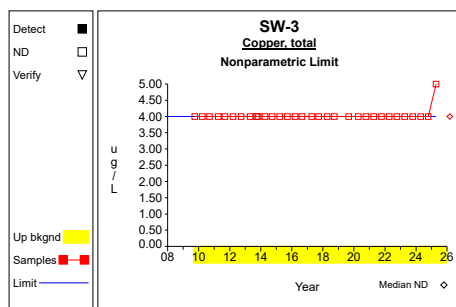
Graph 80



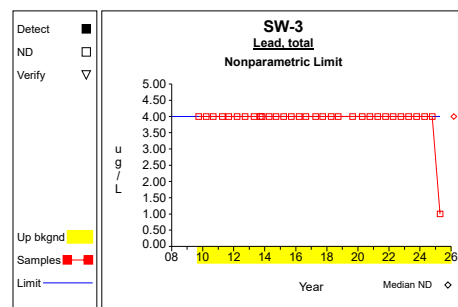
Graph 81



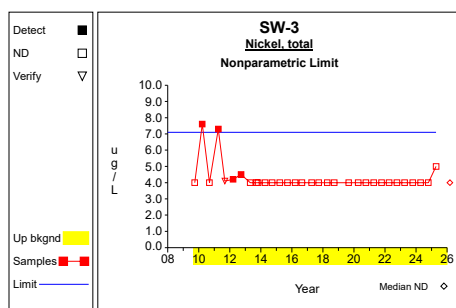
Graph 82



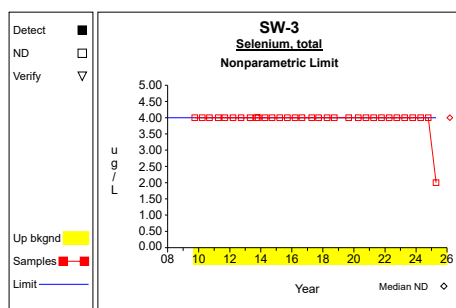
Graph 83



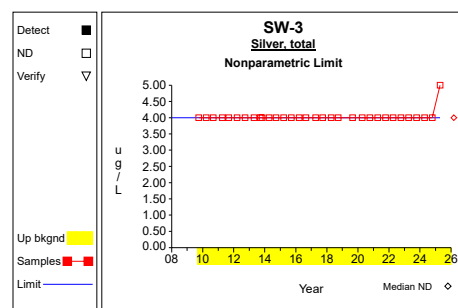
Graph 84



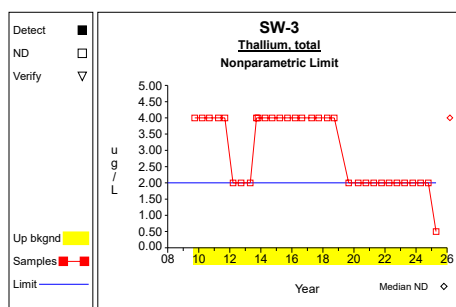
Graph 85



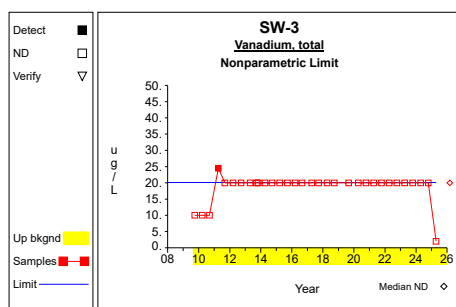
Graph 86



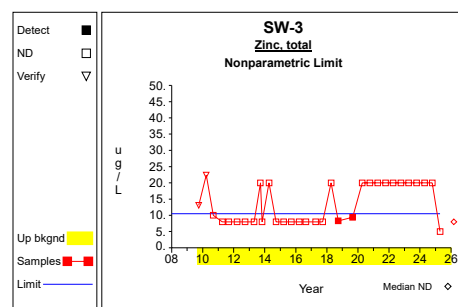
Graph 87



Graph 88

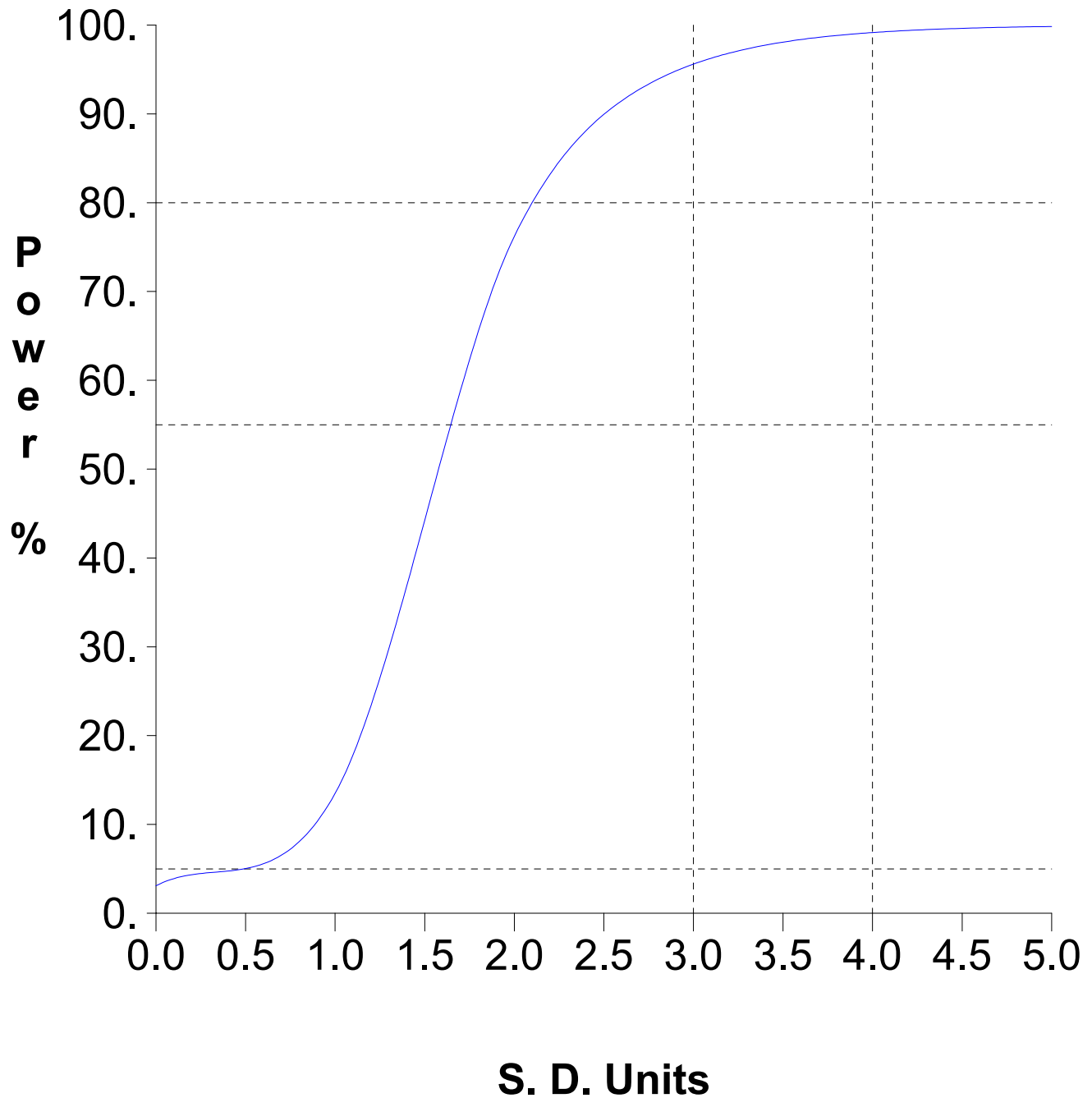


Graph 89



Graph 90

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



Attachment C

Assessment Statistics for 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	MW90-14	4	2.000	0.000	1.176	2.000	2.000	10.000	dec
Barium, total	ug/L	MW90-14	4	299.250	63.647	1.176	224.383	374.117	2000.000	
Cadmium, total	ug/L	MW90-14	4	1.150	0.995	1.176	0.000	2.320	5.000	
Cobalt, total	ug/L	MW90-14	4	0.525	0.250	1.176	0.231	0.819	2.100	
Nickel, total	ug/L	MW90-14	4	18.325	12.161	1.176	4.020	32.630	100.000	
Arsenic, total	ug/L	MW90-4	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW90-4	4	368.750	18.007	1.176	347.569	389.931	2000.000	
Cadmium, total	ug/L	MW90-4	4	0.625	0.450	1.176	0.096	1.154	5.000	
Cobalt, total	ug/L	MW90-4	4	0.400	0.000	1.176	0.400	0.400	2.100	
Nickel, total	ug/L	MW90-4	4	2.575	1.150	1.176	1.222	3.928	100.000	
Arsenic, total	ug/L	MW90-7	4	2.575	1.150	1.176	1.222	3.928	10.000	dec
Barium, total	ug/L	MW90-7	4	275.250	22.351	1.176	248.958	301.542	2000.000	
Cadmium, total	ug/L	MW90-7	4	0.350	0.100	1.176	0.232	0.468	5.000	
Cobalt, total	ug/L	MW90-7	4	7.750	8.486	1.176	0.000	17.732	2.100	
Nickel, total	ug/L	MW90-7	4	26.050	3.317	1.176	22.148	29.952	100.000	
Arsenic, total	ug/L	MW91-19	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW91-19	4	344.000	93.434	1.176	234.094	453.906	2000.000	
Cadmium, total	ug/L	MW91-19	4	0.400	0.000	1.176	0.400	0.400	5.000	
Cobalt, total	ug/L	MW91-19	4	0.650	0.500	1.176	0.062	1.238	2.100	
Nickel, total	ug/L	MW91-19	4	2.825	1.650	1.176	0.884	4.766	100.000	

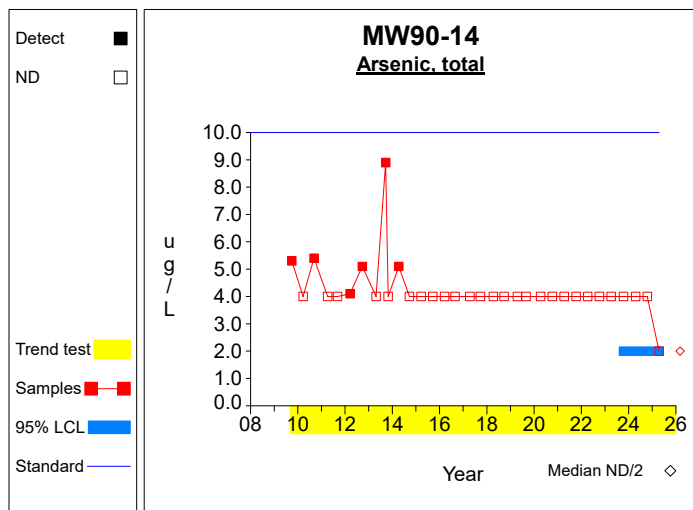
* - Insufficient Data

** - Significant Exceedance

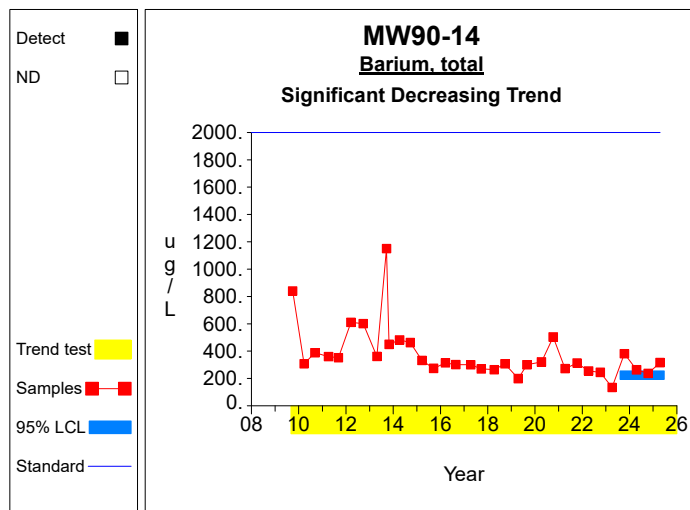
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

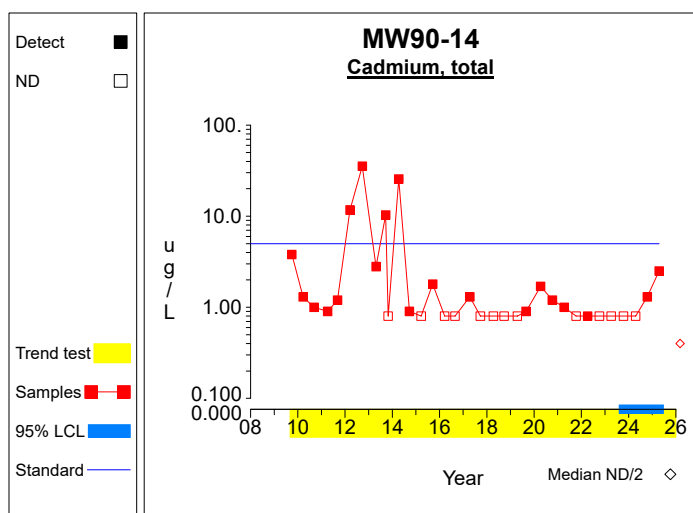
Confidence Limits (Assessment)



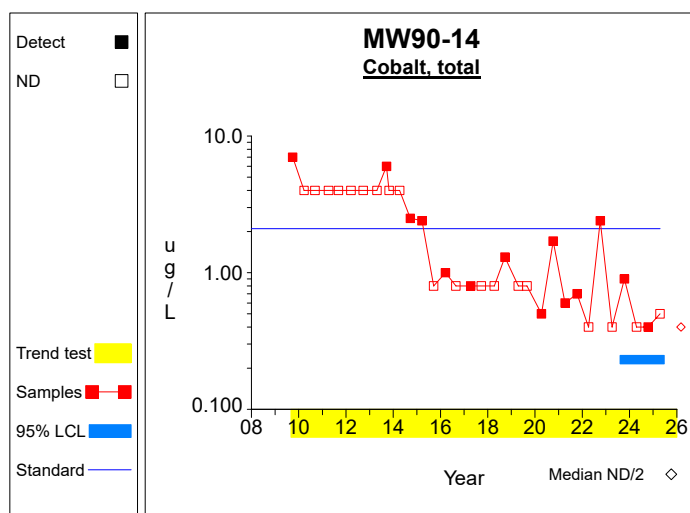
Graph 1



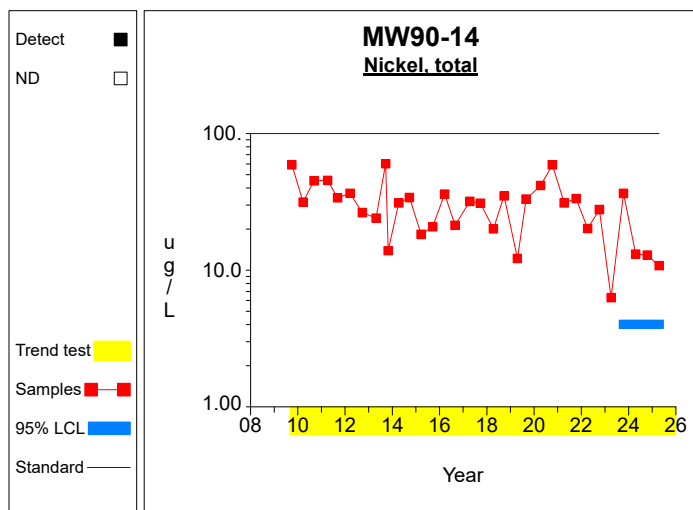
Graph 2



Graph 3

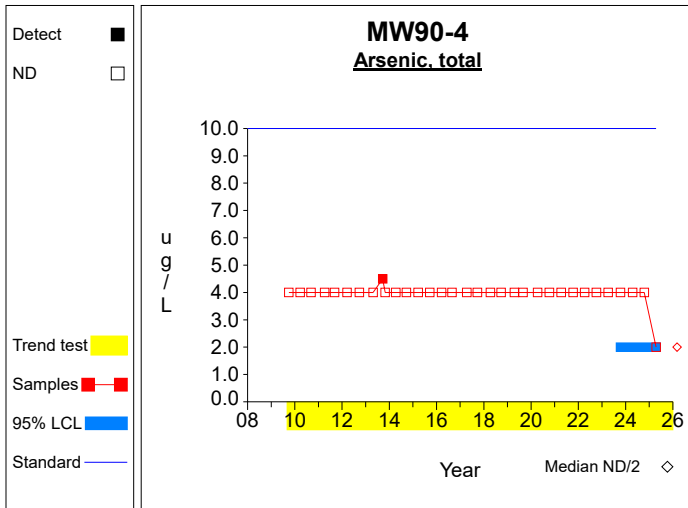


Graph 4

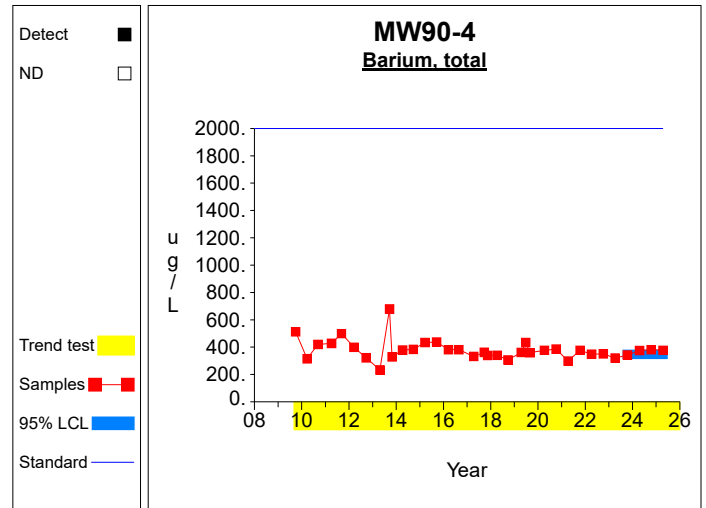


Graph 5

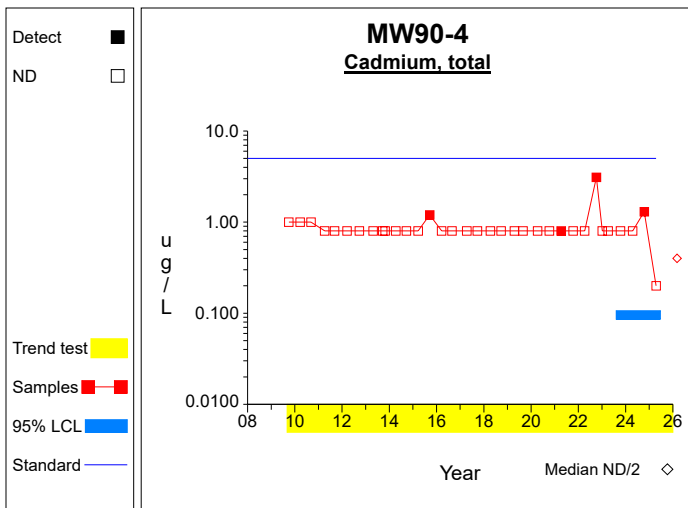
Confidence Limits (Assessment)



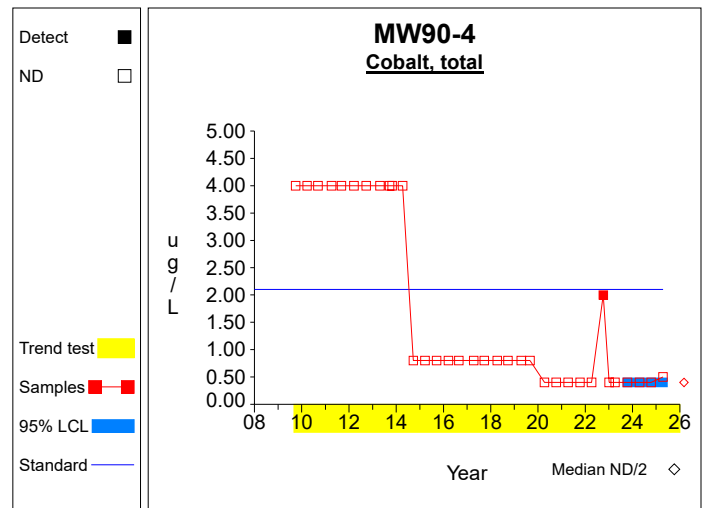
Graph 6



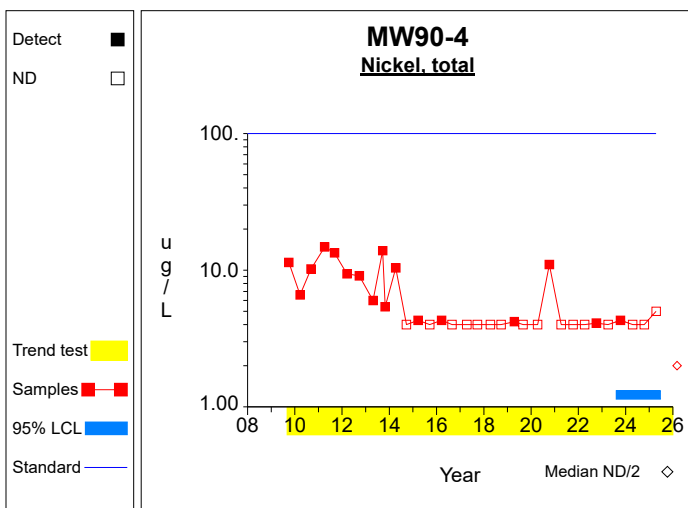
Graph 7



Graph 8

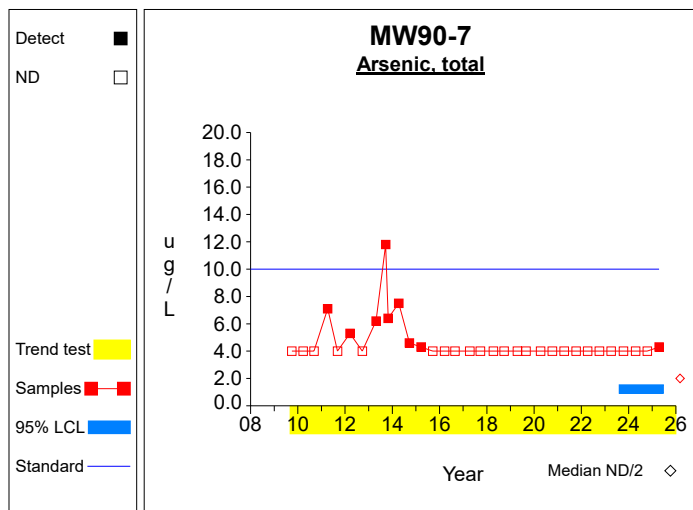


Graph 9

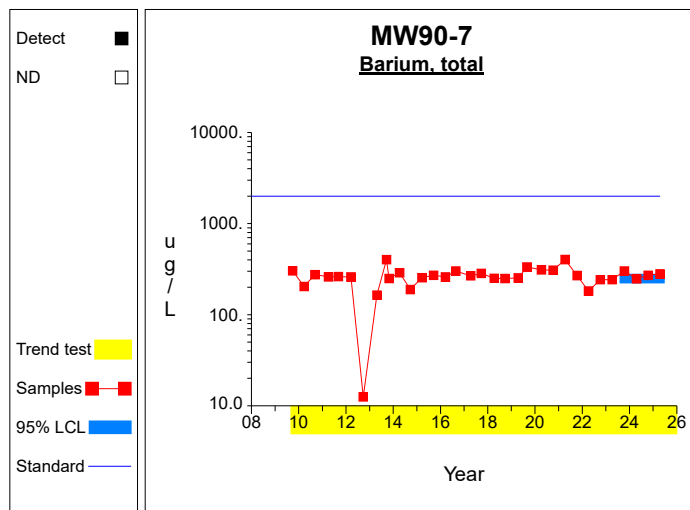


Graph 10

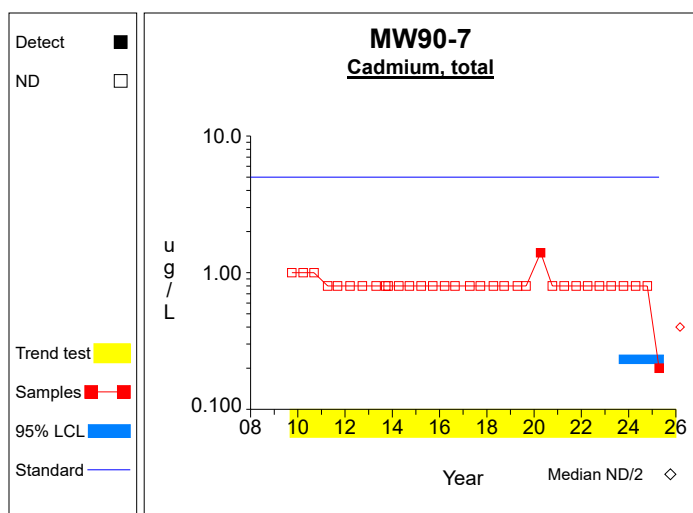
Confidence Limits (Assessment)



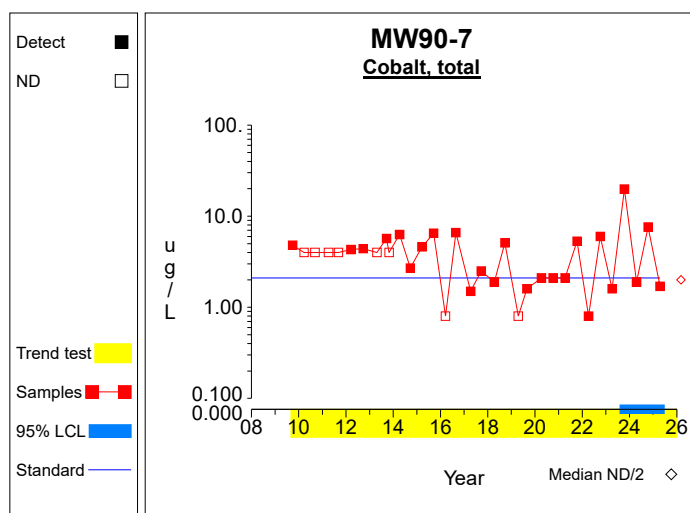
Graph 11



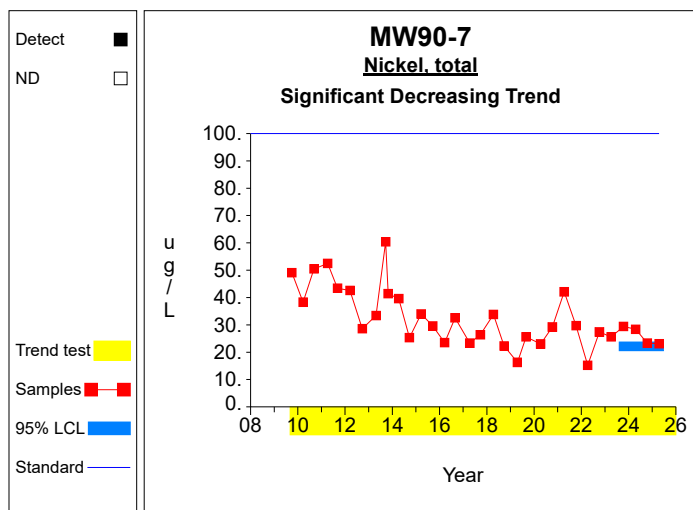
Graph 12



Graph 13

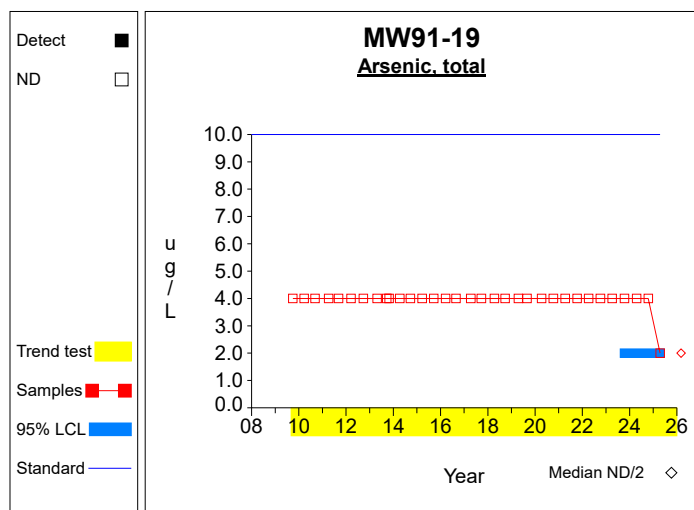


Graph 14

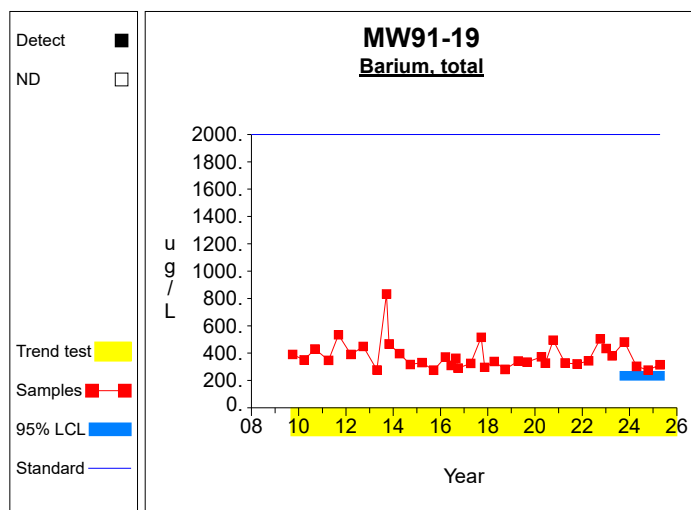


Graph 15

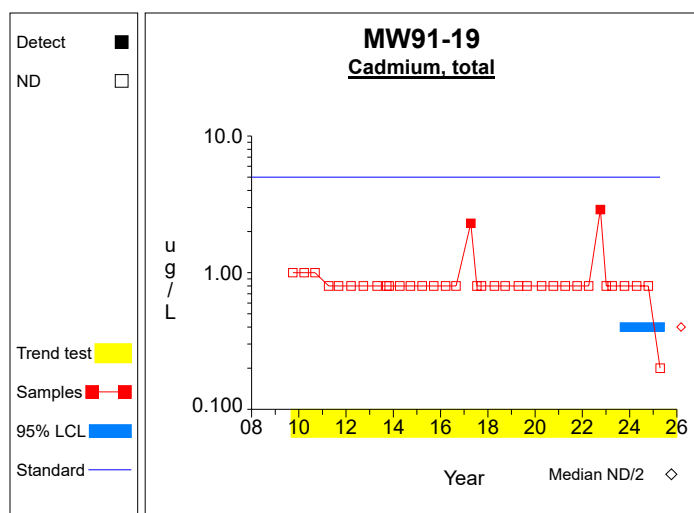
Confidence Limits (Assessment)



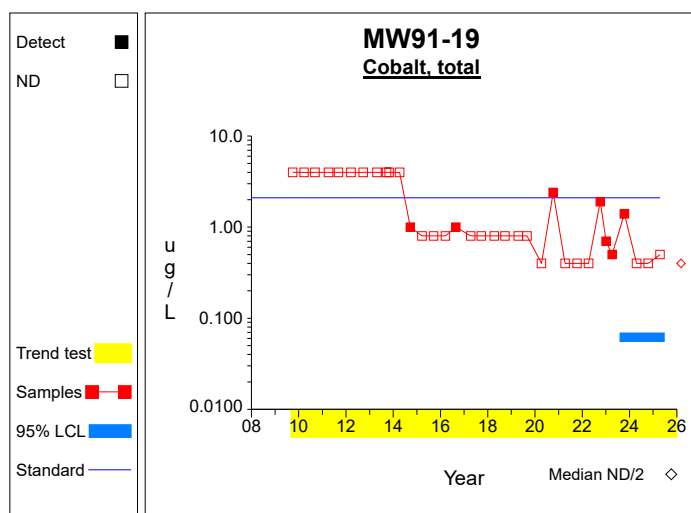
Graph 16



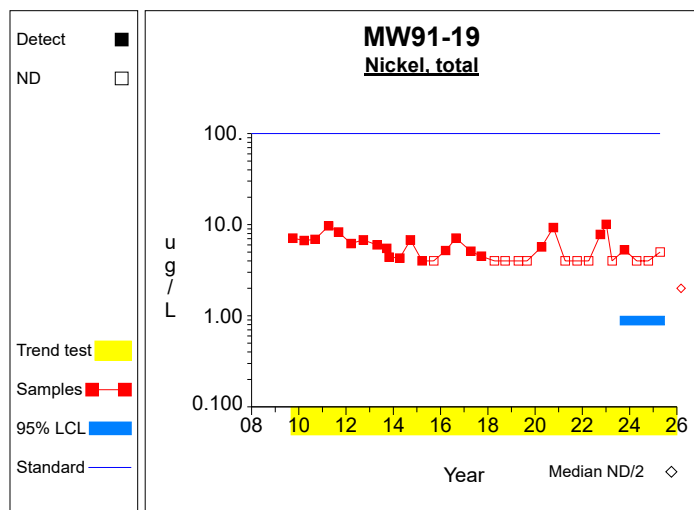
Graph 17



Graph 18



Graph 19



Graph 20

Attachment D

Summary Tables and Graphs for the Intrawell Comparisons

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Antimony, total	ug/L	MW90-14	26	7	36			2.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW90-14	26	7	36			4.0000	2.0000			8.9000	nonpar	.99	**
Barium, total	ug/L	MW90-14	26	7	36	409.0000	204.8559	237.0000	316.0000	409.0000	409.0000	1740.5630	normal		
Beryllium, total	ug/L	MW90-14	26	7	36			4.0000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW90-14	26	7	36	4.2308	8.3210	1.3000	2.5000	4.2308	4.2308	58.3173	normal		
Chromium, total	ug/L	MW90-14	26	7	36			8.0000	1.4000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW90-14	26	7	36	3.2500	1.6698	0.4000	0.5000	3.2500	3.2500	14.1036	normal		
Copper, total	ug/L	MW90-14	26	7	36	5.5846	3.4028	4.0000	5.0000	5.5846	5.5846	27.7027	normal		
Lead, total	ug/L	MW90-14	26	7	36			4.0000	1.0000			6.2000	nonpar	.99	**
Nickel, total	ug/L	MW90-14	26	7	36	33.3231	12.8175	12.9000	10.8000	33.3231	33.3231	116.6368	normal		
Selenium, total	ug/L	MW90-14	26	7	36			4.0000	2.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW90-14	26	7	36			4.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW90-14	26	7	36			2.0000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW90-14	26	7	36			20.0000	2.0000			26.4000	nonpar	.99	**
Zinc, total	ug/L	MW90-14	26	7	36	10.7115	6.7267	20.0000	5.0000	10.7115	10.7115	54.4354	normal		
Antimony, total	ug/L	MW90-17	25	7	32			2.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW90-17	25	7	32			4.0000	2.0000			4.0000	nonpar	.99	**
Barium, total	ug/L	MW90-17	25	7	32	238.2400	42.2328	280.0000	337.0000	416.7525	483.8380	512.7530	normal		
Beryllium, total	ug/L	MW90-17	25	7	32			4.0000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW90-17	25	7	33			0.8000	0.2000			1.1000	nonpar	.99	**
Chromium, total	ug/L	MW90-17	24	7	32			8.0000	2.8000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW90-17	25	7	32			0.4000	0.5000			0.8000	nonpar	.99	**
Copper, total	ug/L	MW90-17	25	7	32			4.0000	5.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW90-17	25	7	32			4.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW90-17	25	7	32			4.0000	5.0000			7.1000	nonpar	.99	**
Selenium, total	ug/L	MW90-17	25	7	32			4.0000	2.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW90-17	25	7	32			4.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW90-17	25	7	32			2.0000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW90-17	25	7	32			20.0000	2.0000			20.1000	nonpar	.99	**
Zinc, total	ug/L	MW90-17	25	7	33			20.0000	5.0000			10.5000	nonpar	.99	**
Antimony, total	ug/L	MW90-4	26	7	36			2.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW90-4	26	7	36			4.0000	2.0000			4.5000	nonpar	.99	**
Barium, total	ug/L	MW90-4	28	7	38	385.6786	82.5501	381.0000	377.0000	385.6786	385.6786	922.2544	normal		
Beryllium, total	ug/L	MW90-4	26	7	36			4.0000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW90-4	26	8	37			1.3000	0.2000			1.2000	nonpar	.99	**
Chromium, total	ug/L	MW90-4	26	7	36			8.0000	1.0000			9.9000	nonpar	.99	**
Cobalt, total	ug/L	MW90-4	26	8	37			0.4000	0.5000			0.8000	nonpar	.99	**
Copper, total	ug/L	MW90-4	26	7	36	5.0500	2.1098	4.0000	5.0000	5.0500	5.0500	18.7639	normal		
Lead, total	ug/L	MW90-4	26	7	36			4.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW90-4	26	7	36	6.8615	3.6953	4.0000	5.0000	6.8615	6.8615	30.8810	normal		
Selenium, total	ug/L	MW90-4	26	7	36			4.0000	2.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW90-4	26	7	36			4.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW90-4	26	7	36			2.0000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW90-4	26	7	36			20.0000	2.0000			30.0000	nonpar	.99	**
Zinc, total	ug/L	MW90-4	26	7	36	11.2769	6.5059	20.0000	5.0000	11.2769	11.2769	53.5652	normal		
Antimony, total	ug/L	MW90-7	26	7	37			2.0000	1.0000			2.0000	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

Conf = confidence level for passing initial test or one verification resample (nonparametric test only).

* - Insufficient Data.

** - Detection Frequency < 25%.

*** - Zero Variance.

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Arsenic, total	ug/L	MW90-7	26	7	37	4.8154	1.7681	4.0000	4.3000	4.8154	4.8154	16.3080	normal		
Barium, total	ug/L	MW90-7	25	7	37	274.9600	53.4864	271.0000	280.0000	274.9600	274.9600	622.6213	normal		
Beryllium, total	ug/L	MW90-7	26	7	37			4.0000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW90-7	26	7	37			0.8000	0.2000			1.4000	nonpar	.99	**
Chromium, total	ug/L	MW90-7	26	7	37			8.0000	1.0000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW90-7	26	7	37	3.9269	1.5019	7.6000	1.7000	6.4736	3.9269	13.6891	normal		
Copper, total	ug/L	MW90-7	26	7	37			4.0000	5.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW90-7	26	7	37			4.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW90-7	26	7	37	34.4808	10.8781	23.3000	23.1000	34.4808	34.4808	105.1886	normal		
Selenium, total	ug/L	MW90-7	24	7	37			4.0000	2.0000			6.2000	nonpar	.99	**
Silver, total	ug/L	MW90-7	26	7	37			4.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW90-7	26	7	37			2.0000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW90-7	26	7	37			20.0000	2.0000			23.1000	nonpar	.99	**
Zinc, total	ug/L	MW90-7	26	7	37			20.0000	5.0000			15.0000	nonpar	.99	**
Antimony, total	ug/L	MW91-19	26	7	36			2.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW91-19	26	7	36			4.0000	2.0000			4.0000	nonpar	.99	**
Barium, total	ug/L	MW91-19	30	8	41	379.9667	110.3613	276.0000	315.0000	379.9667	379.9667	1097.3152	normal		
Beryllium, total	ug/L	MW91-19	26	7	36			4.0000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW91-19	27	8	38			0.8000	0.2000			2.3000	nonpar	.99	**
Chromium, total	ug/L	MW91-19	26	7	36			8.0000	1.0000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW91-19	26	8	37			0.4000	0.5000			2.4000	nonpar	.99	**
Copper, total	ug/L	MW91-19	26	7	36			4.0000	5.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW91-19	26	7	36			4.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW91-19	26	8	37	5.6769	1.7168	4.0000	5.0000	5.6769	5.6769	16.8362	normal		
Selenium, total	ug/L	MW91-19	26	7	36			4.0000	2.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW91-19	26	7	36			4.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW91-19	26	7	36			2.0000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW91-19	26	7	36			20.0000	2.0000			20.8000	nonpar	.99	**
Zinc, total	ug/L	MW91-19	26	7	36			20.0000	5.0000			18.1000	nonpar	.99	**
Antimony, total	ug/L	MW91-20	26	7	33			2.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW91-20	26	7	33			4.0000	2.0000			4.0000	nonpar	.99	**
Barium, total	ug/L	MW91-20	26	7	33	175.2692	25.4394	161.0000	183.0000	175.2692	175.2692	340.6255	normal		
Beryllium, total	ug/L	MW91-20	26	7	33			4.0000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW91-20	26	8	34			0.8000	0.9000			0.8000	nonpar	.99	**
Chromium, total	ug/L	MW91-20	26	7	33			8.0000	1.3000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW91-20	26	7	33			0.4000	0.5000			0.8000	nonpar	.99	**
Copper, total	ug/L	MW91-20	26	7	33			4.0000	5.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW91-20	26	7	33			4.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW91-20	26	7	33	4.3269	0.6315	4.0000	5.0000	4.3269	4.3269	8.4320	normal		
Selenium, total	ug/L	MW91-20	26	7	33	5.9577	4.1790	4.0000	2.0000	5.9577	5.9577	33.1213	normal		
Silver, total	ug/L	MW91-20	26	7	33			4.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW91-20	26	7	33			2.0000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW91-20	26	7	33			20.0000	2.0000			22.4000	nonpar	.99	**
Zinc, total	ug/L	MW91-20	26	7	33			20.0000	5.0000			14.6000	nonpar	.99	**
Antimony, total	ug/L	SW-3	25	7	33			2.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	SW-3	25	7	33			4.0000	2.0000			4.0000	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

Conf = confidence level for passing initial test or one verification resample (nonparametric test only).

* - Insufficient Data.

** - Detection Frequency < 25%.

*** - Zero Variance.

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Barium, total	ug/L	SW-3	25	7	33	291.6800	64.2766	287.0000	252.0000	291.6800	291.6800	709.4777	normal		
Beryllium, total	ug/L	SW-3	25	7	33			4.0000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	SW-3	25	7	33			0.8000	0.2000			0.8000	nonpar	.99	**
Chromium, total	ug/L	SW-3	25	7	33			8.0000	1.0000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	SW-3	25	7	33			0.4000	0.5000			0.8000	nonpar	.99	**
Copper, total	ug/L	SW-3	25	7	33			4.0000	5.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	SW-3	25	7	33			4.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	SW-3	25	7	33			4.0000	5.0000			7.6000	nonpar	.99	**
Selenium, total	ug/L	SW-3	25	7	33			4.0000	2.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	SW-3	25	7	33			4.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	SW-3	25	7	33			2.0000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	SW-3	25	7	33			20.0000	2.0000			24.5000	nonpar	.99	**
Zinc, total	ug/L	SW-3	25	7	33			20.0000	5.0000			22.4000	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

Conf = confidence level for passing initial test or one verification resample (nonparametric test only).

* - Insufficient Data.

** - Detection Frequency < 25%.

*** - Zero Variance.

Table 4

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

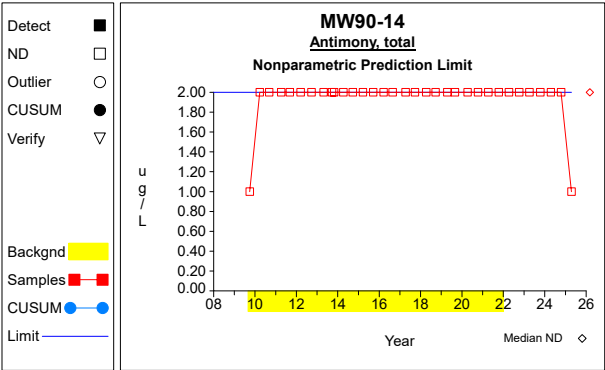
Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Cadmium, total	ug/L	MW90-17	09/07/2010	2.5000	< 2.5000	09/30/2009-10/11/2021	26	0.4819
Chromium, total	ug/L	MW90-17	09/07/2010	25.0000	< 25.0000	09/30/2009-10/11/2021	25	0.4893
Barium, total	ug/L	MW90-7	09/24/2012	12.5000		09/30/2009-10/11/2021	26	0.4819
Selenium, total	ug/L	MW90-7	04/24/2013	21.2000		09/30/2009-10/11/2021	26	0.4893
Selenium, total	ug/L	MW90-7	04/08/2014	20.2000		09/30/2009-10/11/2021	26	0.4893

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

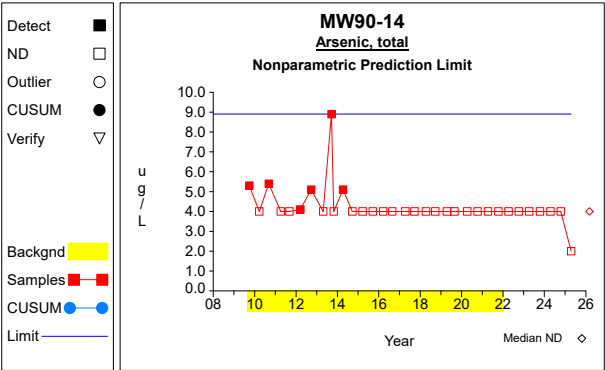
Date Range = Dates of the first and last measurements included in background at each well.

