

2024
ANNUAL GROUNDWATER QUALITY REPORT
OF
THE AUDUBON COUNTY SANITARY LANDFILL
05-SDP-01-75C
AUDUBON, IOWA

by:
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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 15, 2024.

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 2024 are summarized in Table 4.

A Water Table Contour Map (Figure 2) dated October 15, 2024, is included with this report and illustrates the water surfaces and the effects of the topography.

Review of the 2024 water elevation data does not indicate any remarkable water elevation conditions.

Well Depth & Sedimentation

Well depth measurements were made October 15, 2024. 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 2024 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 2025 is itemized in Table 2.

A comprehensive summary of Analytical Data for the episodes between 2008 and October 15, 2024, 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 2A).

Section 3.0 Data Evaluation and Summary

Field sampling information for April 18, 2024, and October 15, 2024, sampling episodes is included on the field forms (IDNR Form 542-1322) in Appendix A. Chemical analytical results for April 18, 2024, and October 15, 2024, 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 2024, dated May 2024, is included in Appendix C.1. The Groundwater Statistics Report for the Audubon County Sanitary Landfill, Second Semi-Annual Monitoring Event in 2024, dated November 2024, is also included in Appendix C.2.

QUALITY ASSURANCE/QUALITY CONTROL

A blind duplicate sample was collected at MW90-4 during the April 18, 2024, sampling episode. A blind duplicate was collected at MW90-17 during October 15, 2024, sampling episode.

The purpose of the field duplicate is to evaluate the precision of sample collection and analysis process from the field through the laboratory. The calculation of the Relative Percent Difference (RPD) for duplicate pair results is used 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 18, 2024, and October 15, 2024) 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 2024 (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 control 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 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 2024, 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 2024, 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 2024 are included on Table 12.

Table 12A summarizes the leachate levels from 2009 through 2024. 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 2024 were reported at 0% of the Lower Explosive Limit (LEL). Gas monitoring was conducted in all site structures and no readings were detected in 2024.

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

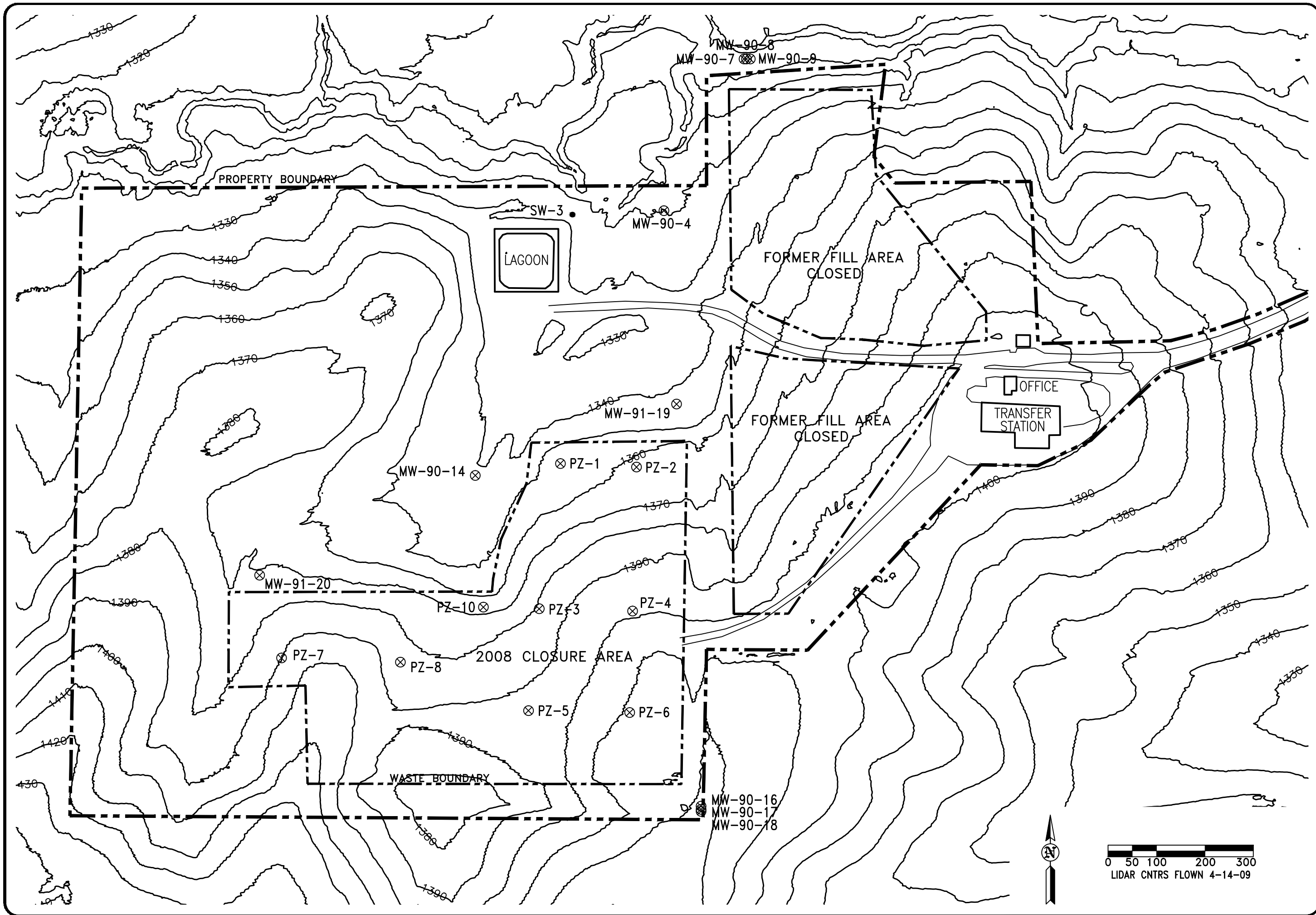
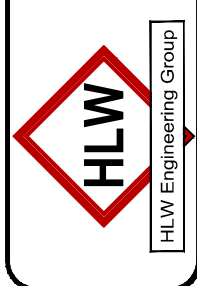


FIGURE: 1

| REVISION | NO. | DATE |
|----------|------------------|-------------|
| DRAWN | PROJECT NO. 6050 | DATE 1-5-25 |
| DRA | | |