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

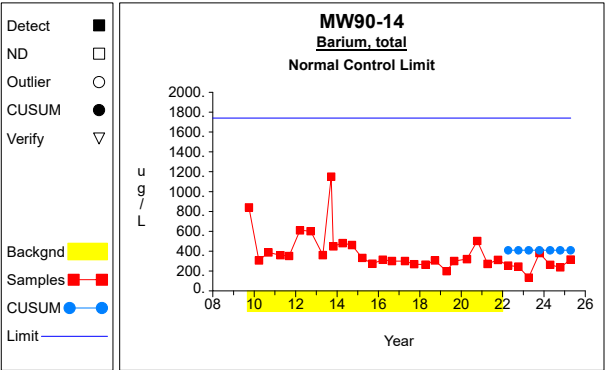
Intra-Well Control Charts / Prediction Limits



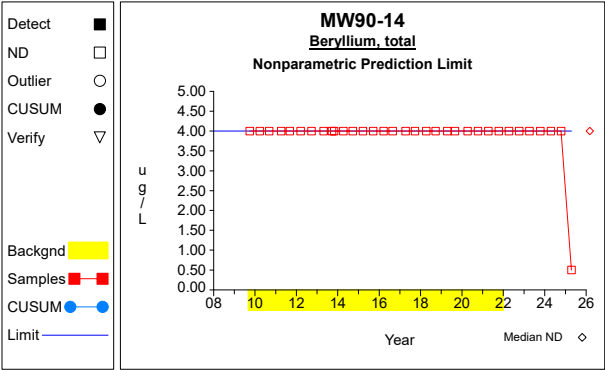
Graph 1



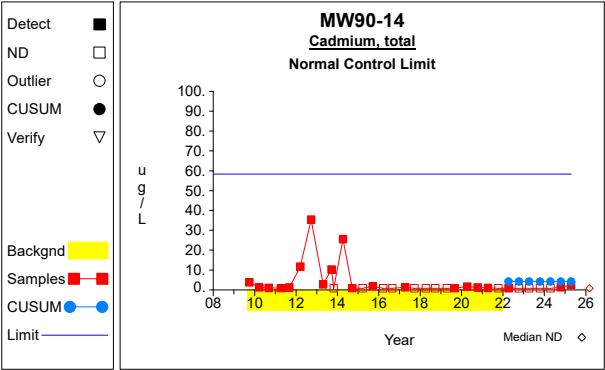
Graph 2



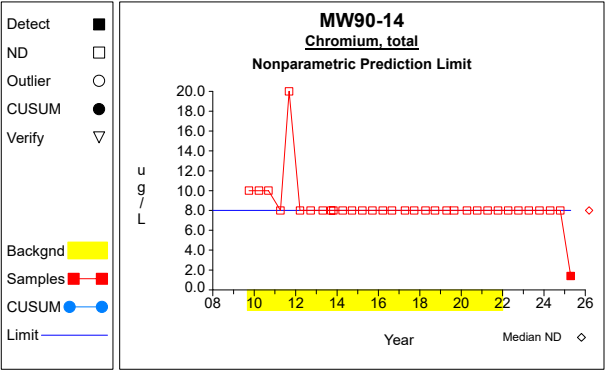
Graph 3



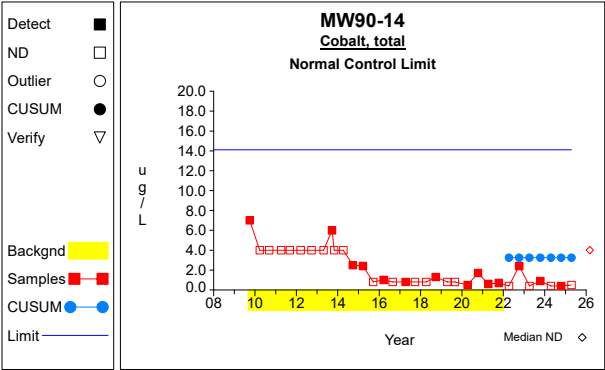
Graph 4



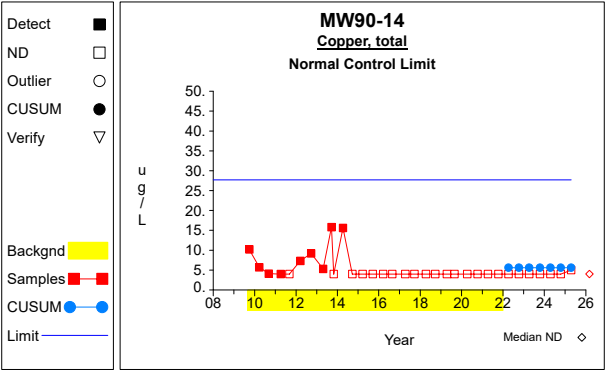
Graph 5



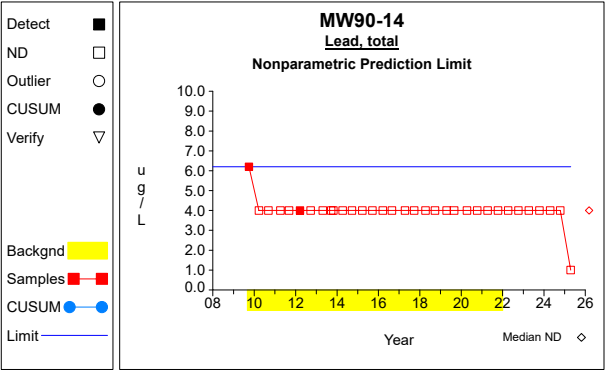
Graph 6



Graph 7

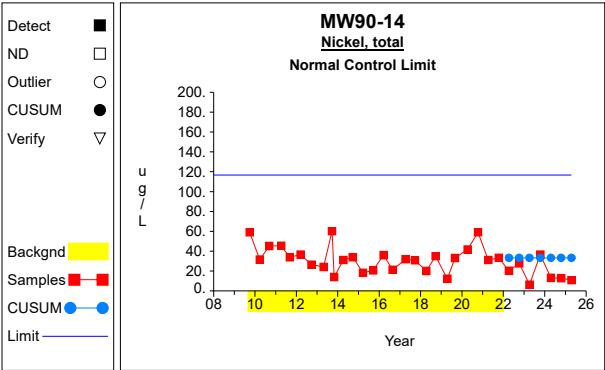


Graph 8

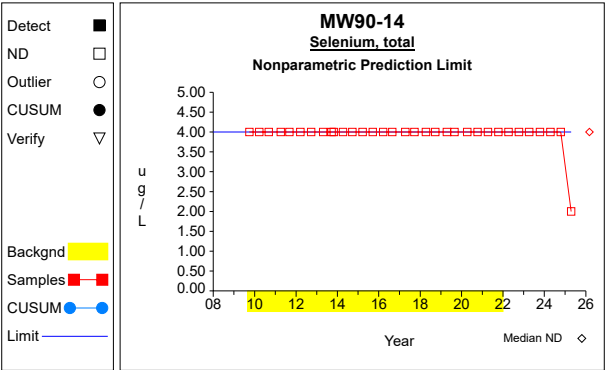


Graph 9

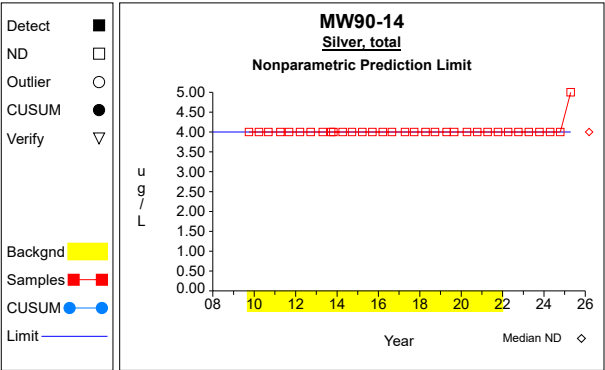
Intra-Well Control Charts / Prediction Limits



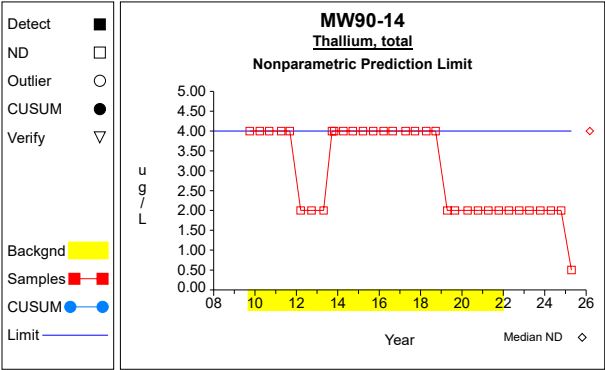
Graph 10



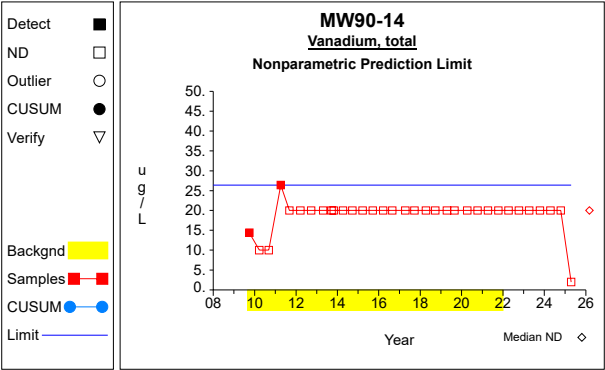
Graph 11



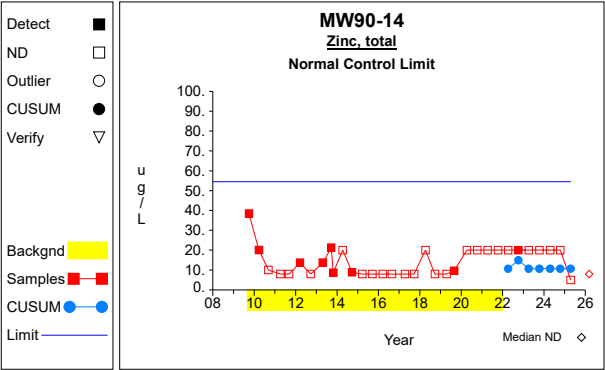
Graph 12



Graph 13

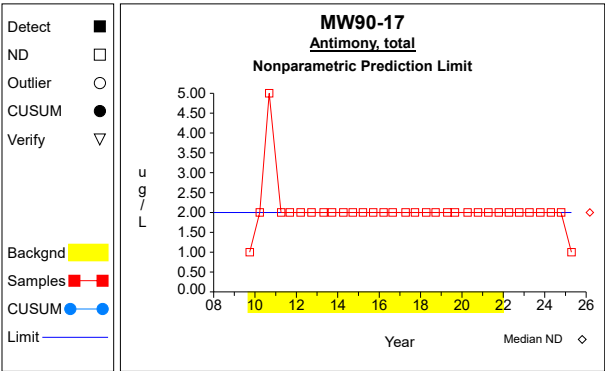


Graph 14

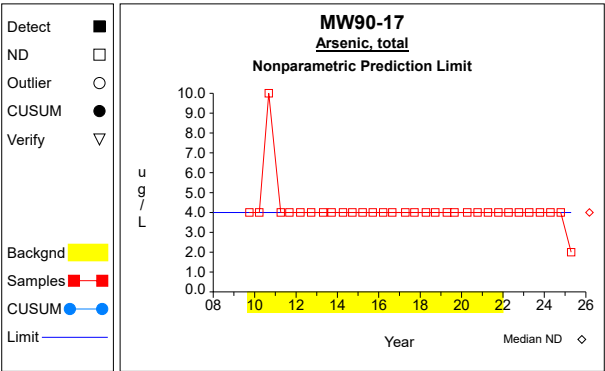


Graph 15

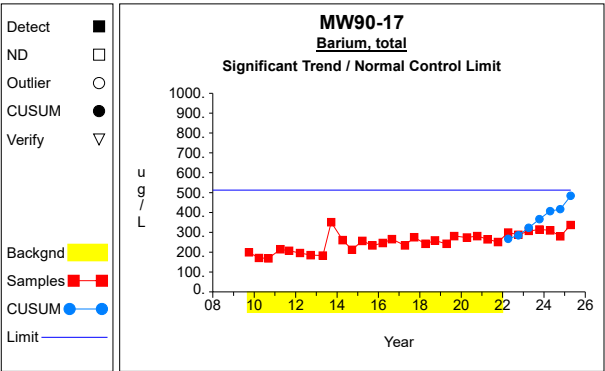
Intra-Well Control Charts / Prediction Limits



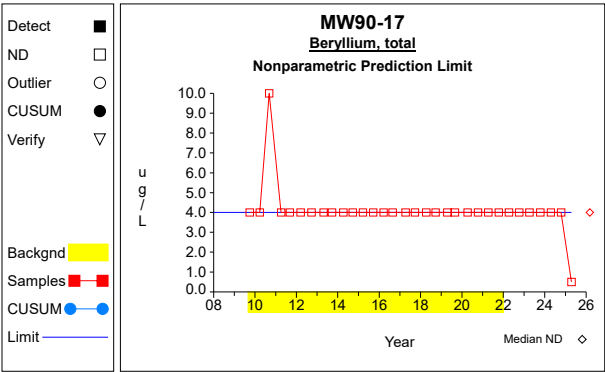
Graph 16



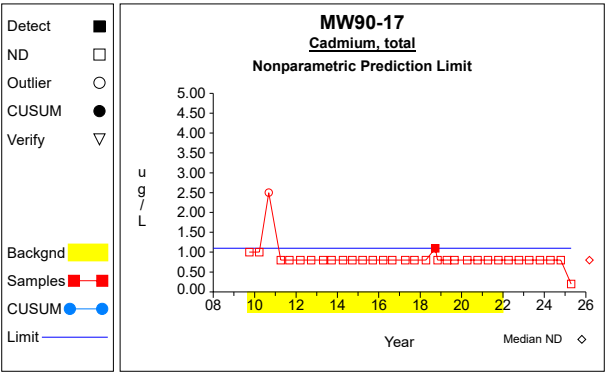
Graph 17



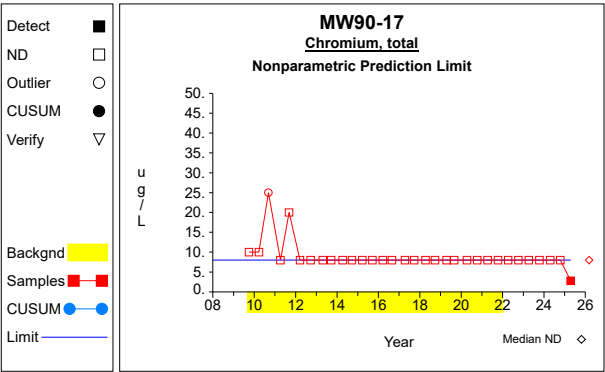
Graph 18



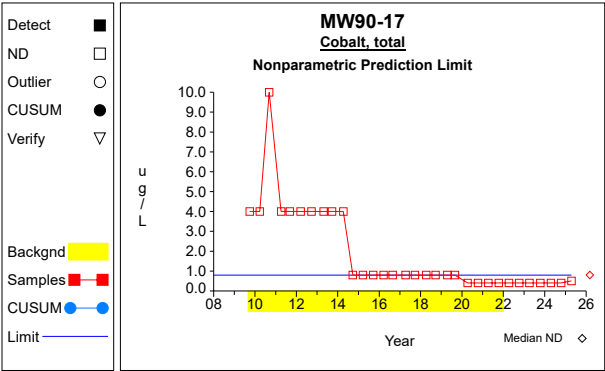
Graph 19



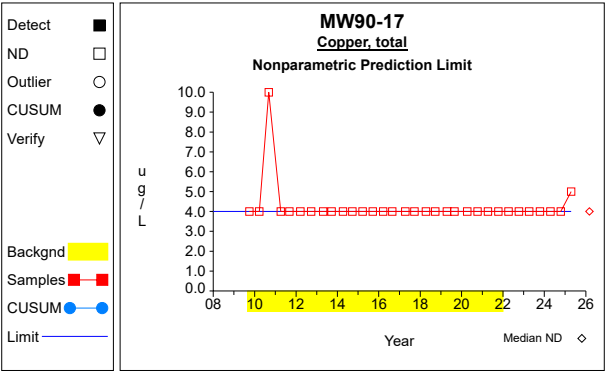
Graph 20



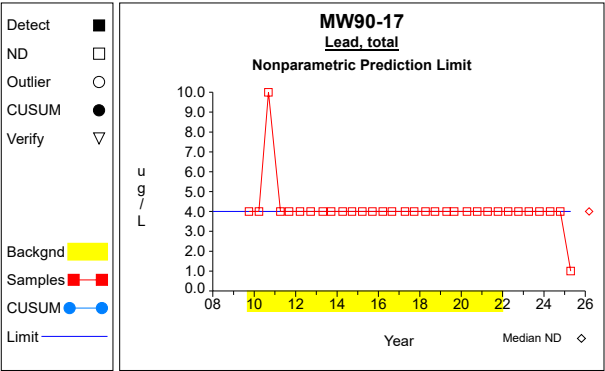
Graph 21



Graph 22

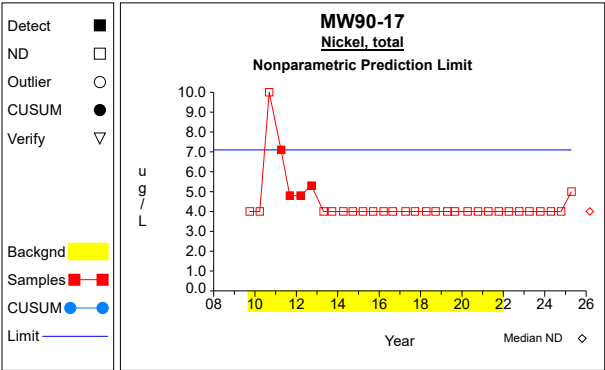


Graph 23

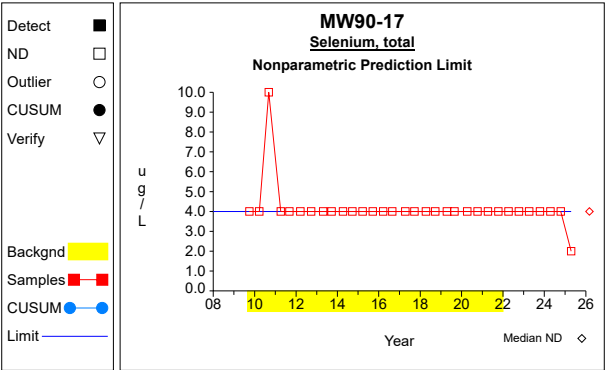


Graph 24

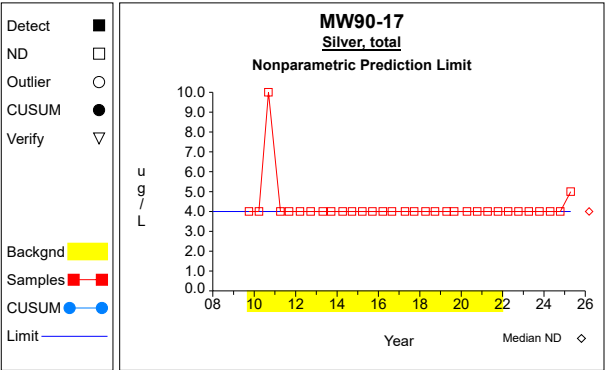
Intra-Well Control Charts / Prediction Limits



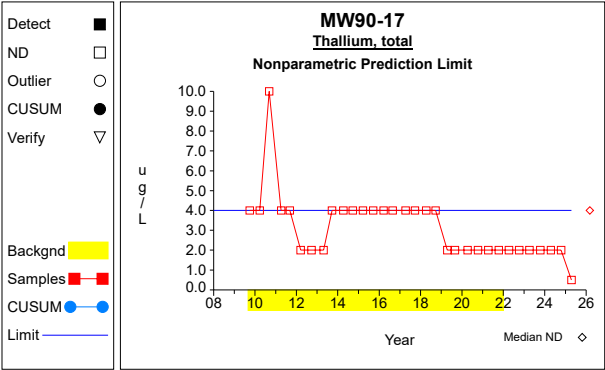
Graph 25



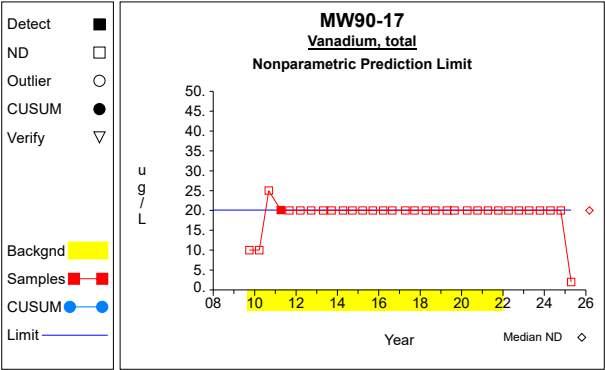
Graph 26



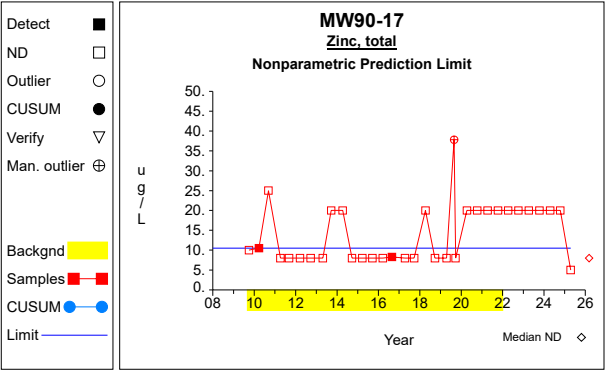
Graph 27



Graph 28

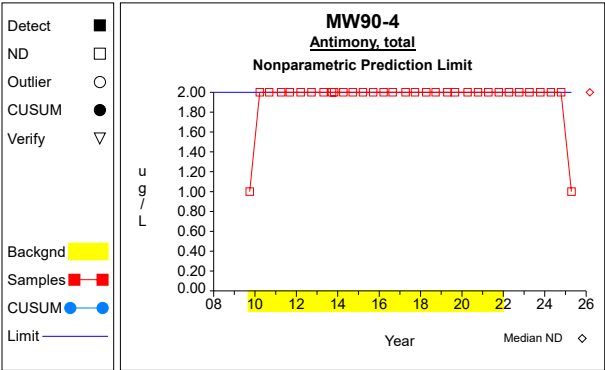


Graph 29

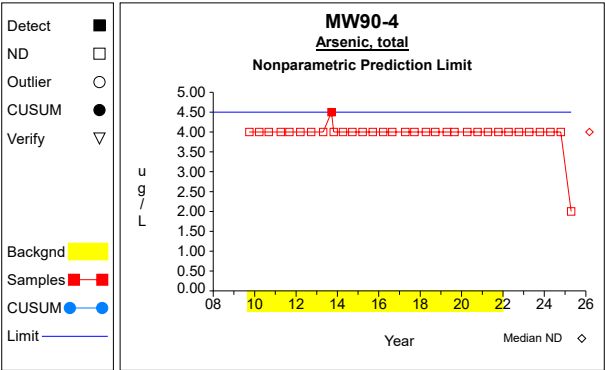


Graph 30

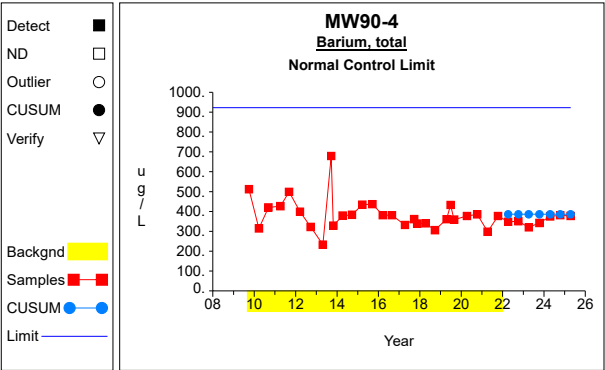
Intra-Well Control Charts / Prediction Limits



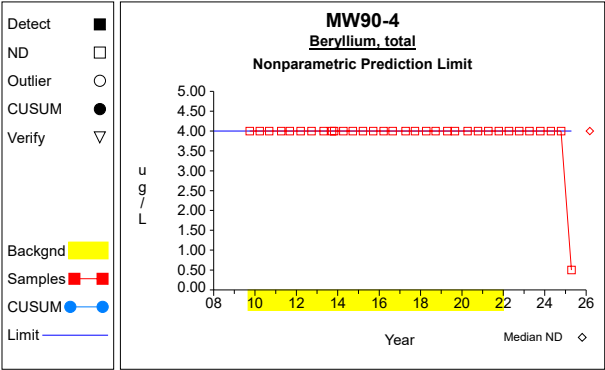
Graph 31



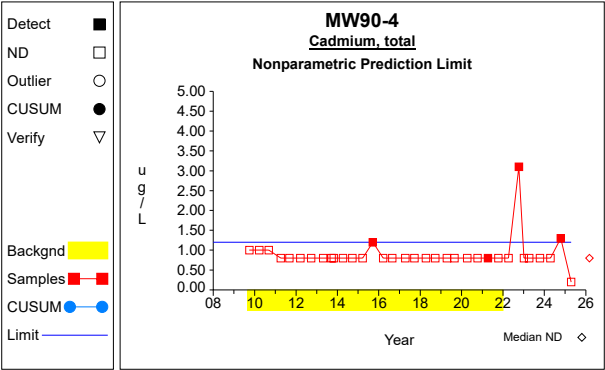
Graph 32



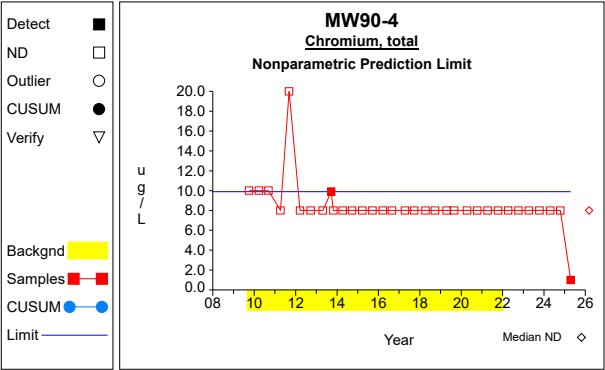
Graph 33



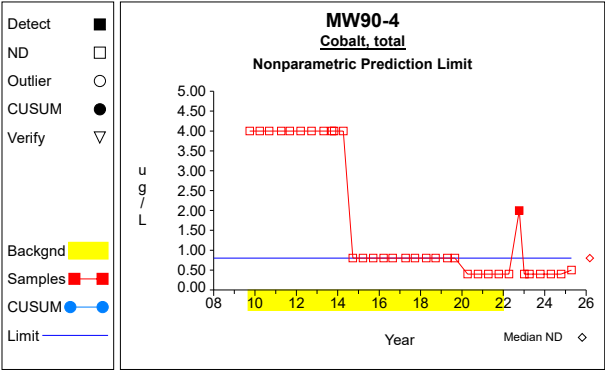
Graph 34



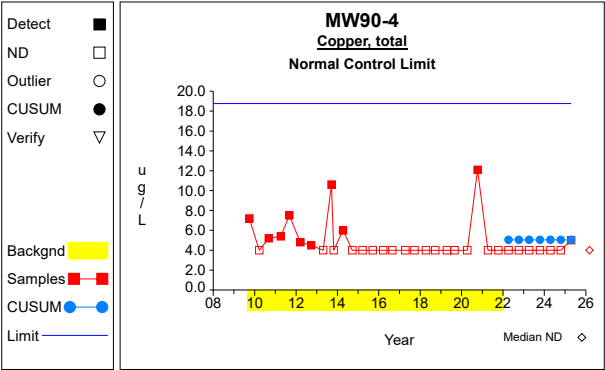
Graph 35



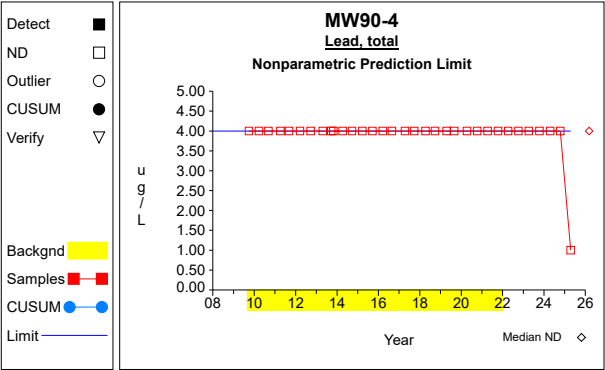
Graph 36



Graph 37

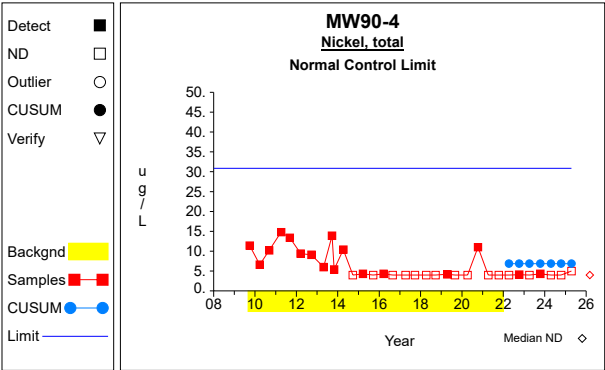


Graph 38

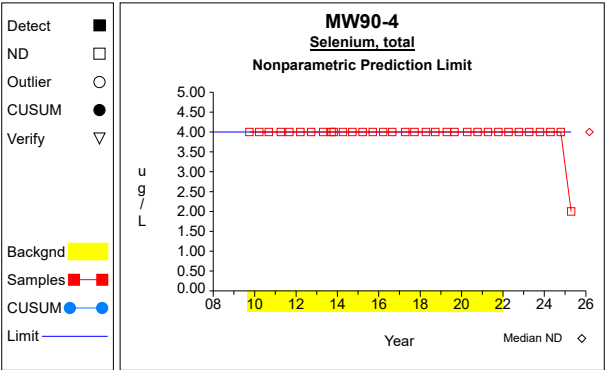


Graph 39

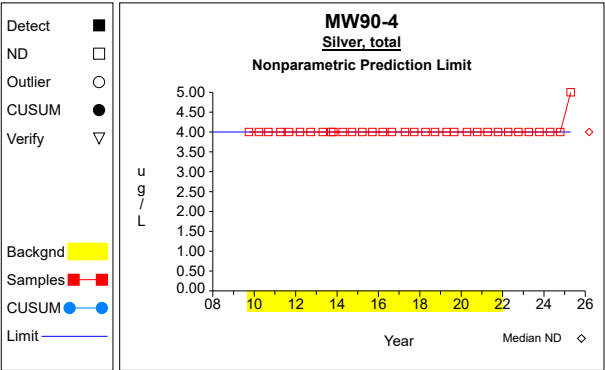
Intra-Well Control Charts / Prediction Limits



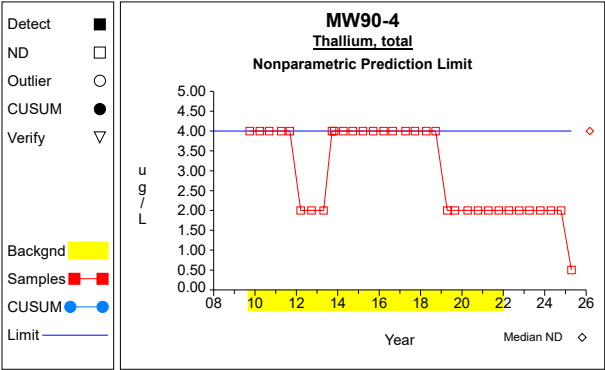
Graph 40



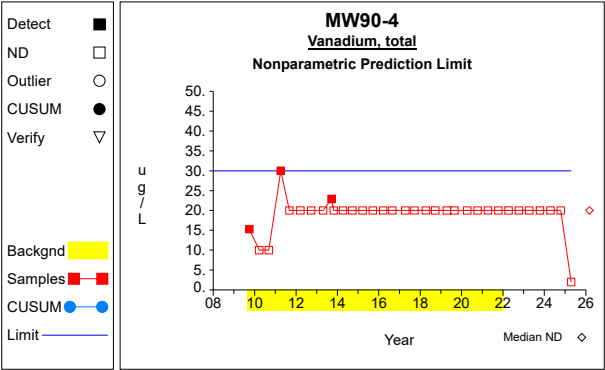
Graph 41



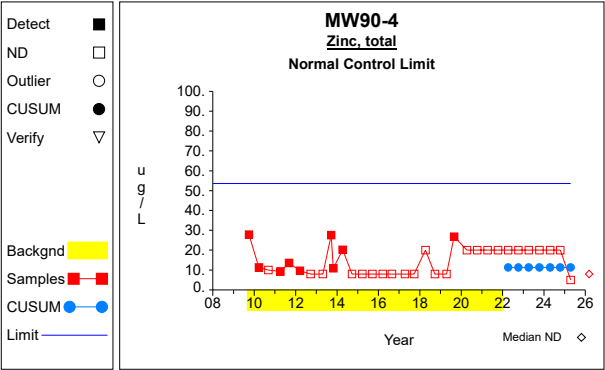
Graph 42



Graph 43

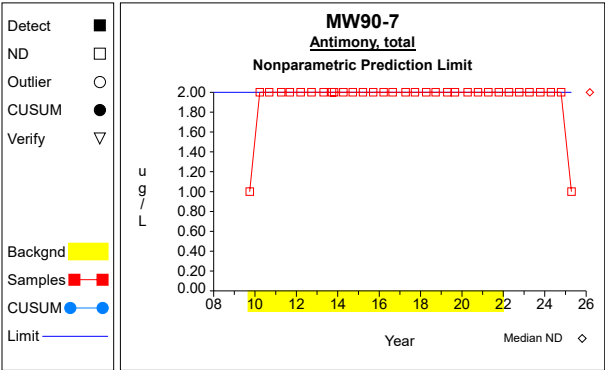


Graph 44

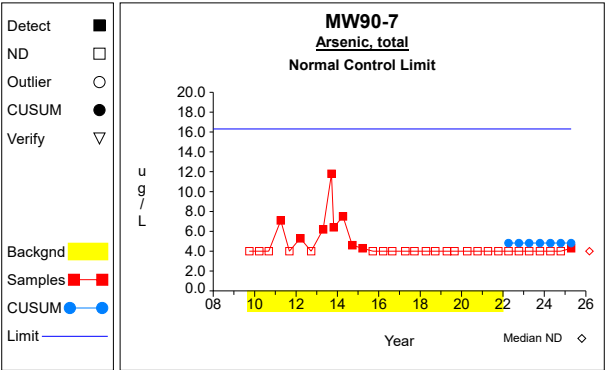


Graph 45

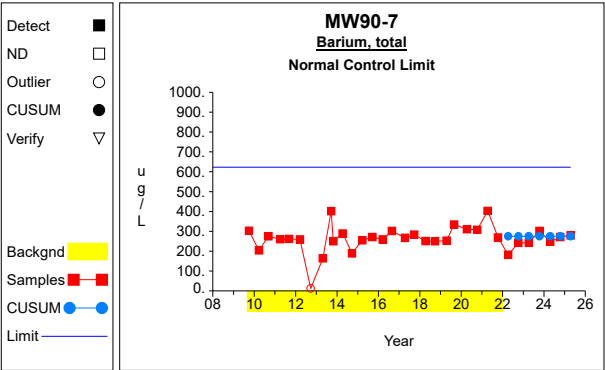
Intra-Well Control Charts / Prediction Limits



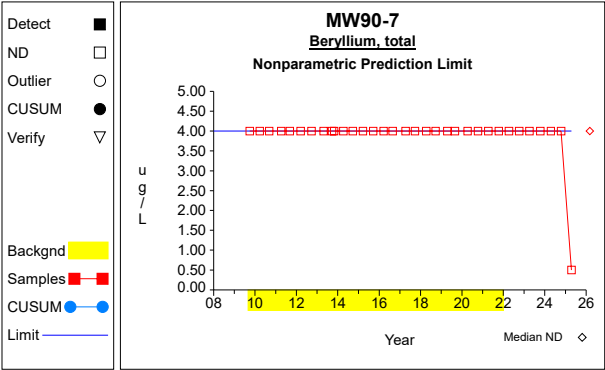
Graph 46



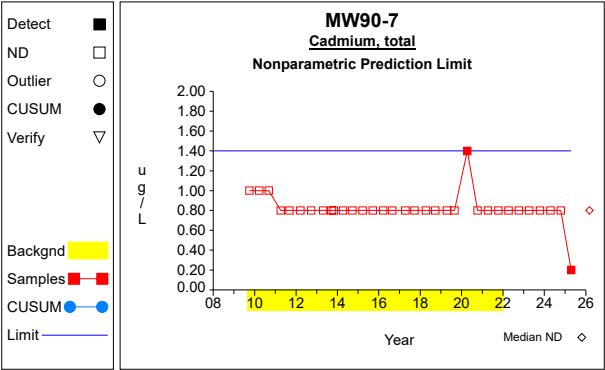
Graph 47



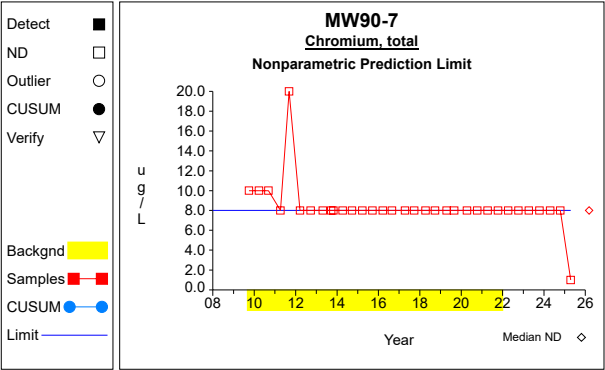
Graph 48



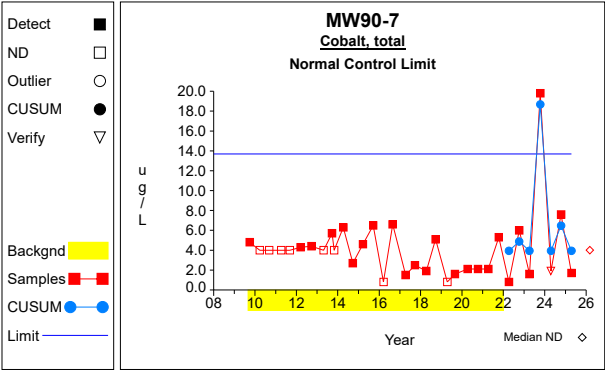
Graph 49



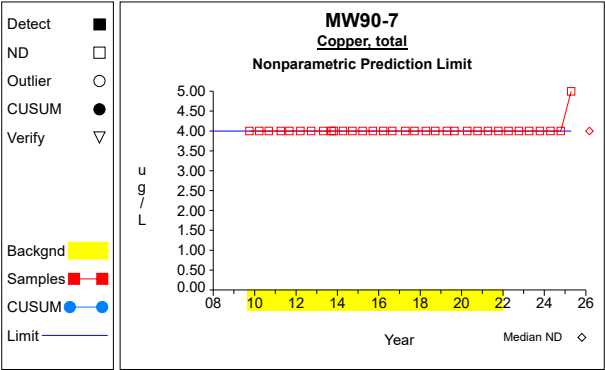
Graph 50



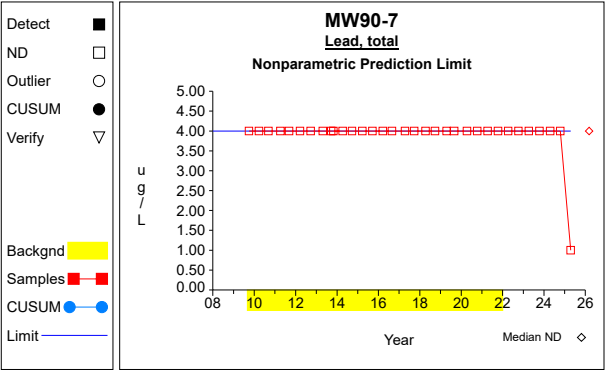
Graph 51



Graph 52

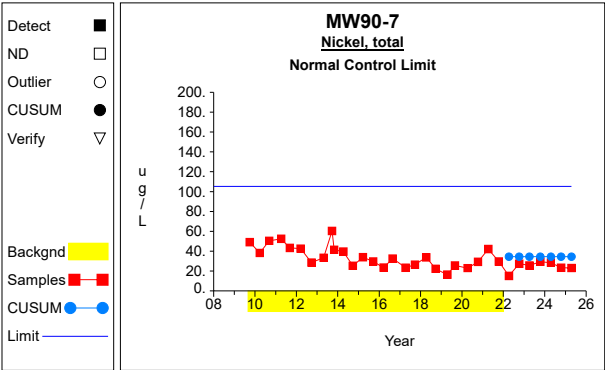


Graph 53

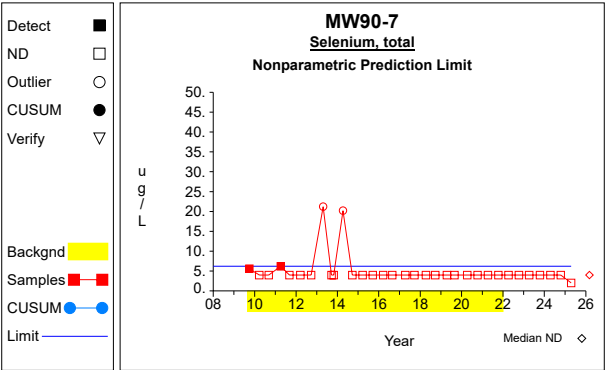


Graph 54

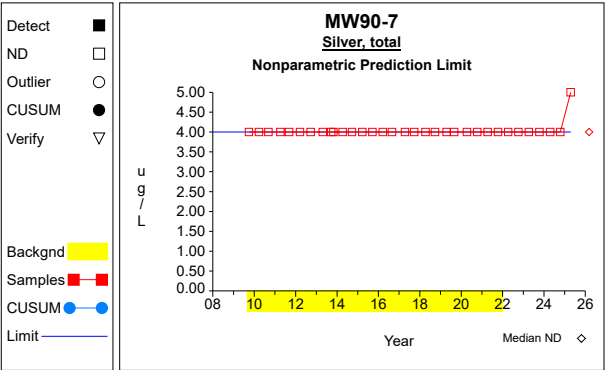
Intra-Well Control Charts / Prediction Limits



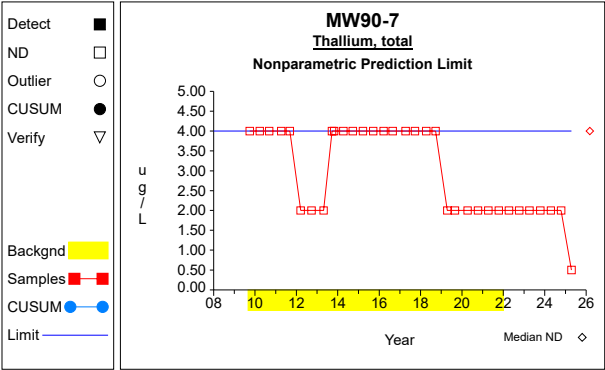
Graph 55



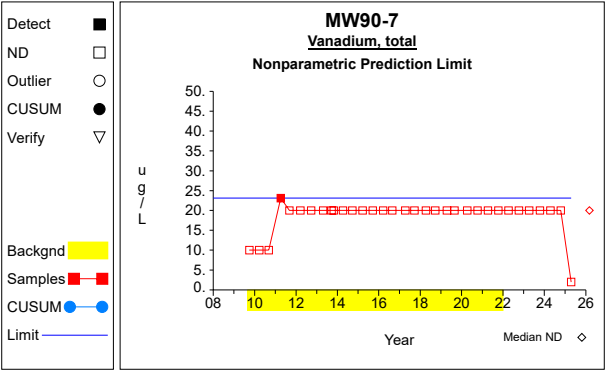
Graph 56



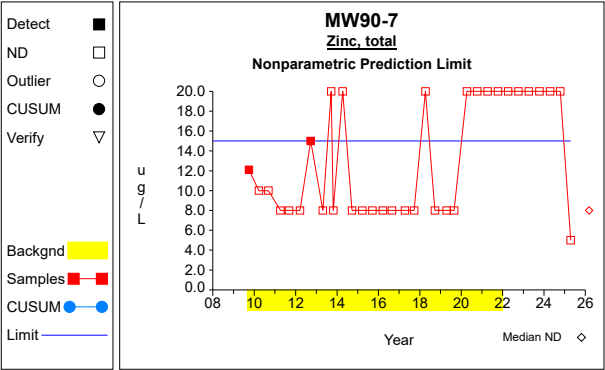
Graph 57



Graph 58

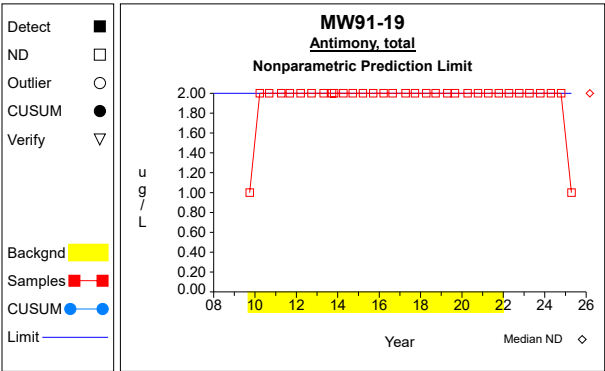


Graph 59

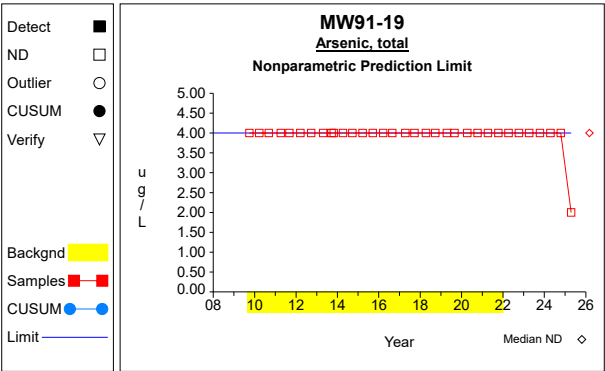


Graph 60

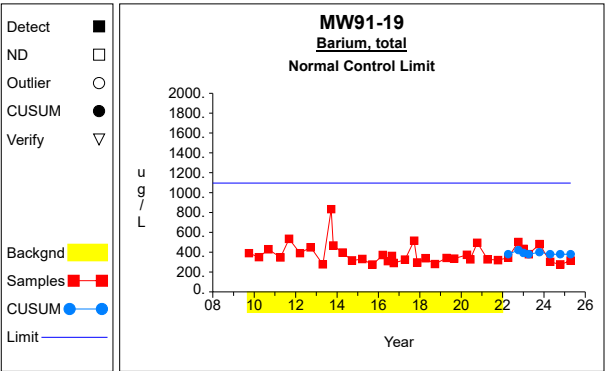
Intra-Well Control Charts / Prediction Limits



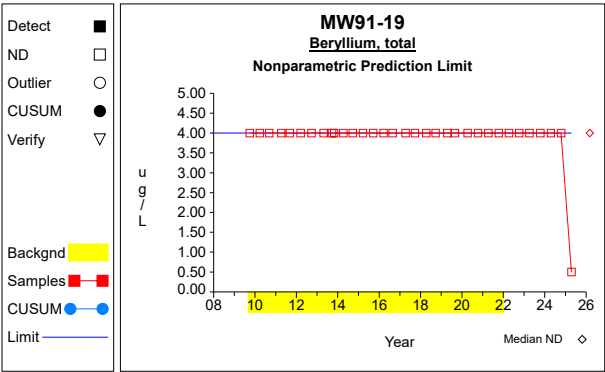
Graph 61



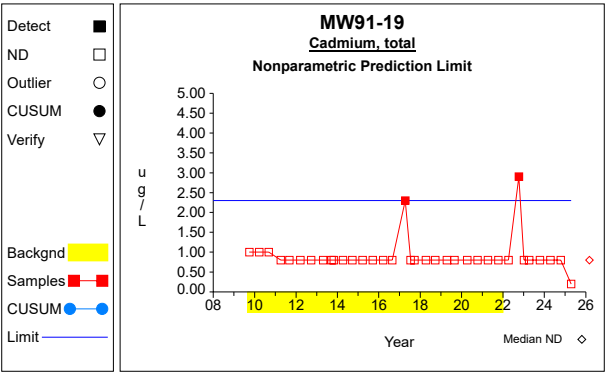
Graph 62



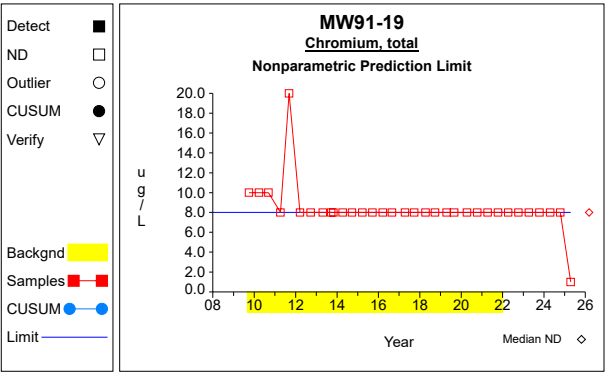
Graph 63



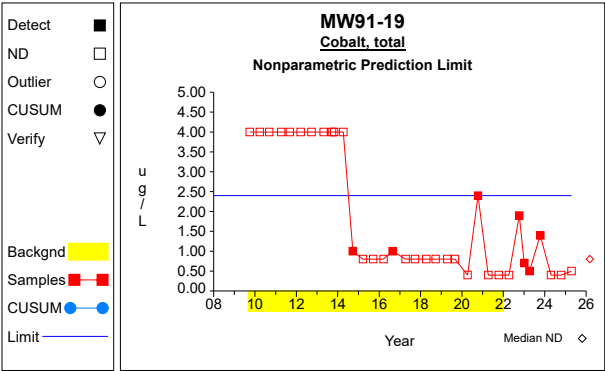
Graph 64



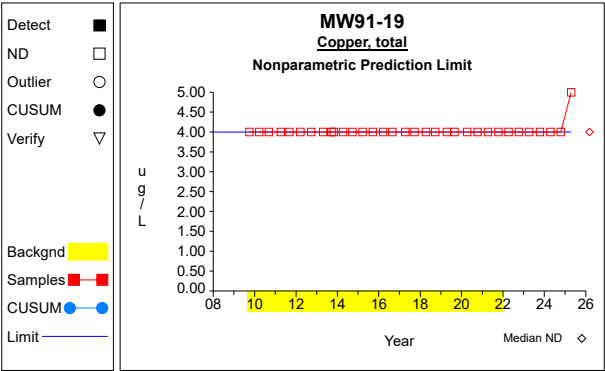
Graph 65



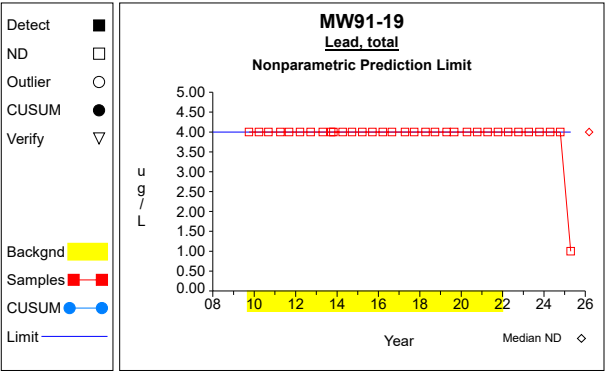
Graph 66



Graph 67

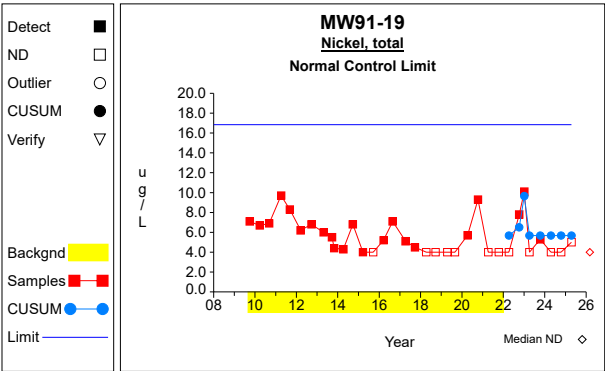


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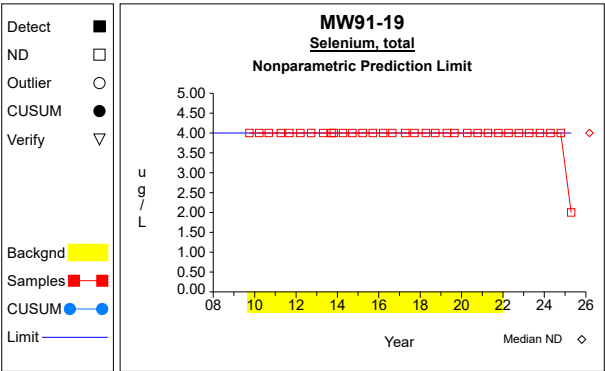