SITE PLAN
AUDUBON COUNTY SANITARY LANDFILL
AUDUBON, IOWA

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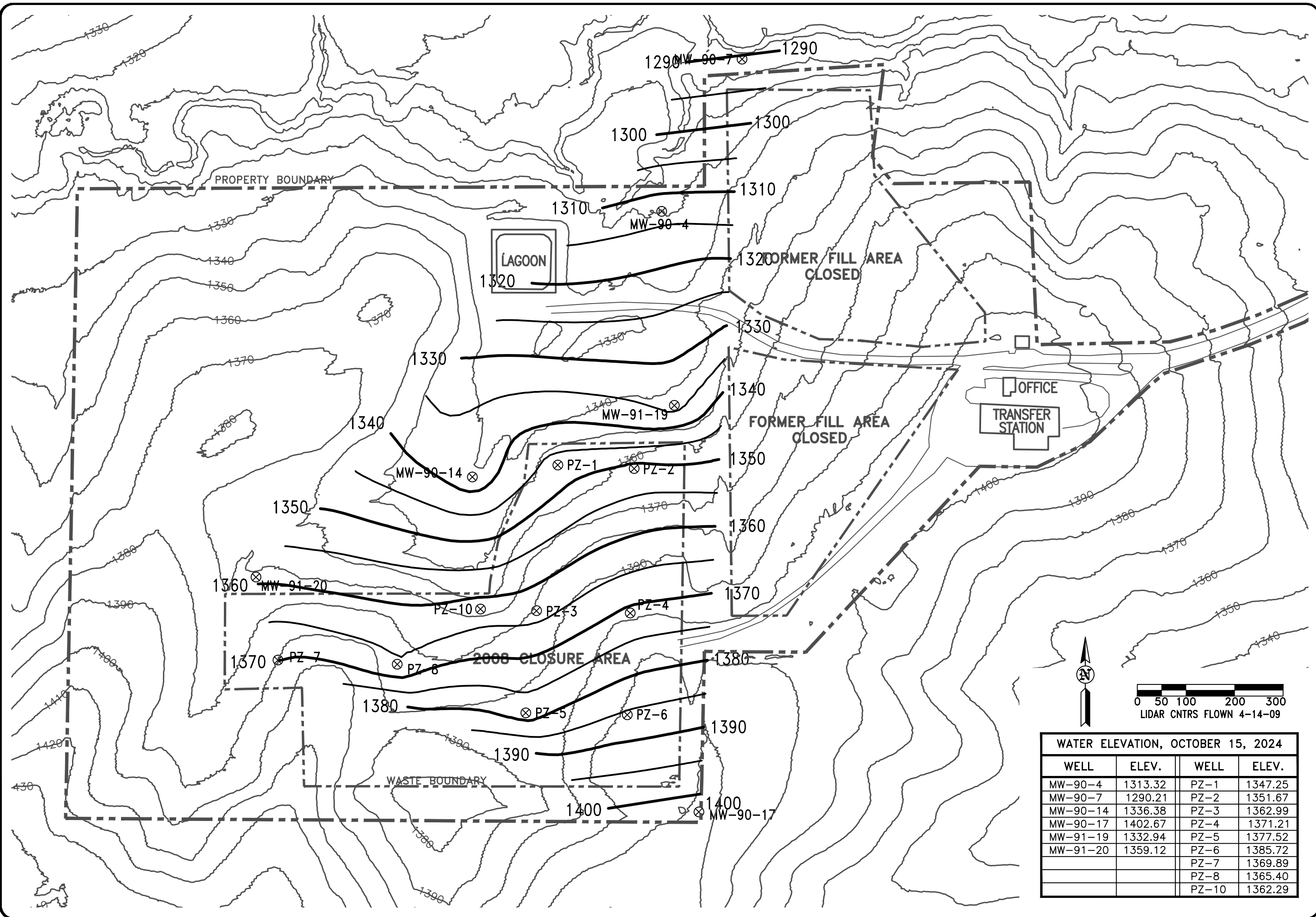
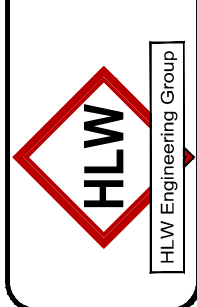


FIGURE: 2

| REVISION | NO. | DATE |
|----------|------------------|-------------|
| DRAWN | PROJECT NO. 6050 | DATE 1-5-25 |
| DRA | | |

GROUNDWATER CONTOURS
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- Table 8 - Summary of Ongoing SSL – **Not Required**
- Table 9 – Analytical Data Summary - Comprehensive
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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 | 31 | 0 | 0 |
| MW90-4 | Glacial Till | Assessment | NC | barium, cadmium, cobalt, bis(2ethylhexyl)phthalate | barium | barium, cadmium | None | None | None | 0 | 31 | 0 |
| MW90-7 | Glacial Till | Assessment | NC | cobalt, nickel, bis(2ethylhexyl)phthalate | cobalt, nickel | cobalt, nickel | None | None | None | 0 | 31 | 0 |
| MW90-14 | Glacial Till | Assessment | NC | barium, cadmium, cobalt, nickel, zinc, bis(2ethylhexyl)phthalate | nickel | nickel, cadmium | None | None | None | 0 | 31 | 0 |
| MW91-19 | Glacial Till | Assessment | NC | barium, cadmium, cobalt, nickel, bis(2ethylhexyl)phthalate | None | None | None | None | None | 0 | 31 | 0 |
| MW91-20 | Glacial Till | Detection | NC | None | None | None | None | None | None | 31 | 0 | 0 |
| SW-3 | Glacial Till | Detection | NC | None | None | None | None | None | None | 31 | 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, 2025 | October, 2025 | Previously Collected | Next Event |
| MW90-17 (b) | | Appendix I | Appendix I | June, 2008 | N/A |
| MW90-4 | | Appendix I | 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 |

⁽¹⁾ = bis(2-ethylhexyl)phthalate

Table 3 – Monitoring Well Maintenance Performance Reevaluation Schedule

Table 3
Monitoring Well Maintenance and Performance Reevaluation 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 | P | 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 | P | P | P |
| 567 IAC 113.10(2)"f"(3) well depths (annual) | X | | X | | X | X | X | P | 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 | |
|---------|---------------|---------------|-------------|-------------------------------------|----------------------|------------|--------------------------------|-------------------------------|-----------------------------|----------------|
| | | | | | 4/18/2024 | 10/15/2024 | | | 4/18/2024 | Change |
| MW90-17 | 1427.97 | 1400.67 | 37.3 | Groundwater Level (ft) | 27 | 25.3 | 0.07 | 0.0000004 1992 | Full recovery in 24 hour | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 1400.97 | 1402.67 | | | | |
| | | | | Measured Well Depth (ft) | 37.23 | 37.23 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | 0.3 | 2 | | | | |
| MW90-4 | 1324.25 | 1307.28 | 26.97 | Groundwater Level (ft) | 11.39 | 10.93 | 0 | 0.00005 1992 | Full recovery in 3 hours | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 1312.86 | 1313.32 | | | | |
| | | | | Measured Well Depth (ft) | 26.97 | 26.97 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | 5.58 | 6.04 | | | | |
| MW90-7 | 1300.32 | 1290.32 | 15 | Groundwater Level (ft) | 9.61 | 10.11 | -0.03 | 0.00007 1992 | Full recovery in 5 hours | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 1290.71 | 1290.21 | | | | |
| | | | | Measured Well Depth (ft) | 15.03 | 15.03 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | 0.39 | -0.11 | | | | |
| MW90-14 | 1347.51 | 1337.81 | 19.7 | Groundwater Level (ft) | 9.20 | 11.13 | -0.16 | 0.00001 1992 | Full recovery in 3 hours | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 1338.31 | 1336.38 | | | | |
| | | | | Measured Well Depth (ft) | 19.86 | 19.86 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | 0.5 | -1.43 | | | | |
| MW91-19 | 1347.5 | 1337.5 | 25 | Groundwater Level (ft) | 13.27 | 14.36 | -0.1 | 0.00003 1992 | Full recovery in 3 hours | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 1334.23 | 1333.14 | | | | |
| | | | | Measured Well Depth (ft) | 25.1 | 25.1 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | -3.27 | -4.36 | | | | |
| MW91-20 | 1371.99 | 1354.59 | 32.4 | Groundwater Level (ft) | 14.06 | 12.87 | 0.08 | 0.0000003 1992 | Full recovery in 6 hours | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 1357.93 | 1359.12 | | | | |
| | | | | Measured Well Depth (ft) | 32.32 | 32.32 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | 3.34 | 4.53 | | | | |

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

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

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

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 Sani

| Monitor Wel TOC Elev. (f | Water Level | Date | | Mean/ Std. Dev. |
|-----------------------------|--------------------------|------------------|------------------|--------------------|
| | | 4/18/2024 | 10/15/2024 | |
| MW-90-4 1324.25 | Depth (ft) Elev. (ft) | 8.49 1315.76 | 7.88 1316.37 | 9.08 1.68 |
| MW-90-7 1300.32 | Depth (ft) Elev. (ft) | 7.19 1293.13 | 7.58 1292.74 | 7.81 1.10 |
| MW-90-14 1347.51 | Depth (ft) Elev. (ft) | 7.90 1339.61 | 7.79 1339.72 | 8.41 1.54 |
| MW-90-17 1427.97 | Depth (ft) Elev. (ft) | 20.70 1407.27 | 22.26 1405.71 | 22.46 2.86 |
| MW-91-19 1347.50 | Depth (ft) Elev. (ft) | 11.32 1336.18 | 11.06 1336.44 | 12.02 1.61 |
| MW-91-20 1371.99 | Depth (ft) Elev. (ft) | 5.71 1366.28 | 6.60 1365.39 | 9.04 3.32 |

Table 5 – Background and GWPS Summary

Table 5
Background and GWPS Summary
Annual Water Quality Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C

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 | 31 | 0 | | | 2.0000 | 0.99 | 6 | SS |
| Arsenic (As) | µg/l | nonparametric | 31 | 0 | | | 4.0000 | 0.99 | 10 | SS |
| Barium (Ba) | µg/l | normal | 31 | 31 | 250.1290 | 45.4435 | 363.5707 | | 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 | 30 | 0 | | | 8.0000 | 0.99 | 100 | SS |
| Cobalt (Co) | µg/l | nonparametric | 31 | 0 | | | 0.8000 | 0.99 | 0.8 | SS |
| Copper (Cu) | µg/l | nonparametric | 31 | 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 | 31 | 4 | | | 7.1000 | 0.99 | 100 | SS |
| Selenium (Se) | µg/l | nonparametric | 31 | 0 | | | 4.0000 | 0.99 | 50 | SS |
| Silver (Ag) | µg/l | nonparametric | 31 | 0 | | | 4.0000 | 0.99 | 100 | SS |
| Thallium (Tl) | µg/l | nonparametric | 31 | 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 | 31 | 2 | | | 10.5000 | 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 | 31 | 0 | <1 | <1 | <1 | <1 | various | SS |

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

Table 6 – Summary of Detections

Table 6
Summary of Well/Detected Constituent Pairs that Exceed the Prediction Limit
Annual Water Quality Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C

| Date | Well | Constituent | Units | Most recent result | Background Standard |
|-------------|-------------|--------------------|--------------|---------------------------|----------------------------|
| 4/18/2024 | MW90-7 | Cobalt | ug/L | 1.9 | 0.8 |
| 10/15/2024 | MW90-7 | Cobalt | ug/L | 7.6 | 0.8 |
| 4/18/2024 | MW90-7 | Nickel | ug/L | 28.4 | 7.1 |
| 10/15/2024 | MW90-7 | Nickel | ug/L | 23.3 | 7.1 |
| 4/18/2024 | MW90-14 | Nickel | ug/L | 13.1 | 7.1 |
| 10/15/2024 | MW90-14 | Nickel | ug/L | 12.9 | 7.1 |
| 10/15/2024 | MW90-14 | Cadmium | ug/L | 1.3 | 1.1 |
| 4/18/2024 | MW90-4 | Barium | ug/L | 375 | 363.9 |
| 10/15/2024 | MW90-4 | Barium | ug/L | 381 | 363.6 |
| 10/15/2024 | MW90-4 | Cadmium | ug/L | 1.3 | 1.1 |

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 |

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 |

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 |

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 | 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 |

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 |
|-----------------|----------|-------------|--------------------|-------------------------|----------------|-------------------|--------------------|---------------|-----------------------|
| MW90-7 | 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 |

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 |
|-----------------|----------|-------------|--------------------|-------------------------|----------------|-------------------|--------------------|---------------|-----------------------|
| MW90-7 | 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 |

Table 7
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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 |
|-----------------|----------------------------|-------------|--------------------|-------------------------|----------------|-------------------|--------------------|---------------|-----------------------|
| MW90-7 | 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 |

Table 7
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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 | 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 |

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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 |

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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 | 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 |

Table 7
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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 | 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 |

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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 | 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 |

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| KEY: | SSI | SSL LCL>GWPS |
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Note: The absence of shading indicates that the condition does not exist.

| Monitoring Well | Compound | Sample Date | Each Result (ug/L) | Prediction Limit (ug/L) | 95% LCL (ug/L) | GWPS Limit (ug/L) | 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 |

Table 7
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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 |
|-----------------|----------|-------------|--------------------|-------------------------|----------------|-------------------|--------------------|---------------|-----------------------|
| 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 |

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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 | 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 |

Table 7
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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 | 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 | 1.00 | 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 | 1.00 | 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 | 2.40 | 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 | 1.90 | 0.80 | 0.000 | 2.1 | NA | NA | 9/6/2011 |
| MW91-19 | Cobalt | 1/4/2023 | 0.70 | 0.80 | 0.058 | 2.1 | NA | NA | 9/6/2011 |
| MW91-19 | Cobalt | 4/5/2023 | 0.50 | 0.80 | 0.058 | 2.1 | NA | NA | 9/6/2011 |
| MW91-19 | Cobalt | 10/13/2023 | 1.40 | 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 |

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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 | 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 |

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 | | | | | | <.8 | | | |
| 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 | | | |
| 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 | | | | | | | | | <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 |
| 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 | <10.0 |
| Acetonitrile | | | | | | | | | <10 |
| Acetophenone | | | | | | | | | <8 |
| Acrolein | | | | | | | | | <10 |
| Acrylonitrile | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Aldrin | | | | | | | | | <.05 |
| Allyl chloride | | | | | | | | | <1 |
| Alpha-bhc | | | | | | | | | <.05 |

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

Table 9

Analytical Data Summary for 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 |
|----------------------------------|------------|-----------|------------|
| (3 4)-methylphenol | <8 | | |
| 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 | <1.0 | <1.0 | <1.0 |
| 1,1-dichloroethene | <1 | <1 | <1 |
| 1,1-dichloropropene | <1 | | |
| 1,2,3-trichloropropane | <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 |
| 1,2-dibromoethane (edb) | <1.00 | <1.00 | <1.00 |
| 1,2-dichlorobenzene | <1 | <1 | <1 |
| 1,2-dichloroethane | <1 | <1 | <1 |
| 1,2-dichloropropane | <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 |
| 1,4-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 |
| 2-chloronaphthalene | <8 | | |
| 2-chlorophenol | <8 | | |
| 2-hexanone | <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 |
| 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 |
| Acetonitrile | <10 | | |
| Acetophenone | <8 | | |
| Acrolein | <10 | | |
| Acrylonitrile | <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 | | <1 | <1 | <4 | <4 | <4 |
| 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 | | <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 | 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 | <4 | <4 | <4 | <4 | | <4 | <4 | <4 |
| Beta-bhc | | | | | | | <.05 | | |
| Bis(2-chloroethoxy)methane | | | | | | | <8 | | |
| Bis(2-chloroethyl)ether | | | | | | | <8 | | |
| Bis(2-chloroisopropyl) ether | | | | | | | <8 | | |
| Bis(2-ethylhexyl)phthalate | | | | | | | <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 | <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 | <4.0 | <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 | | | | | | | <.05 | | |
| Delta-bhc | | | | | | | <8 | | |
| Diallate | | | | | | | | | |
| 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 | | | | | | | | | <8 |
| Anthracene | | | | | | | | | <2 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Beta-bhc | | | | | | | | | <.05 |
| Bis(2-chloroethoxy)methane | | | | | | | | | <8 |
| Bis(2-chloroethyl)ether | | | | | | | | | <8 |
| Bis(2-chloroisopropyl) ether | | | | | | | | | <8 |
| Bis(2-ethylhexyl)phthalate | | | | | | | | | 12 |
| 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 | | | | | | | | | <.1 |
| Chlordane | | | | | | | | | <.1 |
| Chloride | | | | | | | | | <8 |
| Chlorobenzene | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzilate | | | | | | | | | <8 |
| Chlorodibromomethane | | | | | | | | | <8 |
| 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 | <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 | 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 | | | | | | | | | <.05 |
| Delta-bhc | | | | | | | | | <.05 |
| Diallate | | | | | | | | | <8 |
| Diallate (cis or trans) | | | | | | | | | <8 |
| Dibenzo(a,h)anthracene | | | | | | | | | <8 |
| Dibenzofuran | | | | | | | | | <8 |
| Dibromochloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Dibromomethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Dicamba | | | | | | | | | <1 |
| Dichlorodifluoromethane | | | | | | | | | <1 |
| Dichloroprop | | | | | | | | | <.05 |
| 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 | | | | | | | | | <.05 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Beta-bhc | | | | | | | | | |
| Bis(2-chloroethoxy)methane | | | | | | | | | |
| Bis(2-chloroethyl)ether | | | | | | | | | |
| Bis(2-chloroisopropyl) ether | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | 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 | <8 | <8 | <8 | <8 | <8 | <8 | <8 | <8 |
| 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 |
|------------------------------|------------|-----------|------------|
| Alpha-chlordane | | | |
| Ammonia as n | | | |
| Anthracene | <8 | | |
| Antimony, total | <2 | <2 | <2 |
| Arsenic, total | <4.00 | <4.00 | <4.00 |
| Azobenzene | <8 | | |
| Barium, total | 381 | 263 | 237 |
| Benzene | <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 | <4 | <4 |
| 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 |
| Bromodichloromethane | <1 | <1 | <1 |
| Bromoform | <1 | <1 | <1 |
| Bromomethane | <1 | <1 | <1 |
| Butyl benzyl phthalate | <8 | | |
| Cadmium, total | <.80 | <.80 | 1.30 |
| Carbon disulfide | <1 | <1 | <1 |
| Carbon tetrachloride | <1 | <1 | <1 |
| Chemical oxygen demand | | | |
| Chlordane | <.1 | | |
| Chloride | | | |
| Chlorobenzene | <1 | <1 | <1 |
| Chlorobenzilate | <8 | | |
| Chlorodibromomethane | | | |
| Chloroethane | <1.0 | <1.0 | <1.0 |
| Chloroform | <1 | <1 | <1 |
| Chloromethane | <1 | <1 | <1 |
| Chloroprene | <1 | | |
| Chromium, total | <8 | <8 | <8 |
| Chrysene | <8 | | |
| Cis-1,2-dichloroethene | <1 | <1 | <1 |
| Cis-1,3-dichloropropene | <1 | <1 | <1 |
| Cobalt, total | .9 | <.4 | .4 |
| Copper, total | <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 |
| Dibromomethane | <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 |
| 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 | | <2 | <2 | <4 | <4 | <4 |