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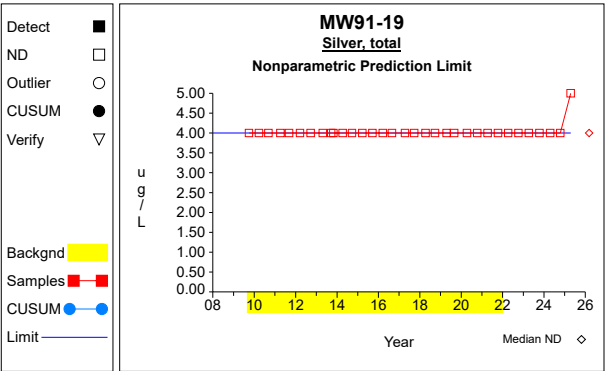
Intra-Well Control Charts / Prediction Limits



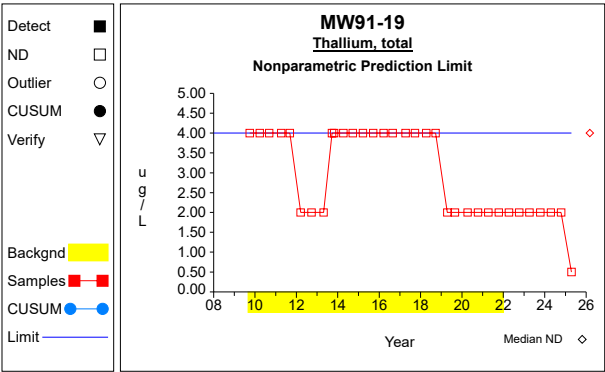
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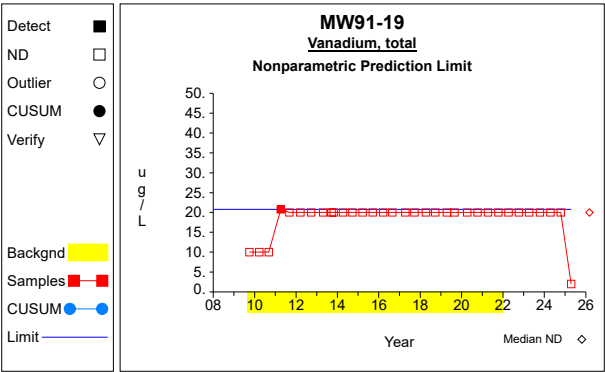
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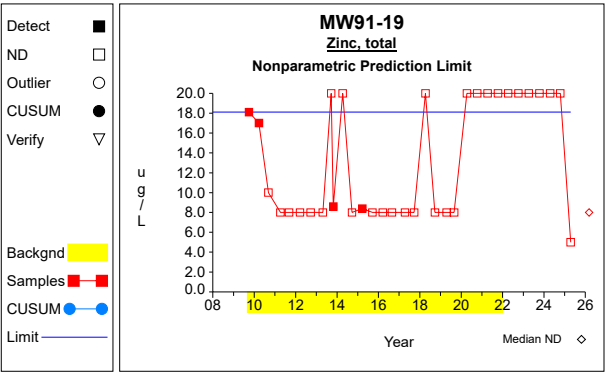
Graph 72



Graph 73

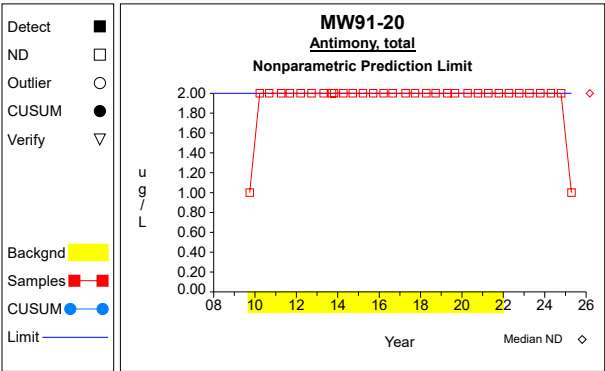


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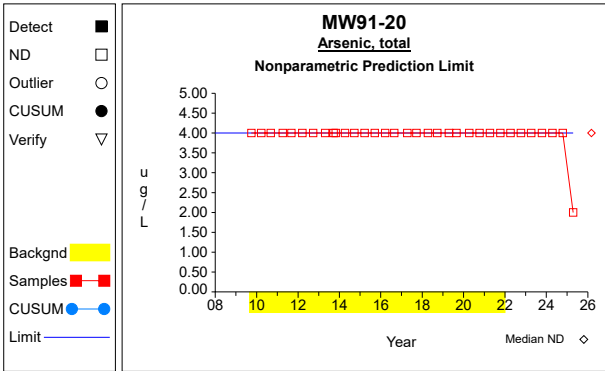


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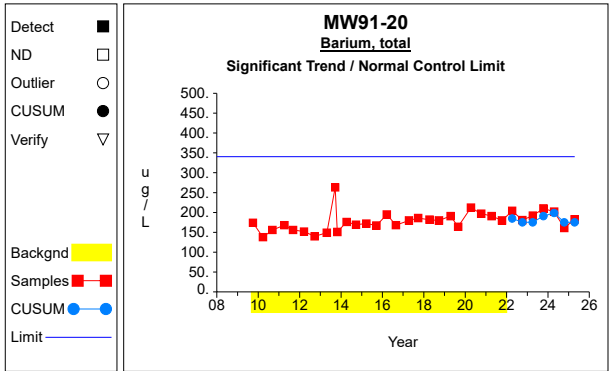
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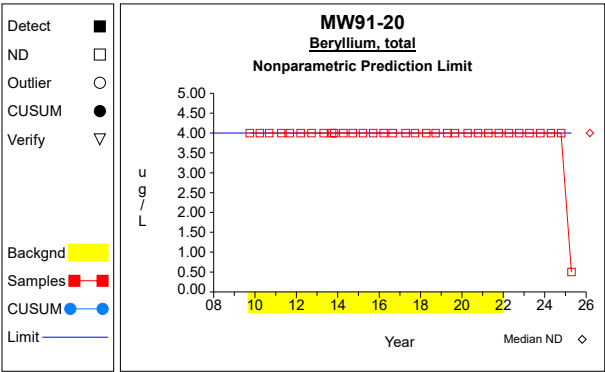
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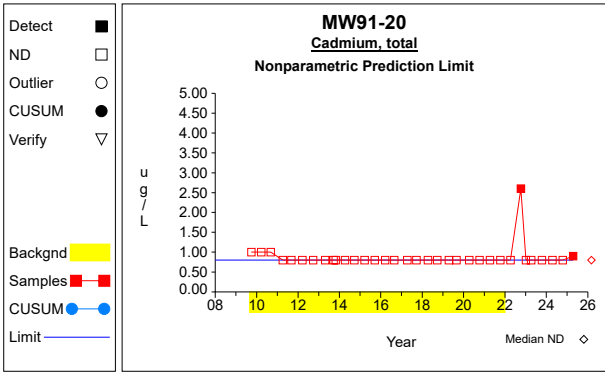
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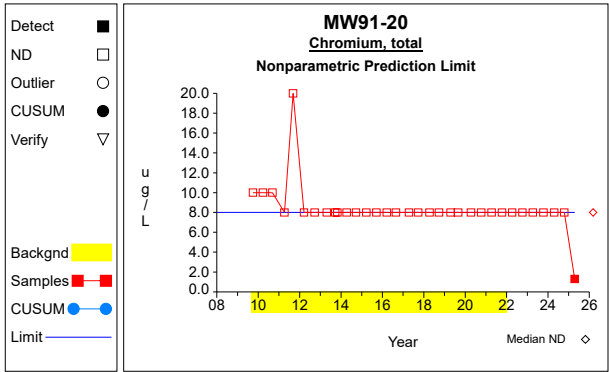
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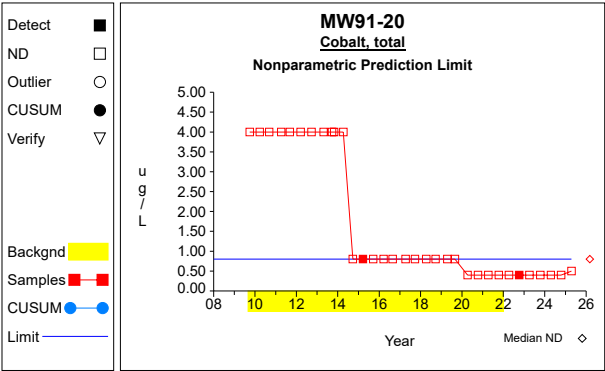
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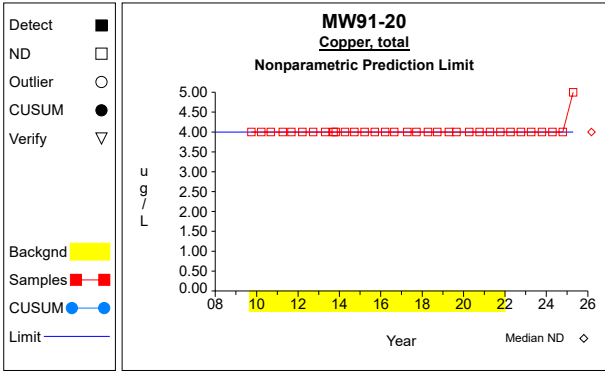
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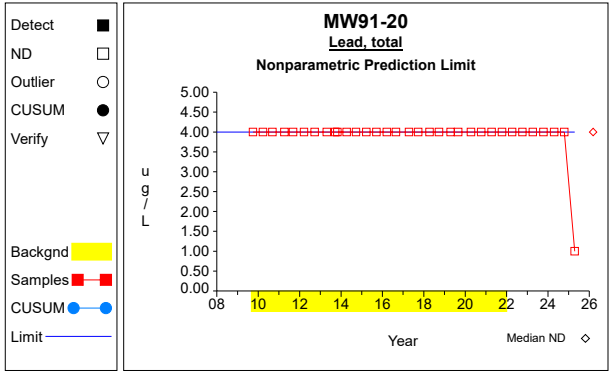
Graph 81



Graph 82

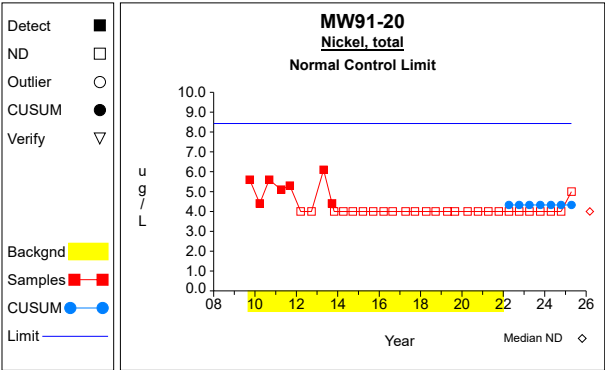


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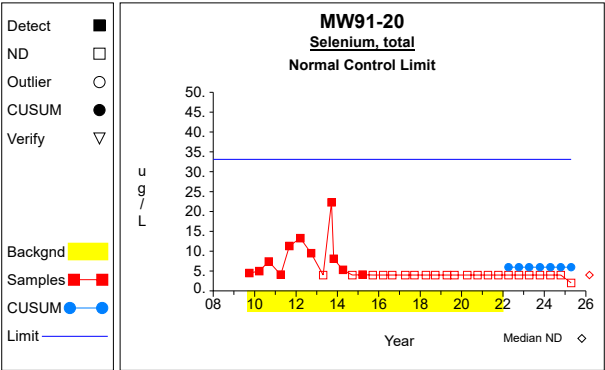


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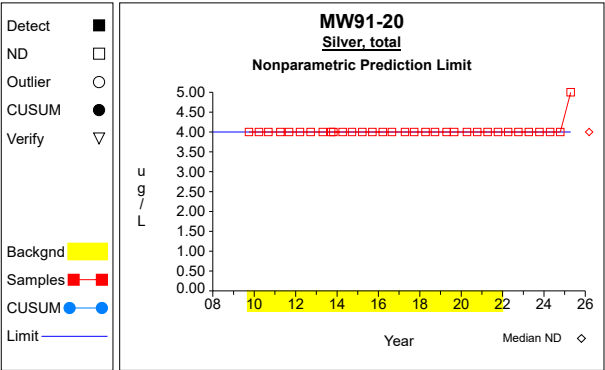
Intra-Well Control Charts / Prediction Limits



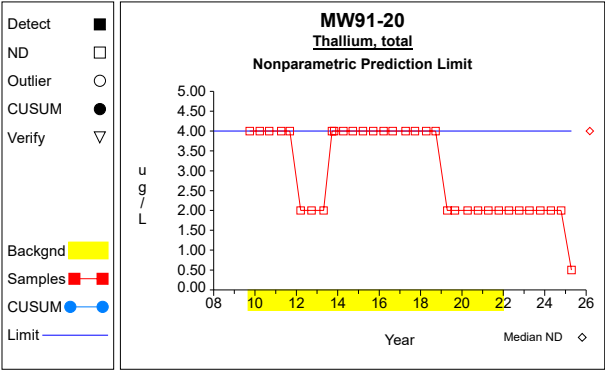
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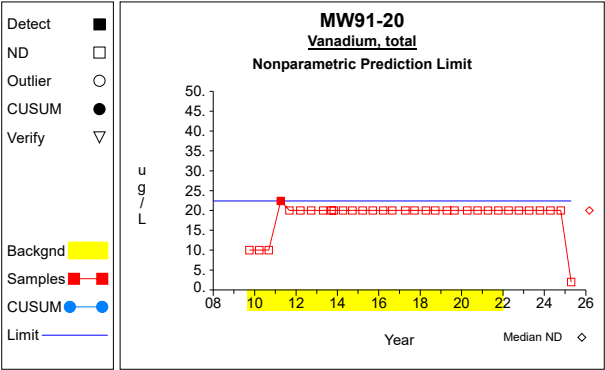
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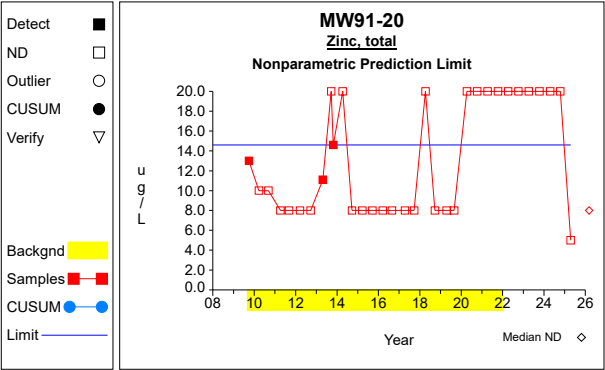
Graph 87



Graph 88

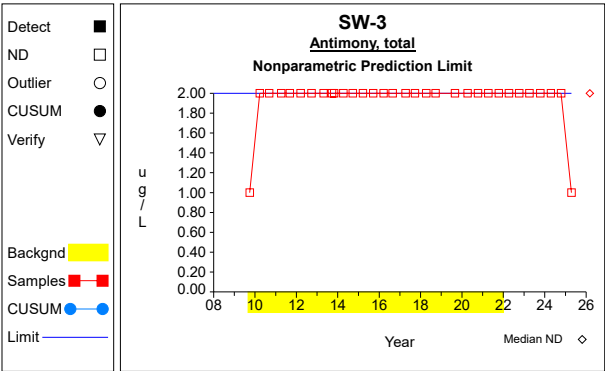


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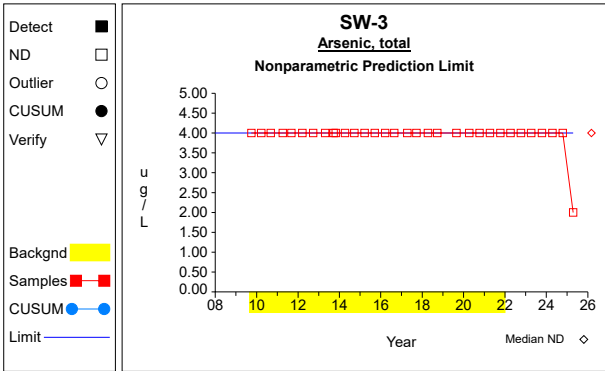


Graph 90

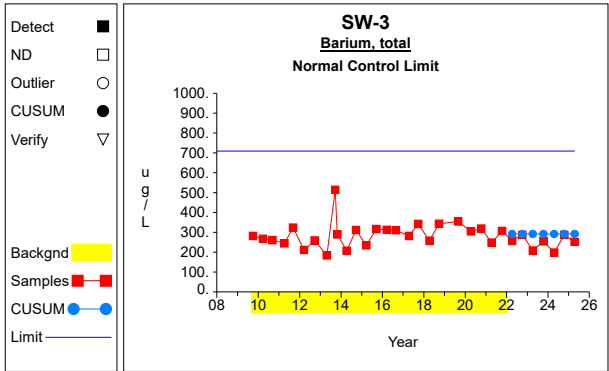
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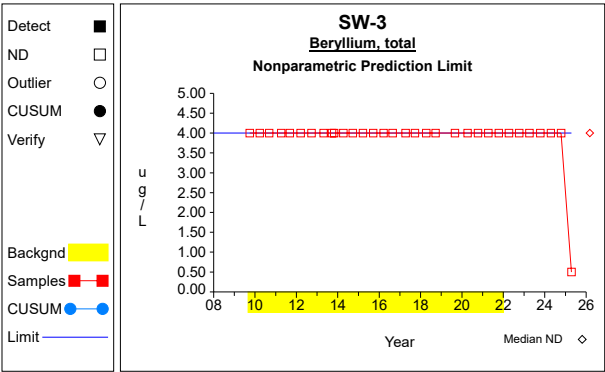
Graph 91



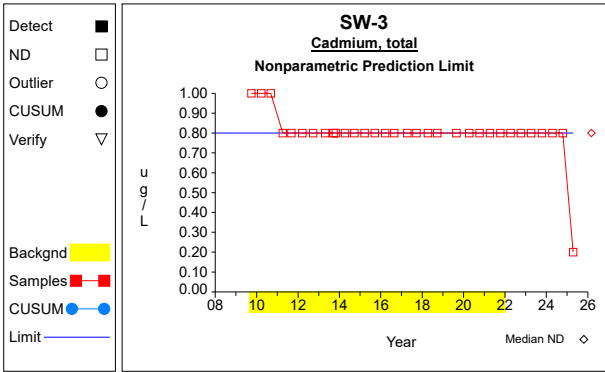
Graph 92



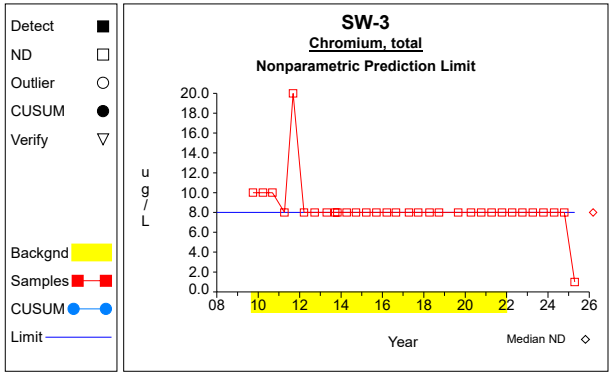
Graph 93



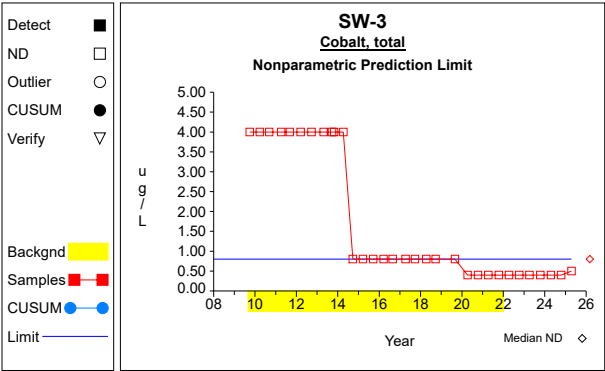
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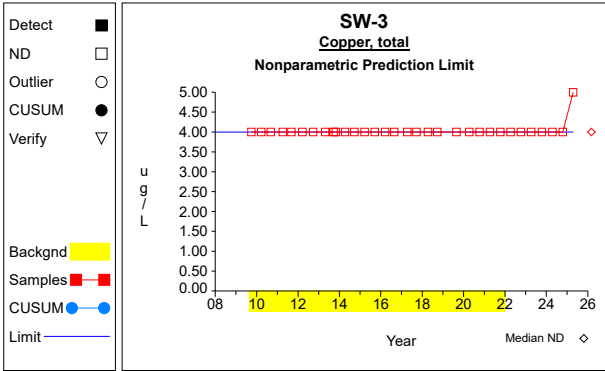
Graph 95



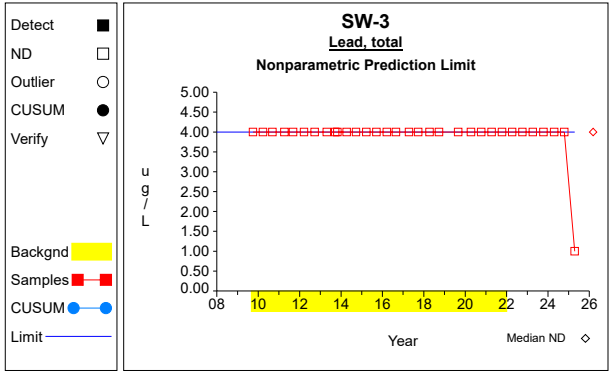
Graph 96



Graph 97

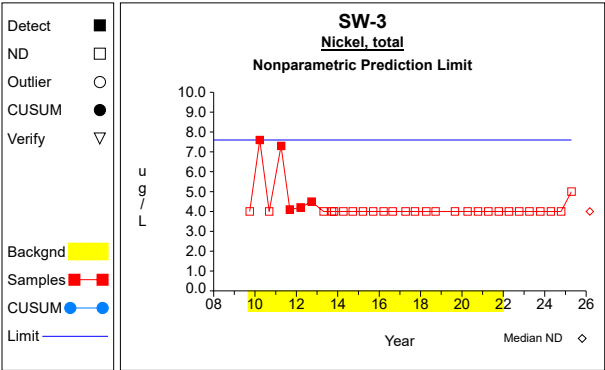


Graph 98

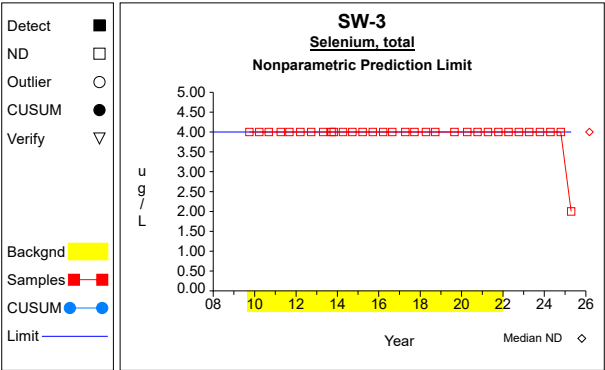


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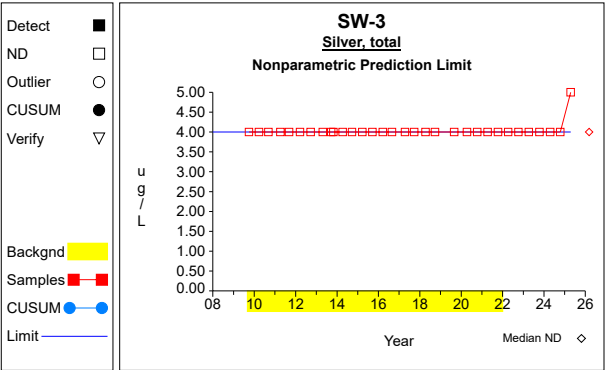
Intra-Well Control Charts / Prediction Limits



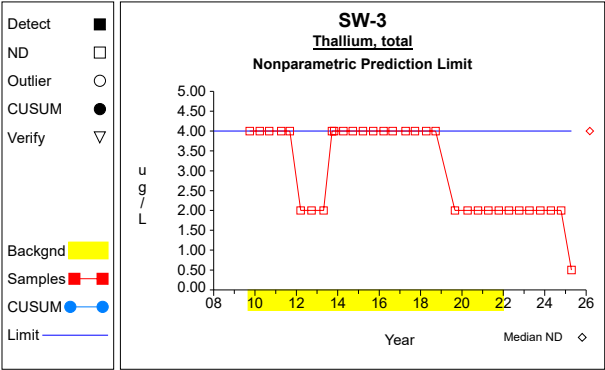
Graph 100



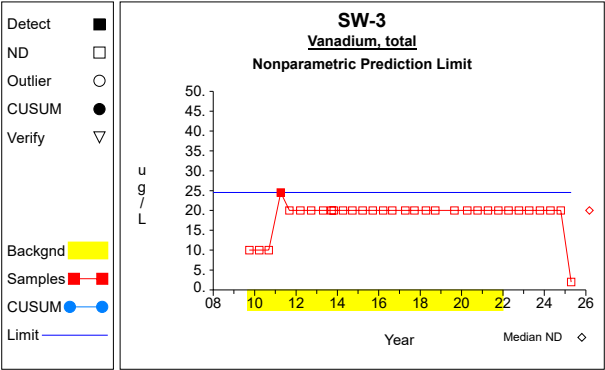
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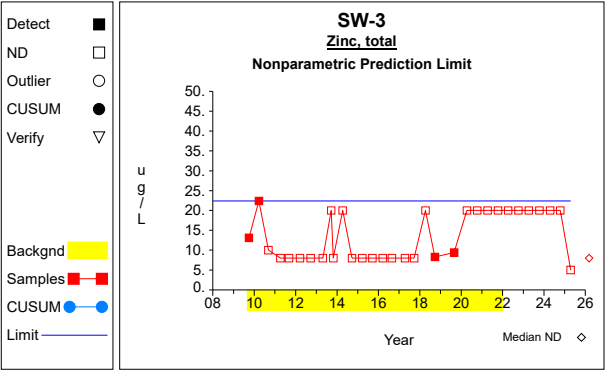
Graph 102



Graph 103

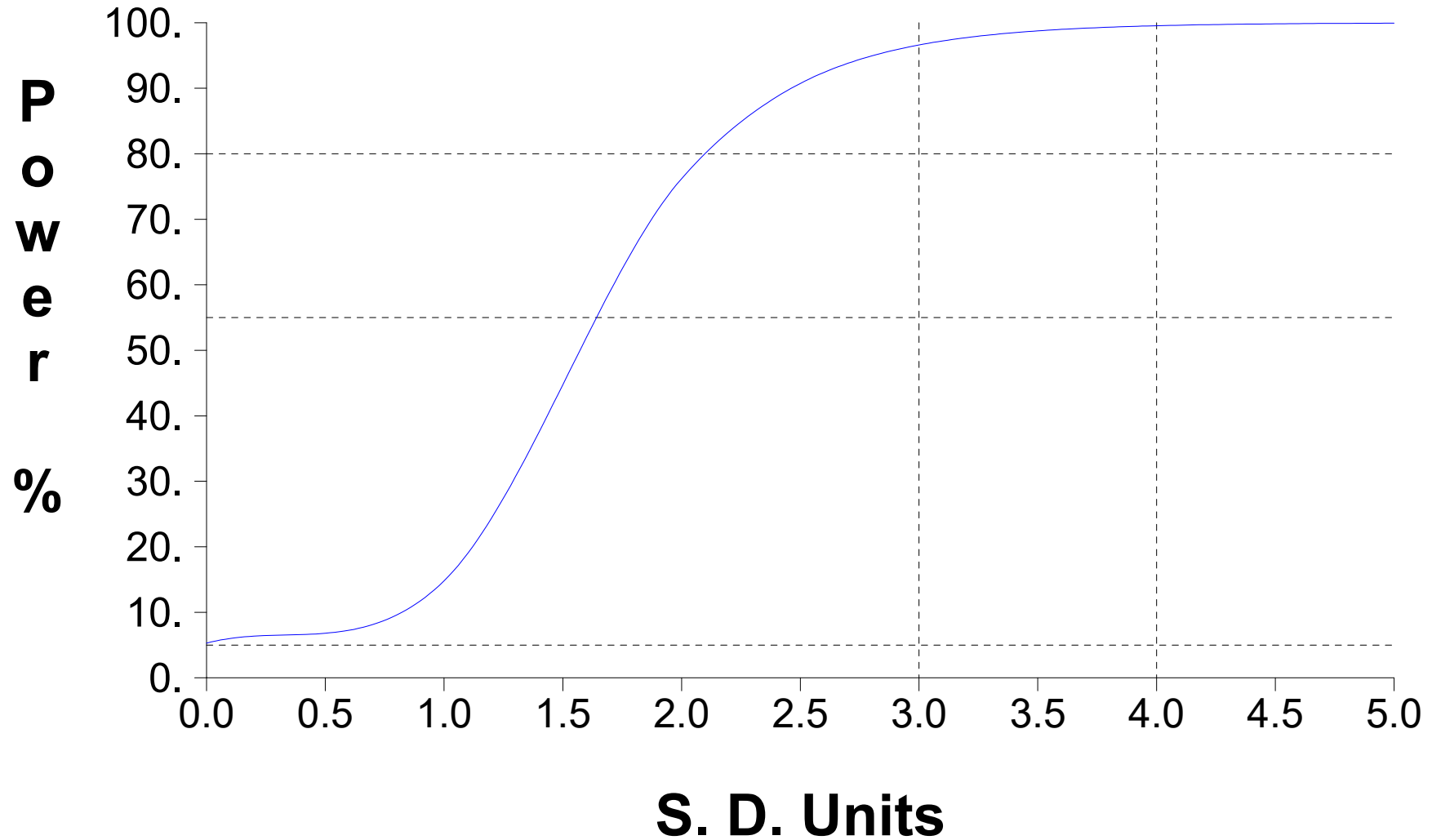


Graph 104



Graph 105

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



Attachment E

Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,1-dichloroethane	MW90-14	9/30/2009		1.4	1.0	ug/L
Acetone	MW90-14	10/16/2008		13.6	10.0	ug/L
Bis(2-ethylhexyl)phthalate	MW90-14	9/24/2018		12	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-14	11/01/2018		21	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-14	4/16/2019		6	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-14	8/29/2019		9	6	ug/L
Chloroethane	MW90-14	9/30/2009		2.2	1.0	ug/L
Acetone	MW90-17	9/23/2017		12.9	10.0	ug/L
Bis(2-ethylhexyl)phthalate	MW90-4	4/09/2021		9	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-4	10/06/2022		14	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	4/16/2019		9	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	6/25/2019		11	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	8/29/2019		15	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	4/10/2020		7	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	4/09/2021		7	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	4/18/2024		18	6	ug/L
Bis(2-ethylhexyl)phthalate	MW91-19	4/18/2024		13	6	ug/L
Acetone	SW-3	9/06/2007		5.42	10.00	ug/L

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

Appendix C.2 – 2nd Semester Statistical Report

Results of the Ground Water Statistics for Audubon County Sanitary Landfill

Second Semi-Annual Monitoring Event in 2025

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December 2025

INTRODUCTION

This report contains the results of the statistical analyses used to evaluate the ground water data obtained during the second semi-annual monitoring event in 2025 at Audubon County Sanitary Landfill in Audubon, Iowa. The ground water at Audubon County Sanitary Landfill is monitored by background well MW90-17 and compliance wells MW90-4, MW90-7, MW90-14, MW91-19, MW91-20, and SW-3. These monitoring wells were sampled on October 27, 2025 and analyzed for the parameters required by permit.

The statistical plan is designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. Both interwell and intrawell methodologies are described and then applied to the Audubon County Sanitary 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 Audubon County Sanitary Landfill includes upgradient well MW90-17 and compliance wells MW90-4, MW90-7, MW90-14, MW91-19, MW91-20, and SW-3. 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 below.

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

Organic Compounds:

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

Inorganic constituents:

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

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

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

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

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

Interwell Statistics: Upgradient versus Downgradient Comparisons

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

Results of the Interwell Statistics

The background data used in this statistical analysis includes the ground water data collected from ground water well MW90-17 during the period from September 2009 through the current data. A summary of the background data from monitoring well MW90-17 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 MW90-4, MW90-7, MW90-14, MW91-19, MW91-20 and SW-3, compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the most current data, the site prediction limit exceedances detected are summarized in the table below.

**Trace Metal Prediction Limit Exceedances at Audubon County Landfill
during the Second Semi-Annual Monitoring Event in 2025**

Well	Trace Metal Detected	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting verification
MW90-14	Cadmium	1.4	1.1000	Nonparametric	Verified
	Nickel	17.6	7.1000	Nonparametric	Verified
MW90-4	Barium	403	374.2359	Normal	Verified
MW90-7	Cobalt	3.3	0.8000	Nonparametric	Verified
	Nickel	22.4	7.1000	Nonparametric	Verified
MW91-19	Cobalt	3.0	0.8000	Nonparametric	Awaiting verification

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. Only barium was detected at a frequency greater than or equal to 50% in the upgradient well so only this metal was tested for normality. The remainder of the metals are rarely detected (less than 50%) in the upgradient wells so nonparametric prediction limits were be used in those cases.

Table 4 summarizes the results of the Shapiro-Wilk test. Table 5 is a summary of the statistics and prediction limits determined for the metals. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

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

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

The calculated 95% LCLs are below the respective USEPA MCLs or Iowa statewide standards.

Intrawell statistics

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

The most useful technique for intrawell comparisons is the combined Shewhart-CUSUM control chart. This control chart procedure is useful because it will detect releases both in terms of the constituent concentration and cumulative increases. This method is also extremely sensitive to sudden and gradual releases. A requirement for constructing these control charts is that the parameter is detected at a frequency greater than or equal to 25%, otherwise the data variance is not properly defined.

The combined Shewhart-CUSUM control chart assumes that the data are independent and normally distributed with a fixed mean and a constant variance. Independent data is much more critical than the normality assumption. To achieve independence, it is recommended that data are collected no more frequently than quarterly to account for seasonal variation. The combined Shewhart-CUSUM control chart is extremely robust to deviations from normality. Because the control charts do not use a specific multiplier based on a normal distribution, it is more conservative to assume normality.

It is recommended that at least eight rounds of data be available to provide a reliable estimate of the mean and standard deviation of the parameter concentration, although the control charts will be generated with as few as four data points. Having only four data points may produce greater uncertainty in the mean and standard deviation of the background data, leading to higher control limits, thus having a potentially high false negative rate.

Many groundwater monitoring parameters are not detected at a frequency great enough to generate the combined Shewhart-CUSUM control charts. For constituents that are detected less than 25% of the time at a particular well, the data should be plotted as a time series until a sufficient number of data points are available to provide a 99% confidence nonparametric prediction limit. Thirteen independent measurements (with 1 resample) are necessary to achieve a 99% confidence (1% false positive rate) nonparametric prediction limit. Eight independent measurements (for pass 1 of 2 resamples) are necessary to achieve a 99% confidence nonparametric prediction limit. The nonparametric prediction limit is the largest determination out of the data set collected for that well and parameter. If the detection frequency is 0% after thirteen samples have been collected, the practical quantitation limit (PQL) becomes the nonparametric prediction limit.

In developing the statistical background, the historical data must be thoroughly screened for anomalous data due to sampling error, analytical error, or simply by chance alone. An erroneous data point, if not removed prior to the mean and variance computations, would yield a larger control limit thus increasing the false negative rate. The DUMPStat[®] program screens for outliers using the Dixon test. Anomalous data will still be plotted on the graphs (with a unique symbol) but will not be included in the calculations.

The verification resample plan is an integral function of the statistical plan to reduce the probability that anomalous data obtained after the background has been established, is indicative of a landfill release.

The background data for each well and constituent is tested for existing trends using Sen's nonparametric estimate of trend. If contamination exists prior to completing the background, the control limits could be potentially high and this control chart method would not be able to detect an increasing trend unless the increase is severe.

Results of the Intrawell Statistics

The Appendix I trace metals data from wells MW90-17, MW90-4, MW90-7, MW90-14, MW91-19, MW91-20, and SW-3 were evaluated using the combined Shewhart-CUSUM control chart method. The previous background included historical data obtained from September 2009 through 2019.

As ground water monitoring at a municipal solid waste facility proceeds, it is recommended to update background data sets periodically with valid detection monitoring results that are representative of background groundwater quality not affected by leakage from a monitored unit. Failure to update background will exclude factors such as natural temporal variation, changes in field or laboratory methodologies, and changes in the water table due to meteorological conditions or other influences. Since there were no exceedances attributed to the landfill, the background was updated to included data obtained from September 2009 through 2021.

A summary of the intrawell statistics is included in Attachment D, Table 1 “Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts.” The control charts or time series graphs follow the summary table. For the most current data, the control limit exceedances detected are summarized in the table below.

Summary of Control Limit Exceedances for the Second Semi-Annual Monitoring Event in 2025

Well	Parameter	Result	CUSUM Value	Control Limit	Control Limit Type	Verified or Awaiting Verification
MW90-17	Barium, µg/L	321	534.9234	512.7530	Normal	Awaiting Verification
	Zinc, µg/L	33.7	--	10.5000	Nonparametric	Awaiting Verification
MW91-19	Cobalt, µg/L	3.0	--	2.4000	Nonparametric	Awaiting Verification

Increasing trends were detected in the background data for barium at upgradient well MW90-17 and barium at MW91-20.

A control chart factor was selected to provide a balance of the site-wide false positive and false negative rates. A statistical power curve indicates the expected false assessments for the site as a whole. The site-wide false positive rate is 5% and the test becomes sensitive to 4 standard deviation units over background.

Volatile Organic Compounds

Volatile Organic Compounds (VOCs) are generally man-made compounds not present in ambient ground water. If VOCs are detected above their statistical limit (i.e., the laboratory PQL or reporting limit), a verification resample will be conducted at the next scheduled sampling event. A statistical exceedance will be indicated if the VOC detection is confirmed by the subsequent monitoring. VOCs detected in the samples obtained during the second semi-annual monitoring event in 2025 are summarized in the table below.

Organic compounds detected during the second semi-annual monitoring event in 2025

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Groundwater Standard, µg/L
MW90-17	Carbon disulfide	4.0	1	Awaiting Verification	700 ^b
MW91-20	Carbon disulfide	2.1	1	Awaiting Verification	700 ^b

a - USEPA MCL

b – Iowa Statewide Standard

Historical VOC detections are summarized in Attachment E.

Attachment A

Ground Water Data obtained during the Second Semi-Annual Monitoring Event in 2025

Table 1

Analytical Data Summary for 10/27/2025

Constituents	Units	MW90-14	MW90-17	MW90-4	MW90-7	MW91-19	MW91-20	SW-3
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	ug/L	<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 (edb)	ug/L	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<10	<10	<10	<10	<10	<10	<10
2-hexanone	ug/L	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<1	<1	<1	<1	<1	<1	<1
Arsenic, total	ug/L	<2.0	<2.0	<2.0	3.2	<2.0	<2.0	<2.0
Barium, total	ug/L	261	321	403	259	351	184	301
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5
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	1.4	<2	.6	<2	.2	<2	<2
Carbon disulfide	ug/L	<1.0	4.0	<1.0	<1.0	<1.0	2.1	<1.0
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	<1.0	2.8	1.1	<1.0	1.4	1.4	<1.0
Cis-1,2-dichloroethene	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	<.5	<.5	<.5	3.3	3.0	<.5	<.5
Copper, total	ug/L	<5	<5	<5	<5	<5	<5	<5
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	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	17.6	<5.0	<5.0	22.4	<5.0	<5.0	<5.0
Selenium, total	ug/L	<2	<2	<2	<2	<2	<2	<2
Silver, total	ug/L	<5	<5	<5	<5	<5	<5	<5
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethene	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
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<2	<2	<2	<2	<2	<2	<2
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	7.8	33.7	8.2	<5.0	6.9	7.2	<5.0

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW90-17	09/30/2009	ND	1.0000	2.0000	**
Antimony, total	ug/L	MW90-17	03/23/2010	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/07/2010	ND	5.0000	2.0000	**
Antimony, total	ug/L	MW90-17	04/05/2011	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/06/2011	ND	2.0000		
Antimony, total	ug/L	MW90-17	03/16/2012	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/24/2012	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/24/2013	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/20/2013	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/08/2014	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/22/2014	ND	2.0000		
Antimony, total	ug/L	MW90-17	03/20/2015	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/17/2015	ND	2.0000		
Antimony, total	ug/L	MW90-17	03/17/2016	ND	2.0000		
Antimony, total	ug/L	MW90-17	08/26/2016	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/11/2017	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/23/2017	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/10/2018	ND	2.0000		
Antimony, total	ug/L	MW90-17	09/24/2018	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/16/2019	ND	2.0000		
Antimony, total	ug/L	MW90-17	08/29/2019	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/10/2020	ND	2.0000		
Antimony, total	ug/L	MW90-17	10/09/2020	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/09/2021	ND	2.0000		
Antimony, total	ug/L	MW90-17	10/11/2021	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/07/2022	ND	2.0000		
Antimony, total	ug/L	MW90-17	10/06/2022	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/05/2023	ND	2.0000		
Antimony, total	ug/L	MW90-17	10/13/2023	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/18/2024	ND	2.0000		
Antimony, total	ug/L	MW90-17	10/15/2024	ND	2.0000		
Antimony, total	ug/L	MW90-17	04/16/2025	ND	1.0000	2.0000	**
Antimony, total	ug/L	MW90-17	10/27/2025	ND	1.0000	2.0000	**
Arsenic, total	ug/L	MW90-17	09/30/2009	ND	4.0000		
Arsenic, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/07/2010	ND	10.0000	4.0000	**
Arsenic, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Arsenic, total	ug/L	MW90-17	03/16/2012	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/24/2012	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Arsenic, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Arsenic, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Arsenic, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Arsenic, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Arsenic, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Arsenic, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Arsenic, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Arsenic, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Arsenic, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Arsenic, total	ug/L	MW90-17	10/15/2024	ND	4.0000		
Arsenic, total	ug/L	MW90-17	04/16/2025	ND	2.0000	4.0000	**
Arsenic, total	ug/L	MW90-17	10/27/2025	ND	2.0000	4.0000	**
Barium, total	ug/L	MW90-17	09/30/2009		199.0000		
Barium, total	ug/L	MW90-17	03/23/2010		171.0000		
Barium, total	ug/L	MW90-17	09/07/2010		169.0000		
Barium, total	ug/L	MW90-17	04/05/2011		215.0000		
Barium, total	ug/L	MW90-17	09/06/2011		207.0000		
Barium, total	ug/L	MW90-17	03/16/2012		196.0000		
Barium, total	ug/L	MW90-17	09/24/2012		185.0000		
Barium, total	ug/L	MW90-17	04/24/2013		183.0000		