* - 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 | | | | | | .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 | | | | | | <.1 | | | |
| Tetrachloroethene | <1 | <1 | <1 | <1 | <1 | <1 | | <1 | <1 |
| Thallium, total | <4 | <4 | <2 | <2 | <2 | <4 | <4 | <4 | <4 |

* - 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 | | | | | | | | | <.05 |
| Heptachlor | | | | | | | | | <.05 |
| Heptachlor epoxide | | | | | | | | | <.05 |
| Hexachlorobenzene | | | | | | | | | <.05 |
| Hexachlorobutadiene | | | | | | | | | <8 |
| Hexachlorocyclopentadiene | | | | | | | | | <8 |
| Hexachloroethane | | | | | | | | | <8 |
| Hexachloropropene | | | | | | | | | <8 |
| Indeno(1,2,3-cd)pyrene | | | | | | | | | <8 |
| Iodomethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Iron, dissolved | | | | | | | | | |
| Iron, total | | | | | | | | | |
| Isobutanol | | | | | | | | | <1000 |
| Isodrin | | | | | | | | | <8 |
| Isophorone | | | | | | | | | <8 |
| Isosafrole | | | | | | | | | <8 |
| Kepona | | | | | | | | | <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 | <5 |
| Naphthalene | | | | | | | | | <8 |
| Nickel, total | 18.3 | 20.8 | 36.1 | 21.3 | 31.9 | 30.9 | 20.1 | 35.0 | <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 | | | | | | | | | <.1 |
| Pentachlorobenzene | | | | | | | | | <8 |
| Pentachloroethane | | | | | | | | | <8 |
| 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 | <1 |
| Sulfide, total | | | | | | | | | <.1 |
| Tetrachloroethene | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thallium, total | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |

* - 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 | | | | | | | | | |
| Methapyrilene | | | | | | | | | |
| 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 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |

* - 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 |
|---------------------------------|------------|-----------|------------|
| 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 |
| Iron, dissolved | | | |
| Iron, total | | | |
| Isobutanol | <1000 | | |
| Isodrin | <8 | | |
| Isophorone | <8 | | |
| Isosafrole | <8 | | |
| Kepone | <8 | | |
| Lead, total | <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 |
| Naphthalene | <8 | | |
| Nickel, total | 36.5 | 13.1 | 12.9 |
| 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 | <.2 | | |
| 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 |
| Silver, total | <4 | <4 | <4 |
| Specific conductance | | | |
| Styrene | <1 | <1 | <1 |
| Sulfide, total | <.1 | | |
| Tetrachloroethene | <1 | <1 | <1 |
| Thallium, total | <2 | <2 | <2 |

* - 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 | <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 | <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 MW90-14

| 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 |
|-----------------------------|------------|-----------|------------|
| Thionazin | <.4 | | |
| Tin, total | <20 | | |
| Toluene | <1 | <1 | <1 |
| Total organic halides | | | |
| Total suspended solids | | | |
| Toxaphene | <.2 | | |
| 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 | <20.0 | <20.0 |
| Vinyl acetate | <5 | <5 | <5 |
| Vinyl chloride | <1 | <1 | <1 |
| Xylenes, total | <2 | <2 | <2 |
| Zinc, total | <20.0 | <20.0 | <20.0 |

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

Table 9

Analytical Data Summary for 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 | <4 | <10 | <4 | <4 | <4 |
| 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 | <10 | <25 | <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 | <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 | <4 | <10 | <4 | <4 | <2 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Bromochloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromodichloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromoform | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromomethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Cadmium, 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 | <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 | <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 | <2 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <4 | | <4 | <4 | | <4 | <4 | |
| 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 | <8 | | <8 | <8 | | <8 | <8 | |
| 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 | <4 | | <4 | <4 | | <2 | <2 | |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Bromochloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromodichloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromoform | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromomethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Cadmium, 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 | <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 | <.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 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 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 |
|-----------------------------|------------|
| 1,1,1,2-tetrachloroethane | <1 |
| 1,1,1-trichloroethane | <1 |
| 1,1,2,2-tetrachloroethane | <1 |
| 1,1,2-trichloroethane | <1 |
| 1,1-dichloroethane | <1 |
| 1,1-dichloroethene | <1 |
| 1,2,3-trichloropropane | <1 |
| 1,2-dibromo-3-chloropropane | <5 |
| 1,2-dibromoethane (edb) | <1 |
| 1,2-dichlorobenzene | <1 |
| 1,2-dichloroethane | <1 |
| 1,2-dichloropropane | <1 |
| 1,4-dichlorobenzene | <1 |
| 2-butanone (mek) | <10 |
| 2-hexanone | <5 |
| 4-methyl-2-pentanone (mibk) | <5 |
| Acetone | <10.0 |
| Acrylonitrile | <5 |
| Ammonia as n | |
| Antimony, total | <2 |
| Arsenic, dissolved | |
| Arsenic, total | <4 |
| Barium, dissolved | |
| Barium, total | 280 |
| Benzene | <1 |
| Beryllium, total | <4 |
| Bromochloromethane | <1 |
| Bromodichloromethane | <1 |
| Bromoform | <1 |
| Bromomethane | <1 |
| Cadmium, dissolved | |
| Cadmium, total | <.8 |
| Carbon disulfide | <1 |
| Carbon tetrachloride | <1 |
| Chemical oxygen demand | |
| Chloride | |
| Chlorobenzene | <1 |
| Chloroethane | <1 |
| Chloroform | <1 |
| Chloromethane | <1 |
| Chromium, total | <8 |
| Cis-1,2-dichloroethene | <1 |
| Cis-1,3-dichloropropene | <1 |
| Cobalt, total | <.4 |
| Copper, total | <4 |
| Dibromochloromethane | <1 |
| Dibromomethane | <1 |
| Ethylbenzene | <1 |
| Iodomethane | <1 |
| Iron, dissolved | |
| Iron, total | |
| Lead, total | <4 |
| Methylene chloride | <5 |
| Nickel, total | <4.0 |
| pH | |
| Phenol | |
| Selenium, total | <4 |
| Silver, total | <4 |
| Specific conductance | |
| Styrene | <1 |
| Tetrachloroethene | <1 |
| Thallium, total | <2 |
| Toluene | <1 |
| Total organic halides | |
| Total suspended solids | |
| Trans-1,2-dichloroethene | <1 |
| Trans-1,3-dichloropropene | <1 |
| Trans-1,4-dichloro-2-butene | <5 |
| Trichloroethene | <1 |
| Trichlorofluoromethane | <1 |
| Vanadium, total | <20.0 |
| Vinyl acetate | <5 |
| Vinyl chloride | <1 |
| Xylenes, total | <2 |
| Zinc, dissolved | |
| Zinc, total | <20.0 |

* - 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 | | | | | | | | | |
| 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 MW90-4

| 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 |
|----------------------------------|----------|----------|------------|-----------|------------|
| (3,4)-methylphenol | | | | | |
| 1,1,1,2-tetrachloroethane | | <1 | <1 | <1 | <1 |
| 1,1,1-trichloroethane | | <1 | <1 | <1 | <1 |
| 1,1,2,2-tetrachloroethane | | <1 | <1 | <1 | <1 |
| 1,1,2-trichloroethane | | <1 | <1 | <1 | <1 |
| 1,1-dichloroethane | | <1 | <1 | <1 | <1 |
| 1,1-dichloroethene | | <1 | <1 | <1 | <1 |
| 1,1-dichloropropene | | | | | |
| 1,2,3-trichloropropane | | <1 | <1 | <1 | <1 |
| 1,2,4,5-tetrachlorobenzene | | | | | |
| 1,2,4-trichlorobenzene | | | | | |
| 1,2-dibromo-3-chloropropane | | <5.00 | <5.00 | <5.00 | <5.00 |
| 1,2-dibromoethane (edb) | | <1.00 | <1.00 | <1.00 | <1.00 |
| 1,2-dichlorobenzene | | <1 | <1 | <1 | <1 |
| 1,2-dichloroethane | | <1 | <1 | <1 | <1 |
| 1,2-dichloropropane | | <1 | <1 | <1 | <1 |
| 1,2-dinitrobenzene | | | | | |
| 1,3,5-trinitrobenzene | | | | | |
| 1,3-dichlorobenzene | | | | | |
| 1,3-dichloropropane | | | | | |
| 1,3-dinitrobenzene | | | | | |
| 1,4-dichlorobenzene | | <1 | <1 | <1 | <1 |
| 1,4-naphthoquinone | | | | | |
| 1,4-phenylenediamine | | | | | |
| 1-naphthylamine | | | | | |
| 2,2-dichloropropane | | | | | |
| 2,3,4,6-tetrachlorophenol | | | | | |
| 2,4,5-t | | | | | |
| 2,4,5-tp (silvex) | | | | | |
| 2,4,5-trichlorophenol | | | | | |
| 2,4,6-trichlorophenol | | | | | |
| 2,4-d | | | | | |
| 2,4-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 |
| 2-chloronaphthalene | | | | | |
| 2-chlorophenol | | | | | |
| 2-hexanone | | <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 |
| 4-nitroaniline | | | | | |
| 4-nitrophenol | | | | | |
| 5-nitro-o-toluidine | | | | | |
| 7,12-dimethylbenz (a) anthracene | | | | | |
| Acenaphthene | | | | | |
| Acetone | | <10 | <10 | <10 | <10 |
| Acetonitrile | | | | | |
| Acetophenone | | | | | |
| Acrolein | | | | | |
| Acrylonitrile | | <5 | <5 | <5 | <5 |
| Aldrin | | | | | |
| Allyl chloride | | | | | |
| Alpha-bhc | | | | | |

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

Table 9

Analytical Data Summary for 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 | | | <8 | | | | | | |
| 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 | | | <.05 | | | | | | |
| 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 | | | | | | <.05 | | | |
| 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 |
|------------------------------|----------|----------|------------|-----------|------------|
| Alpha-chlordane | | | | | |
| Ammonia as n | | | | | |
| Anthracene | | | | | |
| Antimony, total | | <2 | <2 | <2 | <2 |
| Arsenic, total | | <4.00 | <4.00 | <4.00 | <4.00 |
| Azobenzene | | | | | |
| Barium, total | | 320 | 342 | 375 | 381 |
| Benzene | | <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 |
| 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 |
| Bromodichloromethane | | <1 | <1 | <1 | <1 |
| Bromoform | | <1 | <1 | <1 | <1 |
| Bromomethane | | <1 | <1 | <1 | <1 |
| Butyl benzyl phthalate | | | | | |
| Cadmium, total | <.8 | <.8 | <.8 | <.8 | 1.3 |
| Carbon disulfide | | <1 | <1 | <1 | <1 |
| Carbon tetrachloride | | <1 | <1 | <1 | <1 |
| Chemical oxygen demand | | | | | |
| Chlordane | | | | | |
| Chloride | | | | | |
| Chlorobenzene | | <1 | <1 | <1 | <1 |
| Chlorobenzilate | | | | | |
| Chlorodibromomethane | | | | | |
| Chloroethane | | <1 | <1 | <1 | <1 |
| Chloroform | | <1 | <1 | <1 | <1 |
| Chloromethane | | <1 | <1 | <1 | <1 |
| Chloroprene | | | | | |
| Chromium, total | | <8.0 | <8.0 | <8.0 | <8.0 |
| Chrysene | | | | | |
| Cis-1,2-dichloroethene | | <1 | <1 | <1 | <1 |
| Cis-1,3-dichloropropene | | <1 | <1 | <1 | <1 |
| Cobalt, total | <.4 | <.4 | <.4 | <.4 | <.4 |
| Copper, total | | <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 |
| Dibromomethane | | <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 |
| 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-nitroso-di-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 | | | | | | |
| Tetrachloroethene | ug/L | | <1 | | <1 | <1 | <1 | <1 | <1 |
| Thallium, total | ug/L | | <2 | | <2 | <2 | <4 | <4 | <4 |

* - 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 | | | | | | | | | |
| Kepona | | | | | | | | | |
| 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 | | | | | | | | | |
| Methapyrilene | | | | | | | | | |
| 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 | <4 | <2 | <2 | <2 | <4 | <4 | <4 | <4 |

* - 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 | | | | | | |
| 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 | 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 | <4 | <4 | <4 | <4 | <4 | | <4 | <4 |

* - 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 | | | |
| 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 | 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 | | <2 | <2 | <2 | <2 | <2 | <2 | <2 |

* - 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 |
|---------------------------------|----------|----------|------------|-----------|------------|
| 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 |
| Iron, dissolved | | | | | |
| Iron, total | | | | | |
| Isobutanol | | | | | |
| Isodrin | | | | | |
| Isophorone | | | | | |
| Isosafrole | | | | | |
| Kepona | | | | | |
| Lead, total | | <4.00 | <4.00 | <4.00 | <4.00 |
| Mcpa | | | | | |
| Mcpp | | | | | |
| Mercury, total | | | | | |
| Methacrylonitrile | | | | | |
| Methapyrilene | | | | | |
| Methoxychlor | | | | | |
| Methyl methacrylate | | | | | |
| Methyl methanesulfonate | | | | | |
| Methyl parathion | | | | | |
| Methylene chloride | | <5 | <5 | <5 | <5 |
| Naphthalene | | | | | |
| Nickel, total | | <4.0 | 4.3 | <4.0 | <4.0 |
| Nitrobenzene | | | | | |
| N-nitrosodiethylamine | | | | | |
| N-nitrosodimethylamine | | | | | |
| N-nitrosodi-n-butylamine | | | | | |
| N-nitroso-di-n-propylamine | | | | | |
| N-nitrosodiphenylamine | | | | | |
| N-nitrosomethylethylamine | | | | | |
| N-nitrosopiperidine | | | | | |
| N-nitrosopyrrolidine | | | | | |
| O,o,o-triethyl phosphorothioate | | | | | |
| O-toluidine | | | | | |
| 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 |
| Silver, total | | <4 | <4 | <4 | <4 |
| Specific conductance | | | | | |
| Styrene | | <1 | <1 | <1 | <1 |
| Sulfide, total | | | | | |
| Tetrachloroethene | | <1 | <1 | <1 | <1 |
| Thallium, total | | <2 | <2 | <2 | <2 |