* - 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	MW90-17	09/20/2013		351.0000		
Barium, total	ug/L	MW90-17	04/08/2014		261.0000		
Barium, total	ug/L	MW90-17	09/22/2014		212.0000		
Barium, total	ug/L	MW90-17	03/20/2015		257.0000		
Barium, total	ug/L	MW90-17	09/17/2015		234.0000		
Barium, total	ug/L	MW90-17	03/17/2016		246.0000		
Barium, total	ug/L	MW90-17	08/26/2016		266.0000		
Barium, total	ug/L	MW90-17	04/11/2017		234.0000		
Barium, total	ug/L	MW90-17	09/23/2017		275.0000		
Barium, total	ug/L	MW90-17	04/10/2018		242.0000		
Barium, total	ug/L	MW90-17	09/24/2018		259.0000		
Barium, total	ug/L	MW90-17	04/16/2019		242.0000		
Barium, total	ug/L	MW90-17	08/29/2019		281.0000		
Barium, total	ug/L	MW90-17	04/10/2020		274.0000		
Barium, total	ug/L	MW90-17	10/09/2020		281.0000		
Barium, total	ug/L	MW90-17	04/09/2021		265.0000		
Barium, total	ug/L	MW90-17	10/11/2021		251.0000		
Barium, total	ug/L	MW90-17	04/07/2022		299.0000		
Barium, total	ug/L	MW90-17	10/06/2022		288.0000		
Barium, total	ug/L	MW90-17	04/05/2023		307.0000		
Barium, total	ug/L	MW90-17	10/13/2023		314.0000		
Barium, total	ug/L	MW90-17	04/18/2024		310.0000		
Barium, total	ug/L	MW90-17	10/15/2024		280.0000		
Barium, total	ug/L	MW90-17	04/16/2025		337.0000		
Barium, total	ug/L	MW90-17	10/27/2025		321.0000		
Beryllium, total	ug/L	MW90-17	09/30/2009	ND	4.0000	4.0000	**
Beryllium, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/07/2010	ND	10.0000		
Beryllium, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Beryllium, total	ug/L	MW90-17	03/16/2012	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/24/2012	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Beryllium, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Beryllium, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Beryllium, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Beryllium, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Beryllium, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Beryllium, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Beryllium, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Beryllium, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Beryllium, total	ug/L	MW90-17	10/15/2024	ND	4.0000		
Beryllium, total	ug/L	MW90-17	04/16/2025	ND	0.5000		*
Beryllium, total	ug/L	MW90-17	10/27/2025	ND	0.5000		*
Cadmium, total	ug/L	MW90-17	09/30/2009	ND	1.0000	0.8000	**
Cadmium, total	ug/L	MW90-17	03/23/2010	ND	1.0000		**
Cadmium, total	ug/L	MW90-17	09/07/2010	ND	2.5000	0.8000	*
Cadmium, total	ug/L	MW90-17	04/05/2011	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/06/2011	ND	0.8000		
Cadmium, total	ug/L	MW90-17	03/16/2012	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/24/2012	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/24/2013	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/20/2013	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/08/2014	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/22/2014	ND	0.8000		
Cadmium, total	ug/L	MW90-17	03/20/2015	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/17/2015	ND	0.8000		
Cadmium, total	ug/L	MW90-17	03/17/2016	ND	0.8000		
Cadmium, total	ug/L	MW90-17	08/26/2016	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/11/2017	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	MW90-17	09/23/2017	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/10/2018	ND	0.8000		
Cadmium, total	ug/L	MW90-17	09/24/2018		1.1000		
Cadmium, total	ug/L	MW90-17	11/01/2018	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/16/2019	ND	0.8000		
Cadmium, total	ug/L	MW90-17	08/29/2019	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/10/2020	ND	0.8000		
Cadmium, total	ug/L	MW90-17	10/09/2020	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW90-17	10/11/2021	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/07/2022	ND	0.8000		
Cadmium, total	ug/L	MW90-17	10/06/2022	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/05/2023	ND	0.8000		
Cadmium, total	ug/L	MW90-17	10/13/2023	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/18/2024	ND	0.8000		
Cadmium, total	ug/L	MW90-17	10/15/2024	ND	0.8000		
Cadmium, total	ug/L	MW90-17	04/16/2025	ND	0.2000		*
Cadmium, total	ug/L	MW90-17	10/27/2025	ND	0.2000		*
Chromium, total	ug/L	MW90-17	09/30/2009	ND	10.0000	8.0000	**
Chromium, total	ug/L	MW90-17	03/23/2010	ND	10.0000	8.0000	**
Chromium, total	ug/L	MW90-17	09/07/2010	ND	25.0000		*
Chromium, total	ug/L	MW90-17	04/05/2011	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/06/2011	ND	20.0000	8.0000	**
Chromium, total	ug/L	MW90-17	03/16/2012	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/24/2012	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/24/2013	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/20/2013	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/08/2014	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/22/2014	ND	8.0000		
Chromium, total	ug/L	MW90-17	03/20/2015	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/17/2015	ND	8.0000		
Chromium, total	ug/L	MW90-17	03/17/2016	ND	8.0000		
Chromium, total	ug/L	MW90-17	08/26/2016	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/11/2017	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/23/2017	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/10/2018	ND	8.0000		
Chromium, total	ug/L	MW90-17	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/16/2019	ND	8.0000		
Chromium, total	ug/L	MW90-17	08/29/2019	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/10/2020	ND	8.0000		
Chromium, total	ug/L	MW90-17	10/09/2020	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/09/2021	ND	8.0000		
Chromium, total	ug/L	MW90-17	10/11/2021	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/07/2022	ND	8.0000		
Chromium, total	ug/L	MW90-17	10/06/2022	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/05/2023	ND	8.0000		
Chromium, total	ug/L	MW90-17	10/13/2023	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/18/2024	ND	8.0000		
Chromium, total	ug/L	MW90-17	10/15/2024	ND	8.0000		
Chromium, total	ug/L	MW90-17	04/16/2025		2.8000		
Chromium, total	ug/L	MW90-17	10/27/2025		2.8000		
Cobalt, total	ug/L	MW90-17	09/30/2009	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	03/23/2010	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	09/07/2010	ND	10.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/05/2011	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	09/06/2011	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	03/16/2012	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	09/24/2012	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/24/2013	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	09/20/2013	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/08/2014	ND	4.0000	0.8000	**
Cobalt, total	ug/L	MW90-17	09/22/2014	ND	0.8000		
Cobalt, total	ug/L	MW90-17	03/20/2015	ND	0.8000		
Cobalt, total	ug/L	MW90-17	09/17/2015	ND	0.8000		
Cobalt, total	ug/L	MW90-17	03/17/2016	ND	0.8000		
Cobalt, total	ug/L	MW90-17	08/26/2016	ND	0.8000		
Cobalt, total	ug/L	MW90-17	04/11/2017	ND	0.8000		
Cobalt, total	ug/L	MW90-17	09/23/2017	ND	0.8000		
Cobalt, total	ug/L	MW90-17	04/10/2018	ND	0.8000		
Cobalt, total	ug/L	MW90-17	09/24/2018	ND	0.8000		
Cobalt, total	ug/L	MW90-17	04/16/2019	ND	0.8000		
Cobalt, total	ug/L	MW90-17	08/29/2019	ND	0.8000		
Cobalt, total	ug/L	MW90-17	04/10/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	10/09/2020	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	
Cobalt, total	ug/L	MW90-17	04/09/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	10/11/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/07/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	10/06/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/05/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	10/13/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/18/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	10/15/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW90-17	04/16/2025	ND	0.5000	0.8000	**
Cobalt, total	ug/L	MW90-17	10/27/2025	ND	0.5000	0.8000	**
Copper, total	ug/L	MW90-17	09/30/2009	ND	4.0000		
Copper, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Copper, total	ug/L	MW90-17	09/07/2010	ND	10.0000	4.0000	**
Copper, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Copper, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Copper, total	ug/L	MW90-17	03/16/2012	ND	4.0000		
Copper, total	ug/L	MW90-17	09/24/2012	ND	4.0000		
Copper, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Copper, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Copper, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Copper, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Copper, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Copper, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Copper, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Copper, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Copper, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Copper, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Copper, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Copper, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Copper, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Copper, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Copper, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Copper, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Copper, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Copper, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Copper, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Copper, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Copper, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Copper, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Copper, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Copper, total	ug/L	MW90-17	10/15/2024	ND	4.0000		
Copper, total	ug/L	MW90-17	04/16/2025	ND	5.0000	4.0000	**
Copper, total	ug/L	MW90-17	10/27/2025	ND	5.0000	4.0000	**
Lead, total	ug/L	MW90-17	09/30/2009	ND	4.0000		
Lead, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Lead, total	ug/L	MW90-17	09/07/2010	ND	10.0000	4.0000	**
Lead, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Lead, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Lead, total	ug/L	MW90-17	03/16/2012	ND	4.0000		
Lead, total	ug/L	MW90-17	09/24/2012	ND	4.0000		
Lead, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Lead, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Lead, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Lead, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Lead, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Lead, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Lead, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Lead, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Lead, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Lead, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Lead, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Lead, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Lead, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Lead, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Lead, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Lead, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Lead, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Lead, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Lead, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Lead, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Lead, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Lead, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Lead, total	ug/L	MW90-17	10/15/2024	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead, total	ug/L	MW90-17	04/16/2025	ND	1.0000		*
Lead, total	ug/L	MW90-17	10/27/2025	ND	1.0000		*
Nickel, total	ug/L	MW90-17	09/30/2009	ND	4.0000		
Nickel, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/07/2010	ND	10.0000	4.0000	**
Nickel, total	ug/L	MW90-17	04/05/2011		7.1000		
Nickel, total	ug/L	MW90-17	09/06/2011		4.8000		
Nickel, total	ug/L	MW90-17	03/16/2012		4.8000		
Nickel, total	ug/L	MW90-17	09/24/2012		5.3000		
Nickel, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Nickel, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Nickel, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Nickel, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Nickel, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Nickel, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Nickel, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Nickel, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Nickel, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Nickel, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Nickel, total	ug/L	MW90-17	10/15/2024	ND	4.0000		
Nickel, total	ug/L	MW90-17	04/16/2025	ND	5.0000	4.0000	**
Nickel, total	ug/L	MW90-17	10/27/2025	ND	5.0000	4.0000	**
Selenium, total	ug/L	MW90-17	09/30/2009	ND	4.0000		
Selenium, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/07/2010	ND	10.0000	4.0000	**
Selenium, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Selenium, total	ug/L	MW90-17	03/16/2012	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/24/2012	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Selenium, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Selenium, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Selenium, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Selenium, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Selenium, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Selenium, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Selenium, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Selenium, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Selenium, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Selenium, total	ug/L	MW90-17	10/15/2024	ND	4.0000		
Selenium, total	ug/L	MW90-17	04/16/2025	ND	2.0000	4.0000	**
Selenium, total	ug/L	MW90-17	10/27/2025	ND	2.0000	4.0000	**
Silver, total	ug/L	MW90-17	09/30/2009	ND	4.0000		
Silver, total	ug/L	MW90-17	03/23/2010	ND	4.0000		
Silver, total	ug/L	MW90-17	09/07/2010	ND	10.0000	4.0000	**
Silver, total	ug/L	MW90-17	04/05/2011	ND	4.0000		
Silver, total	ug/L	MW90-17	09/06/2011	ND	4.0000		
Silver, total	ug/L	MW90-17	03/16/2012	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	MW90-17	09/24/2012	ND	4.0000		
Silver, total	ug/L	MW90-17	04/24/2013	ND	4.0000		
Silver, total	ug/L	MW90-17	09/20/2013	ND	4.0000		
Silver, total	ug/L	MW90-17	04/08/2014	ND	4.0000		
Silver, total	ug/L	MW90-17	09/22/2014	ND	4.0000		
Silver, total	ug/L	MW90-17	03/20/2015	ND	4.0000		
Silver, total	ug/L	MW90-17	09/17/2015	ND	4.0000		
Silver, total	ug/L	MW90-17	03/17/2016	ND	4.0000		
Silver, total	ug/L	MW90-17	08/26/2016	ND	4.0000		
Silver, total	ug/L	MW90-17	04/11/2017	ND	4.0000		
Silver, total	ug/L	MW90-17	09/23/2017	ND	4.0000		
Silver, total	ug/L	MW90-17	04/10/2018	ND	4.0000		
Silver, total	ug/L	MW90-17	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW90-17	04/16/2019	ND	4.0000		
Silver, total	ug/L	MW90-17	08/29/2019	ND	4.0000		
Silver, total	ug/L	MW90-17	04/10/2020	ND	4.0000		
Silver, total	ug/L	MW90-17	10/09/2020	ND	4.0000		
Silver, total	ug/L	MW90-17	04/09/2021	ND	4.0000		
Silver, total	ug/L	MW90-17	10/11/2021	ND	4.0000		
Silver, total	ug/L	MW90-17	04/07/2022	ND	4.0000		
Silver, total	ug/L	MW90-17	10/06/2022	ND	4.0000		
Silver, total	ug/L	MW90-17	04/05/2023	ND	4.0000		
Silver, total	ug/L	MW90-17	10/13/2023	ND	4.0000		
Silver, total	ug/L	MW90-17	04/18/2024	ND	4.0000		
Silver, total	ug/L	MW90-17	10/15/2024	ND	4.0000		
Silver, total	ug/L	MW90-17	04/16/2025	ND	5.0000	4.0000	**
Silver, total	ug/L	MW90-17	10/27/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW90-17	09/30/2009	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	03/23/2010	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/07/2010	ND	10.0000		*
Thallium, total	ug/L	MW90-17	04/05/2011	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/06/2011	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	03/16/2012	ND	2.0000		
Thallium, total	ug/L	MW90-17	09/24/2012	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/24/2013	ND	2.0000		
Thallium, total	ug/L	MW90-17	09/20/2013	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	04/08/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/22/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	03/20/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/17/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	03/17/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	08/26/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	04/11/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/23/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	04/10/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW90-17	04/16/2019	ND	2.0000		
Thallium, total	ug/L	MW90-17	08/29/2019	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/10/2020	ND	2.0000		
Thallium, total	ug/L	MW90-17	10/09/2020	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/09/2021	ND	2.0000		
Thallium, total	ug/L	MW90-17	10/11/2021	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/07/2022	ND	2.0000		
Thallium, total	ug/L	MW90-17	10/06/2022	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/05/2023	ND	2.0000		
Thallium, total	ug/L	MW90-17	10/13/2023	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/18/2024	ND	2.0000		
Thallium, total	ug/L	MW90-17	10/15/2024	ND	2.0000		
Thallium, total	ug/L	MW90-17	04/16/2025	ND	0.5000		*
Thallium, total	ug/L	MW90-17	10/27/2025	ND	0.5000		*
Vanadium, total	ug/L	MW90-17	09/30/2009	ND	10.0000	20.0000	**
Vanadium, total	ug/L	MW90-17	03/23/2010	ND	10.0000	20.0000	**
Vanadium, total	ug/L	MW90-17	09/07/2010	ND	25.0000	20.0000	**
Vanadium, total	ug/L	MW90-17	04/05/2011		20.1000		
Vanadium, total	ug/L	MW90-17	09/06/2011	ND	20.0000		
Vanadium, total	ug/L	MW90-17	03/16/2012	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/24/2012	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/24/2013	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/20/2013	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/08/2014	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/22/2014	ND	20.0000		
Vanadium, total	ug/L	MW90-17	03/20/2015	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/17/2015	ND	20.0000		
Vanadium, total	ug/L	MW90-17	03/17/2016	ND	20.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium, total	ug/L	MW90-17	08/26/2016	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/11/2017	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/23/2017	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/10/2018	ND	20.0000		
Vanadium, total	ug/L	MW90-17	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/16/2019	ND	20.0000		
Vanadium, total	ug/L	MW90-17	08/29/2019	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/10/2020	ND	20.0000		
Vanadium, total	ug/L	MW90-17	10/09/2020	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/09/2021	ND	20.0000		
Vanadium, total	ug/L	MW90-17	10/11/2021	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/07/2022	ND	20.0000		
Vanadium, total	ug/L	MW90-17	10/06/2022	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/05/2023	ND	20.0000		
Vanadium, total	ug/L	MW90-17	10/13/2023	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/18/2024	ND	20.0000		
Vanadium, total	ug/L	MW90-17	10/15/2024	ND	20.0000		
Vanadium, total	ug/L	MW90-17	04/16/2025	ND	2.0000		*
Vanadium, total	ug/L	MW90-17	10/27/2025	ND	2.0000		*
Zinc, total	ug/L	MW90-17	09/30/2009	ND	10.0000	8.0000	**
Zinc, total	ug/L	MW90-17	03/23/2010		10.5000		
Zinc, total	ug/L	MW90-17	09/07/2010	ND	25.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/05/2011	ND	8.0000		
Zinc, total	ug/L	MW90-17	09/06/2011	ND	8.0000		
Zinc, total	ug/L	MW90-17	03/16/2012	ND	8.0000		
Zinc, total	ug/L	MW90-17	09/24/2012	ND	8.0000		
Zinc, total	ug/L	MW90-17	04/24/2013	ND	8.0000		
Zinc, total	ug/L	MW90-17	09/20/2013	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/08/2014	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	09/22/2014	ND	8.0000		
Zinc, total	ug/L	MW90-17	03/20/2015	ND	8.0000		
Zinc, total	ug/L	MW90-17	09/17/2015	ND	8.0000		
Zinc, total	ug/L	MW90-17	03/17/2016	ND	8.0000		
Zinc, total	ug/L	MW90-17	08/26/2016		8.3000		
Zinc, total	ug/L	MW90-17	04/11/2017	ND	8.0000		
Zinc, total	ug/L	MW90-17	09/23/2017	ND	8.0000		
Zinc, total	ug/L	MW90-17	04/10/2018	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	09/24/2018	ND	8.0000		
Zinc, total	ug/L	MW90-17	04/16/2019	ND	8.0000		
Zinc, total	ug/L	MW90-17	08/29/2019		37.8000		*
Zinc, total	ug/L	MW90-17	09/23/2019	ND	8.0000		
Zinc, total	ug/L	MW90-17	04/10/2020	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	10/09/2020	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/09/2021	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	10/11/2021	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/07/2022	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	10/06/2022	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/05/2023	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	10/13/2023	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/18/2024	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	10/15/2024	ND	20.0000	8.0000	**
Zinc, total	ug/L	MW90-17	04/16/2025	ND	5.0000	8.0000	**
Zinc, total	ug/L	MW90-17	10/27/2025		33.7000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, total	ug/L	MW90-14	10/27/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW90-14	10/27/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW90-14	10/27/2025		261.0000		374.2359
Beryllium, total	ug/L	MW90-14	10/27/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW90-14	10/27/2025		1.4000	***	1.1000
Chromium, total	ug/L	MW90-14	10/27/2025	ND	1.0000		8.0000
Cobalt, total	ug/L	MW90-14	10/27/2025	ND	0.5000		0.8000
Copper, total	ug/L	MW90-14	10/27/2025	ND	5.0000		4.0000
Lead, total	ug/L	MW90-14	10/27/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW90-14	10/27/2025		17.6000	***	7.1000
Selenium, total	ug/L	MW90-14	10/27/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW90-14	10/27/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW90-14	10/27/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW90-14	10/27/2025	ND	2.0000		20.1000
Zinc, total	ug/L	MW90-14	10/27/2025		7.8000		33.7000
Antimony, total	ug/L	MW90-4	10/27/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW90-4	10/27/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW90-4	10/27/2025		403.0000	***	374.2359
Beryllium, total	ug/L	MW90-4	10/27/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW90-4	10/27/2025		0.6000		1.1000
Chromium, total	ug/L	MW90-4	10/27/2025		1.1000		8.0000
Cobalt, total	ug/L	MW90-4	10/27/2025	ND	0.5000		0.8000
Copper, total	ug/L	MW90-4	10/27/2025	ND	5.0000		4.0000
Lead, total	ug/L	MW90-4	10/27/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW90-4	10/27/2025	ND	5.0000		7.1000
Selenium, total	ug/L	MW90-4	10/27/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW90-4	10/27/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW90-4	10/27/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW90-4	10/27/2025	ND	2.0000		20.1000
Zinc, total	ug/L	MW90-4	10/27/2025		8.2000		33.7000
Antimony, total	ug/L	MW90-7	10/27/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW90-7	10/27/2025		3.2000	**	4.0000
Barium, total	ug/L	MW90-7	10/27/2025		259.0000		374.2359
Beryllium, total	ug/L	MW90-7	10/27/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW90-7	10/27/2025	ND	0.2000		1.1000
Chromium, total	ug/L	MW90-7	10/27/2025	ND	1.0000		8.0000
Cobalt, total	ug/L	MW90-7	10/27/2025		3.3000	***	0.8000
Copper, total	ug/L	MW90-7	10/27/2025	ND	5.0000		4.0000
Lead, total	ug/L	MW90-7	10/27/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW90-7	10/27/2025		22.4000	***	7.1000
Selenium, total	ug/L	MW90-7	10/27/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW90-7	10/27/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW90-7	10/27/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW90-7	10/27/2025	ND	2.0000		20.1000
Zinc, total	ug/L	MW90-7	10/27/2025	ND	5.0000		33.7000
Antimony, total	ug/L	MW91-19	10/27/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW91-19	10/27/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW91-19	10/27/2025		351.0000		374.2359
Beryllium, total	ug/L	MW91-19	10/27/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW91-19	10/27/2025		0.2000		1.1000
Chromium, total	ug/L	MW91-19	10/27/2025		1.4000		8.0000
Cobalt, total	ug/L	MW91-19	10/27/2025		3.0000	*	0.8000
Copper, total	ug/L	MW91-19	10/27/2025	ND	5.0000		4.0000
Lead, total	ug/L	MW91-19	10/27/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW91-19	10/27/2025	ND	5.0000		7.1000
Selenium, total	ug/L	MW91-19	10/27/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW91-19	10/27/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW91-19	10/27/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW91-19	10/27/2025	ND	2.0000		20.1000
Zinc, total	ug/L	MW91-19	10/27/2025		6.9000		33.7000
Antimony, total	ug/L	MW91-20	10/27/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW91-20	10/27/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW91-20	10/27/2025		184.0000		374.2359
Beryllium, total	ug/L	MW91-20	10/27/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW91-20	10/27/2025	ND	0.2000		1.1000
Chromium, total	ug/L	MW91-20	10/27/2025		1.4000		8.0000
Cobalt, total	ug/L	MW91-20	10/27/2025	ND	0.5000		0.8000
Copper, total	ug/L	MW91-20	10/27/2025	ND	5.0000		4.0000
Lead, total	ug/L	MW91-20	10/27/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW91-20	10/27/2025	ND	5.0000		7.1000
Selenium, total	ug/L	MW91-20	10/27/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW91-20	10/27/2025	ND	5.0000		4.0000

* - Current value failed - awaiting verification.

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

*** - Current value failed - exceedance verified.

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

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

ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Thallium, total	ug/L	MW91-20	10/27/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW91-20	10/27/2025	ND	2.0000		20.1000
Zinc, total	ug/L	MW91-20	10/27/2025		7.2000		33.7000
Antimony, total	ug/L	SW-3	10/27/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	SW-3	10/27/2025	ND	2.0000		4.0000
Barium, total	ug/L	SW-3	10/27/2025		301.0000		374.2359
Beryllium, total	ug/L	SW-3	10/27/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	SW-3	10/27/2025	ND	0.2000		1.1000
Chromium, total	ug/L	SW-3	10/27/2025	ND	1.0000		8.0000
Cobalt, total	ug/L	SW-3	10/27/2025	ND	0.5000		0.8000
Copper, total	ug/L	SW-3	10/27/2025	ND	5.0000		4.0000
Lead, total	ug/L	SW-3	10/27/2025	ND	1.0000		4.0000
Nickel, total	ug/L	SW-3	10/27/2025	ND	5.0000		7.1000
Selenium, total	ug/L	SW-3	10/27/2025	ND	2.0000		4.0000
Silver, total	ug/L	SW-3	10/27/2025	ND	5.0000		4.0000
Thallium, total	ug/L	SW-3	10/27/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	SW-3	10/27/2025	ND	2.0000		20.1000
Zinc, total	ug/L	SW-3	10/27/2025	ND	5.0000		33.7000

* - 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	33	0.000	0	217	0.000
Arsenic, total	0	33	0.000	27	217	0.124
Barium, total	33	33	1.000	224	224	1.000
Beryllium, total	0	31	0.000	1	217	0.005
Cadmium, total	1	31	0.032	40	221	0.181
Chromium, total	2	32	0.063	7	217	0.032
Cobalt, total	0	33	0.000	51	219	0.233
Copper, total	0	33	0.000	18	217	0.083
Lead, total	0	31	0.000	6	217	0.028
Nickel, total	4	33	0.121	122	218	0.560
Selenium, total	0	33	0.000	15	217	0.069
Silver, total	0	33	0.000	0	217	0.000
Thallium, total	0	30	0.000	0	217	0.000
Vanadium, total	1	31	0.032	9	217	0.041
Zinc, total	3	33	0.091	48	217	0.221

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	33	0.000									nonpar
Arsenic, total	0	33	0.000									nonpar
Barium, total	33	33	1.000	0.425	0.491					2.326	normal	normal
Beryllium, total	0	31	0.000									nonpar
Cadmium, total	1	31	0.032									nonpar
Chromium, total	2	32	0.063									nonpar
Cobalt, total	0	33	0.000									nonpar
Copper, total	0	33	0.000									nonpar
Lead, total	0	31	0.000									nonpar
Nickel, total	4	33	0.121	1.529	1.344					2.326	normal	nonpar
Selenium, total	0	33	0.000									nonpar
Silver, total	0	33	0.000									nonpar
Thallium, total	0	30	0.000									nonpar
Vanadium, total	1	31	0.032									nonpar
Zinc, total	3	33	0.091	1.039	0.523					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	33	254.9091	48.0133	0.0100	2.4853	2.0000	nonpar	***	0.99
Arsenic, total	ug/L	0	33					4.0000	nonpar	***	0.99
Barium, total	ug/L	33	33					374.2359	normal		
Beryllium, total	ug/L	0	31					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	1	31					1.1000	nonpar		0.99
Chromium, total	ug/L	2	32					8.0000	nonpar	***	0.99
Cobalt, total	ug/L	0	33					0.8000	nonpar	***	0.99
Copper, total	ug/L	0	33					4.0000	nonpar	***	0.99
Lead, total	ug/L	0	31					4.0000	nonpar	***	0.99
Nickel, total	ug/L	4	33					7.1000	nonpar		0.99
Selenium, total	ug/L	0	33					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	33					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	30					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	1	31					20.1000	nonpar		0.99
Zinc, total	ug/L	3	33					33.7000	nonpar		0.99

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

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

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

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

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

Table 6

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

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Beryllium, total	ug/L	MW90-17	04/16/2025	0.5000	< 0.5000	09/30/2009-10/27/2025	33	0.4448
Beryllium, total	ug/L	MW90-17	10/27/2025	0.5000	< 0.5000	09/30/2009-10/27/2025	33	0.4448
Cadmium, total	ug/L	MW90-17	09/07/2010	2.5000	< 2.5000	09/30/2009-10/27/2025	34	0.4359
Cadmium, total	ug/L	MW90-17	04/16/2025	0.2000	< 0.2000	09/30/2009-10/27/2025	34	0.4405
Cadmium, total	ug/L	MW90-17	10/27/2025	0.2000	< 0.2000	09/30/2009-10/27/2025	34	0.4405
Chromium, total	ug/L	MW90-17	09/07/2010	25.0000	< 25.0000	09/30/2009-10/27/2025	33	0.4405
Lead, total	ug/L	MW90-17	04/16/2025	1.0000	< 1.0000	09/30/2009-10/27/2025	33	0.4448
Lead, total	ug/L	MW90-17	10/27/2025	1.0000	< 1.0000	09/30/2009-10/27/2025	33	0.4448
Thallium, total	ug/L	MW90-17	09/07/2010	10.0000	< 10.0000	09/30/2009-10/27/2025	33	0.4405
Thallium, total	ug/L	MW90-17	04/16/2025	0.5000	< 0.5000	09/30/2009-10/27/2025	33	0.4448
Thallium, total	ug/L	MW90-17	10/27/2025	0.5000	< 0.5000	09/30/2009-10/27/2025	33	0.4448
Vanadium, total	ug/L	MW90-17	04/16/2025	2.0000	< 2.0000	09/30/2009-10/27/2025	33	0.4448
Vanadium, total	ug/L	MW90-17	10/27/2025	2.0000	< 2.0000	09/30/2009-10/27/2025	33	0.4448

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

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

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

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Cadmium, total	ug/L	MW90-14	06/09/2008		1.8300 *	1.1000
Cadmium, total	ug/L	MW90-14	10/16/2008		1.4500 *	1.1000
Cadmium, total	ug/L	MW90-14	03/05/2009		2.8400 *	1.1000
Cadmium, total	ug/L	MW90-14	09/30/2009		3.8000 *	1.1000
Cadmium, total	ug/L	MW90-14	03/23/2010		1.3000 *	1.1000
Cadmium, total	ug/L	MW90-14	09/07/2010		1.0000	1.1000
Cadmium, total	ug/L	MW90-14	04/05/2011		0.9000	1.1000
Cadmium, total	ug/L	MW90-14	09/06/2011		1.2000 *	1.1000
Cadmium, total	ug/L	MW90-14	03/16/2012		11.7000 *	1.1000
Cadmium, total	ug/L	MW90-14	09/24/2012		35.4000 *	1.1000
Cadmium, total	ug/L	MW90-14	04/24/2013		2.8000 *	1.1000
Cadmium, total	ug/L	MW90-14	09/20/2013		10.3000 *	1.1000
Cadmium, total	ug/L	MW90-14	10/28/2013	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/08/2014		25.6000 *	1.1000
Cadmium, total	ug/L	MW90-14	09/22/2014		0.9000	1.1000
Cadmium, total	ug/L	MW90-14	03/20/2015	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	09/17/2015		1.8000 *	1.1000
Cadmium, total	ug/L	MW90-14	03/17/2016	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	08/26/2016	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/11/2017		1.3000 *	1.1000
Cadmium, total	ug/L	MW90-14	09/23/2017	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/10/2018	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	09/24/2018	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/16/2019	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	08/29/2019		0.9000	1.1000
Cadmium, total	ug/L	MW90-14	04/10/2020		1.7000 *	1.1000
Cadmium, total	ug/L	MW90-14	10/09/2020		1.2000 *	1.1000
Cadmium, total	ug/L	MW90-14	04/09/2021		1.0000	1.1000
Cadmium, total	ug/L	MW90-14	10/11/2021	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/07/2022		0.8000	1.1000
Cadmium, total	ug/L	MW90-14	10/06/2022	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/05/2023	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	10/13/2023	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	04/18/2024	ND	0.8000	1.1000
Cadmium, total	ug/L	MW90-14	10/15/2024		1.3000 *	1.1000
Cadmium, total	ug/L	MW90-14	04/16/2025		2.5000 *	1.1000
Cadmium, total	ug/L	MW90-14	10/27/2025		1.4000 *	1.1000
Nickel, total	ug/L	MW90-14	06/09/2008		69.7000 *	7.1000
Nickel, total	ug/L	MW90-14	10/16/2008		65.3000 *	7.1000
Nickel, total	ug/L	MW90-14	03/05/2009	ND	50.0000	7.1000
Nickel, total	ug/L	MW90-14	09/30/2009		59.1000 *	7.1000
Nickel, total	ug/L	MW90-14	03/23/2010		31.5000 *	7.1000
Nickel, total	ug/L	MW90-14	09/07/2010		45.2000 *	7.1000
Nickel, total	ug/L	MW90-14	04/05/2011		45.5000 *	7.1000
Nickel, total	ug/L	MW90-14	09/06/2011		33.9000 *	7.1000
Nickel, total	ug/L	MW90-14	03/16/2012		36.6000 *	7.1000
Nickel, total	ug/L	MW90-14	09/24/2012		26.4000 *	7.1000
Nickel, total	ug/L	MW90-14	04/24/2013		24.1000 *	7.1000
Nickel, total	ug/L	MW90-14	09/20/2013		60.2000 *	7.1000
Nickel, total	ug/L	MW90-14	10/28/2013		13.9000 *	7.1000
Nickel, total	ug/L	MW90-14	04/08/2014		31.1000 *	7.1000
Nickel, total	ug/L	MW90-14	09/22/2014		34.0000 *	7.1000
Nickel, total	ug/L	MW90-14	03/20/2015		18.3000 *	7.1000
Nickel, total	ug/L	MW90-14	09/17/2015		20.8000 *	7.1000
Nickel, total	ug/L	MW90-14	03/17/2016		36.1000 *	7.1000
Nickel, total	ug/L	MW90-14	08/26/2016		21.3000 *	7.1000
Nickel, total	ug/L	MW90-14	04/11/2017		31.9000 *	7.1000
Nickel, total	ug/L	MW90-14	09/23/2017		30.9000 *	7.1000
Nickel, total	ug/L	MW90-14	04/10/2018		20.1000 *	7.1000
Nickel, total	ug/L	MW90-14	09/24/2018		35.0000 *	7.1000
Nickel, total	ug/L	MW90-14	04/16/2019		12.2000 *	7.1000
Nickel, total	ug/L	MW90-14	08/29/2019		33.1000 *	7.1000
Nickel, total	ug/L	MW90-14	04/10/2020		41.7000 *	7.1000
Nickel, total	ug/L	MW90-14	10/09/2020		59.0000 *	7.1000
Nickel, total	ug/L	MW90-14	04/09/2021		31.1000 *	7.1000
Nickel, total	ug/L	MW90-14	10/11/2021		33.4000 *	7.1000
Nickel, total	ug/L	MW90-14	04/07/2022		20.2000 *	7.1000
Nickel, total	ug/L	MW90-14	10/06/2022		27.8000 *	7.1000
Nickel, total	ug/L	MW90-14	04/05/2023		6.3000	7.1000
Nickel, total	ug/L	MW90-14	10/13/2023		36.5000 *	7.1000
Nickel, total	ug/L	MW90-14	04/18/2024		13.1000 *	7.1000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Nickel, total	ug/L	MW90-14	10/15/2024		12.9000 *	7.1000
Nickel, total	ug/L	MW90-14	04/16/2025		10.8000 *	7.1000
Nickel, total	ug/L	MW90-14	10/27/2025		17.6000 *	7.1000
Barium, total	ug/L	MW90-4	06/09/2008		336.0000	374.2359
Barium, total	ug/L	MW90-4	10/16/2008		469.0000 *	374.2359
Barium, total	ug/L	MW90-4	03/05/2009		444.0000 *	374.2359
Barium, total	ug/L	MW90-4	09/30/2009		512.0000 *	374.2359
Barium, total	ug/L	MW90-4	03/23/2010		315.0000	374.2359
Barium, total	ug/L	MW90-4	09/07/2010		420.0000 *	374.2359
Barium, total	ug/L	MW90-4	04/05/2011		427.0000 *	374.2359
Barium, total	ug/L	MW90-4	09/06/2011		499.0000 *	374.2359
Barium, total	ug/L	MW90-4	03/16/2012		399.0000 *	374.2359
Barium, total	ug/L	MW90-4	09/24/2012		322.0000	374.2359
Barium, total	ug/L	MW90-4	04/24/2013		233.0000	374.2359
Barium, total	ug/L	MW90-4	09/20/2013		679.0000 *	374.2359
Barium, total	ug/L	MW90-4	10/28/2013		329.0000	374.2359
Barium, total	ug/L	MW90-4	04/08/2014		379.0000 *	374.2359
Barium, total	ug/L	MW90-4	09/22/2014		383.0000 *	374.2359
Barium, total	ug/L	MW90-4	03/20/2015		434.0000 *	374.2359
Barium, total	ug/L	MW90-4	09/17/2015		437.0000 *	374.2359
Barium, total	ug/L	MW90-4	03/17/2016		381.0000 *	374.2359
Barium, total	ug/L	MW90-4	08/26/2016		381.0000 *	374.2359
Barium, total	ug/L	MW90-4	04/11/2017		332.0000	374.2359
Barium, total	ug/L	MW90-4	09/23/2017		362.0000	374.2359
Barium, total	ug/L	MW90-4	11/15/2017		339.0000	374.2359
Barium, total	ug/L	MW90-4	04/10/2018		340.0000	374.2359
Barium, total	ug/L	MW90-4	09/24/2018		306.0000	374.2359
Barium, total	ug/L	MW90-4	04/16/2019		361.0000	374.2359
Barium, total	ug/L	MW90-4	06/25/2019		433.0000 *	374.2359
Barium, total	ug/L	MW90-4	08/29/2019		359.0000	374.2359
Barium, total	ug/L	MW90-4	04/10/2020		377.0000 *	374.2359
Barium, total	ug/L	MW90-4	10/09/2020		385.0000 *	374.2359
Barium, total	ug/L	MW90-4	04/09/2021		298.0000	374.2359
Barium, total	ug/L	MW90-4	10/11/2021		377.0000 *	374.2359
Barium, total	ug/L	MW90-4	04/07/2022		348.0000	374.2359
Barium, total	ug/L	MW90-4	10/06/2022		351.0000	374.2359
Barium, total	ug/L	MW90-4	04/05/2023		320.0000	374.2359
Barium, total	ug/L	MW90-4	10/13/2023		342.0000	374.2359
Barium, total	ug/L	MW90-4	04/18/2024		375.0000 *	374.2359
Barium, total	ug/L	MW90-4	10/15/2024		381.0000 *	374.2359
Barium, total	ug/L	MW90-4	04/16/2025		377.0000 *	374.2359
Barium, total	ug/L	MW90-4	10/27/2025		403.0000 *	374.2359
Arsenic, total	ug/L	MW90-7	09/07/2007		6.5100 *	4.0000
Arsenic, total	ug/L	MW90-7	06/09/2008		2.9600	4.0000
Arsenic, total	ug/L	MW90-7	10/16/2008		15.6000	4.0000
Arsenic, total	ug/L	MW90-7	03/05/2009		7.8900 *	4.0000
Arsenic, total	ug/L	MW90-7	09/30/2009	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	03/23/2010	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	09/07/2010	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/05/2011		7.1000 *	4.0000
Arsenic, total	ug/L	MW90-7	09/06/2011	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	03/16/2012		5.3000 *	4.0000
Arsenic, total	ug/L	MW90-7	09/24/2012	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/24/2013		6.2000 *	4.0000
Arsenic, total	ug/L	MW90-7	09/20/2013		11.8000 *	4.0000
Arsenic, total	ug/L	MW90-7	10/28/2013		6.4000 *	4.0000
Arsenic, total	ug/L	MW90-7	04/08/2014		7.5000 *	4.0000
Arsenic, total	ug/L	MW90-7	09/22/2014		4.6000 *	4.0000
Arsenic, total	ug/L	MW90-7	03/20/2015		4.3000 *	4.0000
Arsenic, total	ug/L	MW90-7	09/17/2015	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	03/17/2016	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	08/26/2016	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/11/2017	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	09/23/2017	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/10/2018	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	09/24/2018	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/16/2019	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	08/29/2019	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/10/2020	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	10/09/2020	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/09/2021	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	MW90-7	10/11/2021	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/07/2022	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	10/06/2022	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/05/2023	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	10/13/2023	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/18/2024	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	10/15/2024	ND	4.0000	4.0000
Arsenic, total	ug/L	MW90-7	04/16/2025		4.3000 *	4.0000
Arsenic, total	ug/L	MW90-7	10/27/2025		3.2000	4.0000
Cobalt, total	ug/L	MW90-7	09/07/2007	ND	20.0000	0.8000
Cobalt, total	ug/L	MW90-7	06/09/2008	ND	20.0000	0.8000
Cobalt, total	ug/L	MW90-7	10/16/2008	ND	20.0000	0.8000
Cobalt, total	ug/L	MW90-7	03/05/2009	ND	20.0000	0.8000
Cobalt, total	ug/L	MW90-7	09/30/2009		4.8000 *	0.8000
Cobalt, total	ug/L	MW90-7	03/23/2010	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	09/07/2010	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	04/05/2011	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	09/06/2011	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	03/16/2012		4.3000 *	0.8000
Cobalt, total	ug/L	MW90-7	09/24/2012		4.4000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/24/2013	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	09/20/2013		5.7000 *	0.8000
Cobalt, total	ug/L	MW90-7	10/28/2013	ND	4.0000	0.8000
Cobalt, total	ug/L	MW90-7	04/08/2014		6.3000 *	0.8000
Cobalt, total	ug/L	MW90-7	09/22/2014		2.7000 *	0.8000
Cobalt, total	ug/L	MW90-7	03/20/2015		4.6000 *	0.8000
Cobalt, total	ug/L	MW90-7	09/17/2015		6.5000 *	0.8000
Cobalt, total	ug/L	MW90-7	03/17/2016	ND	0.8000	0.8000
Cobalt, total	ug/L	MW90-7	08/26/2016		6.6000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/11/2017		1.5000 *	0.8000
Cobalt, total	ug/L	MW90-7	09/23/2017		2.5000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/10/2018		1.9000 *	0.8000
Cobalt, total	ug/L	MW90-7	09/24/2018		5.1000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/16/2019	ND	0.8000	0.8000
Cobalt, total	ug/L	MW90-7	08/29/2019		1.6000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/10/2020		2.1000 *	0.8000
Cobalt, total	ug/L	MW90-7	10/09/2020		2.1000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/09/2021		2.1000 *	0.8000
Cobalt, total	ug/L	MW90-7	10/11/2021		5.3000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/07/2022		0.8000 **	0.8000
Cobalt, total	ug/L	MW90-7	10/06/2022		6.0000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/05/2023		1.6000 *	0.8000
Cobalt, total	ug/L	MW90-7	10/13/2023		19.8000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/18/2024		1.9000 *	0.8000
Cobalt, total	ug/L	MW90-7	10/15/2024		7.6000 *	0.8000
Cobalt, total	ug/L	MW90-7	04/16/2025		1.7000 *	0.8000
Cobalt, total	ug/L	MW90-7	10/27/2025		3.3000 *	0.8000
Nickel, total	ug/L	MW90-7	09/07/2007	ND	50.0000	7.1000
Nickel, total	ug/L	MW90-7	06/09/2008	ND	50.0000	7.1000
Nickel, total	ug/L	MW90-7	10/16/2008		54.9000 *	7.1000
Nickel, total	ug/L	MW90-7	03/05/2009	ND	50.0000	7.1000
Nickel, total	ug/L	MW90-7	09/30/2009		49.1000 *	7.1000
Nickel, total	ug/L	MW90-7	03/23/2010		38.3000 *	7.1000
Nickel, total	ug/L	MW90-7	09/07/2010		50.5000 *	7.1000
Nickel, total	ug/L	MW90-7	04/05/2011		52.5000 *	7.1000
Nickel, total	ug/L	MW90-7	09/06/2011		43.4000 *	7.1000
Nickel, total	ug/L	MW90-7	03/16/2012		42.6000 *	7.1000
Nickel, total	ug/L	MW90-7	09/24/2012		28.6000 *	7.1000
Nickel, total	ug/L	MW90-7	04/24/2013		33.4000 *	7.1000
Nickel, total	ug/L	MW90-7	09/20/2013		60.4000 *	7.1000
Nickel, total	ug/L	MW90-7	10/28/2013		41.4000 *	7.1000
Nickel, total	ug/L	MW90-7	04/08/2014		39.6000 *	7.1000
Nickel, total	ug/L	MW90-7	09/22/2014		25.3000 *	7.1000
Nickel, total	ug/L	MW90-7	03/20/2015		34.0000 *	7.1000
Nickel, total	ug/L	MW90-7	09/17/2015		29.6000 *	7.1000
Nickel, total	ug/L	MW90-7	03/17/2016		23.5000 *	7.1000
Nickel, total	ug/L	MW90-7	08/26/2016		32.6000 *	7.1000
Nickel, total	ug/L	MW90-7	04/11/2017		23.3000 *	7.1000
Nickel, total	ug/L	MW90-7	09/23/2017		26.4000 *	7.1000
Nickel, total	ug/L	MW90-7	04/10/2018		33.8000 *	7.1000
Nickel, total	ug/L	MW90-7	09/24/2018		22.3000 *	7.1000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Nickel, total	ug/L	MW90-7	04/16/2019		16.3000	*	7.1000
Nickel, total	ug/L	MW90-7	08/29/2019		25.6000	*	7.1000
Nickel, total	ug/L	MW90-7	04/10/2020		23.0000	*	7.1000
Nickel, total	ug/L	MW90-7	10/09/2020		29.2000	*	7.1000
Nickel, total	ug/L	MW90-7	04/09/2021		42.1000	*	7.1000
Nickel, total	ug/L	MW90-7	10/11/2021		29.7000	*	7.1000
Nickel, total	ug/L	MW90-7	04/07/2022		15.2000	*	7.1000
Nickel, total	ug/L	MW90-7	10/06/2022		27.4000	*	7.1000
Nickel, total	ug/L	MW90-7	04/05/2023		25.6000	*	7.1000
Nickel, total	ug/L	MW90-7	10/13/2023		29.4000	*	7.1000
Nickel, total	ug/L	MW90-7	04/18/2024		28.4000	*	7.1000
Nickel, total	ug/L	MW90-7	10/15/2024		23.3000	*	7.1000
Nickel, total	ug/L	MW90-7	04/16/2025		23.1000	*	7.1000
Nickel, total	ug/L	MW90-7	10/27/2025		22.4000	*	7.1000
Cobalt, total	ug/L	MW91-19	06/09/2008	ND	20.0000		0.8000
Cobalt, total	ug/L	MW91-19	10/16/2008	ND	20.0000		0.8000
Cobalt, total	ug/L	MW91-19	03/05/2009	ND	20.0000		0.8000
Cobalt, total	ug/L	MW91-19	09/30/2009	ND	4.0000		0.8000
Cobalt, total	ug/L	MW91-19	03/23/2010	ND	4.0000		0.8000
Cobalt, total	ug/L	MW91-19	09/07/2010	ND	4.0000		0.8000
Cobalt, total	ug/L	MW91-19	04/05/2011	ND	4.0000		0.8000
Cobalt, total	ug/L	MW91-19	09/06/2011	ND	4.0000		0.8000
Cobalt, total	ug/L	MW91-19	03/16/2012	ND	4.0000		0.8000
Cobalt, total	ug/L	MW91-19	09/24/2012	ND	4.0000		0.8000
Cobalt, total	ug/L	MW91-19	04/24/2013	ND	4.0000		0.8000
Cobalt, total	ug/L	MW91-19	09/20/2013	ND	4.0000		0.8000
Cobalt, total	ug/L	MW91-19	10/28/2013	ND	4.0000		0.8000
Cobalt, total	ug/L	MW91-19	04/08/2014	ND	4.0000		0.8000
Cobalt, total	ug/L	MW91-19	09/22/2014		1.0000	*	0.8000
Cobalt, total	ug/L	MW91-19	03/20/2015	ND	0.8000		0.8000
Cobalt, total	ug/L	MW91-19	09/17/2015	ND	0.8000		0.8000
Cobalt, total	ug/L	MW91-19	03/17/2016	ND	0.8000		0.8000
Cobalt, total	ug/L	MW91-19	08/26/2016		1.0000	*	0.8000
Cobalt, total	ug/L	MW91-19	04/11/2017	ND	0.8000		0.8000
Cobalt, total	ug/L	MW91-19	09/23/2017	ND	0.8000		0.8000
Cobalt, total	ug/L	MW91-19	04/10/2018	ND	0.8000		0.8000
Cobalt, total	ug/L	MW91-19	09/24/2018	ND	0.8000		0.8000
Cobalt, total	ug/L	MW91-19	04/16/2019	ND	0.8000		0.8000
Cobalt, total	ug/L	MW91-19	08/29/2019	ND	0.8000		0.8000
Cobalt, total	ug/L	MW91-19	04/10/2020	ND	0.4000		0.8000
Cobalt, total	ug/L	MW91-19	10/09/2020		2.4000	*	0.8000
Cobalt, total	ug/L	MW91-19	04/09/2021	ND	0.4000		0.8000
Cobalt, total	ug/L	MW91-19	10/11/2021	ND	0.4000		0.8000
Cobalt, total	ug/L	MW91-19	04/07/2022	ND	0.4000		0.8000
Cobalt, total	ug/L	MW91-19	10/06/2022		1.9000	*	0.8000
Cobalt, total	ug/L	MW91-19	01/04/2023		0.7000		0.8000
Cobalt, total	ug/L	MW91-19	04/05/2023		0.5000		0.8000
Cobalt, total	ug/L	MW91-19	10/13/2023		1.4000	*	0.8000
Cobalt, total	ug/L	MW91-19	04/18/2024	ND	0.4000		0.8000
Cobalt, total	ug/L	MW91-19	10/15/2024	ND	0.4000		0.8000
Cobalt, total	ug/L	MW91-19	04/16/2025	ND	0.5000		0.8000
Cobalt, total	ug/L	MW91-19	10/27/2025		3.0000	*	0.8000

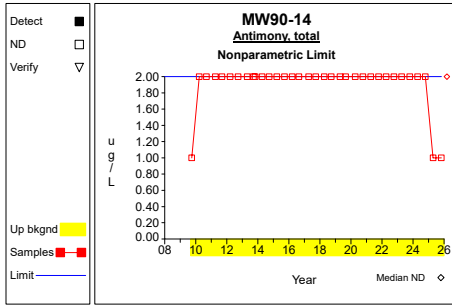
* - Significantly increased over background.