* - 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 |
|-----------------------------|----------|----------|------------|-----------|------------|
| Thionazin | | | | | |
| Tin, total | | | | | |
| Toluene | | <1 | <1 | <1 | <1 |
| Total organic halides | | | | | |
| Total suspended solids | | | | | |
| Toxaphene | | | | | |
| Trans-1,2-dichloroethene | | <1 | <1 | <1 | <1 |
| Trans-1,3-dichloropropene | | <1 | <1 | <1 | <1 |
| Trans-1,4-dichloro-2-butene | | <5 | <5 | <5 | <5 |
| Trichloroethene | | <1 | <1 | <1 | <1 |
| Trichlorofluoromethane | | <1 | <1 | <1 | <1 |
| Vanadium, total | | <20.0 | <20.0 | <20.0 | <20.0 |
| Vinyl acetate | | <5 | <5 | <5 | <5 |
| Vinyl chloride | | <1 | <1 | <1 | <1 |
| Xylenes, total | | <2 | <2 | <2 | <2 |
| Zinc, total | | <20.0 | <20.0 | <20.0 | <20.0 |

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

Table 9

Analytical Data Summary for 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 | | | | | | | | | <8 * |
| Acetone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Acetonitrile | | | | | | | | | <10 |
| Acetophenone | | | | | | | | | <8 |
| Acrolein | | | | | | | | | <10 |
| Acrylonitrile | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Aldrin | | | | | | | | | <.05 |
| Allyl chloride | | | | | | | | | <1 |
| Alpha-bhc | | | | | | | | | <.05 |

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

Table 9

Analytical Data Summary for 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 |
|----------------------------------|------------|-----------|------------|
| (3 4)-methylphenol | | <8 | |
| 1,1,1,2-tetrachloroethane | <1 | <1 | <1 |
| 1,1,1-trichloroethane | <1 | <1 | <1 |
| 1,1,2,2-tetrachloroethane | <1 | <1 | <1 |
| 1,1,2-trichloroethane | <1 | <1 | <1 |
| 1,1-dichloroethane | <1 | <1 | <1 |
| 1,1-dichloroethene | <1 | <1 | <1 |
| 1,1-dichloropropene | | <1 | |
| 1,2,3-trichloropropane | <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 |
| 1,2-dibromoethane (edb) | <1.00 | <1.00 | <1.00 |
| 1,2-dichlorobenzene | <1 | <1 | <1 |
| 1,2-dichloroethane | <1 | <1 | <1 |
| 1,2-dichloropropane | <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 |
| 1,4-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 |
| 2-chloronaphthalene | | <8 | |
| 2-chlorophenol | | <8 | |
| 2-hexanone | <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 |
| 4-nitroaniline | | <8 | |
| 4-nitrophenol | | <8.000 | |
| 5-nitro-o-toluidine | | <8 | |
| 7,12-dimethylbenz (a) anthracene | | <8 | |
| Acenaphthene | | <8 * | |
| Acetone | <10 | <10 | <10 |
| Acetonitrile | | <10 | |
| Acetophenone | | <8 | |
| Acrolein | | <10 | |
| Acrylonitrile | <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 | | <1 | <1 | <4 | <4 | <4 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Beta-bhc | | | | | | | | <.05 | |
| Bis(2-chloroethoxy)methane | | | | | | | | <8 | |
| Bis(2-chloroethyl)ether | | | | | | | | <8 | |
| Bis(2-chloroisopropyl) ether | | | | | | | | <8 | |
| Bis(2-ethylhexyl)phthalate | | | | | | | | <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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Beta-bhc | | | | | | | | | <.05 |
| Bis(2-chloroethoxy)methane | | | | | | | | | <8 |
| Bis(2-chloroethyl)ether | | | | | | | | | <8 |
| Bis(2-chloroisopropyl) ether | | | | | | | | | |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Beta-bhc | | | | | | | | | |
| Bis(2-chloroethoxy)methane | | | | | | | | | |
| Bis(2-chloroethyl)ether | | | | | | | | | |
| Bis(2-chloroisopropyl) ether | | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | 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 |
|------------------------------|------------|-----------|------------|
| Alpha-chlordane | | | |
| Ammonia as n | | | |
| Anthracene | | <8 | |
| Antimony, total | <2 | <2 | <2 |
| Arsenic, total | <4.00 | <4.00 | <4.00 |
| Azobenzene | | <8 | |
| Barium, total | 302.0 | 248.0 | 271.0 |
| Benzene | <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 | <4 | <4 |
| 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 |
| Bromodichloromethane | <1 | <1 | <1 |
| Bromoform | <1 | <1 | <1 |
| Bromomethane | <1 | <1 | <1 |
| Butyl benzyl phthalate | | <8 | |
| Cadmium, total | <.800 | <.800 | <.800 |
| Carbon disulfide | <1 | <1 | <1 |
| Carbon tetrachloride | <1 | <1 | <1 |
| Chemical oxygen demand | | | |
| Chlordane | | <.1 | |
| Chloride | | | |
| Chlorobenzene | <1 | <1 | <1 |
| Chlorobenzilate | | <8 | |
| Chlorodibromomethane | | | |
| Chloroethane | <1 | <1 | <1 |
| Chloroform | <1 | <1 | <1 |
| Chloromethane | <1 | <1 | <1 |
| Chloroprene | | <1 | |
| Chromium, total | <8 | <8 | <8 |
| Chrysene | | <8 | |
| Cis-1,2-dichloroethene | <1 | <1 | <1 |
| Cis-1,3-dichloropropene | <1 | <1 | <1 |
| Cobalt, total | 19.8 | 1.9 | 7.6 |
| Copper, total | <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 |
| Dibromomethane | <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 |
| 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-nitroso-di-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 | | <2 | <2 | <4 | <4 | <4 |

* - 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 | |
| Kepona | | | | | | | | <8 | |
| Lead, total | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Mcpa | | | | | | | | | |
| Mcpp | | | | | | | | | |
| Mercury, total | | | | | | | | <.5 | |
| Methacrylonitrile | | | | | | | | <1 | |
| Methacrylonitrile | | | | | | | | <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 | <4 | <2 | <2 | <2 | <4 | <4 | <4 | <4 |

* - 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 | | | | | | | | | <.05 |
| Heptachlor | | | | | | | | | <.05 |
| Heptachlor epoxide | | | | | | | | | <.05 |
| Hexachlorobenzene | | | | | | | | | <.05 |
| Hexachlorobutadiene | | | | | | | | | <8 |
| Hexachlorocyclopentadiene | | | | | | | | | <8 |
| Hexachloroethane | | | | | | | | | <8 |
| Hexachloropropene | | | | | | | | | <8 |
| Indeno(1,2,3-cd)pyrene | | | | | | | | | <8 |
| Iodomethane | <1 | <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 | <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 | | | | | | | | | <.1 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <2 |

* - 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 | | | | | | | | | |
| Methapyrilene | | | | | | | | | |
| 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 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |

* - 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 |
|---------------------------------|------------|-----------|------------|
| 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 |
| Iron, dissolved | | | |
| Iron, total | | | |
| Isobutanol | | <1000 | |
| Isodrin | | <8 | |
| Isophorone | | <8 | |
| Isosafrole | | <8 | |
| Kepone | | <8 | |
| Lead, total | <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 |
| Naphthalene | | <8 | |
| Nickel, total | 29.4 | 28.4 | 23.3 |
| 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 | | <.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 |
| Silver, total | <4 | <4 | <4 |
| Specific conductance | | | |
| Styrene | <1 | <1 | <1 |
| Sulfide, total | | <.15 | |
| Tetrachloroethene | <1 | <1 | <1 |
| Thallium, total | <2 | <2 | <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 |
|-----------------------------|-------|-----------|----------|----------|------------|----------|-----------|-----------|----------|
| 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 |
|-----------------------------|------------|-----------|------------|
| Thionazin | | <.4 | |
| Tin, total | | <20 | |
| Toluene | <1 | <1 | <1 |
| Total organic halides | | | |
| Total suspended solids | | | |
| Toxaphene | | <.2 | |
| 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 | <20.0 | <20.0 |
| Vinyl acetate | <5 | <5 | <5 |
| Vinyl chloride | <1 | <1 | <1 |
| Xylenes, total | <2 | <2 | <2 |
| Zinc, total | <20.0 | <20.0 | <20.0 |

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

Table 9

Analytical Data Summary for 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 |
|----------------------------------|------------|----------|-----------|----------|----------|------------|-----------|------------|
| (3 4)-methylphenol | | | | | <8 | | <8 | |
| 1,1,1,2-tetrachloroethane | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| 1,1,1-trichloroethane | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| 1,1,2,2-tetrachloroethane | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| 1,1,2-trichloroethane | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| 1,1-dichloroethane | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| 1,1-dichloroethene | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| 1,1-dichloropropene | | | | | <1 | | <1 | |
| 1,2,3-trichloropropane | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| 1,2,4,5-tetrachlorobenzene | | | | | <8 | | <8 | |
| 1,2,4-trichlorobenzene | | | | | <1 | | <1 | |
| 1,2-dibromo-3-chloropropane | <5.00 | <5.00 | <5.00 | | <1.00 | <5.00 | <1.00 | <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 | | | | | <8 | | <8 | |
| 1,3,5-trinitrobenzene | | | | | <8 | | <8 | |
| 1,3-dichlorobenzene | | | | | <1 | | <1 | |
| 1,3-dichloropropane | | | | | <1 | | <1 | |
| 1,3-dinitrobenzene | | | | | <8 | | <8 | |
| 1,4-dichlorobenzene | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| 1,4-naphthoquinone | | | | | <8 | | <8 | |
| 1,4-phenylenediamine | | | | | <8 | | <8 | |
| 1-naphthylamine | | | | | <8 | | <8 | |
| 2,2-dichloropropane | | | | | <1 | | <1 | |
| 2,3,4,6-tetrachlorophenol | | | | | <8 | | <8 | |
| 2,4,5-t | | | | | <5 | | <5 | |
| 2,4,5-tp (silvex) | | | | | <5 | | <5 | |
| 2,4,5-trichlorophenol | | | | | <8 | | <8 | |
| 2,4,6-trichlorophenol | | | | | <8 | | <8 | |
| 2,4-d | | | | | <2 | | <2 | |
| 2,4-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 |
| 2-chloronaphthalene | | | | | <8 | | <8 | |
| 2-chlorophenol | | | | | <8 | | <8 | |
| 2-hexanone | <5 | <5 | <5 | | <5 | <5 | <5 | <5 |
| 2-methylnaphthalene | | | | | <8 | | <8 | |
| 2-methylphenol (o-cresol) | | | | | <8 | | <8 | |
| 2-naphthylamine | | | | | <8 | | <8 | |
| 2-nitroaniline | | | | | <8 | | <8 | |
| 2-nitrophenol | | | | | <8 | | <8 | |
| 3,3'-dichlorobenzidine | | | | | <8 | | <8 | |
| 3,3'-dimethylbenzidine | | | | | <8 | | <8 | |
| 3/4-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 |
| 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 |
| Acetonitrile | | | | | <10 | | <10 | |
| Acetophenone | | | | | <8 | | <8 | |
| Acrolein | | | | | <10 | | <10 | |
| Acrylonitrile | <5 | <5 | <5 | | <5 | <5 | <5 | <5 |
| Aldrin | | | | | <.05 | | <.05 | |
| Allyl chloride | | | | | <1 | | <1 | |
| Alpha-bhc | | | | | <.05 | | <.05 | |

* - 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 | | <1 | <1 | <4 | <4 | <4 |
| 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 | | <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 | <4.0 | <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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Beta-bhc | | | | | | | | <.05 | |
| Bis(2-chloroethoxy)methane | | | | | | | | <8 | |
| Bis(2-chloroethyl)ether | | | | | | | | <8 | |
| Bis(2-chloroisopropyl) ether | | | | | | | | <8 | |
| Bis(2-ethylhexyl)phthalate | | | | | | | | <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 | <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 | <4.0 | <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 | <4 | <4 | | <4 | | <4 | | <4 |
| 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 | <8 | <8 | | <8 | | <8 | | <8 |
| 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 | <4 | <4 | <4 | <4 | | <4 | <4 |
| 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 | <8 | <8 | <8 | <8 | | <8 | <8 |
| 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 |
|------------------------------|------------|----------|-----------|----------|----------|------------|-----------|------------|
| Alpha-chlordane | | | | | | | | |
| Ammonia as n | | | | | | | | |
| Anthracene | | | | | <8 | | <8 | |
| 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 | | | | | <8 | | <8 | |
| Barium, total | 321 | 343 | 504 | 434 | 380 | 482 | 303 | 276 |
| Benzene | <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 | <4 | <4 | | <4 | <4 | <4 | <4 |
| 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 |
| Bromodichloromethane | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| Bromoform | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| Bromomethane | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| Butyl benzyl phthalate | | | | | <8 | | <8 | |
| Cadmium, total | <.8 | <.8 | 2.9 | <.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 | | | | | <.1 | | <.1 | |
| Chloride | | | | | | | | |
| Chlorobenzene | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| Chlorobenzilate | | | | | <8 | | <8 | |
| 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 | | | | | <1 | | <1 | |
| Chromium, total | <8 | <8 | <8 | | <8 | <8 | <8 | <8 |
| Chrysene | | | | | <8 | | <8 | |
| Cis-1,2-dichloroethene | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| Cis-1,3-dichloropropene | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| Cobalt, total | <.4 | <.4 | 1.9 | .7 | .5 | 1.4 | <.4 | <.4 |
| Copper, total | <4 | <4 | <4 | | <4 | <4 | <4 | <4 |
| 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 |
| Dibromomethane | <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 |
| 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 | 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 | |
| Kepona | | | | | | | | <8 | |
| Lead, total | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Mcpa | | | | | | | | | |
| Mcpp | | | | | | | | | |
| Mercury, total | | | | | | | | <.5 | |
| Methacrylonitrile | | | | | | | | <1 | |
| Methacrylonitrile | | | | | | | | <8 | |
| Methacrylonitrile | | | | | | | | <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 | | | | | | | | | |
| Kepon | | | | | | | | | |
| Lead, total | <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 |
| 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 |
|---------------------------------|------------|----------|-----------|----------|----------|------------|-----------|------------|
| 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 |
| 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 |
| 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 |
| Naphthalene | | | | | <8 | | <8 | |
| Nickel, total | <4.0 | <4.0 | 7.8 | 10.1 | <4.0 | 5.3 | <4.0 | <4.0 |
| 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 |
| Silver, total | <4 | <4 | <4 | | <4 | <4 | <4 | <4 |
| Specific conductance | | | | | | | | |
| Styrene | <1 | <1 | <1 | | <1 | <1 | <1 | <1 |
| Sulfide, total | | | | | <.10 | | <.15 | |
| 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 | 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 | | <2 | <2 | <4 | <4 | <4 |
| 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 | <4 | <2 | <2 | <2 | <4 | <4 | <4 | <4 |
| Thionazin | | | | | | | | <4 | |
| Tin, total | | | | | | | | <20 | |
| Toluene | <1 | <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 | <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 | 20.8 | <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 | <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 | <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 | <4 | <4 | | <4 | | <4 | | <4 |
| 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 | <4 | <2 | <2 | <2 | | <2 | <2 |
| 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 |
|-----------------------------|------------|----------|-----------|----------|----------|------------|-----------|------------|
| Thallium, total | <2 | <2 | <2 | | <2 | <2 | <2 | <2 |
| Thionazin | | | | | <.4 | | <.4 | |
| Tin, total | | | | | <20 | | <20 | |
| Toluene | <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 |
| 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 | <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 | 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 | <4 | <4 | <4 | <4 |
| 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 | <1 | <1 | <1 | <1 |
| 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 | <10 | <10 | <8 | <20 |
| 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 | <4 | <4 | <4 | <4 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <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 | <2 | <2 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Bromochloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromodichloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromoform | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromomethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Cadmium, total | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 |
| Carbon disulfide | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon tetrachloride | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 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 | <.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 | <4 | <4 | <4 | <4 | <4 | <2 | <2 | <2 |
| 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 | <4 | <4 | <4 | <4 | | <4 | <4 | <4 |
| 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 | <1 | <1 | <1 | <1 | <.8 | <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 |
| 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 | <.2 | <.2 | <.2 | <.2 | | <.2 | <.2 | <.2 |
| 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 |
|------------------------------------|------------|
| 1,1,1,2-tetrachloroethane | <1 |
| 1,1,1-trichloroethane | <1 |
| 1,1,2,2-tetrachloroethane | <1 |
| 1,1,2-trichloroethane | <1 |
| 1,1-dichloroethane | <1 |
| 1,1-dichloroethene | <1 |
| 1,2,3-trichloropropane | <1 |
| 1,2-dibromo-3-chloropropane | <5 |
| 1,2-dibromoethane (edb) | <1 |
| 1,2-dichlorobenzene | <1 |
| 1,2-dichloroethane | <1 |
| 1,2-dichloropropane | <1 |
| 1,4-dichlorobenzene | <1 |
| 2-butanone (mek) | <10 |
| 2-hexanone | <5 |
| 4-methyl-2-pentanone (mibk) | <5 |
| Acetone | <10 |
| Acrylonitrile | <5 |
| Ammonia as n | |
| Antimony, total | <2 |
| Arsenic, total | <4 |
| Barium, total | 161 |
| Benzene | <1 |
| Beryllium, total | <4 |
| Bromochloromethane | <1 |
| Bromodichloromethane | <1 |
| Bromoform | <1 |
| Bromomethane | <1 |
| Cadmium, total | <.8 |
| Carbon disulfide | <1 |
| Carbon tetrachloride | <1 |
| Chemical oxygen demand Chloride | |
| Chlorobenzene | <1 |
| Chloroethane | <1 |
| Chloroform | <1 |
| Chloromethane | <1 |
| Chromium, total | <8 |
| Cis-1,2-dichloroethene | <1 |
| Cis-1,3-dichloropropene | <1 |
| Cobalt, total | <.4 |
| Copper, total | <4 |
| Dibromochloromethane | <1 |
| Dibromomethane | <1 |
| Ethylbenzene | <1 |
| Iodomethane | <1 |
| Iron, dissolved | |
| Iron, total | |
| Lead, total | <4 |
| Methylene chloride | <5 |
| Nickel, total | <4.0 |
| pH | |
| Phenol | |
| Selenium, total | <4.0 |
| Silver, total | <4 |
| Specific conductance | |
| Styrene | <1 |
| Tetrachloroethene | <1 |
| Thallium, total | <2 |
| Toluene | <1 |
| Total organic halides | |
| Total suspended solids | |
| Trans-1,2-dichloroethene | <1 |
| Trans-1,3-dichloropropene | <1 |
| Trans-1,4-dichloro-2-butene | <5 |
| Trichloroethene | <1 |
| Trichlorofluoromethane | <1 |
| Vanadium, total | <20.0 |
| Vinyl acetate | <5 |
| Vinyl chloride | <1 |
| Xylenes, total | <2 |
| Zinc, total | <20.0 |