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

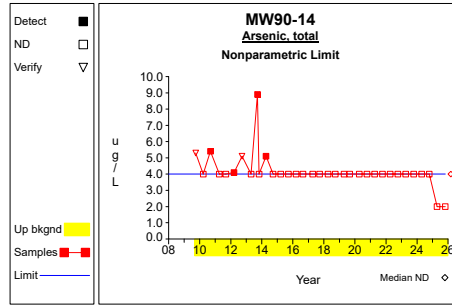
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

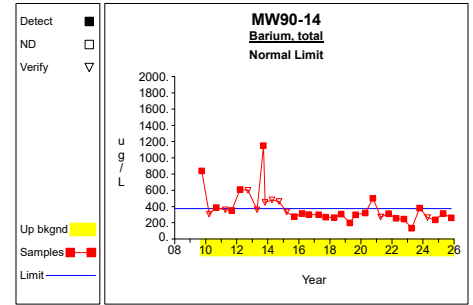
Up vs. Down Prediction Limits



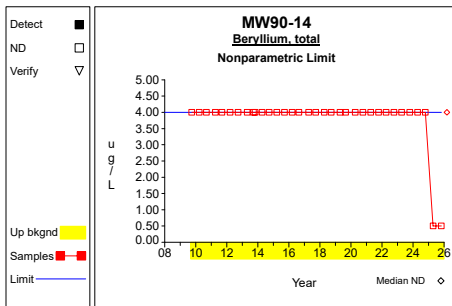
Graph 1



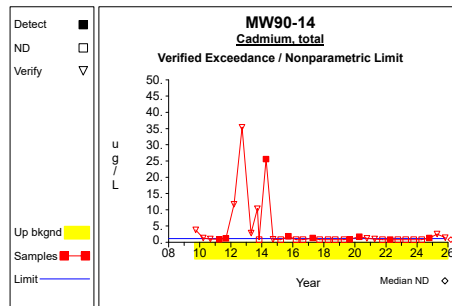
Graph 2



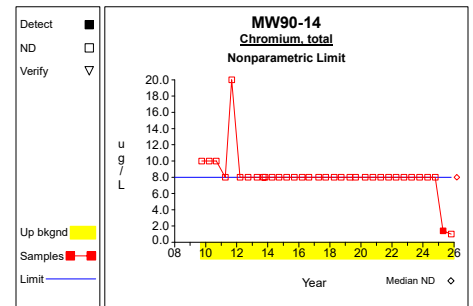
Graph 3



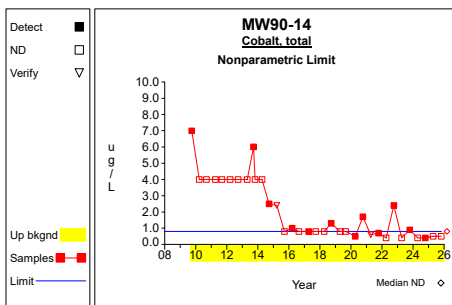
Graph 4



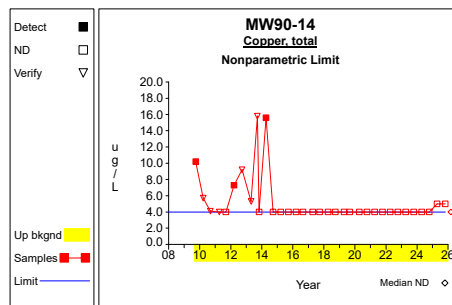
Graph 5



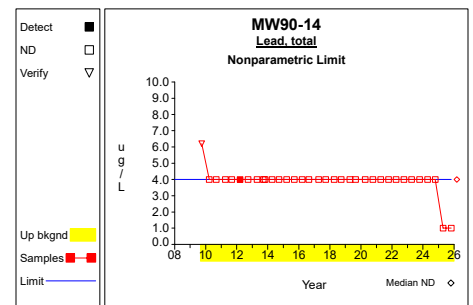
Graph 6



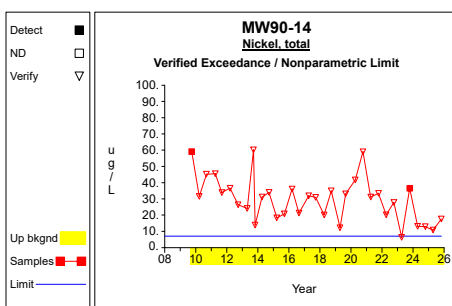
Graph 7



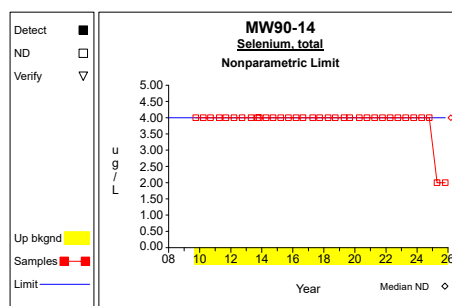
Graph 8



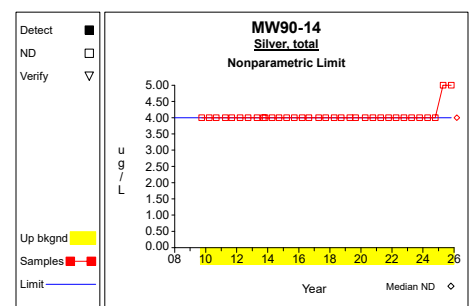
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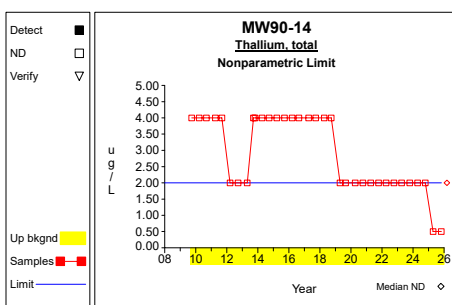
Graph 10



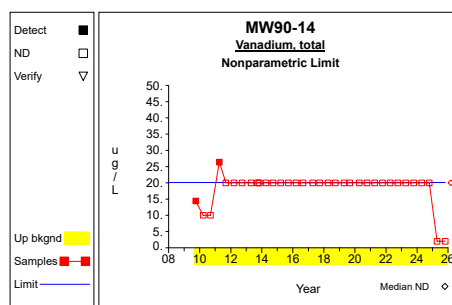
Graph 11



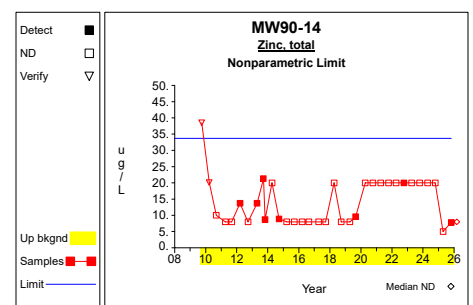
Graph 12



Graph 13

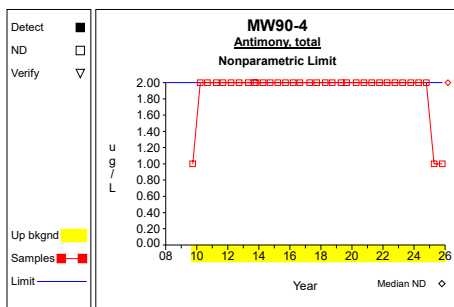


Graph 14

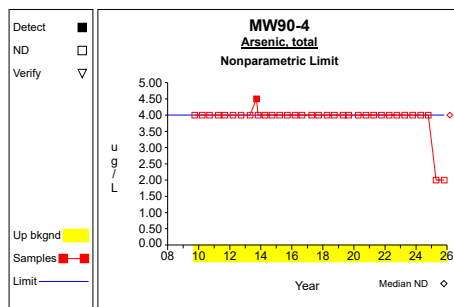


Graph 15

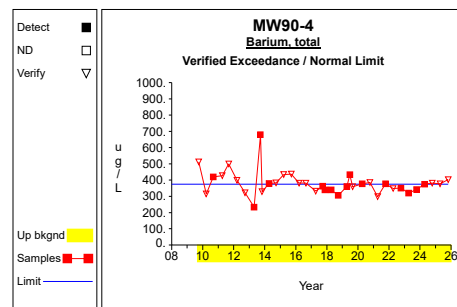
Up vs. Down Prediction Limits



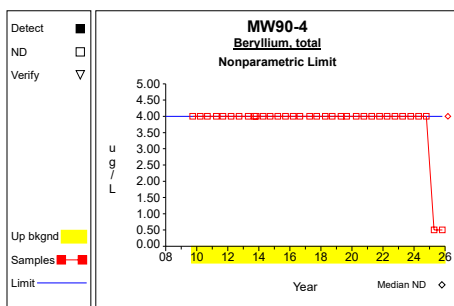
Graph 16



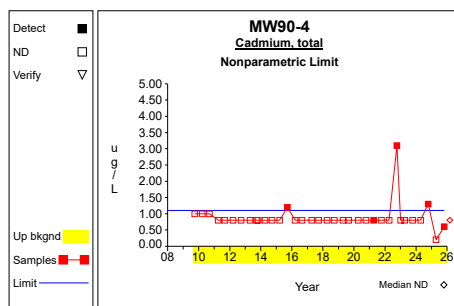
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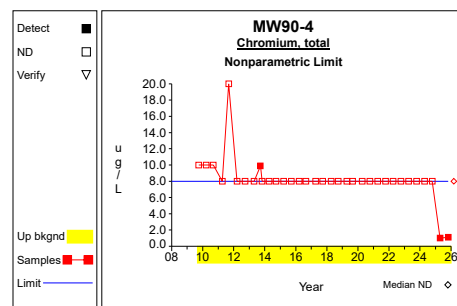
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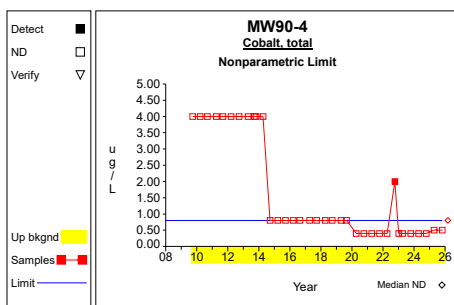
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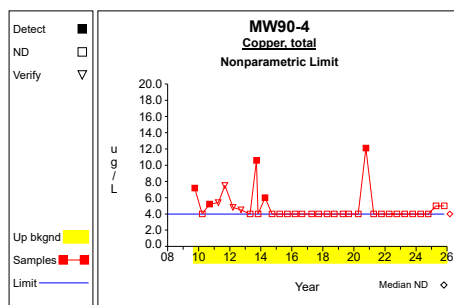
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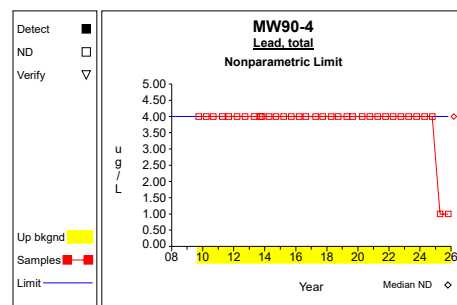
Graph 21



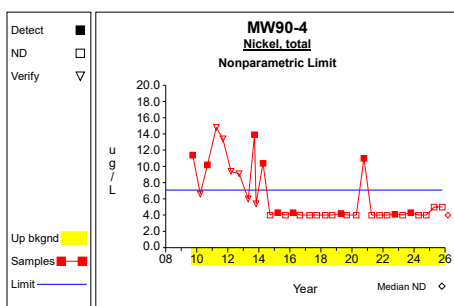
Graph 22



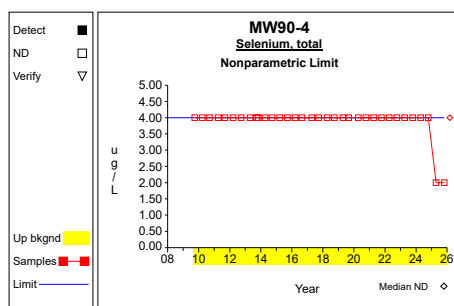
Graph 23



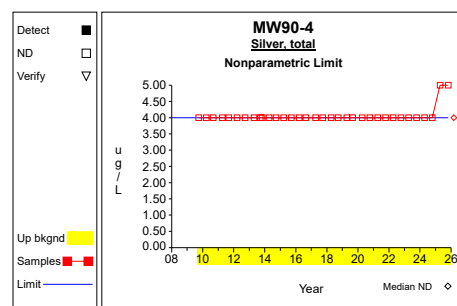
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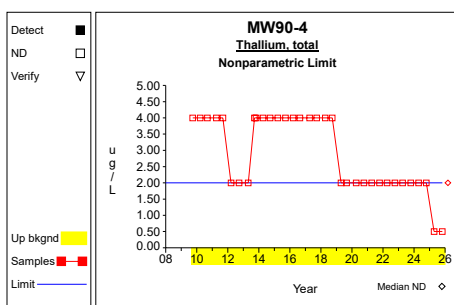
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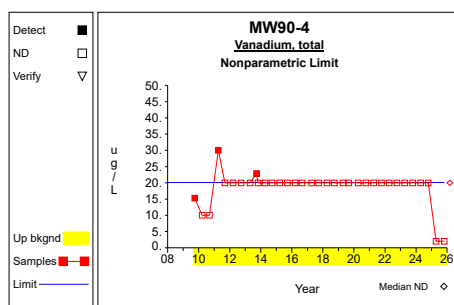
Graph 26



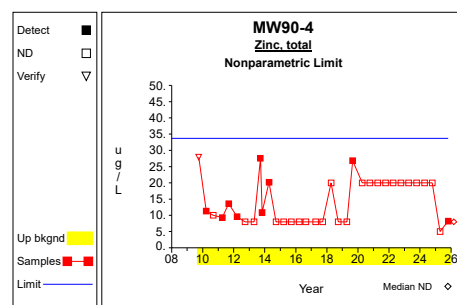
Graph 27



Graph 28

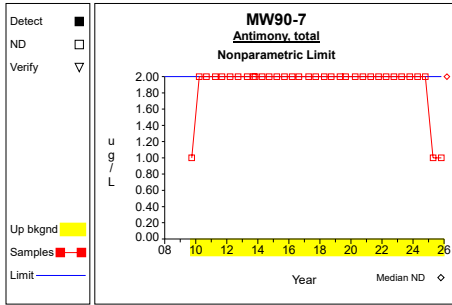


Graph 29

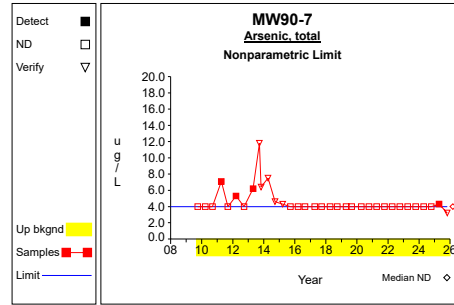


Graph 30

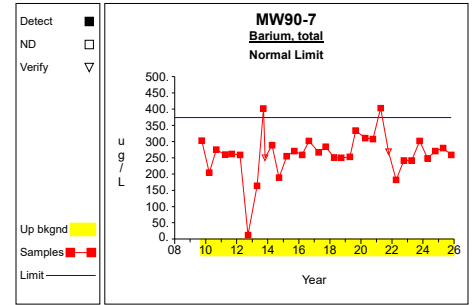
Up vs. Down Prediction Limits



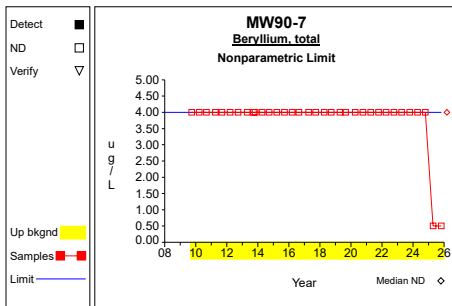
Graph 31



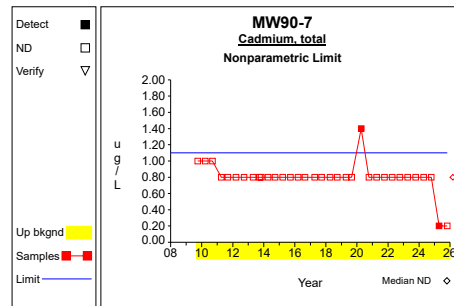
Graph 32



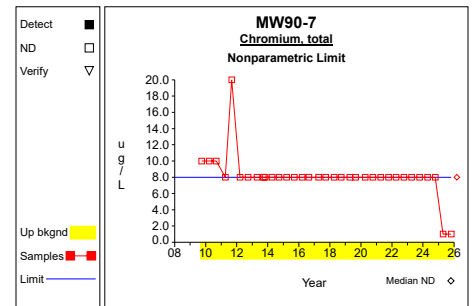
Graph 33



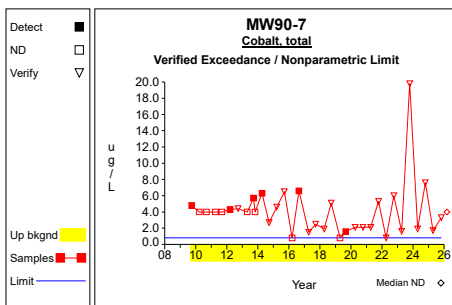
Graph 34



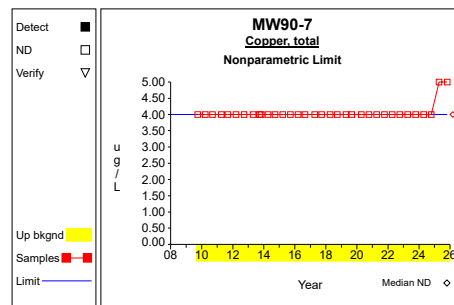
Graph 35



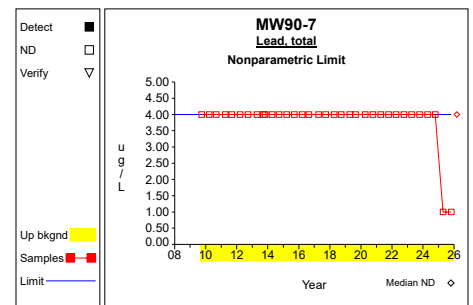
Graph 36



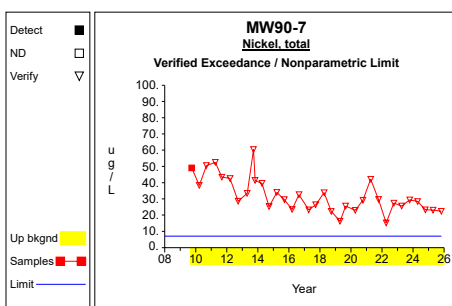
Graph 37



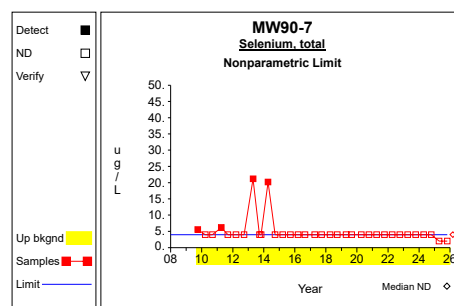
Graph 38



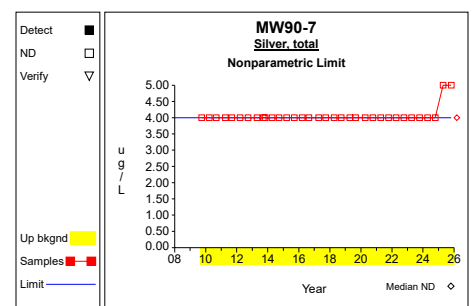
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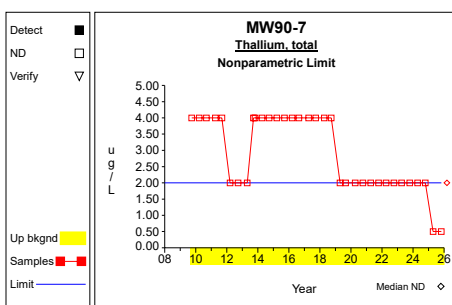
Graph 40



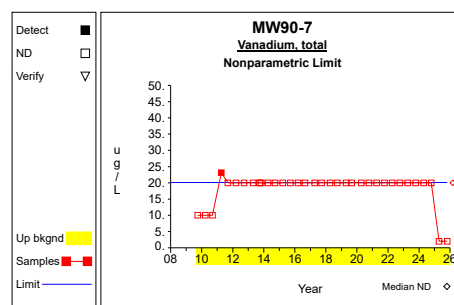
Graph 41



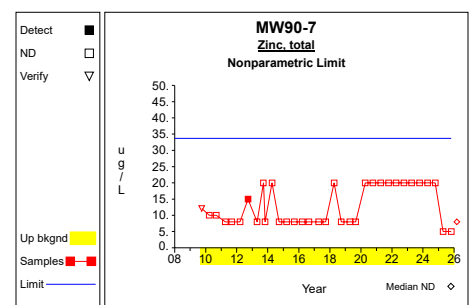
Graph 42



Graph 43

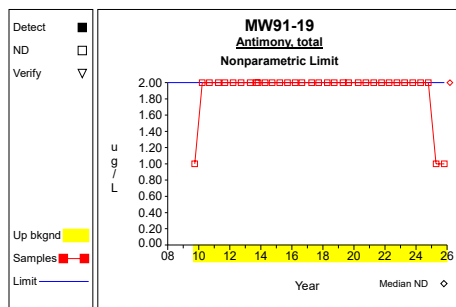


Graph 44

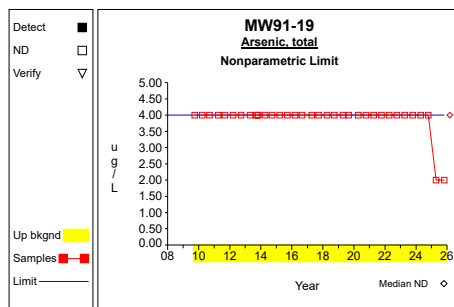


Graph 45

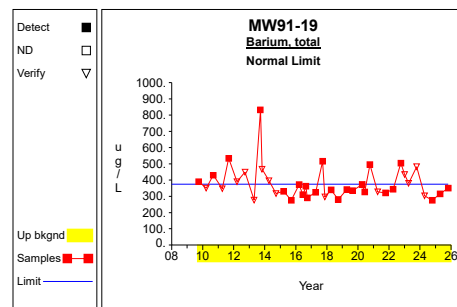
Up vs. Down Prediction Limits



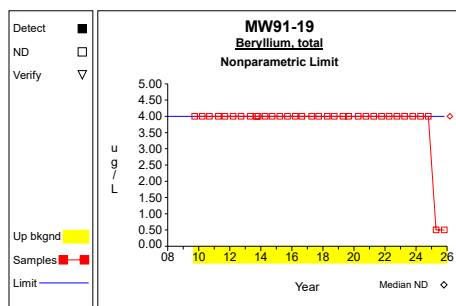
Graph 46



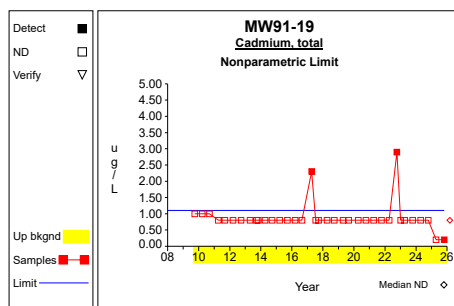
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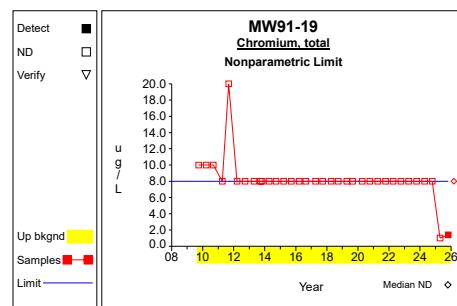
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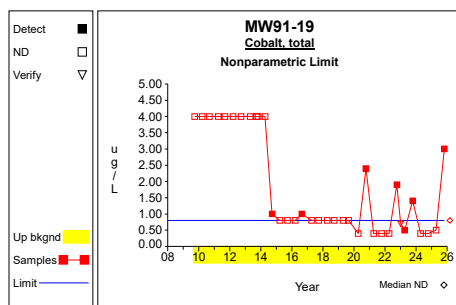
Graph 49



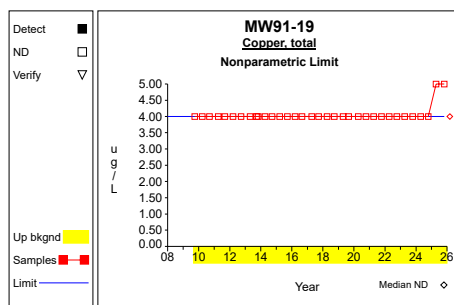
Graph 50



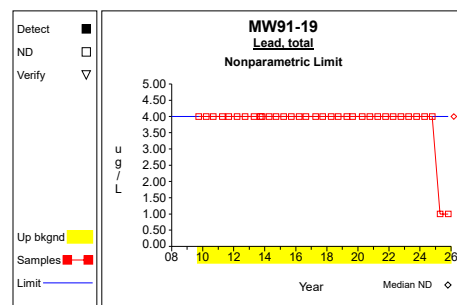
Graph 51



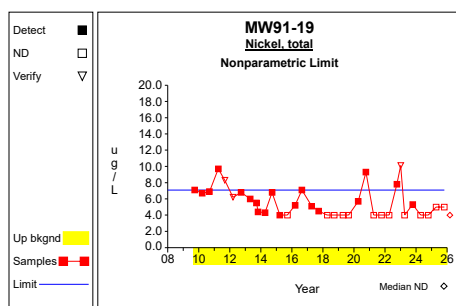
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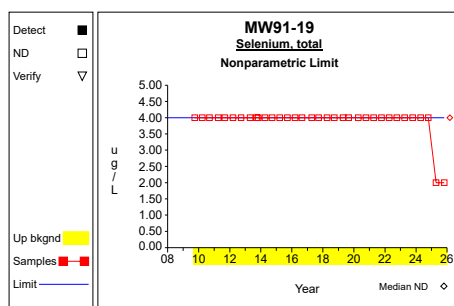
Graph 53



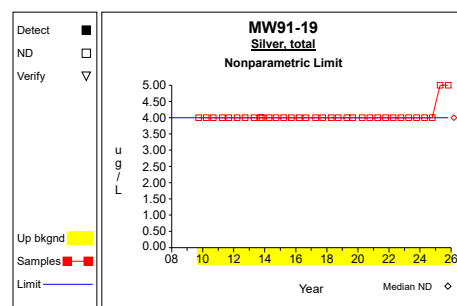
Graph 54



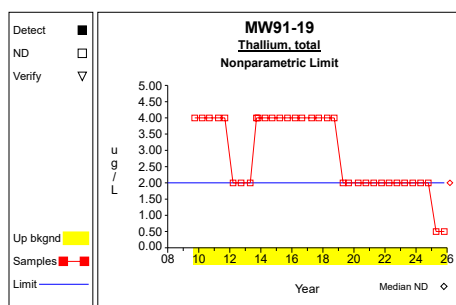
Graph 55



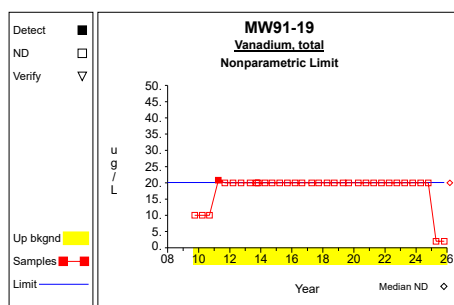
Graph 56



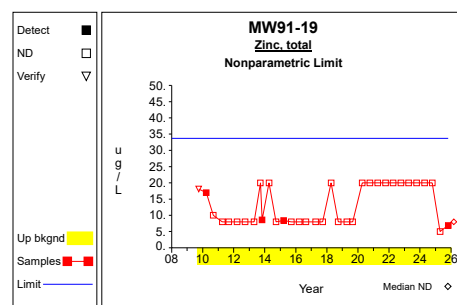
Graph 57



Graph 58

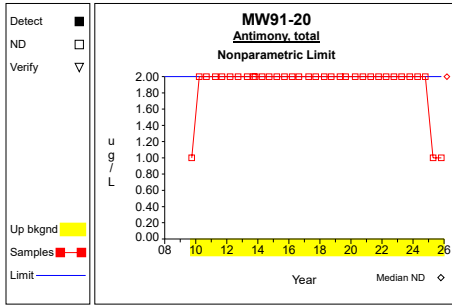


Graph 59

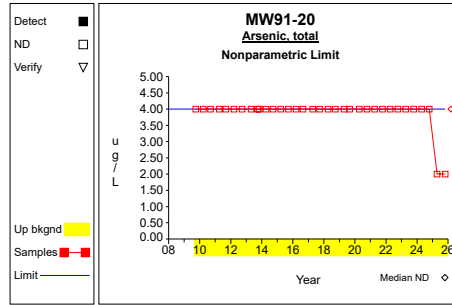


Graph 60

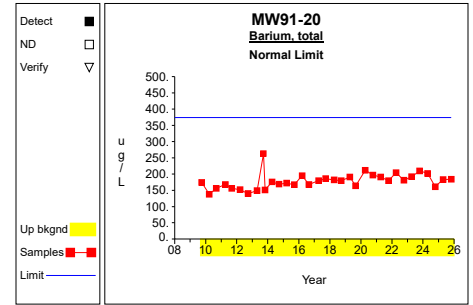
Up vs. Down Prediction Limits



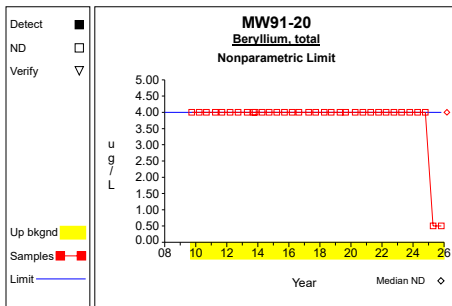
Graph 61



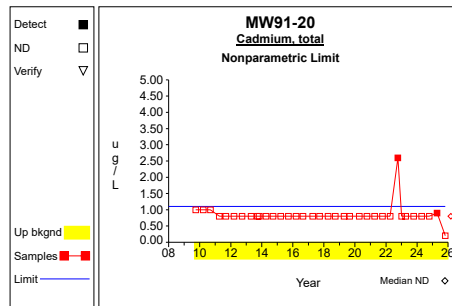
Graph 62



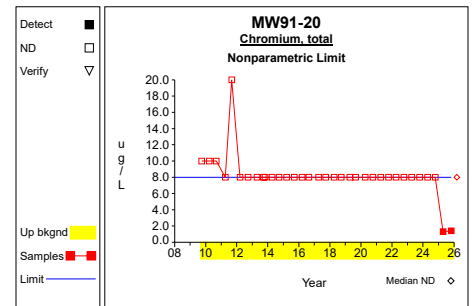
Graph 63



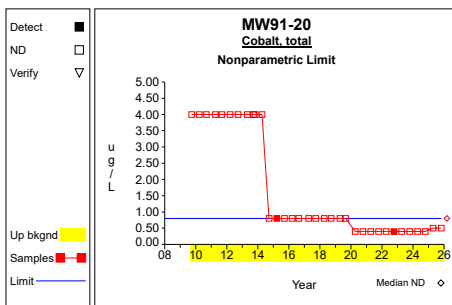
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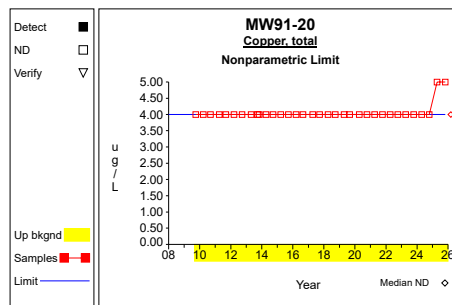
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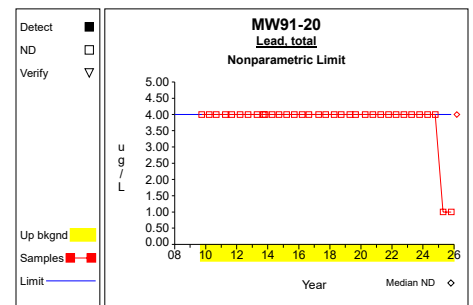
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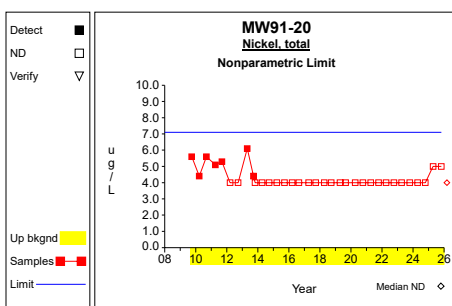
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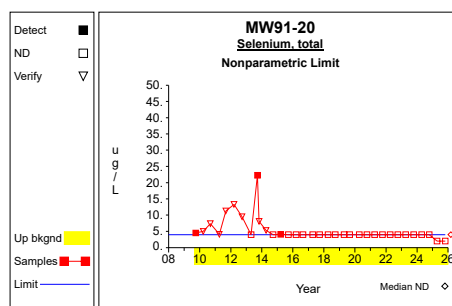
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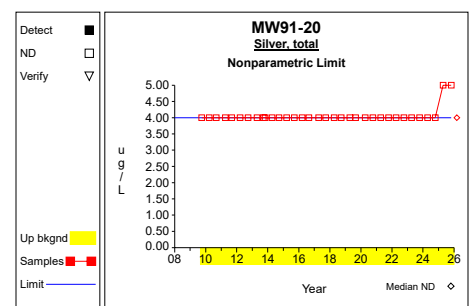
Graph 69



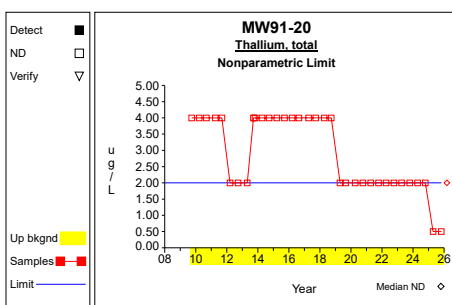
Graph 70



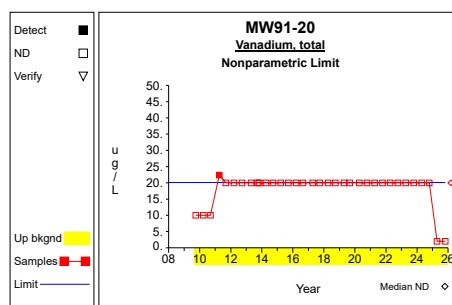
Graph 71



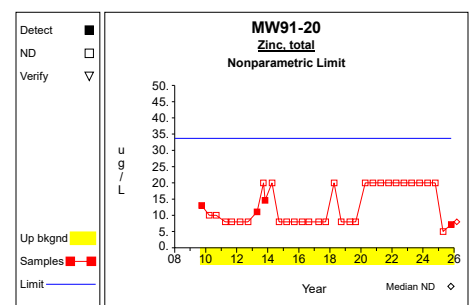
Graph 72



Graph 73

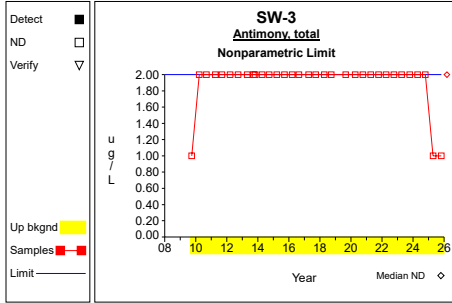


Graph 74

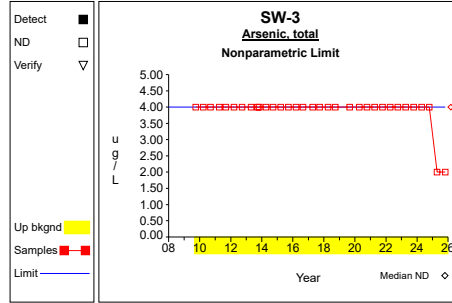


Graph 75

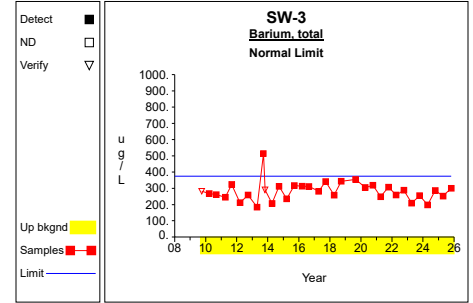
Up vs. Down Prediction Limits



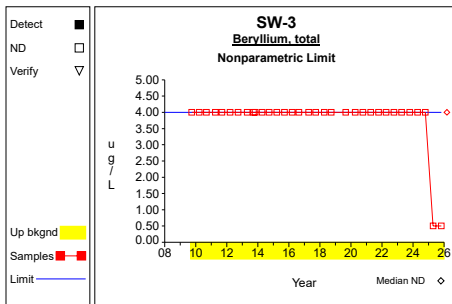
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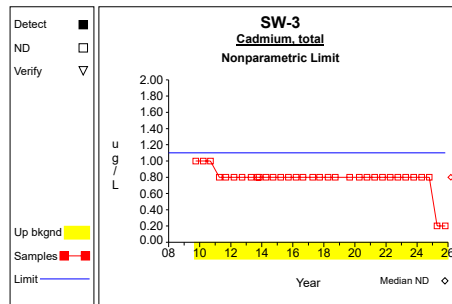
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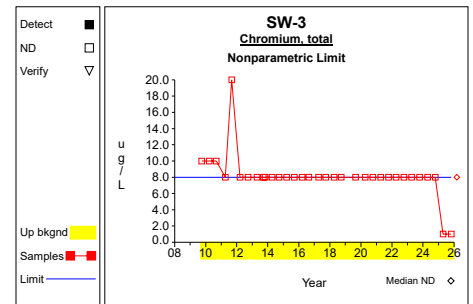
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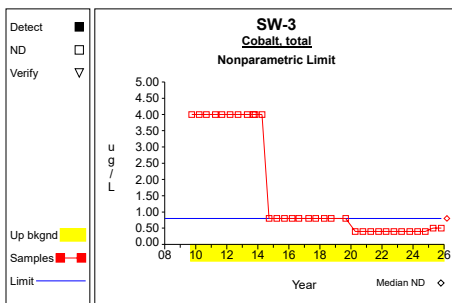
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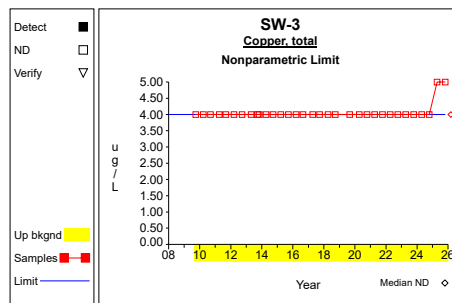
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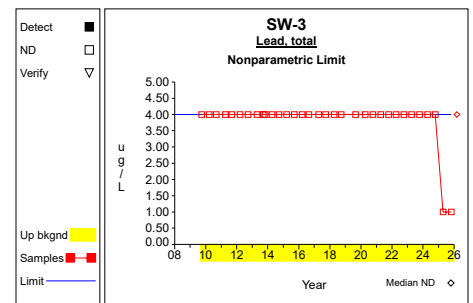
Graph 81



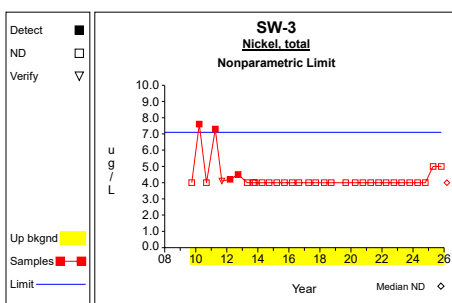
Graph 82



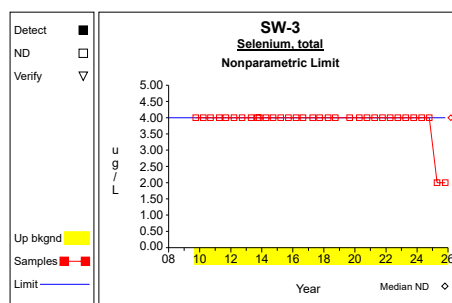
Graph 83



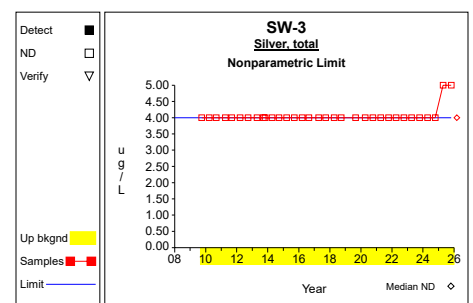
Graph 84



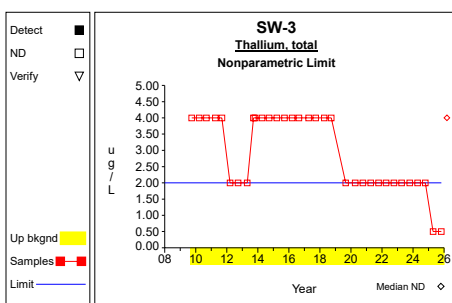
Graph 85



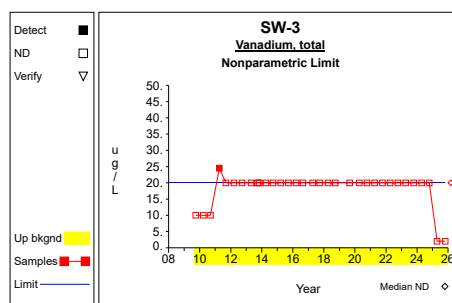
Graph 86



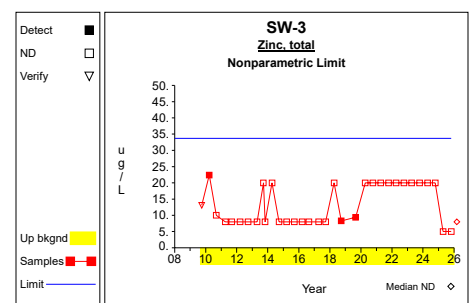
Graph 87



Graph 88

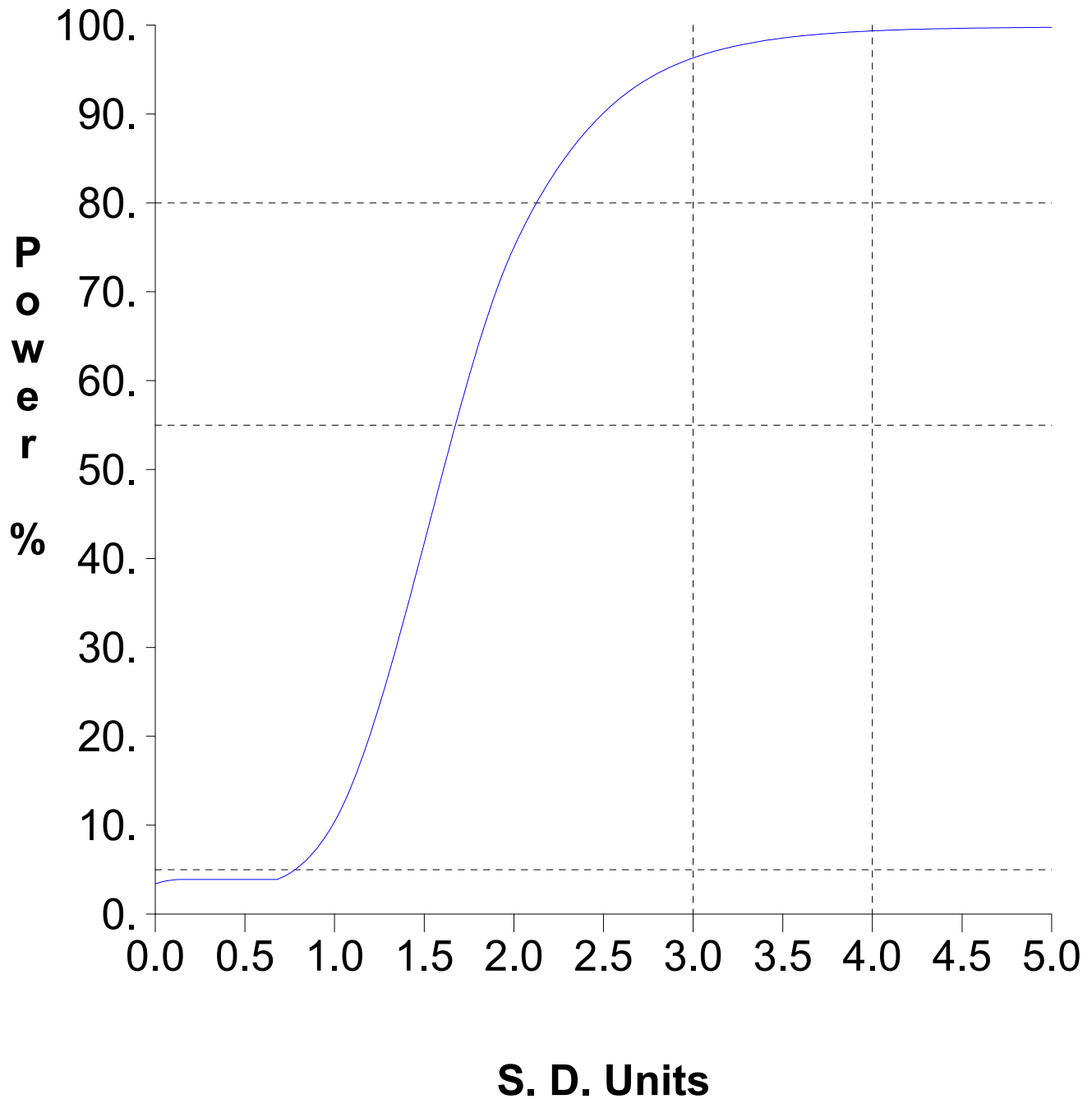


Graph 89



Graph 90

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



Attachment C

Assessment Statistics for 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	MW90-14	4	2.000	0.000	1.176	2.000	2.000	10.000	dec
Barium, total	ug/L	MW90-14	4	269.250	33.330	1.176	230.044	308.456	2000.000	
Cadmium, total	ug/L	MW90-14	4	1.400	0.860	1.176	0.388	2.412	5.000	dec
Cobalt, total	ug/L	MW90-14	4	0.400	0.000	1.176	0.400	0.400	2.100	
Nickel, total	ug/L	MW90-14	4	13.600	2.862	1.176	10.233	16.967	100.000	dec
Arsenic, total	ug/L	MW90-4	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW90-4	4	384.000	12.910	1.176	368.814	399.186	2000.000	
Cadmium, total	ug/L	MW90-4	4	0.675	0.427	1.176	0.172	1.178	5.000	
Cobalt, total	ug/L	MW90-4	4	0.400	0.000	1.176	0.400	0.400	2.100	
Nickel, total	ug/L	MW90-4	4	2.000	0.000	1.176	2.000	2.000	100.000	
Arsenic, total	ug/L	MW90-7	4	2.875	1.106	1.176	1.574	4.176	10.000	
Barium, total	ug/L	MW90-7	4	264.500	13.964	1.176	248.074	280.926	2000.000	
Cadmium, total	ug/L	MW90-7	4	0.350	0.100	1.176	0.232	0.468	5.000	dec
Cobalt, total	ug/L	MW90-7	4	3.625	2.744	1.176	0.397	6.853	2.100	
Nickel, total	ug/L	MW90-7	4	24.300	2.760	1.176	21.053	27.547	100.000	dec
Arsenic, total	ug/L	MW91-19	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW91-19	4	311.250	31.117	1.176	274.648	347.852	2000.000	
Cadmium, total	ug/L	MW91-19	4	0.350	0.100	1.176	0.232	0.468	5.000	
Cobalt, total	ug/L	MW91-19	4	1.050	1.300	1.176	0.000	2.579	2.100	
Nickel, total	ug/L	MW91-19	4	2.000	0.000	1.176	2.000	2.000	100.000	

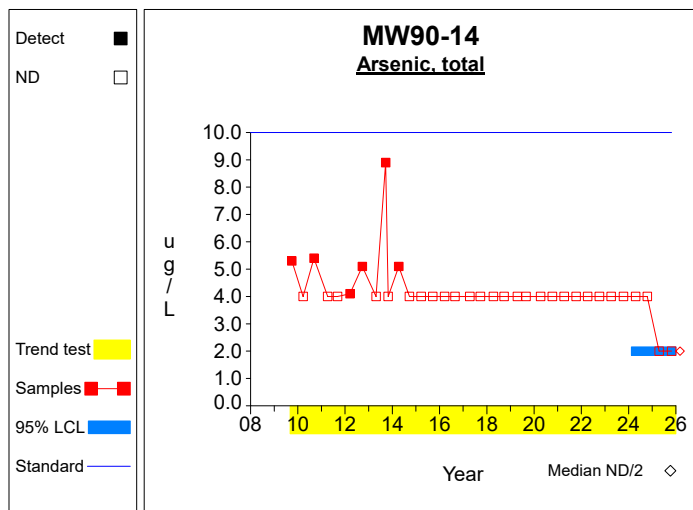
* - Insufficient Data

** - Significant Exceedance

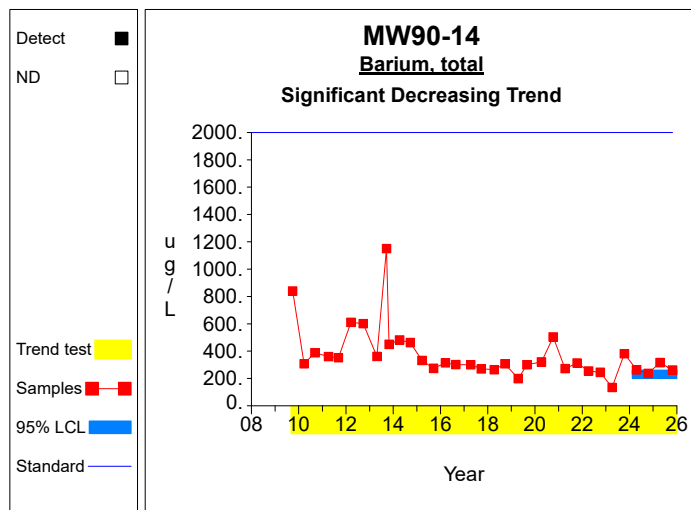
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

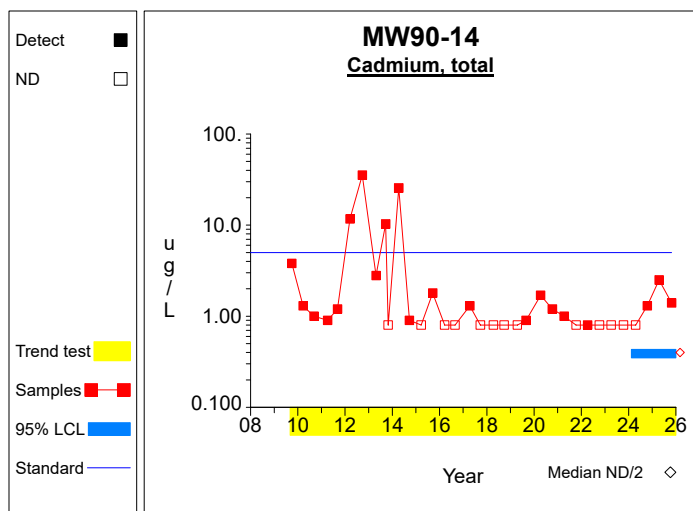
Confidence Limits (Assessment)