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

Table 9

Analytical Data Summary for 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 | <4 | <4 | <4 | <4 | <4 |
| 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 | <4 | <4 | <4 | <4 | <2 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <2 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Bromochloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromodichloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromoform | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromomethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Cadmium, total | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 |
| Carbon disulfide | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon tetrachloride | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 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 | <4 | <4 | <4 | <4 | <2 | <2 | <2 | <2 |
| Toluene | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total suspended solids | <2 | <2 | 37 | <2 | 44 | 39 | <2 | 1 | <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 |
|------------------------------------|------------|----------|-----------|----------|------------|-----------|------------|
| 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 |
| 1,2,3-trichloropropane | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2-dibromo-3-chloropropane | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-dibromoethane (edb) | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2-dichlorobenzene | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2-dichloroethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2-dichloropropane | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,4-dichlorobenzene | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 2-butanone (mek) | <5 | <10 | <10 | <10 | <10 | <10 | <10 |
| 2-hexanone | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 4-methyl-2-pentanone (mibk) | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Acetone | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Acrylonitrile | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ammonia as n | | | | | | | |
| Antimony, total | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Arsenic, dissolved | | | | | | | |
| Arsenic, total | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Barium, dissolved | | | | | | | |
| Barium, total | 307 | 259 | 288 | 209 | 255 | 198 | 287 |
| Benzene | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Beryllium, total | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Bromochloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromodichloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromoform | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromomethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Cadmium, total | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 |
| Carbon disulfide | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon tetrachloride | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chemical oxygen demand Chloride | | | | | | | |
| Chlorobenzene | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chromium, total | <8 | <8 | <8 | <8 | <8 | <8 | <8 |
| Cis-1,2-dichloroethene | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Cis-1,3-dichloropropene | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Cobalt, total | <.4 | <.4 | <.4 | <.4 | <.4 | <.4 | <.4 |
| Copper, total | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Dibromochloromethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Dibromomethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Iodomethane | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Iron, dissolved | | | | | | | |
| Iron, total | | | | | | | |
| Lead, total | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Methylene chloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Nickel, total | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| pH | | | | | | | |
| 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 |
| Tetrachloroethene | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thallium, total | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Toluene | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total suspended solids | | | | | | | |
| 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, dissolved | | | | | | | |
| Zinc, total | <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 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
2024

| Well # | TOC Elevation | Bottom Elevation | Field Reading 4/18/2024 | Leachate Elev. | Depth of Leachate | | Field Reading 10/15/2024 | Leachate Elev. | Bottom Field Reading | Bottom Elevation | Depth of Leachate (ft) |
|---------|---------------|------------------|-------------------------|----------------|-------------------|--|--------------------------|----------------|----------------------|------------------|------------------------|
| PZ-P-1 | 1362.10 | 1346.40 | 14.40 | 1347.70 | 1.30 | | 14.85 | 1347.25 | 15.65 | 1346.45 | 0.80 |
| PZ-P-2 | 1368.94 | 1349.24 | 17.37 | 1351.57 | 2.33 | | 17.27 | 1351.67 | 19.60 | 1349.34 | 2.33 |
| PZ-P-3 | 1388.64 | 1358.94 | 25.62 | 1363.02 | 4.08 | | 25.65 | 1362.99 | 29.70 | 1358.94 | 4.05 |
| PZ-P-4 | 1394.21 | 1369.01 | 23.92 | 1370.29 | 1.28 | | 23.00 | 1371.21 | 25.20 | 1369.01 | 2.20 |
| PZ-P-5 | 1400.02 | 1372.42 | 22.80 | 1377.22 | 4.80 | | 22.50 | 1377.52 | 27.60 | 1372.42 | 5.10 |
| PZ-P-6 | 1407.15 | 1382.40 | 21.35 | 1385.80 | 3.40 | | 21.43 | 1385.72 | 24.65 | 1382.50 | 3.22 |
| PZ-P-7 | 1396.65 | 1368.35 | 24.90 | 1371.75 | 3.40 | | 26.76 | 1369.89 | 27.95 | 1368.70 | 1.19 |
| PZ-P-8 | 1391.32 | 1363.67 | 25.48 | 1365.84 | 2.17 | | 25.92 | 1365.40 | 26.60 | 1364.72 | 0.68 |
| PZ-P-10 | 1370.94 | 1355.69 | 6.35 | 1364.59 | 8.90 | | 8.65 | 1362.29 | 15.20 | 1355.74 | 6.55 |

Volume of Leachate Transported to POTW - 0 gallons in 2024

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 15.70 | 14.10 1.60 | 13.95 1.75 | 14.25 1.45 | 14.55 1.15 | 14.65 1.05 | 14.61 1.09 | 15.70 0.00 | 14.70 1.00 | 0.50 | 1.00 | 1.08 |
| LPZ 2 19.80 | 17.36 2.44 | 17.15 2.65 | 17.39 2.41 | 17.63 2.17 | 17.17 2.63 | 17.59 2.21 | 19.80 0.00 | 17.80 2.00 | 1.50 | 1.50 | 2.33 | 1.33 |
| LPZ 3 29.75 | 25.50 4.25 | 25.44 4.31 | 25.59 4.16 | 25.75 4.00 | 25.69 4.06 | 25.67 4.08 | 25.66 4.09 | 25.72 4.03 | 2.50 | 2.83 | 3.25 | 2.50 |
| LPZ 4 25.00 | 21.12 3.88 | 21.42 3.58 | 21.43 3.57 | 21.45 3.55 | 22.10 2.90 | 22.90 2.10 | 23.09 1.91 | 23.00 2.00 | 1.50 | 2.50 | 2.67 | 2.00 |
| LPZ 5 27.30 