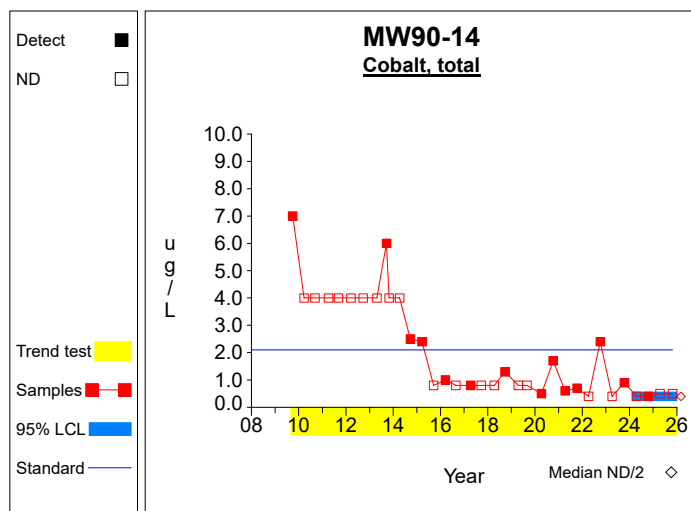
Graph 1



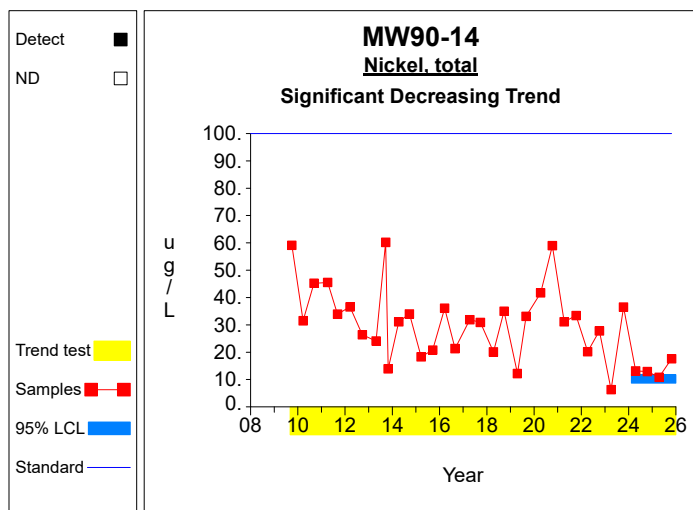
Graph 2



Graph 3

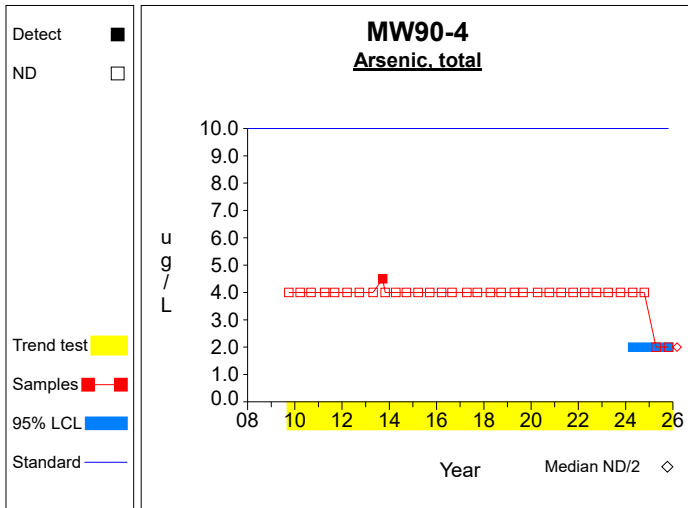


Graph 4

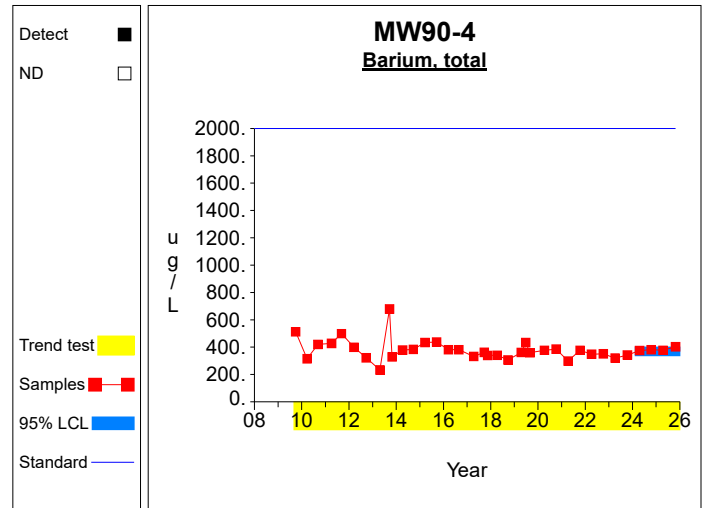


Graph 5

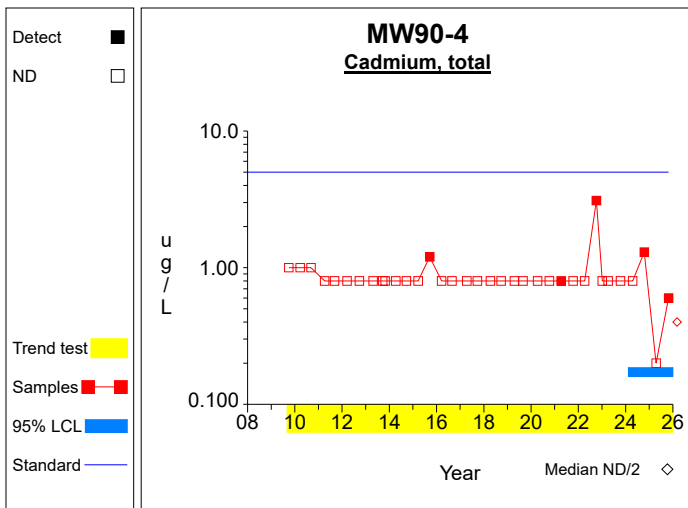
Confidence Limits (Assessment)



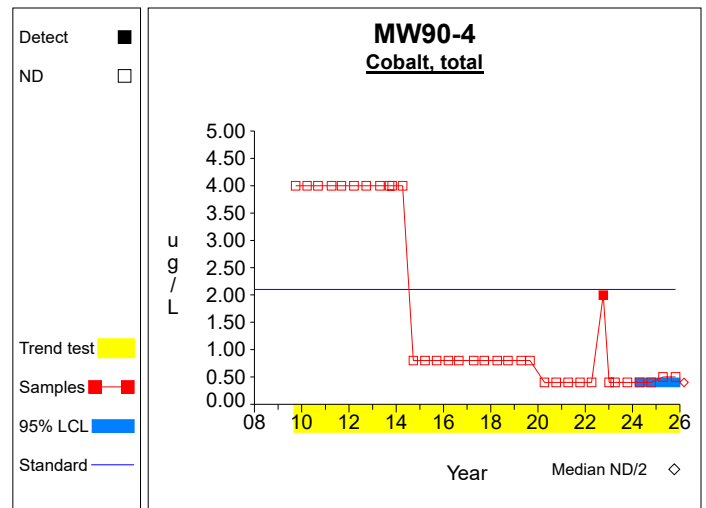
Graph 6



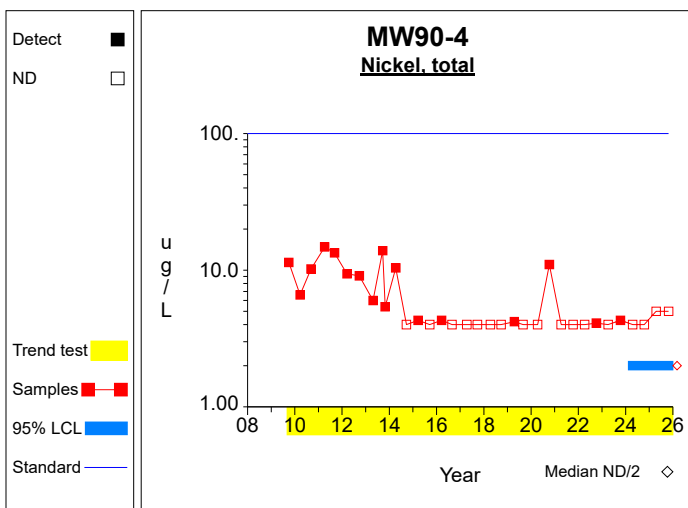
Graph 7



Graph 8

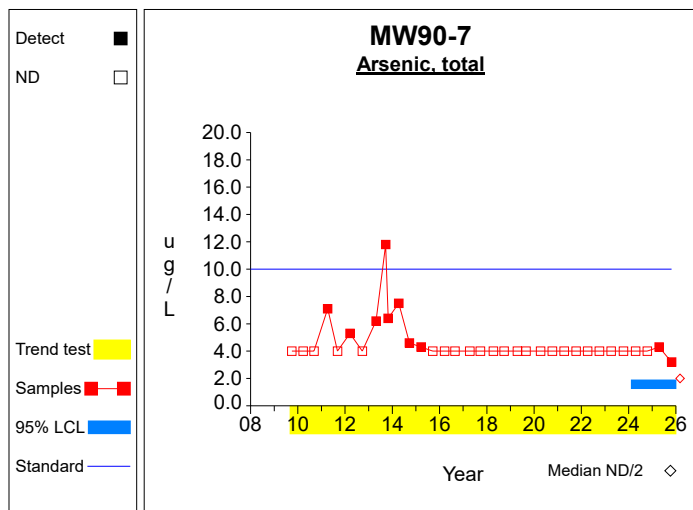


Graph 9

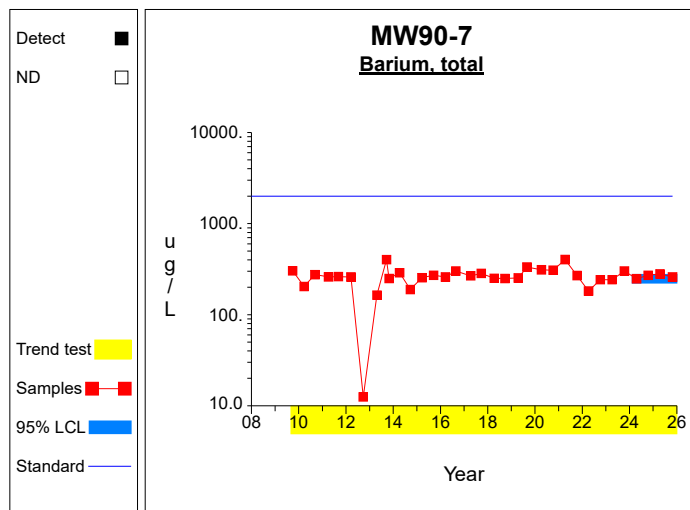


Graph 10

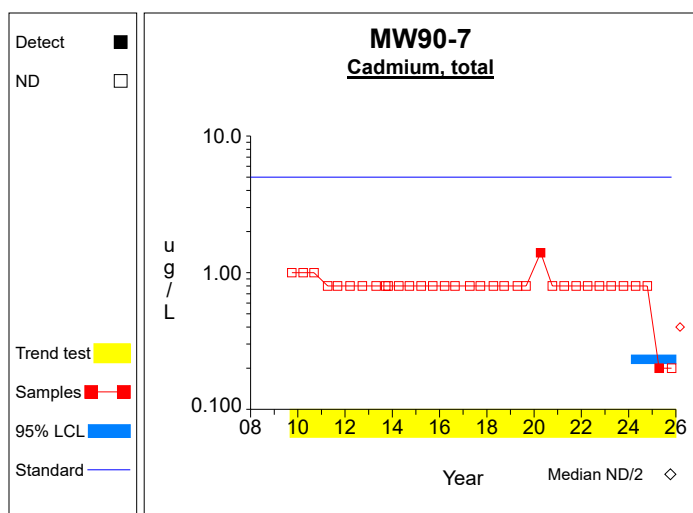
Confidence Limits (Assessment)



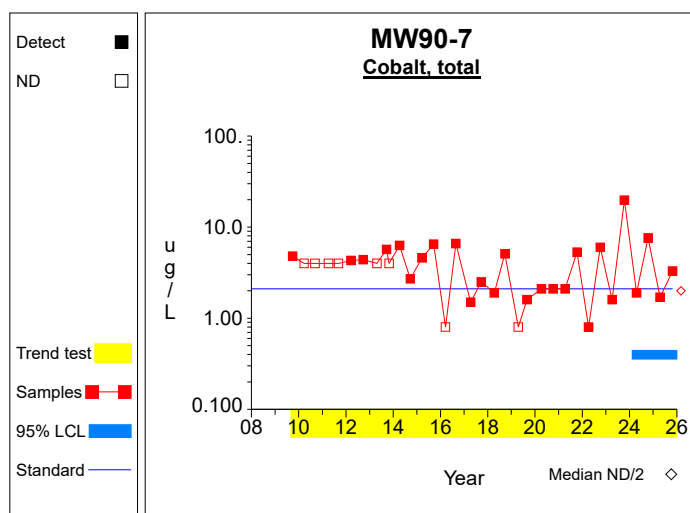
Graph 11



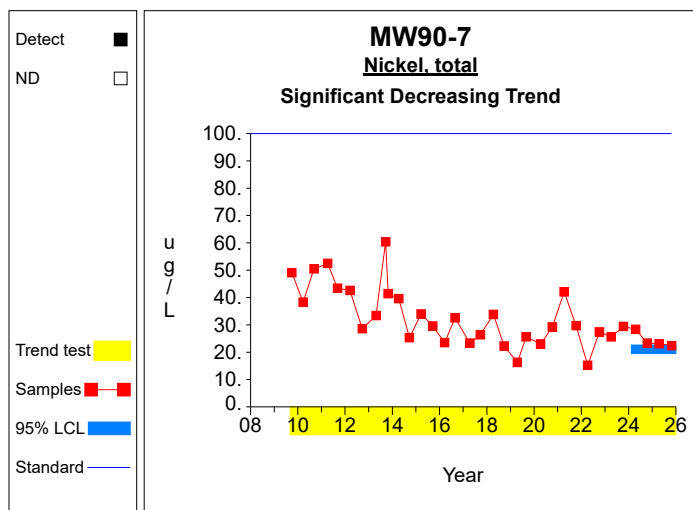
Graph 12



Graph 13

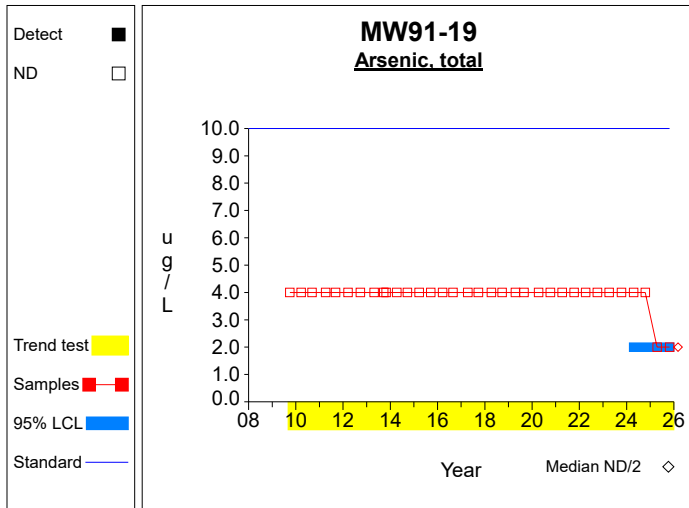


Graph 14

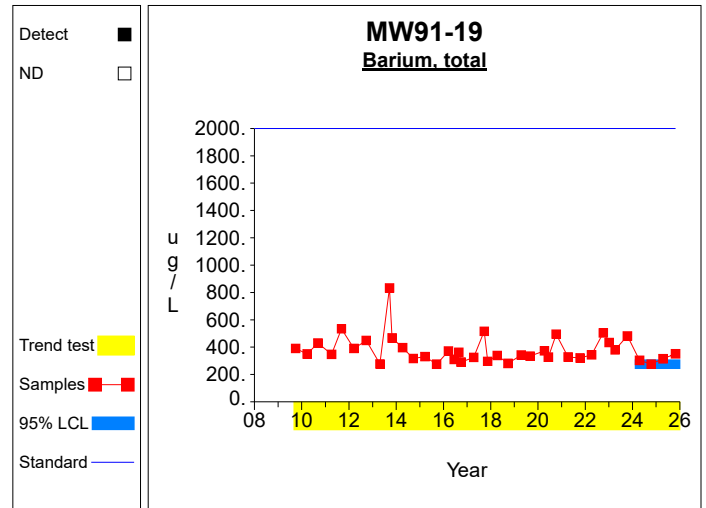


Graph 15

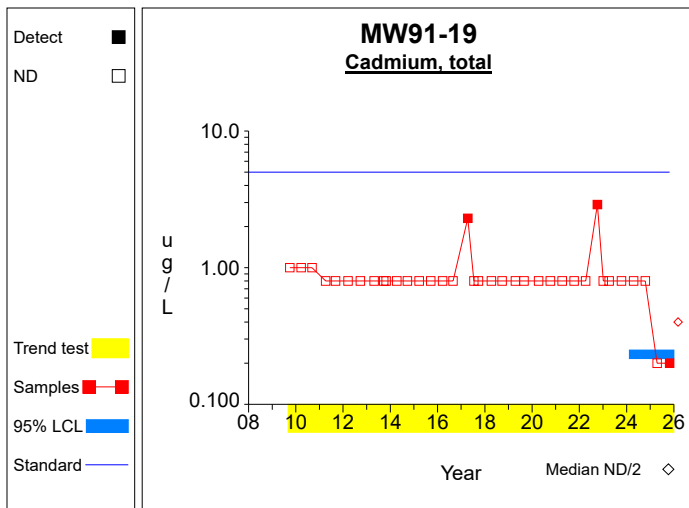
Confidence Limits (Assessment)



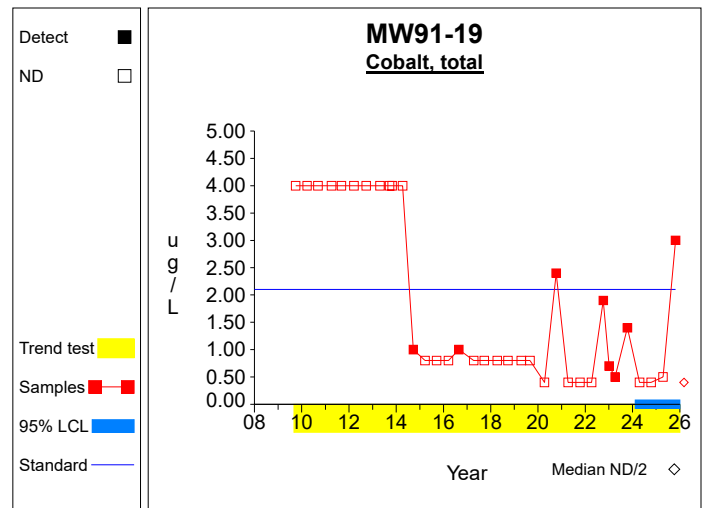
Graph 16



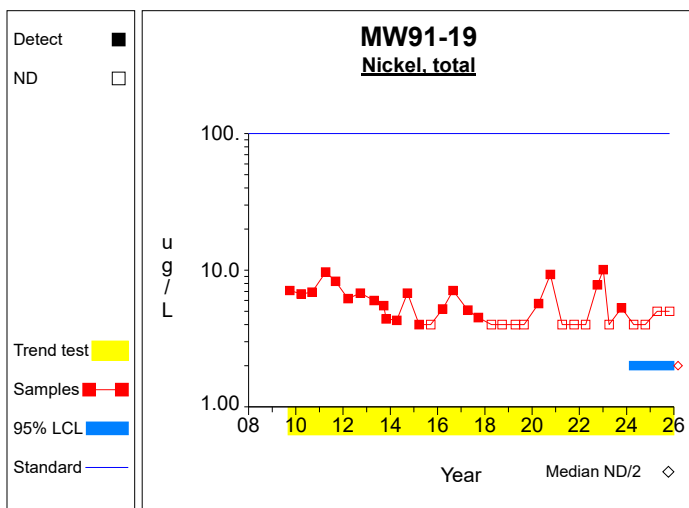
Graph 17



Graph 18



Graph 19



Graph 20

Attachment D

Summary Tables and Graphs for the Intrawell Comparisons

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Antimony, total	ug/L	MW90-14	26	8	37			1.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW90-14	26	8	37			2.0000	2.0000			8.9000	nonpar	.99	**
Barium, total	ug/L	MW90-14	26	8	37	409.0000	204.8559	316.0000	261.0000	409.0000	409.0000	1740.5630	normal		
Beryllium, total	ug/L	MW90-14	26	8	37			0.5000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW90-14	26	8	37	4.2308	8.3210	2.5000	1.4000	4.2308	4.2308	58.3173	normal		
Chromium, total	ug/L	MW90-14	26	8	37			1.4000	1.0000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW90-14	26	8	37	3.2500	1.6698	0.5000	0.5000	3.2500	3.2500	14.1036	normal		
Copper, total	ug/L	MW90-14	26	8	37	5.5846	3.4028	5.0000	5.0000	5.5846	5.5846	27.7027	normal		
Lead, total	ug/L	MW90-14	26	8	37			1.0000	1.0000			6.2000	nonpar	.99	**
Nickel, total	ug/L	MW90-14	26	8	37	33.3231	12.8175	10.8000	17.6000	33.3231	33.3231	116.6368	normal		
Selenium, total	ug/L	MW90-14	26	8	37			2.0000	2.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW90-14	26	8	37			5.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW90-14	26	8	37			0.5000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW90-14	26	8	37			2.0000	2.0000			26.4000	nonpar	.99	**
Zinc, total	ug/L	MW90-14	26	8	37	10.7115	6.7267	5.0000	7.8000	10.7115	10.7115	54.4354	normal		
Antimony, total	ug/L	MW90-17	25	8	33			1.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW90-17	25	8	33			2.0000	2.0000			4.0000	nonpar	.99	**
Barium, total	ug/L	MW90-17	25	8	33	238.2400	42.2328	337.0000	321.0000	483.8380	534.9234	512.7530	normal		
Beryllium, total	ug/L	MW90-17	25	8	33			0.5000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW90-17	25	8	34			0.2000	0.2000			1.1000	nonpar	.99	**
Chromium, total	ug/L	MW90-17	24	8	33			2.8000	2.8000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW90-17	25	8	33			0.5000	0.5000			0.8000	nonpar	.99	**
Copper, total	ug/L	MW90-17	25	8	33			5.0000	5.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW90-17	25	8	33			1.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW90-17	25	8	33			5.0000	5.0000			7.1000	nonpar	.99	**
Selenium, total	ug/L	MW90-17	25	8	33			2.0000	2.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW90-17	25	8	33			5.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW90-17	25	8	33			0.5000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW90-17	25	8	33			2.0000	2.0000			20.1000	nonpar	.99	**
Zinc, total	ug/L	MW90-17	25	8	34			5.0000	33.7000			10.5000	nonpar	.99	**
Antimony, total	ug/L	MW90-4	26	8	37			1.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW90-4	26	8	37			2.0000	2.0000			4.5000	nonpar	.99	**
Barium, total	ug/L	MW90-4	28	8	39	385.6786	82.5501	377.0000	403.0000	385.6786	385.6786	922.2544	normal		
Beryllium, total	ug/L	MW90-4	26	8	37			0.5000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW90-4	26	9	38			0.2000	0.6000			1.2000	nonpar	.99	**
Chromium, total	ug/L	MW90-4	26	8	37			1.0000	1.1000			9.9000	nonpar	.99	**
Cobalt, total	ug/L	MW90-4	26	9	38			0.5000	0.5000			0.8000	nonpar	.99	**
Copper, total	ug/L	MW90-4	26	8	37	5.0500	2.1098	5.0000	5.0000	5.0500	5.0500	18.7639	normal		
Lead, total	ug/L	MW90-4	26	8	37			1.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW90-4	26	8	37	6.8615	3.6953	5.0000	5.0000	6.8615	6.8615	30.8810	normal		
Selenium, total	ug/L	MW90-4	26	8	37			2.0000	2.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW90-4	26	8	37			5.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW90-4	26	8	37			0.5000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW90-4	26	8	37			2.0000	2.0000			30.0000	nonpar	.99	**
Zinc, total	ug/L	MW90-4	26	8	37	11.2769	6.5059	5.0000	8.2000	11.2769	11.2769	53.5652	normal		
Antimony, total	ug/L	MW90-7	26	8	38			1.0000	1.0000			2.0000	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

Conf = confidence level for passing initial test or one verification resample (nonparametric test only).

* - Insufficient Data.

** - Detection Frequency < 25%.

*** - Zero Variance.

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Arsenic, total	ug/L	MW90-7	26	8	38	4.8154	1.7681	4.3000	3.2000	4.8154	4.8154	16.3080	normal		
Barium, total	ug/L	MW90-7	25	8	38	274.9600	53.4864	280.0000	259.0000	274.9600	274.9600	622.6213	normal		
Beryllium, total	ug/L	MW90-7	26	8	38			0.5000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW90-7	26	8	38			0.2000	0.2000			1.4000	nonpar	.99	**
Chromium, total	ug/L	MW90-7	26	8	38			1.0000	1.0000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW90-7	26	8	38	3.9269	1.5019	1.7000	3.3000	3.9269	3.9269	13.6891	normal		
Copper, total	ug/L	MW90-7	26	8	38			5.0000	5.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW90-7	26	8	38			1.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW90-7	26	8	38	34.4808	10.8781	23.1000	22.4000	34.4808	34.4808	105.1886	normal		
Selenium, total	ug/L	MW90-7	24	8	38			2.0000	2.0000			6.2000	nonpar	.99	**
Silver, total	ug/L	MW90-7	26	8	38			5.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW90-7	26	8	38			0.5000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW90-7	26	8	38			2.0000	2.0000			23.1000	nonpar	.99	**
Zinc, total	ug/L	MW90-7	26	8	38			5.0000	5.0000			15.0000	nonpar	.99	**
Antimony, total	ug/L	MW91-19	26	8	37			1.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW91-19	26	8	37			2.0000	2.0000			4.0000	nonpar	.99	**
Barium, total	ug/L	MW91-19	30	9	42	379.9667	110.3613	315.0000	351.0000	379.9667	379.9667	1097.3152	normal		
Beryllium, total	ug/L	MW91-19	26	8	37			0.5000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW91-19	27	9	39			0.2000	0.2000			2.3000	nonpar	.99	**
Chromium, total	ug/L	MW91-19	26	8	37			1.0000	1.4000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW91-19	26	9	38			0.5000	3.0000			2.4000	nonpar	.99	**
Copper, total	ug/L	MW91-19	26	8	37			5.0000	5.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW91-19	26	8	37			1.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW91-19	26	9	38	5.6769	1.7168	5.0000	5.0000	5.6769	5.6769	16.8362	normal		
Selenium, total	ug/L	MW91-19	26	8	37			2.0000	2.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	MW91-19	26	8	37			5.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW91-19	26	8	37			0.5000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW91-19	26	8	37			2.0000	2.0000			20.8000	nonpar	.99	**
Zinc, total	ug/L	MW91-19	26	8	37			5.0000	6.9000			18.1000	nonpar	.99	**
Antimony, total	ug/L	MW91-20	26	8	34			1.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	MW91-20	26	8	34			2.0000	2.0000			4.0000	nonpar	.99	**
Barium, total	ug/L	MW91-20	26	8	34	175.2692	25.4394	183.0000	184.0000	175.2692	175.2692	340.6255	normal		
Beryllium, total	ug/L	MW91-20	26	8	34			0.5000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	MW91-20	26	9	35			0.9000	0.2000			0.8000	nonpar	.99	**
Chromium, total	ug/L	MW91-20	26	8	34			1.3000	1.4000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	MW91-20	26	8	34			0.5000	0.5000			0.8000	nonpar	.99	**
Copper, total	ug/L	MW91-20	26	8	34			5.0000	5.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	MW91-20	26	8	34			1.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	MW91-20	26	8	34	4.3269	0.6315	5.0000	5.0000	4.3269	4.3269	8.4320	normal		
Selenium, total	ug/L	MW91-20	26	8	34	5.9577	4.1790	2.0000	2.0000	5.9577	5.9577	33.1213	normal		
Silver, total	ug/L	MW91-20	26	8	34			5.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	MW91-20	26	8	34			0.5000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	MW91-20	26	8	34			2.0000	2.0000			22.4000	nonpar	.99	**
Zinc, total	ug/L	MW91-20	26	8	34			5.0000	7.2000			14.6000	nonpar	.99	**
Antimony, total	ug/L	SW-3	25	8	34			1.0000	1.0000			2.0000	nonpar	.99	**
Arsenic, total	ug/L	SW-3	25	8	34			2.0000	2.0000			4.0000	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

Conf = confidence level for passing initial test or one verification resample (nonparametric test only).

* - Insufficient Data.

** - Detection Frequency < 25%.

*** - Zero Variance.

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Barium, total	ug/L	SW-3	25	8	34	291.6800	64.2766	252.0000	301.0000	291.6800	291.6800	709.4777	normal	.99	**
Beryllium, total	ug/L	SW-3	25	8	34			0.5000	0.5000			4.0000	nonpar	.99	**
Cadmium, total	ug/L	SW-3	25	8	34			0.2000	0.2000			0.8000	nonpar	.99	**
Chromium, total	ug/L	SW-3	25	8	34			1.0000	1.0000			8.0000	nonpar	.99	**
Cobalt, total	ug/L	SW-3	25	8	34			0.5000	0.5000			0.8000	nonpar	.99	**
Copper, total	ug/L	SW-3	25	8	34			5.0000	5.0000			4.0000	nonpar	.99	**
Lead, total	ug/L	SW-3	25	8	34			1.0000	1.0000			4.0000	nonpar	.99	**
Nickel, total	ug/L	SW-3	25	8	34			5.0000	5.0000			7.6000	nonpar	.99	**
Selenium, total	ug/L	SW-3	25	8	34			2.0000	2.0000			4.0000	nonpar	.99	**
Silver, total	ug/L	SW-3	25	8	34			5.0000	5.0000			4.0000	nonpar	.99	**
Thallium, total	ug/L	SW-3	25	8	34			0.5000	0.5000			4.0000	nonpar	.99	**
Vanadium, total	ug/L	SW-3	25	8	34			2.0000	2.0000			24.5000	nonpar	.99	**
Zinc, total	ug/L	SW-3	25	8	34			5.0000	5.0000			22.4000	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

Conf = confidence level for passing initial test or one verification resample (nonparametric test only).

* - Insufficient Data.

** - Detection Frequency < 25%.

*** - Zero Variance.

Table 4

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

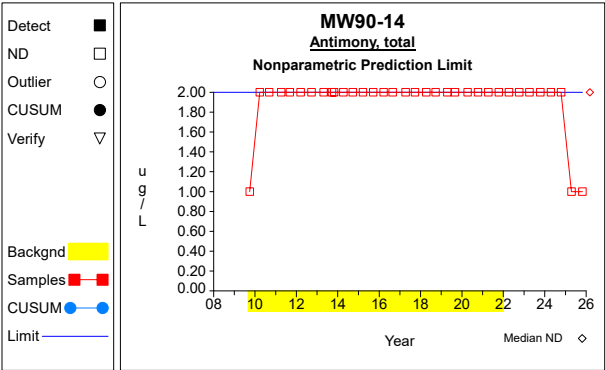
Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Cadmium, total	ug/L	MW90-17	09/07/2010	2.5000	< 2.5000	09/30/2009-10/11/2021	26	0.4819
Chromium, total	ug/L	MW90-17	09/07/2010	25.0000	< 25.0000	09/30/2009-10/11/2021	25	0.4893
Barium, total	ug/L	MW90-7	09/24/2012	12.5000		09/30/2009-10/11/2021	26	0.4819
Selenium, total	ug/L	MW90-7	04/24/2013	21.2000		09/30/2009-10/11/2021	26	0.4893
Selenium, total	ug/L	MW90-7	04/08/2014	20.2000		09/30/2009-10/11/2021	26	0.4893

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

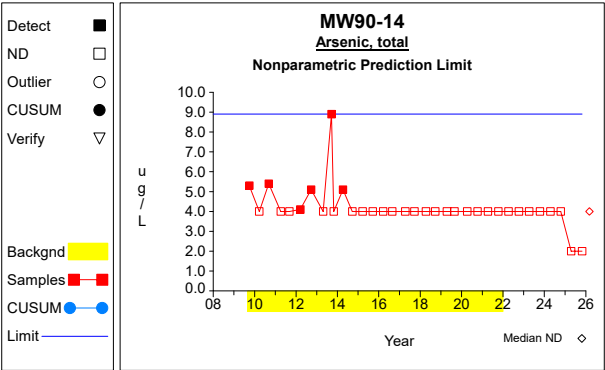
Date Range = Dates of the first and last measurements included in background at each well.

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

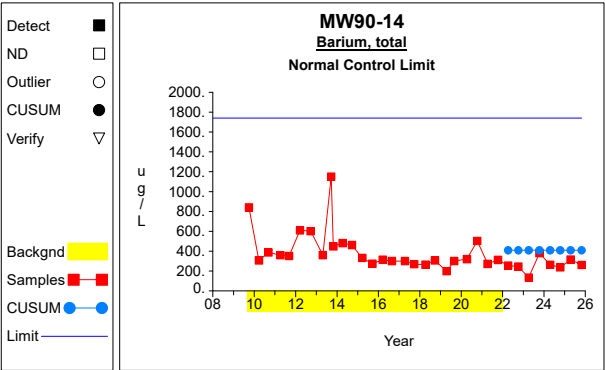
Intra-Well Control Charts / Prediction Limits



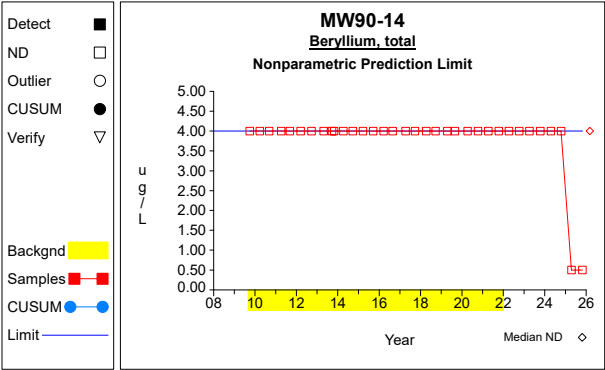
Graph 1



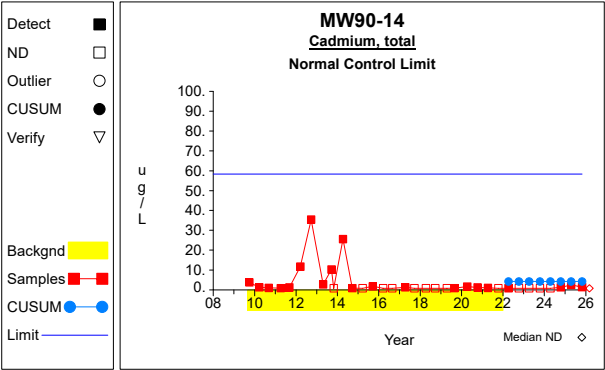
Graph 2



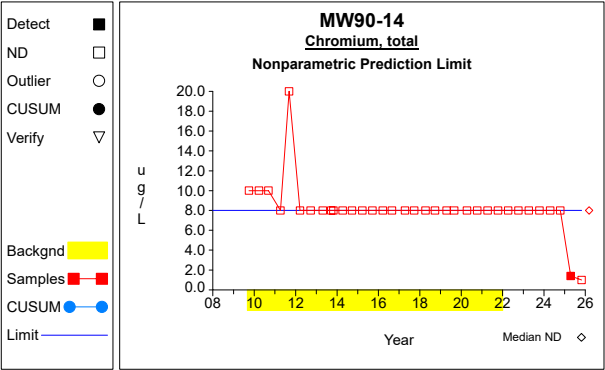
Graph 3



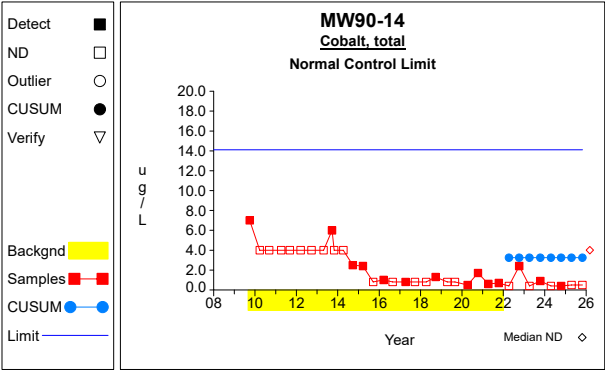
Graph 4



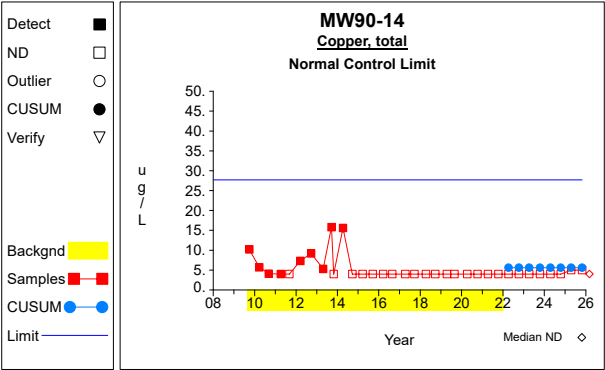
Graph 5



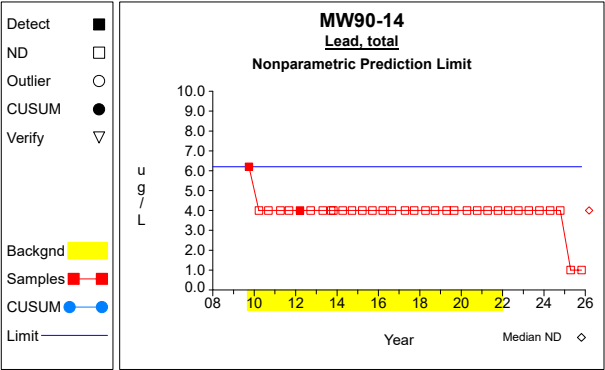
Graph 6



Graph 7

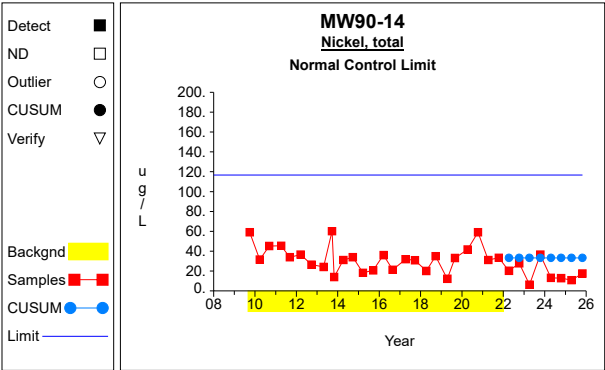


Graph 8

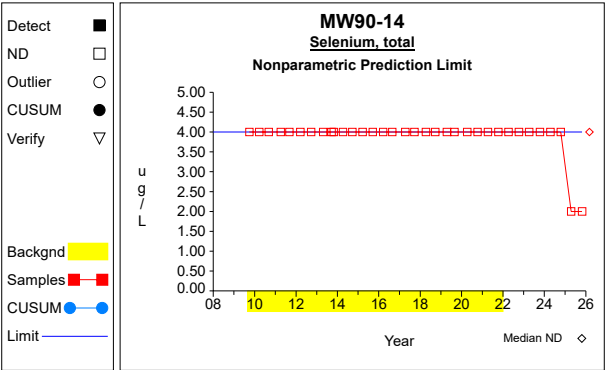


Graph 9

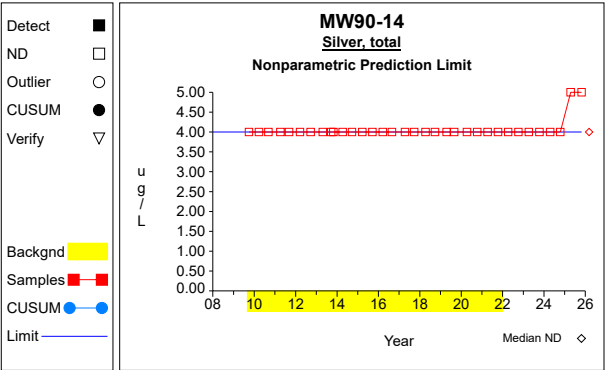
Intra-Well Control Charts / Prediction Limits



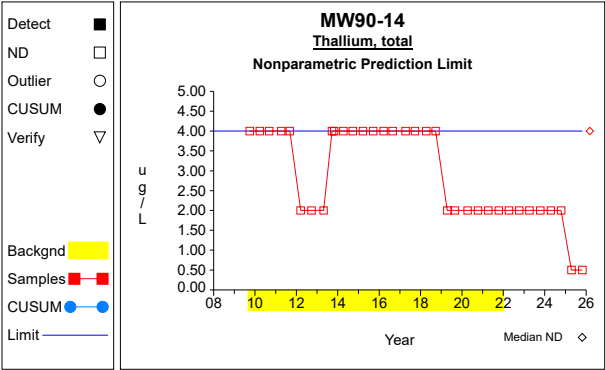
Graph 10



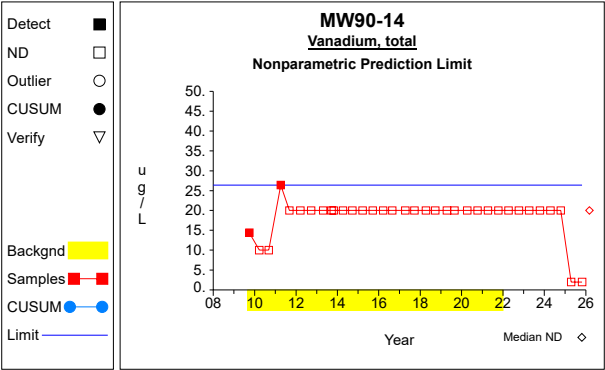
Graph 11



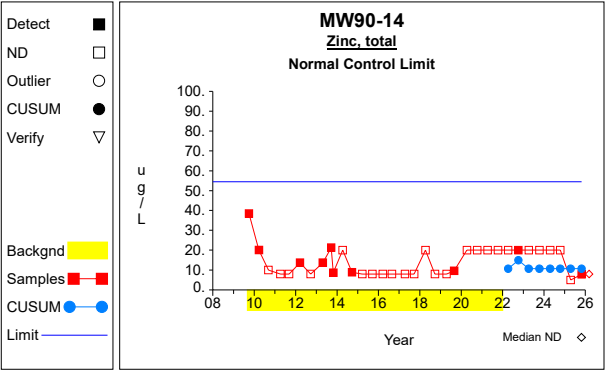
Graph 12



Graph 13

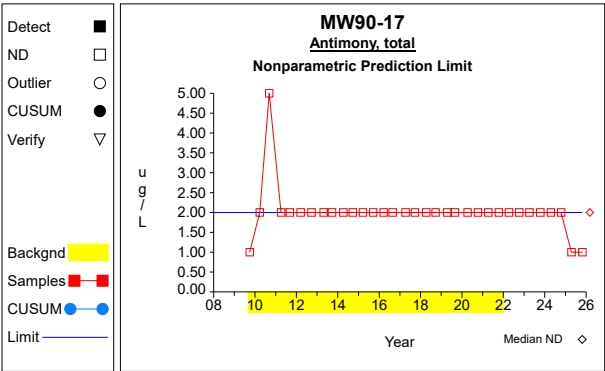


Graph 14

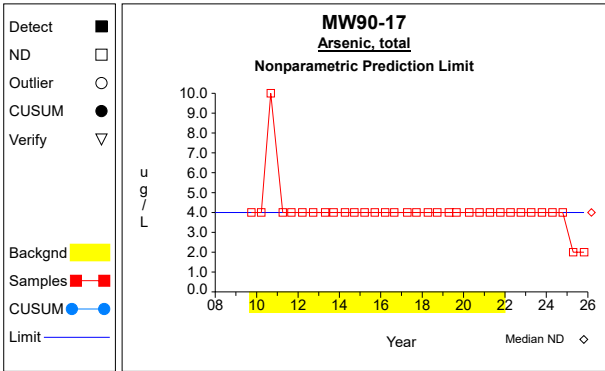


Graph 15

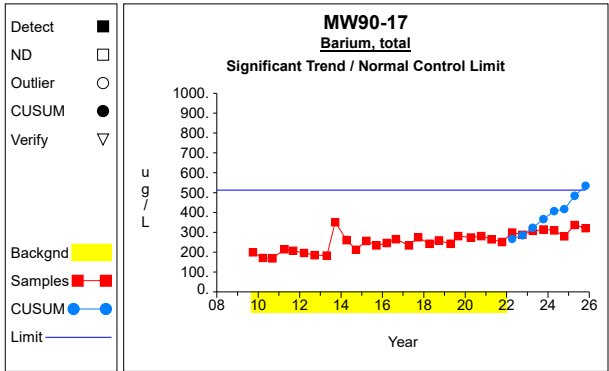
Intra-Well Control Charts / Prediction Limits



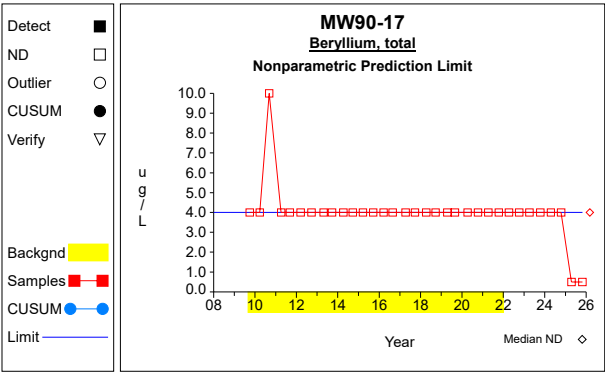
Graph 16



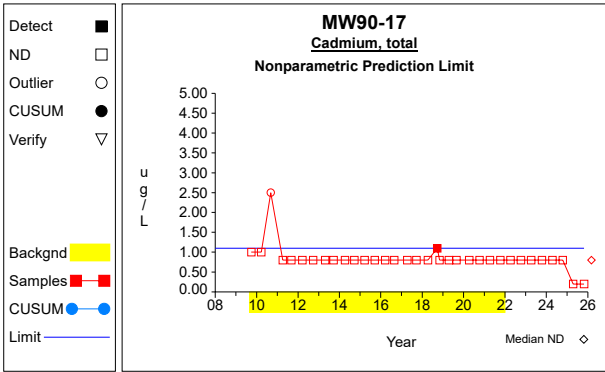
Graph 17



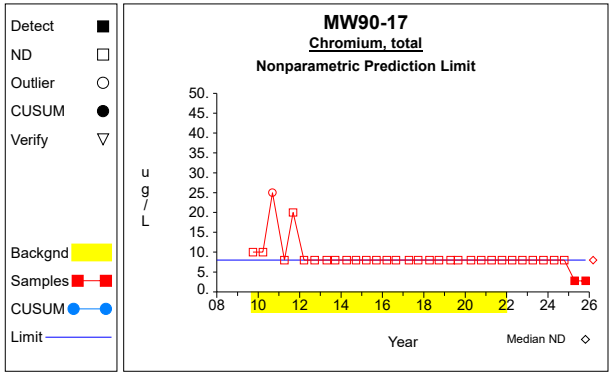
Graph 18



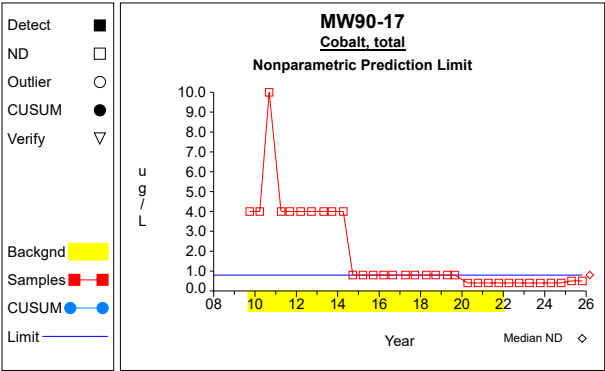
Graph 19



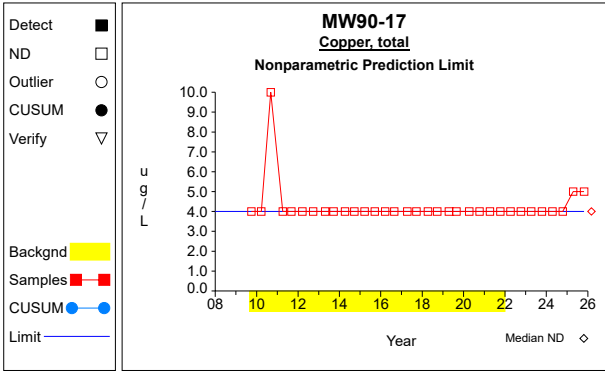
Graph 20



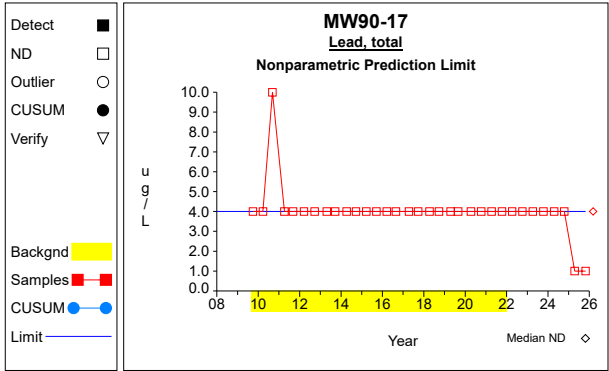
Graph 21



Graph 22

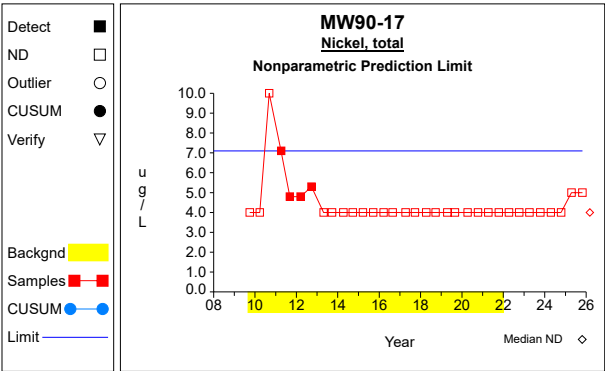


Graph 23

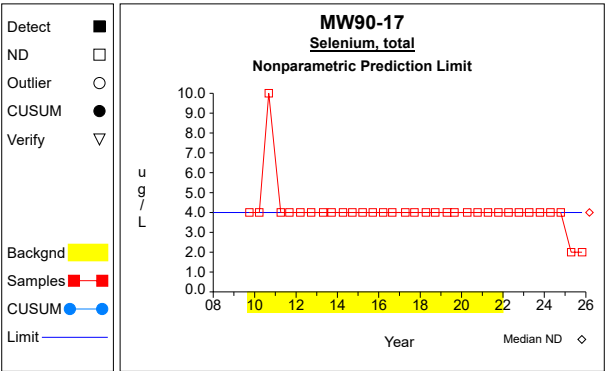


Graph 24

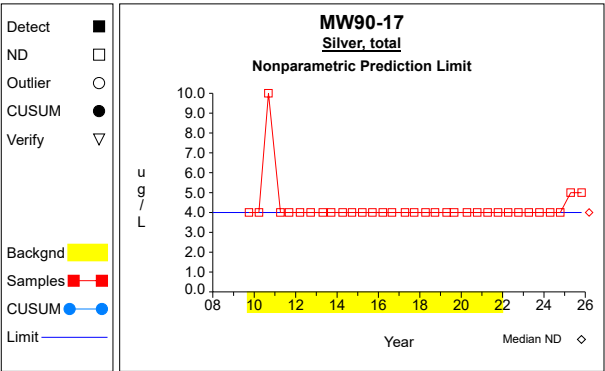
Intra-Well Control Charts / Prediction Limits



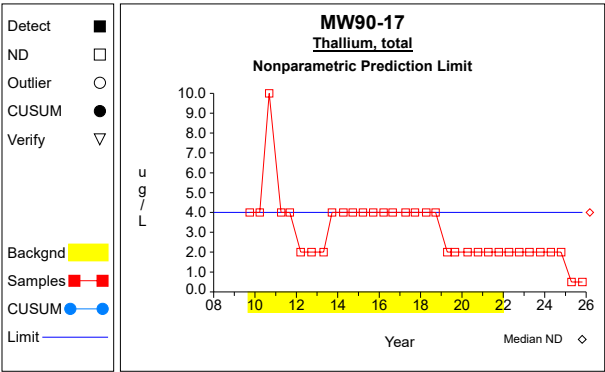
Graph 25



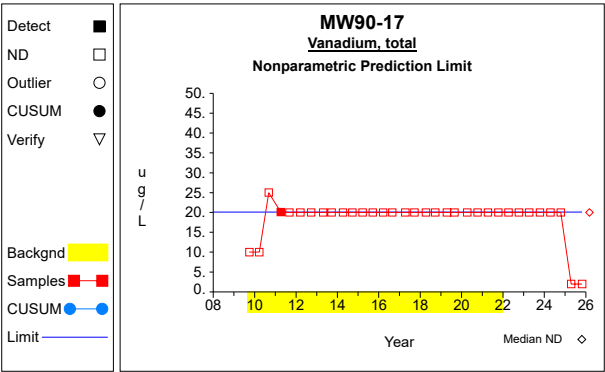
Graph 26



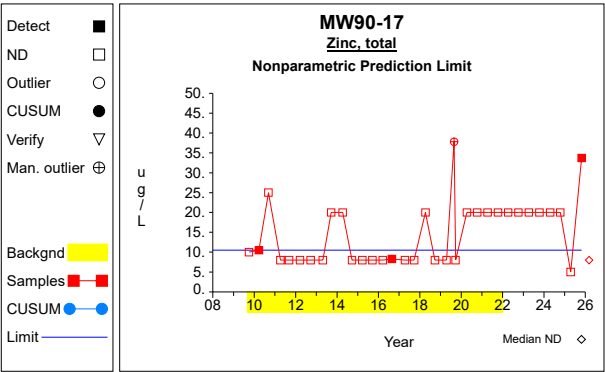
Graph 27



Graph 28

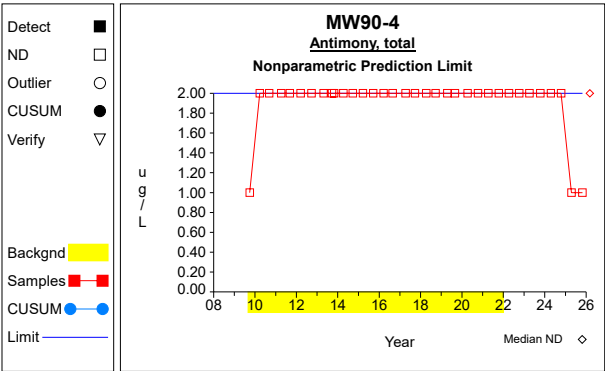


Graph 29

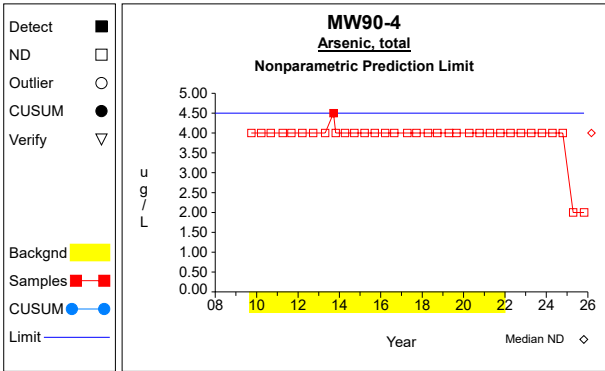


Graph 30

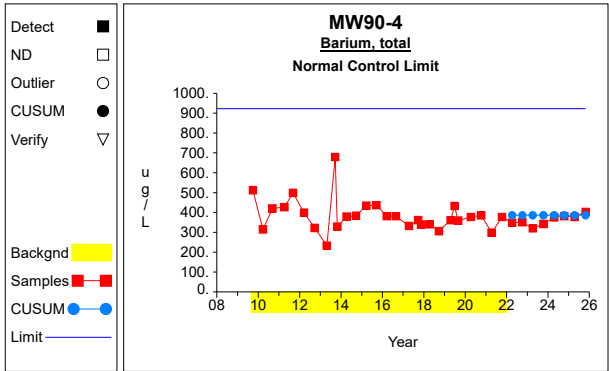
Intra-Well Control Charts / Prediction Limits



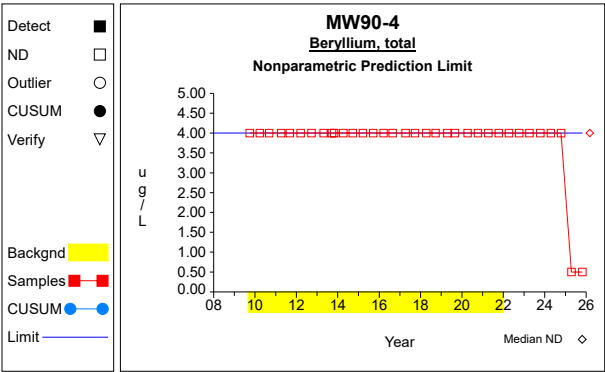
Graph 31



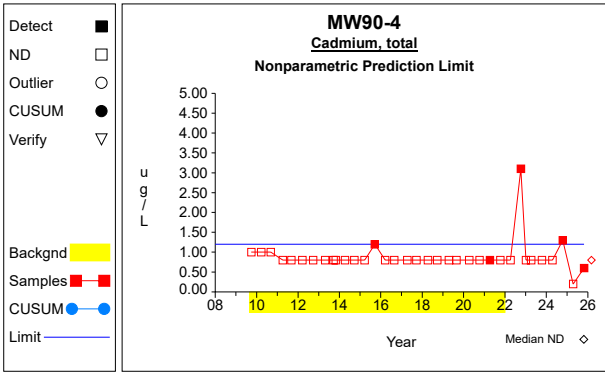
Graph 32



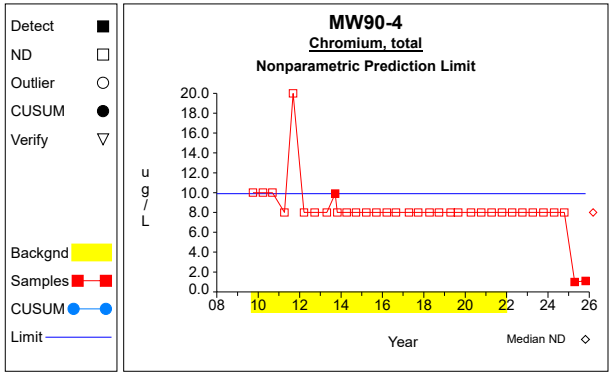
Graph 33



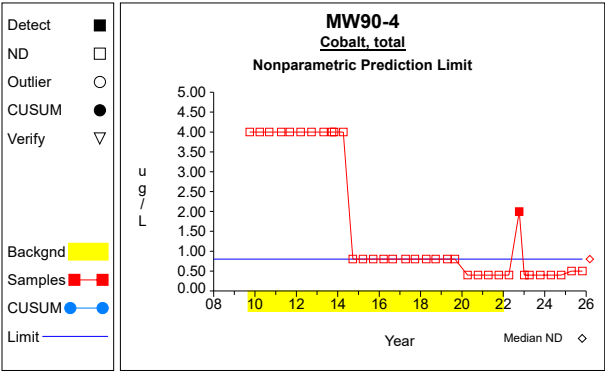
Graph 34



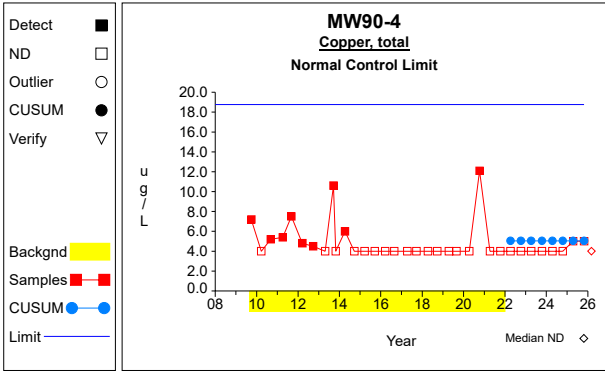
Graph 35



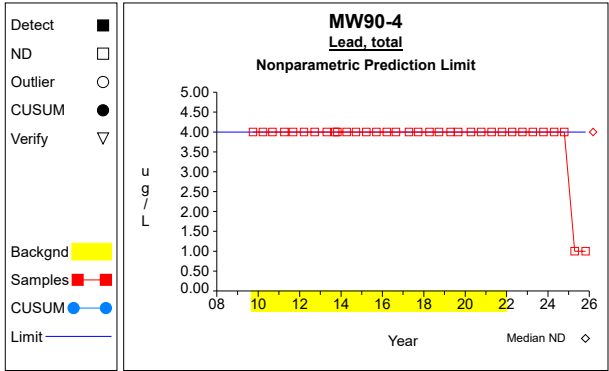
Graph 36



Graph 37

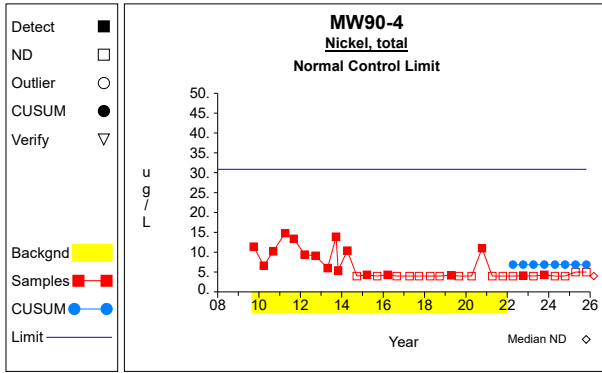


Graph 38

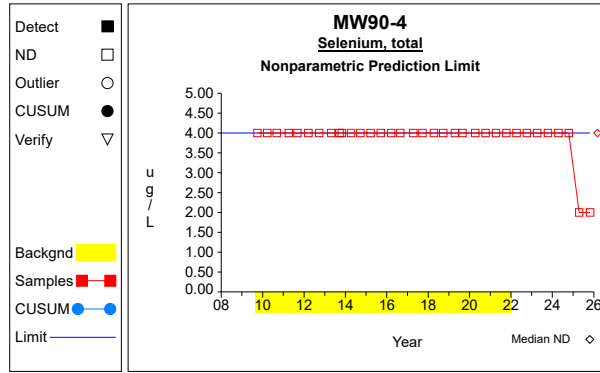


Graph 39

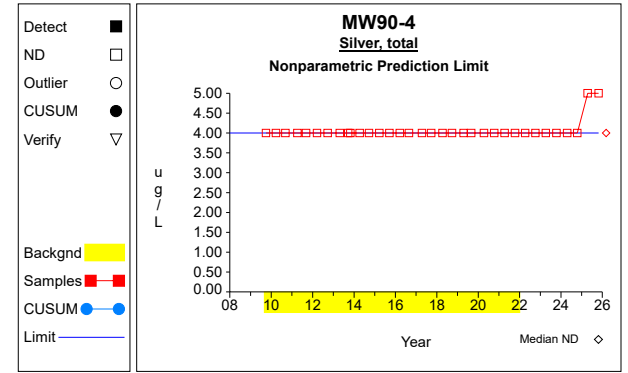
Intra-Well Control Charts / Prediction Limits



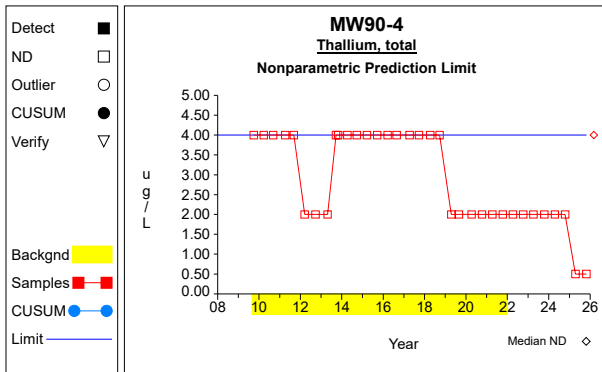
Graph 40



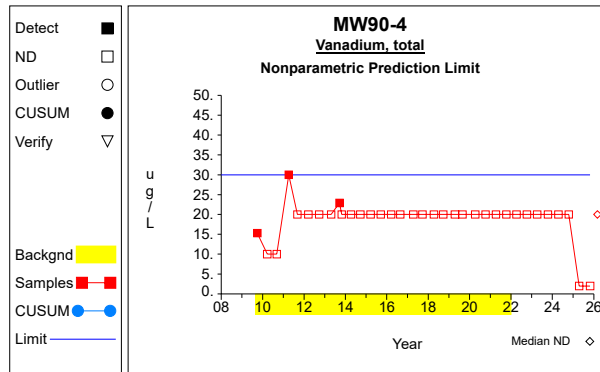
Graph 41



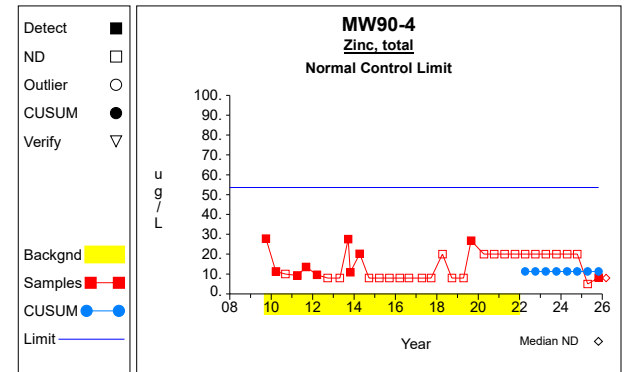
Graph 42



Graph 43

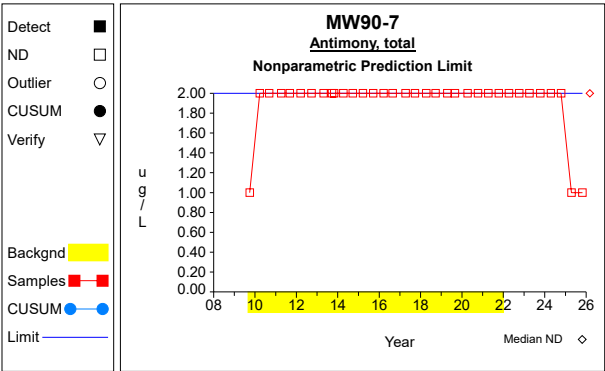


Graph 44

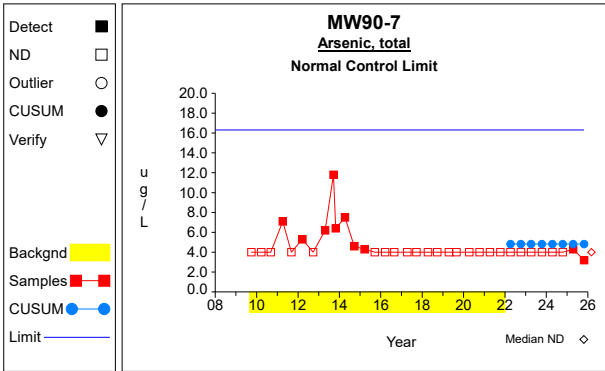


Graph 45

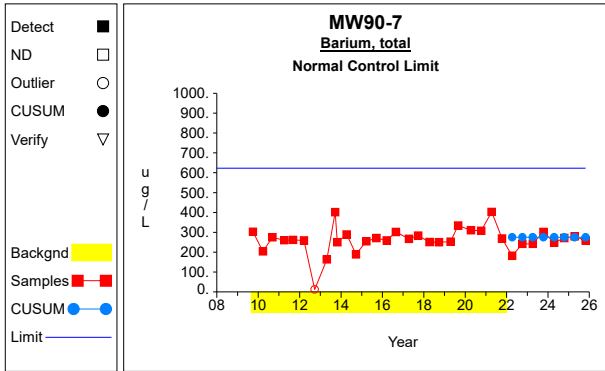
Intra-Well Control Charts / Prediction Limits



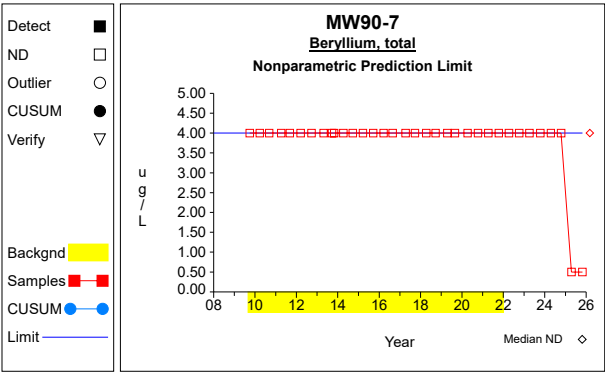
Graph 46



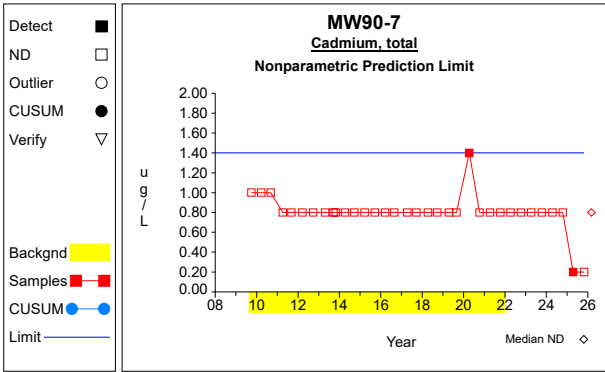
Graph 47



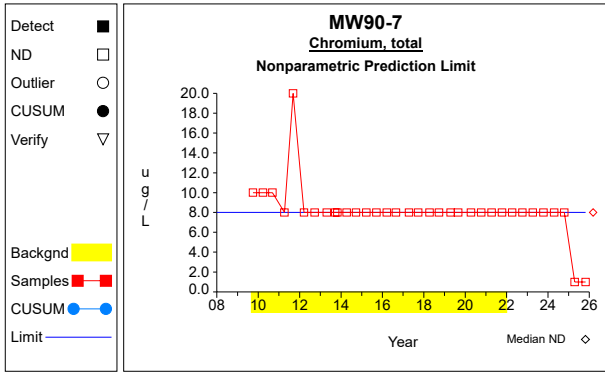
Graph 48



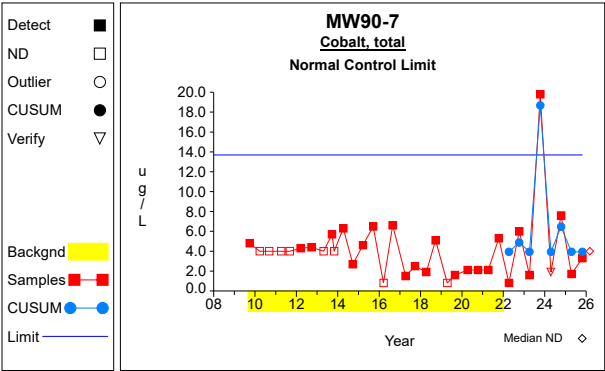
Graph 49



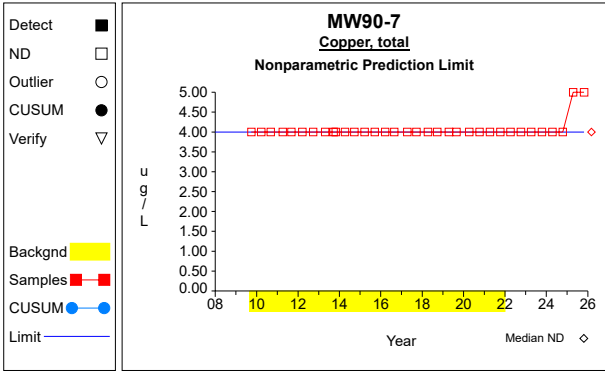
Graph 50



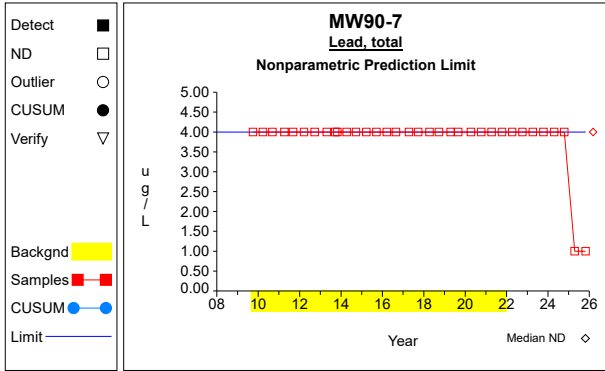
Graph 51



Graph 52

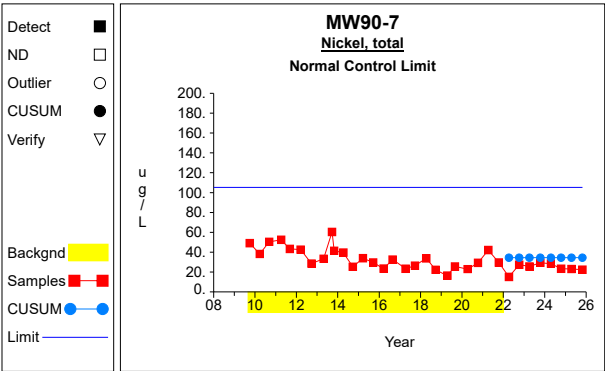


Graph 53

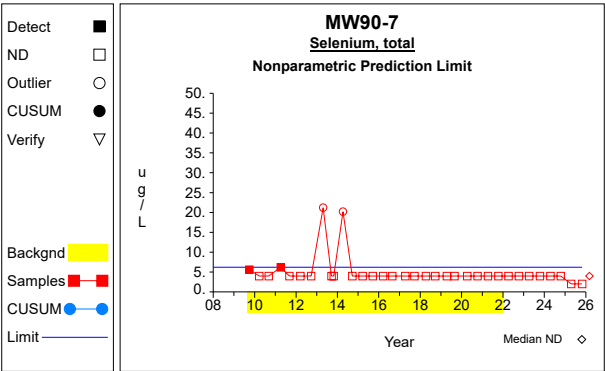


Graph 54

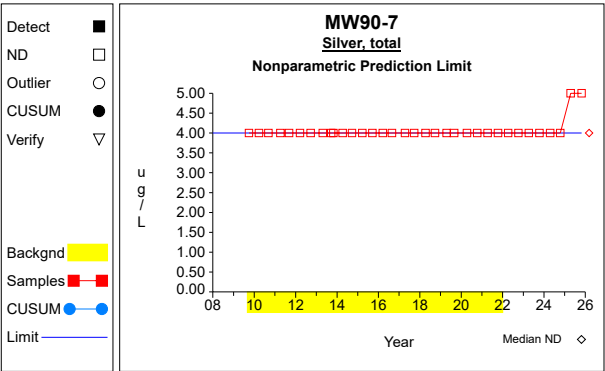
Intra-Well Control Charts / Prediction Limits



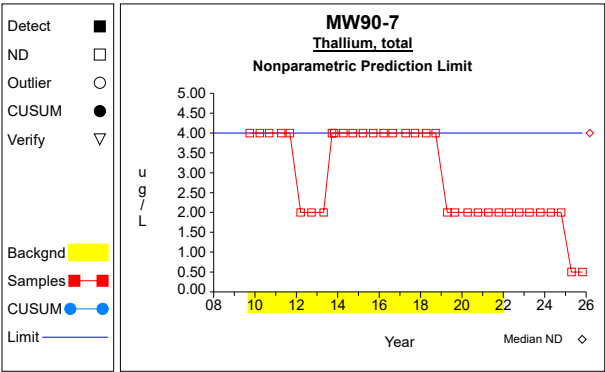
Graph 55



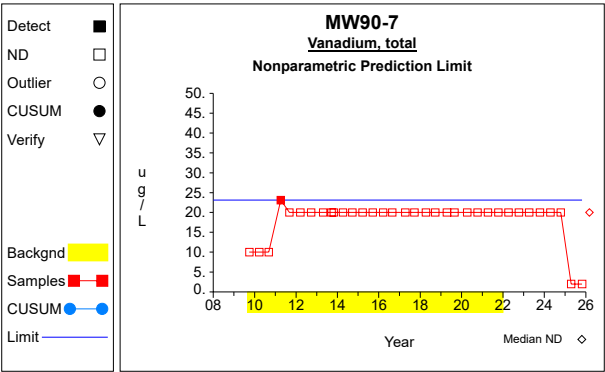
Graph 56



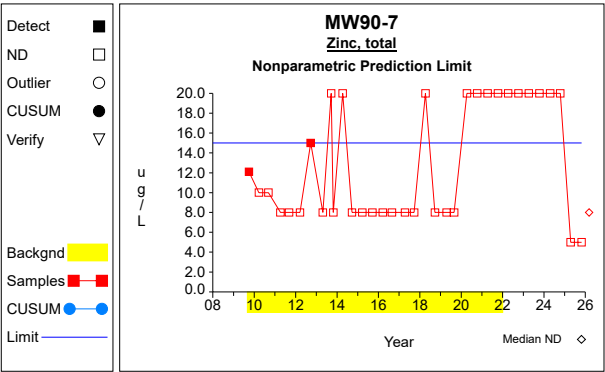
Graph 57



Graph 58

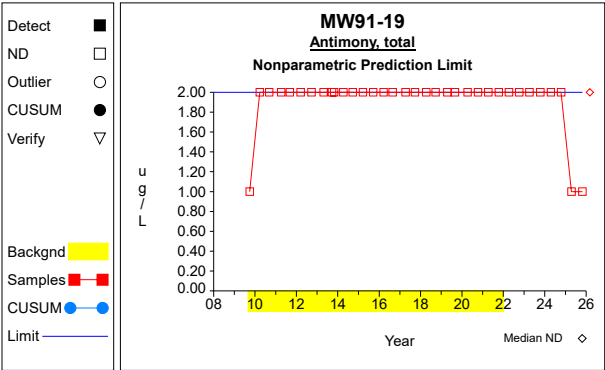


Graph 59

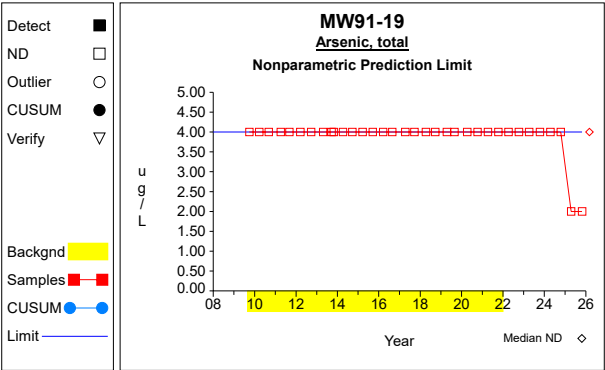


Graph 60

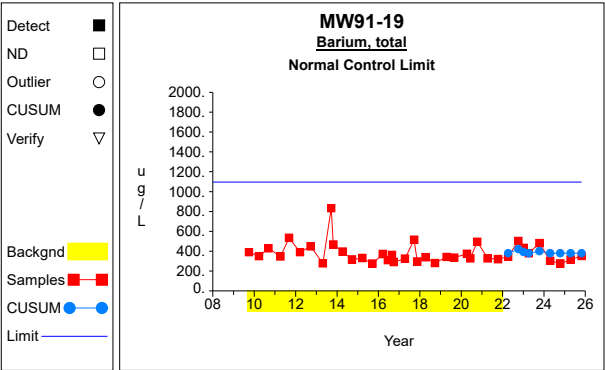
Intra-Well Control Charts / Prediction Limits



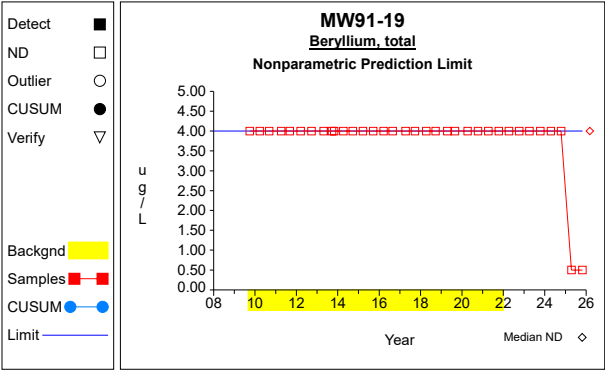
Graph 61



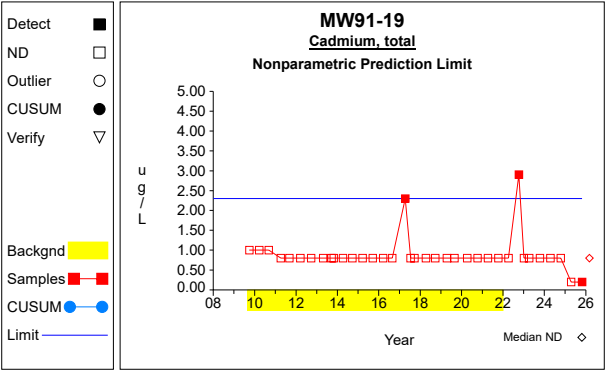
Graph 62



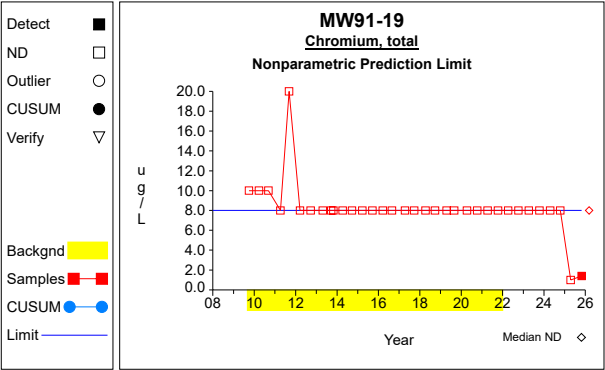
Graph 63



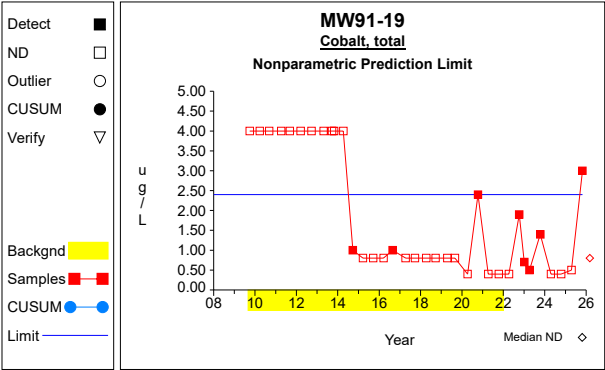
Graph 64



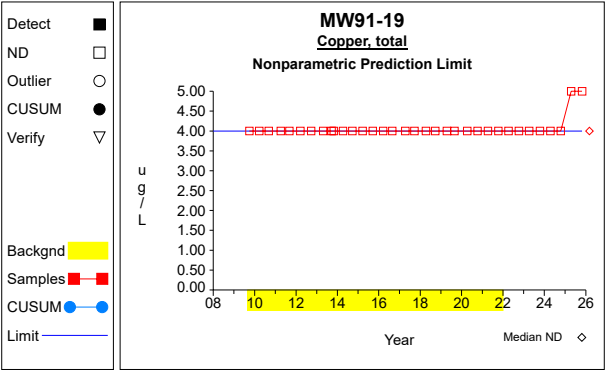
Graph 65



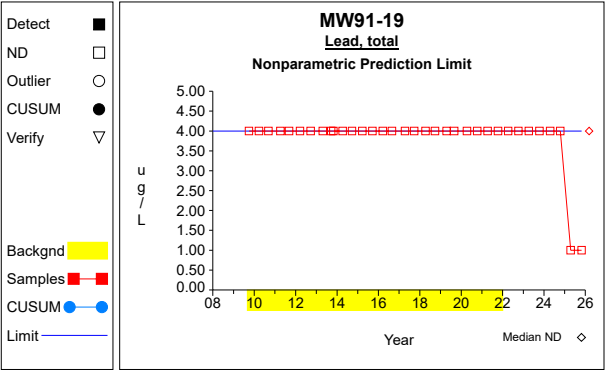
Graph 66



Graph 67

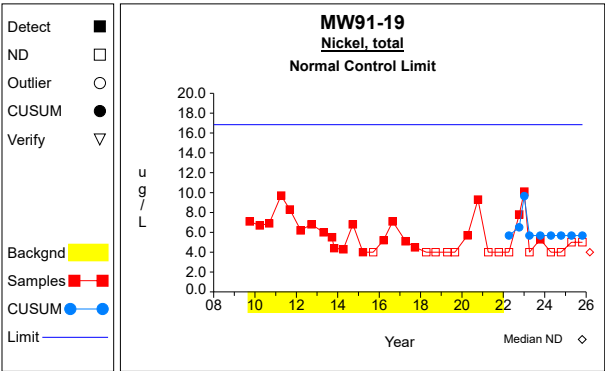


Graph 68

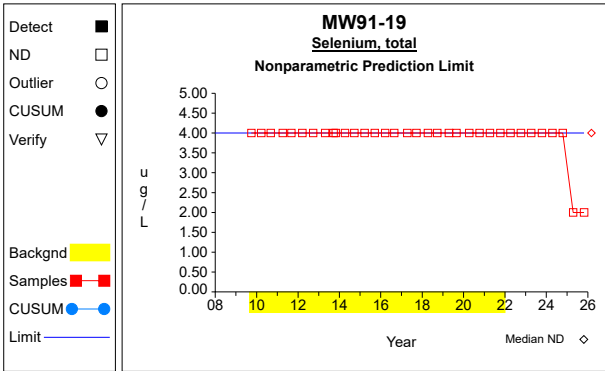


Graph 69

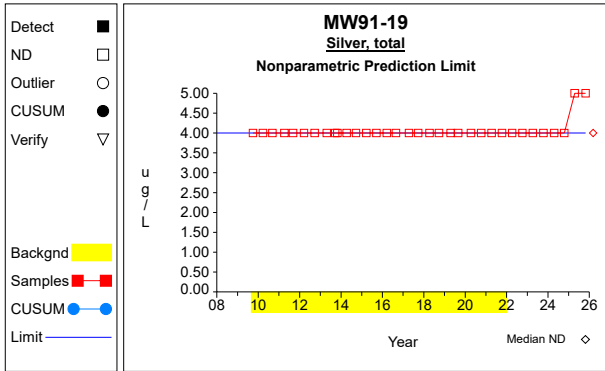
Intra-Well Control Charts / Prediction Limits



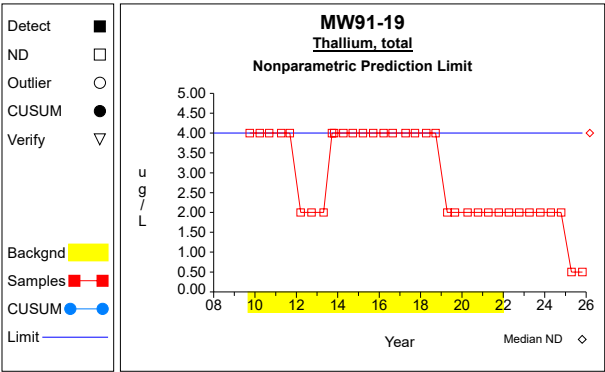
Graph 70



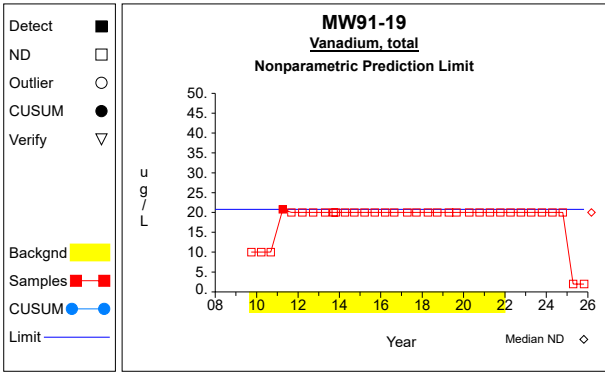
Graph 71



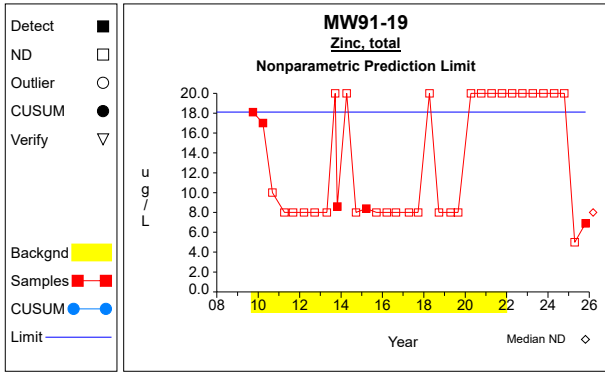
Graph 72



Graph 73

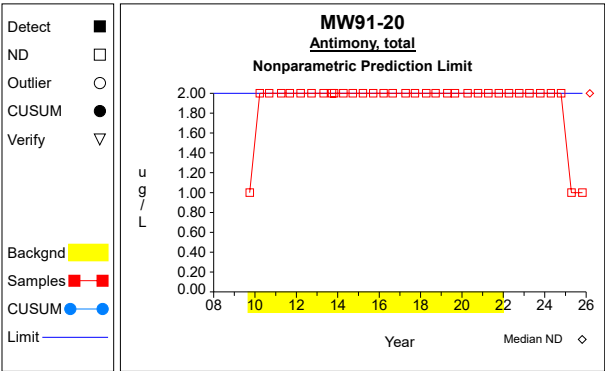


Graph 74

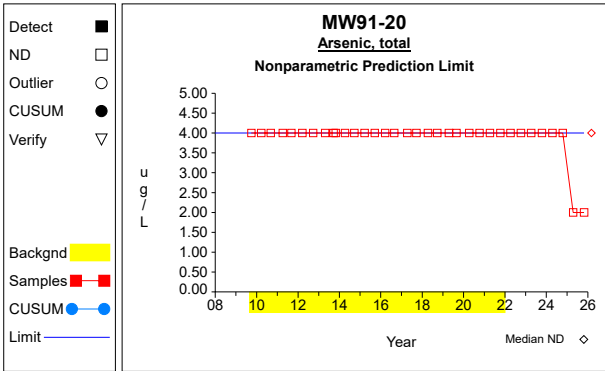


Graph 75

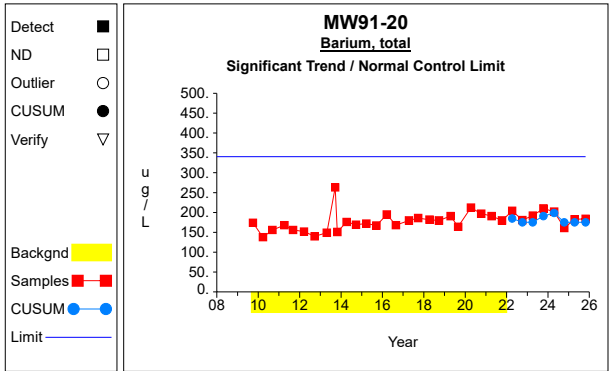
Intra-Well Control Charts / Prediction Limits



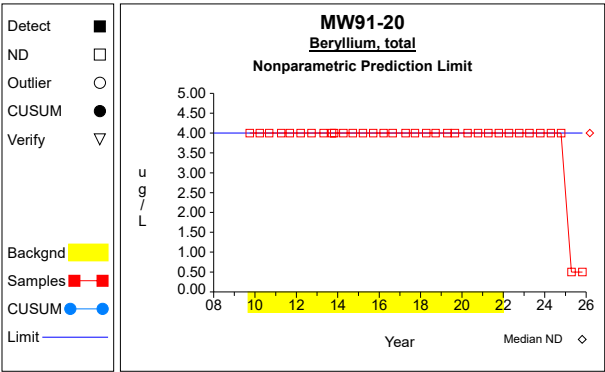
Graph 76



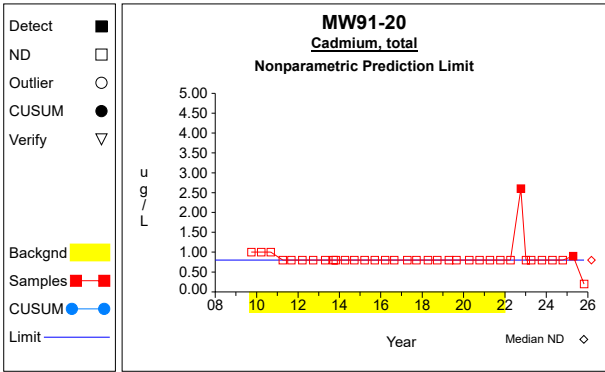
Graph 77



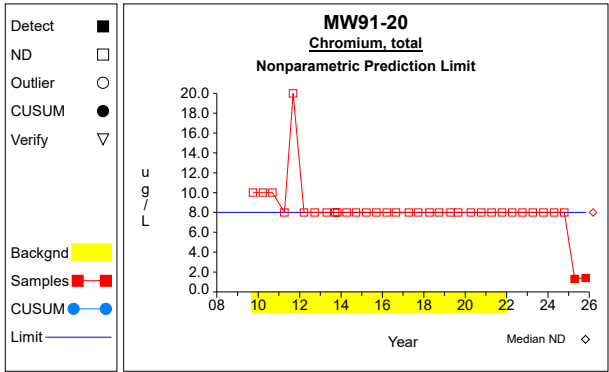
Graph 78



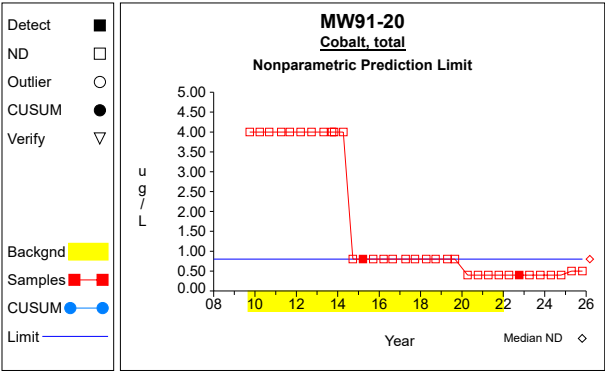
Graph 79



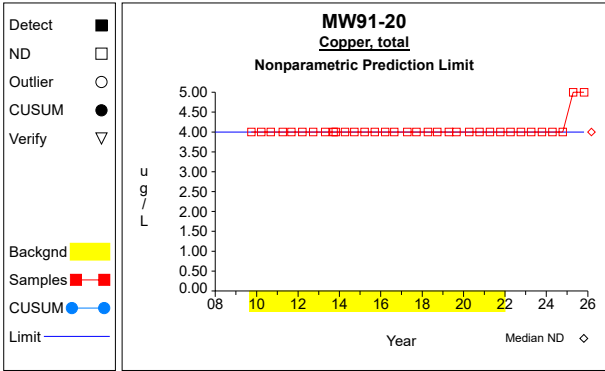
Graph 80



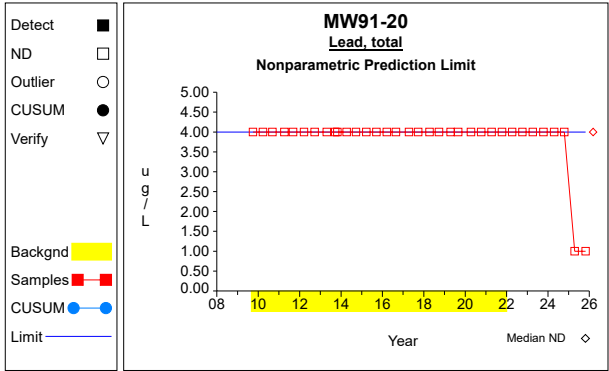
Graph 81



Graph 82

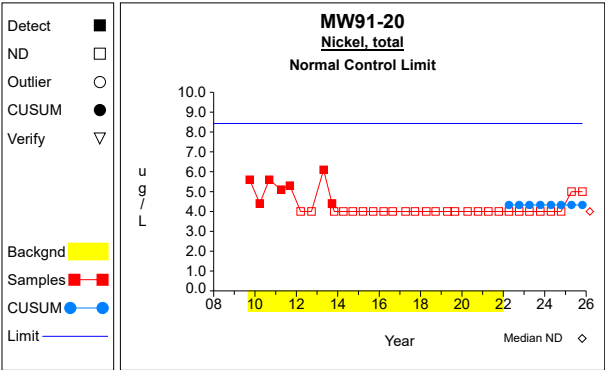


Graph 83

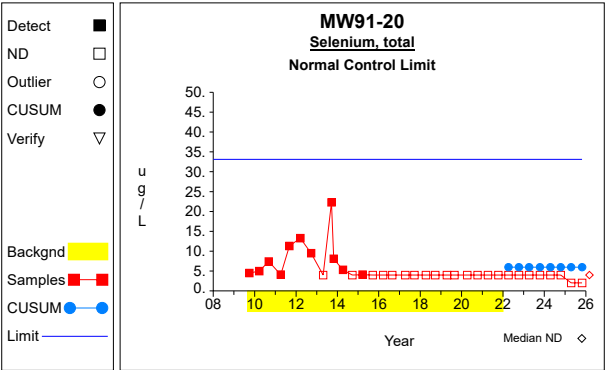


Graph 84

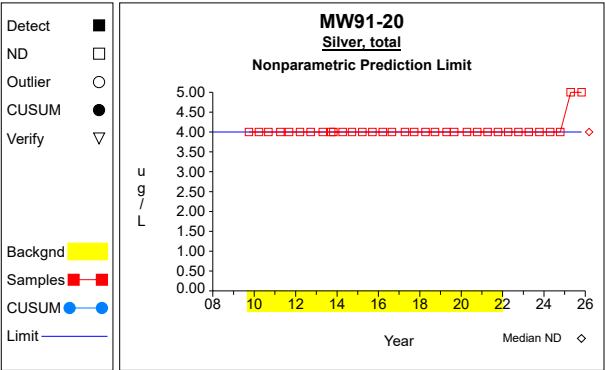
Intra-Well Control Charts / Prediction Limits



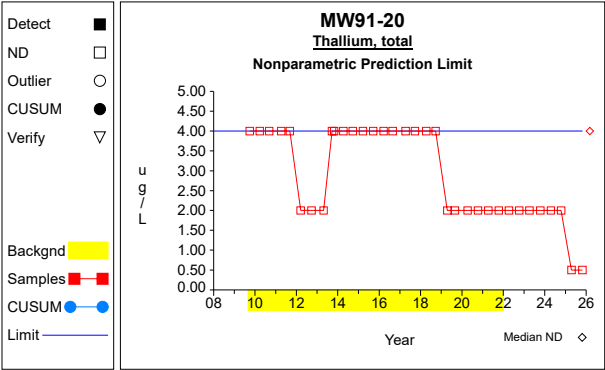
Graph 85



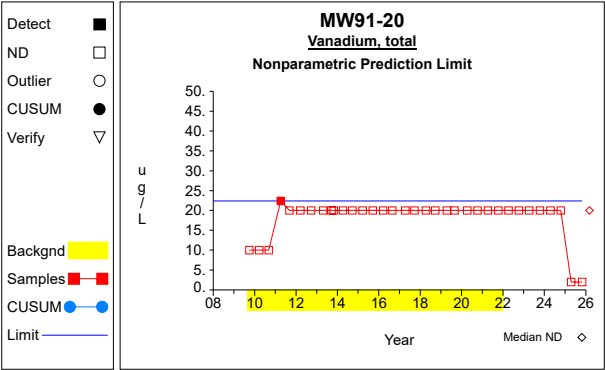
Graph 86



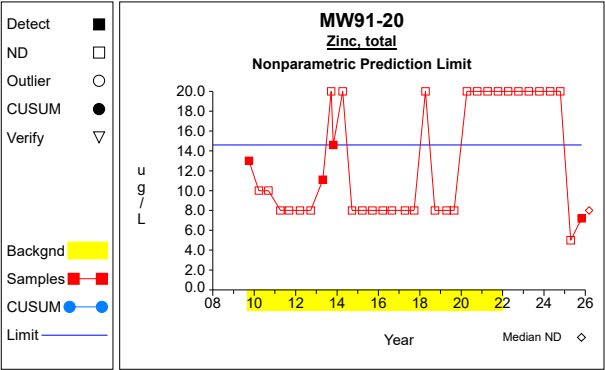
Graph 87



Graph 88

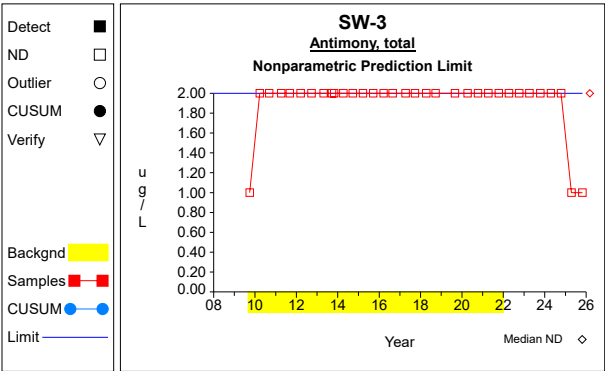


Graph 89

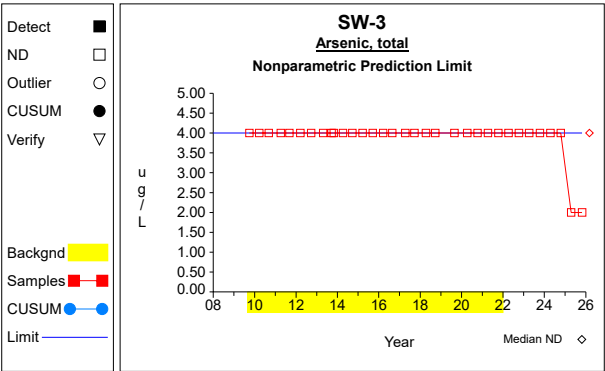


Graph 90

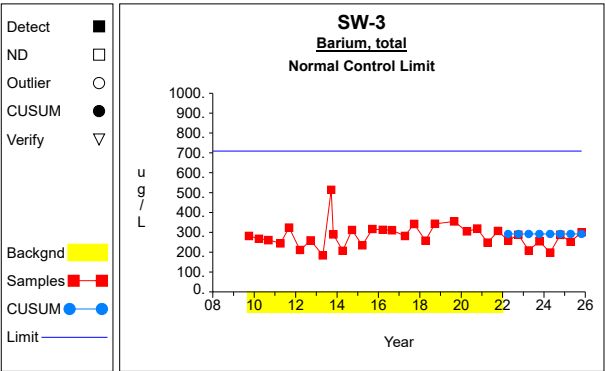
Intra-Well Control Charts / Prediction Limits



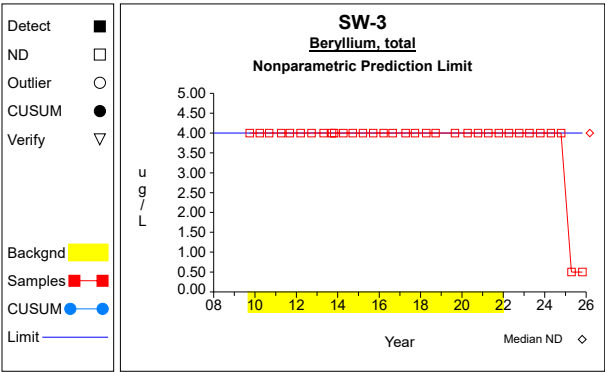
Graph 91



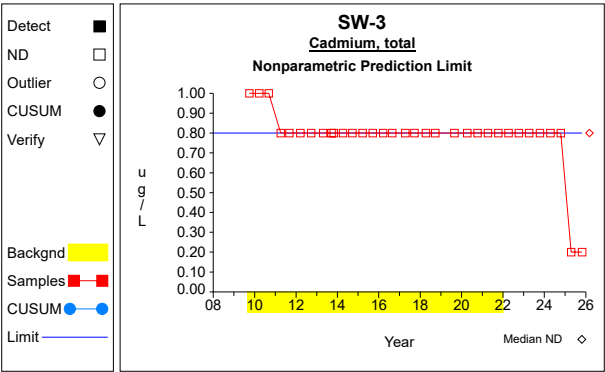
Graph 92



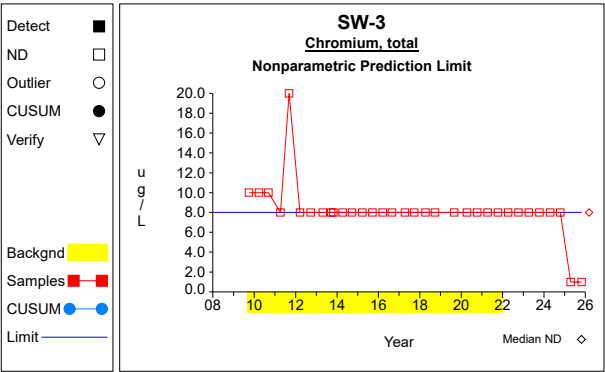
Graph 93



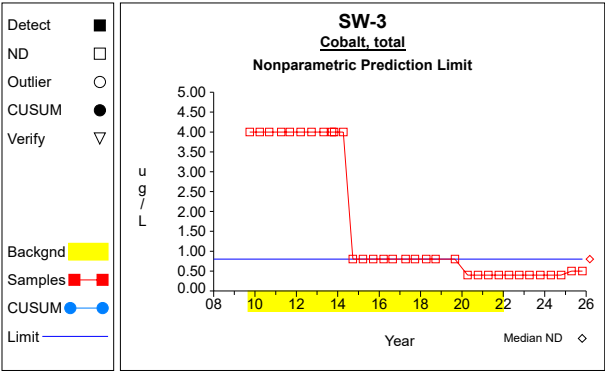
Graph 94



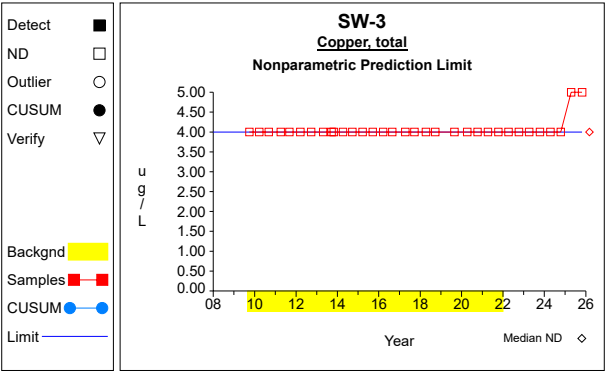
Graph 95



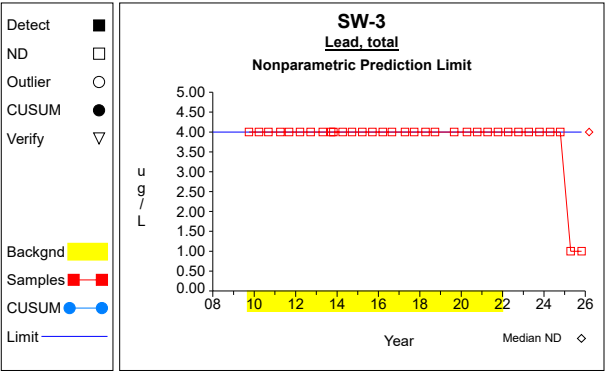
Graph 96



Graph 97

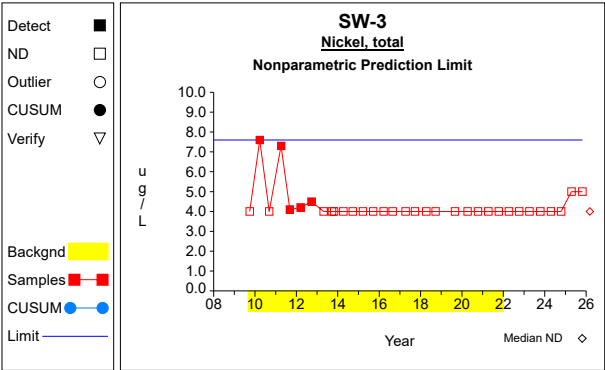


Graph 98

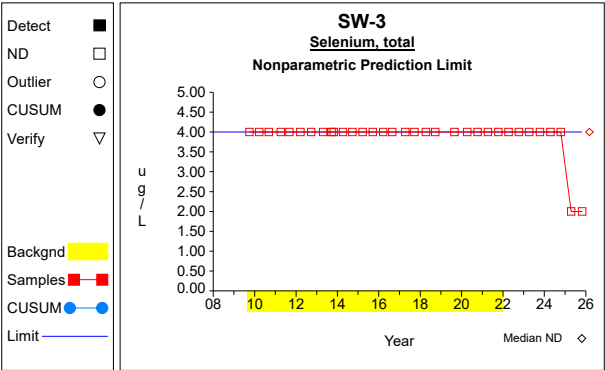


Graph 99

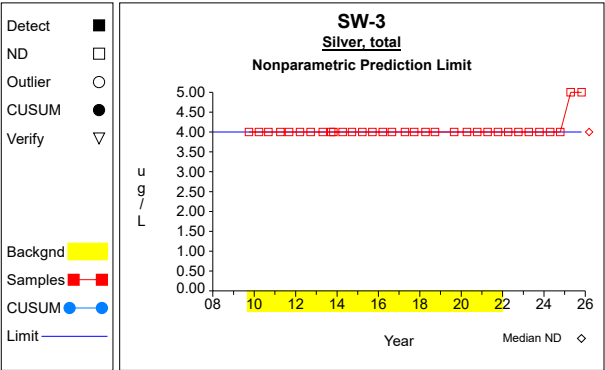
Intra-Well Control Charts / Prediction Limits



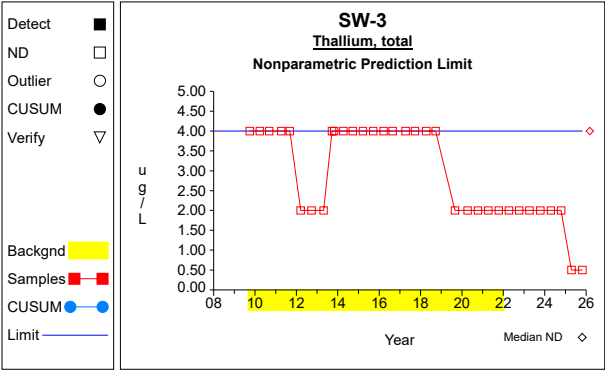
Graph 100



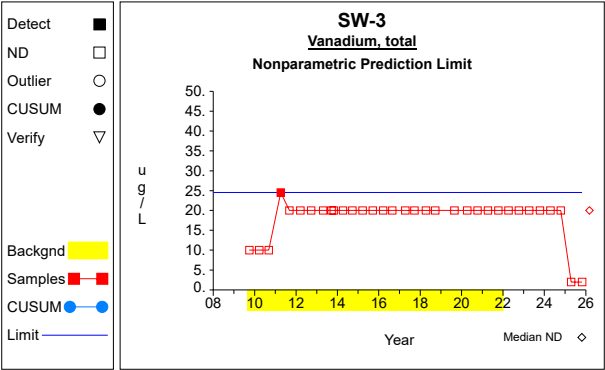
Graph 101



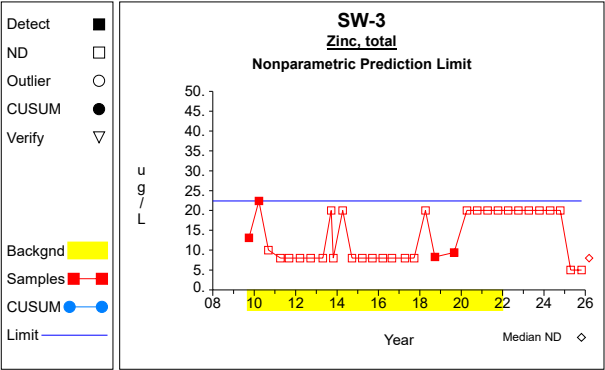
Graph 102



Graph 103

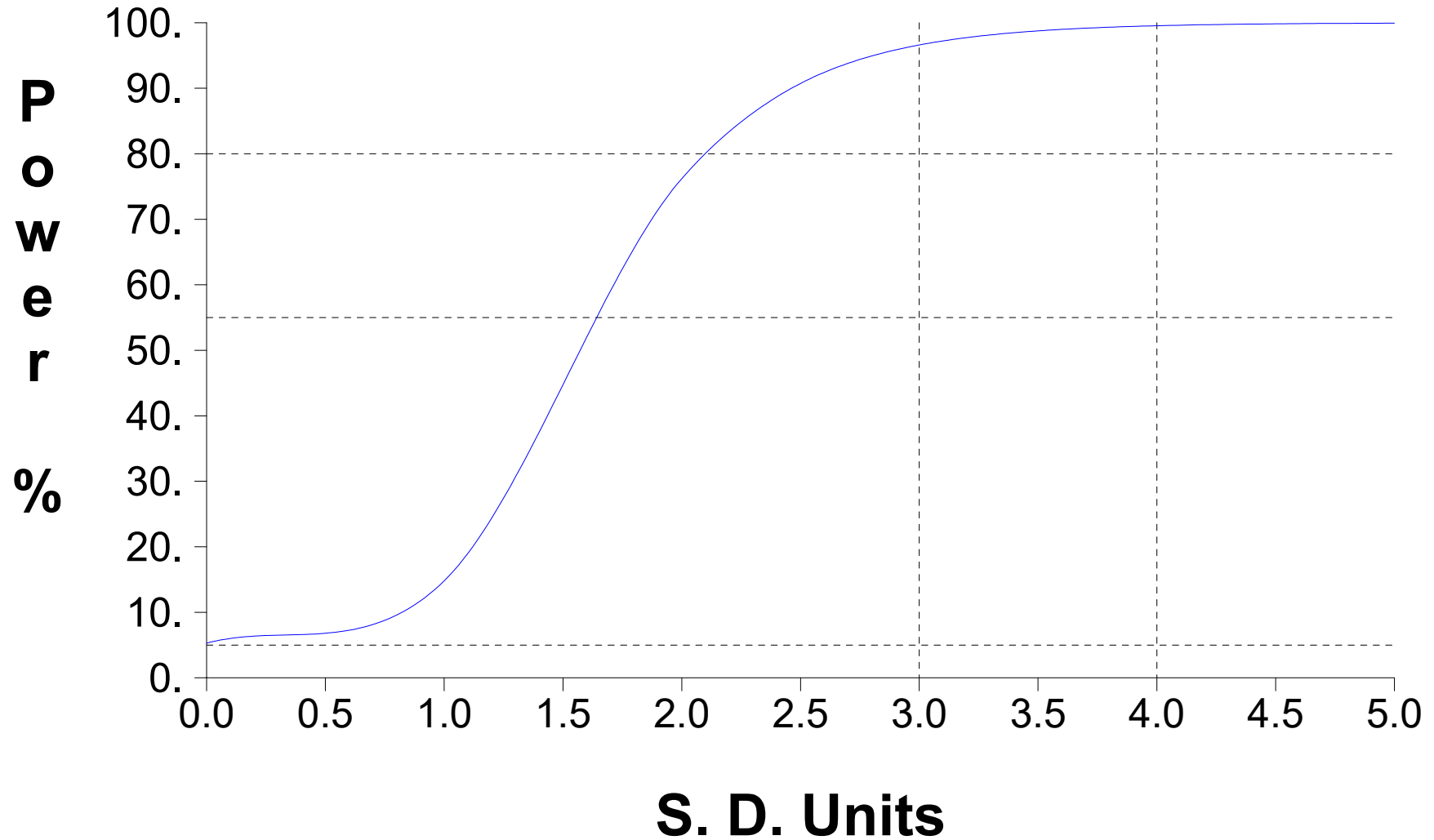


Graph 104



Graph 105

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



Attachment E

Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,1-dichloroethane	MW90-14	9/30/2009		1.4	1.0	ug/L
Acetone	MW90-14	10/16/2008		13.6	10.0	ug/L
Bis(2-ethylhexyl)phthalate	MW90-14	9/24/2018		12	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-14	11/01/2018		21	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-14	4/16/2019		6	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-14	8/29/2019		9	6	ug/L
Chloroethane	MW90-14	9/30/2009		2.2	1.0	ug/L
Acetone	MW90-17	9/23/2017		12.9	10.0	ug/L
Carbon disulfide	MW90-17	10/27/2025		4	1	ug/L
Bis(2-ethylhexyl)phthalate	MW90-4	4/09/2021		9	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-4	10/06/2022		14	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	4/16/2019		9	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	6/25/2019		11	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	8/29/2019		15	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	4/10/2020		7	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	4/09/2021		7	6	ug/L
Bis(2-ethylhexyl)phthalate	MW90-7	4/18/2024		18	6	ug/L
Bis(2-ethylhexyl)phthalate	MW91-19	4/18/2024		13	6	ug/L
Carbon disulfide	MW91-20	10/27/2025		2.1	1.0	ug/L
Acetone	SW-3	9/06/2007		5.42	10.00	ug/L

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

APPENDIX D

Summary of Appendix II Events & Compound Detections (over time)

Bis(2-ethylhexyl) Phthalate Detection (ug/L) Summary (green highlights indicate full Appendix II sample events)

Date	MW90-4	MW90-7	MW90-14	MW91-19
6/9/2008	<10	<10	<10	<10
9/24/2012	NT	NT	NT	NT
4/24/2013	NT	NT	NT	NT
9/20/2013	NT	NT	<10	NT
4/8/2014	NT	<8	NT	<8
9/22/2014	NT	NT	NT	NT
3/20/2015	NT	NT	NT	NT
9/17/2015	NT	NT	NT	NT
3/17/2016	<8	NT	NT	NT
8/26/2016	NT	NT	NT	NT
4/11/2017	NT	NT	NT	NT
9/23/2017	NT	NT	NT	NT
4/10/2018	NT	NT	NT	NT
9/24/20	NT	NT	12.0	NT
11/1/2018	NT	NT	21.0	NT
4/16/2019	NT	9.0	6.0	NT
6/25/2019	NT	11.0	NT	NT
8/29/2019	NT	15.0	9.0	NT
4/10/2020	NT	7.0	<6	NT
10/9/2020	NT	<6	<6	NT
4/9/2021	9.0	7.0	<6	NT
10/11/2021	NT	<6	<6	NT
4/7/2022	<6	<6	NT	NT
10/6/2022	14.0	<6	NT	NT
4/5/2023	<6	NT	NT	<6
10/13/2023	<6	NT	<6	NT
4/18/2024	NT	18.0	NT	13.0
10/15/2024	NT	<6	NT	<6
4/16/2025	NT	NT	NT	NT
10/27/2025	NT	NT	NT	NT

Appendix E

Summary of Annual Leachate Disposal (1996 to Present)

Volumes of Leachate Collected

Month of Hauling or Recirculation	Volume Hauled or Recirculated (gals)
August 1996 (Hauled)	246,000
May 1997 (Hauled)	290,250
May 1998 (Hauled)	225,000
July 1999 (Hauled)	344,250
June 2001 (Hauled)	379,200
January 2003-October 2003 (Recirculated)	1,700,000
June 2004 (Hauled)	462,000
December 2006 (Hauled)	312,000
May 2008 (Hauled)	206,500
December 2008 (Hauled)	232,500
May 2010 (Hauled)	364,000
December 2011 (Hauled)	157,500
November 2014 (Hauled)	28,000
March 2015 (Hauled)	354,000
May 2016 (Hauled)	394,200
April 2018 (Hauled)	189,800
December 2018 (Hauled)	43,800
April 2019 (Hauled)	175,200
June 2019 (Hauled)	7,300
July 2019 (Hauled)	116,800
August 2020 (Hauled)	204,400
2021	None hauled
2022	None hauled
2023 (Hauled)	153,300
2024	None hauled
2025	None hauled

Appendix F

Comprehensive Leachate Testing Results – Lab Report

ANALYTICAL REPORT

October 19, 2022

Work Order: 1FJ0440

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Report To
Tami Anderson Audubon County Landfill 1881 215th St Audubon, IA 50025

Work Order Information
Date Received: 10/6/2022 8:10:00AM Collector: Anderson, Tami Phone: (712) 563-3589 PO Number:

Project: Audubon Co. - Leachate

Project Number: Audubon Co. - Leachate

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1FJ0440-01	Leachate			Matrix: Water		Collected: 10/05/22 08:30	
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1FJ0337	EPA 8260B	AJM	10/07/22 13:09	
1,1-Dichloroethylene	<1.0 ug/L	1.0	1FJ0337	EPA 8260B	AJM	10/07/22 13:09	
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1FJ0337	EPA 8260B	AJM	10/07/22 13:09	
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1FJ0337	EPA 8260B	AJM	10/07/22 13:09	
Benzene	<1.0 ug/L	1.0	1FJ0337	EPA 8260B	AJM	10/07/22 13:09	
Carbon Tetrachloride	<1.0 ug/L	1.0	1FJ0337	EPA 8260B	AJM	10/07/22 13:09	
Toluene	<1.0 ug/L	1.0	1FJ0337	EPA 8260B	AJM	10/07/22 13:09	
Surrogate: Dibromofluoromethane	105 %			80-126	AJM	10/07/22 13:09	
Surrogate: 1,2-Dichloroethane-d4	111 %			63-138	AJM	10/07/22 13:09	
Surrogate: Toluene-d8	98.2 %			87-116	AJM	10/07/22 13:09	
Surrogate: 4-Bromofluorobenzene	104 %			85-111	AJM	10/07/22 13:09	
BOD (5 day)	<5 mg/L	5	1FJ0198	SM 5210 B	LAE	10/06/22 14:55	
Cyanide, total	<0.005 mg/L	0.005	1FJ0684	EPA 9010B	AKW	10/14/22 12:15	
COD, total	46 mg/L	20	1FJ0376	EPA 410.4	AKW	10/10/22 13:34	
Solids, total dissolved	329 mg/L	5	1FJ0488	USGS I-1750-85	MEAH	10/12/22 9:05	
Solids, total suspended	5 mg/L	3	1FJ0504	USGS I-3765-85	MEAH	10/12/22 16:05	
Chloride	91.6 mg/L	10.0	1FJ0949	300.0	MID	10/18/22 18:02	
Arsenic, total	<0.0040 mg/L	0.0040	1FJ0382	EPA 6020A	RVV	10/17/22 19:33	
Barium, total	0.143 mg/L	0.0040	1FJ0382	EPA 6020A	RVV	10/17/22 19:33	
Boron, total	0.287 mg/L	0.100	1FJ0613	EPA 6010B	JAR	10/15/22 1:00	
Cadmium, total	<0.0008 mg/L	0.0008	1FJ0382	EPA 6020A	RVV	10/17/22 19:33	
Chromium, total	<0.0080 mg/L	0.0080	1FJ0382	EPA 6020A	RVV	10/17/22 19:33	
Copper, total	0.0058 mg/L	0.0040	1FJ0382	EPA 6020A	RVV	10/17/22 19:33	
Iron, total	0.199 mg/L	0.100	1FJ0613	EPA 6010B	JAR	10/15/22 1:00	
Mercury, total	<0.00050 mg/L	0.00050	1FJ0473	EPA 7470A	JAR	10/13/22 10:22	
Magnesium, total	21.0 mg/L	0.100	1FJ0613	EPA 6010B	JAR	10/15/22 1:00	
Molybdenum, total	<0.0040 mg/L	0.0040	1FJ0382	EPA 6020A	RVV	10/17/22 19:33	
Nickel, total	0.0151 mg/L	0.0040	1FJ0382	EPA 6020A	RVV	10/17/22 19:33	
Lead, total	<0.0040 mg/L	0.0040	1FJ0382	EPA 6020A	RVV	10/17/22 19:33	

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Audubon County Landfill
1881 215th St
Audubon, IA 50025

October 19, 2022

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Work Order: 1FJ0440

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1FJ0440-01	Leachate			Matrix: Water		Collected: 10/05/22 08:30	
Selenium, total	<0.0040 mg/L	0.0040	1FJ0382	EPA 6020A	RVV	10/17/22 19:33	
Zinc, total	0.0301 mg/L	0.0200	1FJ0382	EPA 6020A	RVV	10/17/22 19:33	
1FJ0440-01RE1	Leachate			Matrix: Water		Collected: 10/05/22 08:30	
Trichloroethylene	<1.0 ug/L	1.0	1FJ0403	EPA 8260B	AJM	10/10/22 15:42	
Surrogate: Dibromofluoromethane	108 %			80-126	AJM	10/10/22 15:42	
Surrogate: 1,2-Dichloroethane-d4	117 %			63-138	AJM	10/10/22 15:42	
Surrogate: Toluene-d8	99.1 %			87-116	AJM	10/10/22 15:42	
Surrogate: 4-Bromofluorobenzene	93.5 %			85-111	AJM	10/10/22 15:42	

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Audubon County Landfill
1881 215th St
Audubon, IA 50025

October 19, 2022
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Work Order: 1FJ0440

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 1FJ0337 - EPA 5030B

Blank (1FJ0337-BLK1)				Prepared & Analyzed: 10/07/22						
Surrogate: Dibromofluoromethane	53.4		ug/L	50.0440		107	80-126			
Surrogate: 1,2-Dichloroethane-d4	55.5		"	50.0720		111	63-138			
Surrogate: Toluene-d8	49.3		"	50.0640		98.4	87-116			
Surrogate: 4-Bromofluorobenzene	52.2		"	50.1200		104	85-111			
1,1-Dichloroethylene	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Carbon Tetrachloride	ND	1.0	"							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							

LCS (1FJ0337-BS1)				Prepared & Analyzed: 10/07/22						
Surrogate: Dibromofluoromethane	53.5		ug/L	50.0440		107	80-126			
Surrogate: 1,2-Dichloroethane-d4	53.2		"	50.0720		106	63-138			
Surrogate: Toluene-d8	51.1		"	50.0640		102	87-116			
Surrogate: 4-Bromofluorobenzene	50.7		"	50.1200		101	85-111			
1,1-Dichloroethylene	54.70	1.0	"	50.0000		109	76-140			
1,1,1-Trichloroethane	47.91	1.0	"	49.9750		95.9	67-121			
Carbon Tetrachloride	52.01	1.0	"	50.0000		104	71-131			
Benzene	51.08	1.0	"	50.0000		102	77-130			
Toluene	48.29	1.0	"	50.0000		96.6	77-130			
1,4-Dichlorobenzene	47.08	1.0	"	50.0000		94.2	69-128			
1,2-Dichlorobenzene	46.03	1.0	"	50.0000		92.1	70-125			

Matrix Spike (1FJ0337-MS1)				Source: 1FJ0508-05		Prepared & Analyzed: 10/07/22				
Surrogate: Dibromofluoromethane	544		ug/L	500.440		109	80-126			
Surrogate: 1,2-Dichloroethane-d4	548		"	500.720		110	63-138			
Surrogate: Toluene-d8	510		"	500.640		102	87-116			
Surrogate: 4-Bromofluorobenzene	512		"	501.200		102	85-111			
1,1-Dichloroethylene	572.7	10.0	"	500.000	ND	115	68-153			
1,1,1-Trichloroethane	498.7	10.0	"	499.750	ND	99.8	71-118			
Carbon Tetrachloride	544.6	10.0	"	500.000	ND	109	71-133			
Benzene	521.3	10.0	"	500.000	ND	104	81-125			
Toluene	491.0	10.0	"	500.000	ND	98.2	82-123			
1,4-Dichlorobenzene	484.0	10.0	"	500.000	ND	96.8	70-124			
1,2-Dichlorobenzene	470.7	10.0	"	500.000	ND	94.1	68-123			

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Audubon County Landfill
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Work Order: 1FJ0440

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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 1FJ0337 - EPA 5030B

Matrix Spike Dup (1FJ0337-MSD1)	Source: 1FJ0508-05			Prepared & Analyzed: 10/07/22						
Surrogate: Dibromofluoromethane	539		ug/L	500.440		108	80-126			
Surrogate: 1,2-Dichloroethane-d4	545		"	500.720		109	63-138			
Surrogate: Toluene-d8	503		"	500.640		101	87-116			
Surrogate: 4-Bromofluorobenzene	517		"	501.200		103	85-111			
1,1-Dichloroethylene	604.5	10.0	"	500.000	ND	121	68-153	5.40	21	
1,1,1-Trichloroethane	517.6	10.0	"	499.750	ND	104	71-118	3.72	15	
Carbon Tetrachloride	569.7	10.0	"	500.000	ND	114	71-133	4.51	14	
Benzene	533.0	10.0	"	500.000	ND	107	81-125	2.22	12	
Toluene	511.2	10.0	"	500.000	ND	102	82-123	4.03	12	
1,4-Dichlorobenzene	478.7	10.0	"	500.000	ND	95.7	70-124	1.10	28	
1,2-Dichlorobenzene	470.6	10.0	"	500.000	ND	94.1	68-123	0.0212	29	

Batch 1FJ0403 - EPA 5030B

Blank (1FJ0403-BLK1)	Prepared & Analyzed: 10/10/22									
Surrogate: Dibromofluoromethane	53.4		ug/L	50.1360		106	80-126			
Surrogate: 1,2-Dichloroethane-d4	58.1		"	50.2960		116	63-138			
Surrogate: Toluene-d8	49.8		"	50.4800		98.6	87-116			
Surrogate: 4-Bromofluorobenzene	46.9		"	50.2080		93.5	85-111			
Trichloroethylene	ND	1.0	"							

LCS (1FJ0403-BS1)	Prepared & Analyzed: 10/10/22									
Surrogate: Dibromofluoromethane	51.7		ug/L	50.1360		103	80-126			
Surrogate: 1,2-Dichloroethane-d4	56.7		"	50.2960		113	63-138			
Surrogate: Toluene-d8	49.8		"	50.4800		98.7	87-116			
Surrogate: 4-Bromofluorobenzene	48.6		"	50.2080		96.9	85-111			
Trichloroethylene	50.72	1.0	"	50.0000		101	80-124			

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Audubon County Landfill
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Audubon, IA 50025

October 19, 2022
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Work Order: 1FJ0440

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 1FJ0403 - EPA 5030B

LCS (1FJ0403-BS2)				Prepared & Analyzed: 10/10/22						
Surrogate: Dibromofluoromethane	52.1		ug/L	50.1360		104	80-126			
Surrogate: 1,2-Dichloroethane-d4	56.5		"	50.2960		112	63-138			
Surrogate: Toluene-d8	49.8		"	50.4800		98.7	87-116			
Surrogate: 4-Bromofluorobenzene	48.2		"	50.2080		95.9	85-111			
Trichloroethylene	33.74	1.0	"	50.0000		67.5	80-124			QS-01

Matrix Spike (1FJ0403-MS1)				Source: 1FJ0740-02		Prepared & Analyzed: 10/10/22				
Surrogate: Dibromofluoromethane	512		ug/L	501.360		102	80-126			
Surrogate: 1,2-Dichloroethane-d4	528		"	502.960		105	63-138			
Surrogate: Toluene-d8	484		"	504.800		95.8	87-116			
Surrogate: 4-Bromofluorobenzene	474		"	502.080		94.5	85-111			
Trichloroethylene	440.5	10.0	"	500.000	ND	88.1	83-120			

Matrix Spike Dup (1FJ0403-MSD1)				Source: 1FJ0740-02		Prepared & Analyzed: 10/10/22				
Surrogate: Dibromofluoromethane	510		ug/L	501.360		102	80-126			
Surrogate: 1,2-Dichloroethane-d4	527		"	502.960		105	63-138			
Surrogate: Toluene-d8	485		"	504.800		96.1	87-116			
Surrogate: 4-Bromofluorobenzene	474		"	502.080		94.4	85-111			
Trichloroethylene	439.0	10.0	"	500.000	ND	87.8	83-120	0.341	11	

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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October 19, 2022
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Work Order: 1FJ0440

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 1FJ0198 - General Prep Micro

Blank (1FJ0198-BLK1)				Prepared & Analyzed: 10/06/22						
BOD (5 day)	ND	4	mg/L							B-06
Blank (1FJ0198-BLK2)				Prepared & Analyzed: 10/06/22						
BOD (5 day)	ND	4	mg/L							
Duplicate (1FJ0198-DUP1)				Source: 1FJ0275-02		Prepared & Analyzed: 10/06/22				
BOD (5 day)	264	4	mg/L		298			12.1	29	
Reference (1FJ0198-SRM1)				Prepared & Analyzed: 10/06/22						
BOD (5 day)	212	4	mg/L	198.000		107	84.6-115.4			
Reference (1FJ0198-SRM2)				Prepared & Analyzed: 10/06/22						
BOD (5 day)	219	4	mg/L	198.000		111	84.6-115.4			

Batch 1FJ0376 - Wet Chem Preparation

Blank (1FJ0376-BLK1)				Prepared & Analyzed: 10/10/22						
COD, total	ND	20	mg/L							
LCS (1FJ0376-BS1)				Prepared & Analyzed: 10/10/22						
COD, total	105	27	mg/L	100.000		105	90-110			
Matrix Spike (1FJ0376-MS1)				Source: 1FJ0637-01		Prepared & Analyzed: 10/10/22				
COD, total	48.7	20	mg/L	42.8571	ND	114	90-110			QM-07
Matrix Spike Dup (1FJ0376-MSD1)				Source: 1FJ0637-01		Prepared & Analyzed: 10/10/22				
COD, total	50.2	20	mg/L	42.8571	ND	117	90-110	3.07	10	QM-07

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.

Audubon County Landfill
1881 215th St
Audubon, IA 50025

October 19, 2022
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Work Order: 1FJ0440

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 1FJ0488 - Wet Chem Preparation

Blank (1FJ0488-BLK1)				Prepared: 10/11/22 Analyzed: 10/12/22						
Solids, total dissolved	ND	5	mg/L							
LCS (1FJ0488-BS1)				Prepared: 10/11/22 Analyzed: 10/12/22						
Solids, total dissolved	94	5	mg/L	100.000		93.9	71-114			
Duplicate (1FJ0488-DUP1)				Source: 1FJ0381-01 Prepared: 10/11/22 Analyzed: 10/12/22						
Solids, total dissolved	1840	5	mg/L		1880			2.58	30	

Batch 1FJ0504 - Wet Chem Preparation

Blank (1FJ0504-BLK1)				Prepared: 10/11/22 Analyzed: 10/12/22						
Solids, total suspended	ND	1	mg/L							
LCS (1FJ0504-BS1)				Prepared: 10/11/22 Analyzed: 10/12/22						
Solids, total suspended	16.3	1	mg/L	15.0000		109	74-114			
Duplicate (1FJ0504-DUP1)				Source: 1FJ0478-01 Prepared: 10/11/22 Analyzed: 10/12/22						
Solids, total suspended	126	10	mg/L		149			16.7	30	

Batch 1FJ0684 - Wet Chem Preparation

Blank (1FJ0684-BLK1)				Prepared & Analyzed: 10/14/22						
Cyanide, total	ND	0.005	mg/L							
LCS (1FJ0684-BS1)				Prepared & Analyzed: 10/14/22						
Cyanide, total	0.0170	0.005	mg/L	0.0200000		85.1	68-137			

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Audubon County Landfill
1881 215th St
Audubon, IA 50025

October 19, 2022
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Work Order: 1FJ0440

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 1FJ0684 - Wet Chem Preparation

Matrix Spike (1FJ0684-MS1)		Source: 1FJ0440-01			Prepared & Analyzed: 10/14/22					
Cyanide, total	0.0169	0.005	mg/L	0.0200000	ND	84.5	57-150			
Matrix Spike Dup (1FJ0684-MSD1)		Source: 1FJ0440-01			Prepared & Analyzed: 10/14/22					
Cyanide, total	0.0266	0.005	mg/L	0.0200000	ND	133	57-150	44.6	20	QR-02

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Work Order: 1FJ0440

Determination of Inorganic Anions - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch 1FJ0949 - General Prep HPLC/IC

Blank (1FJ0949-BLK1)				Prepared & Analyzed: 10/18/22						
Chloride	ND	1.0	mg/L							
Blank (1FJ0949-BLK2)				Prepared & Analyzed: 10/18/22						
Chloride	ND	1.0	mg/L							
LCS (1FJ0949-BS1)				Prepared & Analyzed: 10/18/22						
Chloride	14.84	1.0	mg/L	15.4295		96.2	90-110			
LCS Dup (1FJ0949-BSD1)				Prepared & Analyzed: 10/18/22						
Chloride	14.86	1.0	mg/L	15.4295		96.3	90-110	0.128	10	
MRL Check (1FJ0949-MRL1)				Prepared & Analyzed: 10/18/22						
Chloride	0.66	1.0	mg/L	0.611236		107	50-150			
Matrix Spike (1FJ0949-MS1)				Prepared & Analyzed: 10/18/22						
Chloride	21.62	1.0	mg/L	15.4295	6.34	99.0	80-120			
Matrix Spike Dup (1FJ0949-MSD1)				Prepared & Analyzed: 10/18/22						
Chloride	21.51	1.0	mg/L	15.4295	6.34	98.3	80-120	0.510	10	

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Work Order: 1FJ0440

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 1FJ0382 - EPA 3005A Total Recoverable Metals

Blank (1FJ0382-BLK1)

Prepared: 10/10/22 Analyzed: 10/17/22

Arsenic, total	ND	0.0040	mg/L
Barium, total	ND	0.0040	"
Cadmium, total	ND	0.0008	"
Chromium, total	ND	0.0080	"
Copper, total	ND	0.0040	"
Lead, total	ND	0.0040	"
Molybdenum, total	ND	0.0040	"
Nickel, total	ND	0.0040	"
Selenium, total	ND	0.0040	"
Zinc, total	ND	0.0200	"

LCS (1FJ0382-BS1)

Prepared: 10/10/22 Analyzed: 10/17/22

Arsenic, total	0.0952	0.0040	mg/L	0.100000	95.2	80-120
Barium, total	0.108	0.0040	"	0.100000	108	80-120
Cadmium, total	0.0958	0.0008	"	0.100000	95.8	80-120
Chromium, total	0.0965	0.0080	"	0.100000	96.5	80-120
Copper, total	0.0992	0.0040	"	0.100000	99.2	80-120
Lead, total	0.0967	0.0040	"	0.100000	96.7	80-120
Molybdenum, total	0.0983	0.0040	"	0.100000	98.3	80-120
Nickel, total	0.100	0.0040	"	0.100000	100	80-120
Selenium, total	0.1043	0.0040	"	0.100000	104	80-120
Zinc, total	0.0956	0.0200	"	0.100000	95.6	80-120

Matrix Spike (1FJ0382-MS1)

Source: 1FJ0776-01

Prepared: 10/10/22 Analyzed: 10/17/22

Arsenic, total	0.0970	0.0040	mg/L	0.100000	0.0020	95.0	75-125
Barium, total	0.168	0.0040	"	0.100000	0.0624	105	75-125
Cadmium, total	0.0902	0.0008	"	0.100000	0.0004	89.8	75-125
Chromium, total	0.116	0.0080	"	0.100000	0.0248	90.9	75-125
Copper, total	0.117	0.0040	"	0.100000	0.0280	88.9	75-125
Lead, total	0.0900	0.0040	"	0.100000	0.0010	89.1	75-125
Molybdenum, total	0.104	0.0040	"	0.100000	0.0037	100	75-125
Nickel, total	0.0954	0.0040	"	0.100000	0.0026	92.9	75-125
Selenium, total	0.1030	0.0040	"	0.100000	0.0021	101	75-125
Zinc, total	0.110	0.0200	"	0.100000	0.0208	89.6	75-125

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Work Order: 1FJ0440

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 1FJ0382 - EPA 3005A Total Recoverable Metals

Matrix Spike Dup (1FJ0382-MSD1)		Source: 1FJ0776-01		Prepared: 10/10/22		Analyzed: 10/17/22				
Arsenic, total	0.103	0.0040	mg/L	0.100000	0.0020	101	75-125	5.78	20	
Barium, total	0.177	0.0040	"	0.100000	0.0624	115	75-125	5.65	20	
Cadmium, total	0.0936	0.0008	"	0.100000	0.0004	93.2	75-125	3.66	20	
Chromium, total	0.120	0.0080	"	0.100000	0.0248	95.1	75-125	3.60	20	
Copper, total	0.127	0.0040	"	0.100000	0.0280	99.1	75-125	8.34	20	
Lead, total	0.0922	0.0040	"	0.100000	0.0010	91.2	75-125	2.33	20	
Molybdenum, total	0.107	0.0040	"	0.100000	0.0037	104	75-125	3.09	20	
Nickel, total	0.105	0.0040	"	0.100000	0.0026	102	75-125	9.49	20	
Selenium, total	0.1076	0.0040	"	0.100000	0.0021	106	75-125	4.36	20	
Zinc, total	0.112	0.0200	"	0.100000	0.0208	91.5	75-125	1.70	20	

Post Spike (1FJ0382-PS1)		Source: 1FJ0776-01		Prepared: 10/10/22		Analyzed: 10/17/22				
Arsenic, total	0.0801		mg/L	0.0800000	0.0019	97.7	80-120			
Barium, total	0.146		"	0.0800000	0.0611	107	80-120			
Cadmium, total	0.0740		"	0.0800000	0.0004	92.0	80-120			
Chromium, total	0.0992		"	0.0800000	0.0243	93.7	80-120			
Copper, total	0.105		"	0.0800000	0.0275	96.7	80-120			
Lead, total	0.0729		"	0.0800000	0.0010	89.9	80-120			
Molybdenum, total	0.0849		"	0.0800000	0.0037	102	80-120			
Nickel, total	0.0793		"	0.0800000	0.0025	96.0	80-120			
Selenium, total	0.0800		"	0.0800000	0.0020	97.4	80-120			
Zinc, total	0.0939		"	0.0800000	0.0204	91.9	80-120			

Batch 1FJ0473 - EPA 7470A Hg Water

Blank (1FJ0473-BLK1)				Prepared: 10/11/22		Analyzed: 10/13/22				
Mercury, total	ND	0.00050	mg/L							

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Work Order: 1FJ0440

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 1FJ0473 - EPA 7470A Hg Water

LCS (1FJ0473-BS1)				Prepared: 10/11/22 Analyzed: 10/13/22						
Mercury, total	0.00264	0.00050	mg/L	0.00250000		105	80-120			
Matrix Spike (1FJ0473-MS1)				Source: 1FJ0164-01 Prepared: 10/11/22 Analyzed: 10/13/22						
Mercury, total	0.00282	0.00050	mg/L	0.00250000	ND	113	75-125			
Matrix Spike Dup (1FJ0473-MSD1)				Source: 1FJ0164-01 Prepared: 10/11/22 Analyzed: 10/13/22						
Mercury, total	0.00263	0.00050	mg/L	0.00250000	ND	105	75-125	7.27	20	

Batch 1FJ0613 - EPA 3010A Digestion (Water)

Blank (1FJ0613-BLK1)				Prepared: 10/13/22 Analyzed: 10/15/22						
Boron, total	ND	0.100	mg/L							
Iron, total	ND	0.100	"							
Magnesium, total	ND	0.100	"							
LCS (1FJ0613-BS1)				Prepared: 10/13/22 Analyzed: 10/15/22						
Boron, total	0.214	0.100	mg/L	0.200000		107	80-120			
Iron, total	2.41	0.100	"	2.20000		109	80-120			
Magnesium, total	2.41	0.100	"	2.20000		109	80-120			
Matrix Spike (1FJ0613-MS1)				Source: 1FJ0440-01 Prepared: 10/13/22 Analyzed: 10/15/22						
Boron, total	0.502	0.100	mg/L	0.200000	0.287	108	75-125			
Iron, total	2.51	0.100	"	2.20000	0.199	105	75-125			
Magnesium, total	24.0	0.100	"	2.20000	21.0	137	75-125			QM-4X
Matrix Spike Dup (1FJ0613-MSD1)				Source: 1FJ0440-01 Prepared: 10/13/22 Analyzed: 10/15/22						
Boron, total	0.526	0.100	mg/L	0.200000	0.287	119	75-125	4.52	20	
Iron, total	2.59	0.100	"	2.20000	0.199	109	75-125	3.30	20	
Magnesium, total	25.5	0.100	"	2.20000	21.0	204	75-125	6.03	20	QM-4X

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Work Order: 1FJ0440

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 1FJ0613 - EPA 3010A Digestion (Water)

Post Spike (1FJ0613-PS1)	Source: 1FJ0440-01			Prepared: 10/13/22 Analyzed: 10/15/22						
Boron, total	1.10		mg/L	0.800000	0.287	101	80-120			
Iron, total	9.25		"	8.80000	0.199	103	80-120			
Magnesium, total	30.7		"	8.80000	21.0	110	80-120			

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

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Work Order: 1FJ0440

Certified Analyses Included In This Report

Method/Matrix	Analyte	Certifications
300.0 in Water	Chloride	KS-NT,SIA1X
EPA 410.4 in Water	COD, total	KS-NT,SIA1X
EPA 6010B in Water	Boron, total	KS-NT,SIA1X
	Iron, total	KS-NT,SIA1X
	Magnesium, total	KS-NT,SIA1X
EPA 6020A in Water	Arsenic, total	SIA1X,KS-NT
	Barium, total	SIA1X,KS-NT
	Cadmium, total	SIA1X,KS-NT
	Chromium, total	SIA1X,KS-NT
	Copper, total	SIA1X,KS-NT
	Lead, total	SIA1X,KS-NT
	Molybdenum, total	SIA1X
	Nickel, total	SIA1X,KS-NT
	Selenium, total	SIA1X,KS-NT
	Zinc, total	SIA1X,KS-NT
EPA 7470A in Water	Mercury, total	KS-NT,SIA1X
EPA 8260B in Water	1,1-Dichloroethylene	KS-NT,SIA1X
	1,1,1-Trichloroethane	KS-NT,SIA1X
	Carbon Tetrachloride	KS-NT,SIA1X
	Benzene	KS-NT,SIA1X
	Trichloroethylene	KS-NT,SIA1X
	Toluene	KS-NT,SIA1X
	1,4-Dichlorobenzene	KS-NT,SIA1X
	1,2-Dichlorobenzene	KS-NT,SIA1X
EPA 9010B in Water	Cyanide, total	KS-NT,SIA1X
SM 5210 B in Water	BOD (5 day)	SIA1X
USGS I-1750-85 in Water	Solids, total dissolved	KS-NT,SIA1X
USGS I-3765-85 in Water	Solids, total suspended	SIA1X,KS-NT

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October 19, 2022
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Work Order: 1FJ0440

Code	Description	Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2023
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2022
MO-KC	Missouri Department of Natural Resources	140	04/30/2023
SIA1X	Iowa Dept. of Natural Resources (updated certificate pending)	95	02/01/2024

Notes and Definitions

B-06	Unseeded Blank equals .3mg/L
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-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QS-01	The blank spike recovery and/or blank spike duplicate recovery were outside the established acceptance limits. Batch was accepted based on acceptable MS/MSD/RPD results.

End of Report



Keystone Laboratories

Sue Thompson

Client Services Manager

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CHAIN OF CUSTODY RECORD

Keystone

LABORATORIES, INC.

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



1 F J 0 4 4 0

Audubon County Landfill

PM: Sue Thompson

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Printed: 9/29/2022 5:47:19AM

www.keystonelabs.cc

SITE INFORMATION

Sampler: Tami Anderson
Project: Audubon Co. - Leachate

REPORT TO

Tami Anderson
Audubon County Landfill
1881 215th St
Audubon, IA 50025

REPORT TO

Tami Anderson
Audubon County Landfill
1881 215th St
Audubon, IA 50025

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

LAB USE ONLY

Work Order 1FJ0440Temperature 1.9

Turn-Cooler: No

☐ Custody Seal
☐ Containers Intact
☐ COC/Labels Agree
☐ Preservation Confirmed
☐ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
01-001	Leachate	Water	GRAB	10/5/22	8:30am	1	8260@1,1,1-tca 8260@1,2-dcb 8260@benzene 8260@ace as-t-6020 bod-5210 cd-t-6020 cu-t-9010b cr-t-6020 fe-t-6010 mg-t-6010 ni-t-6020 se-t-6020 iss-t-3763-85	8260@1,1-dce 8260@1,4-dcb 8260@carbon-tet 8260@toluene ba-t-6020 b-t-6010 cl-300.0 cod-t-410.4 cu-t-6020 lg-t-7470 mo-t-6020 pb-t-6020 tds-t-1750-85 zr-t-6020	01

Tami Anderson 10-5-22
Relinquished By Date/Time 9:00am

Received By Date/Time

Relinquished By Date/Time
Amy Hochstetler 10-6-22 8:10
Received for Lab By Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks: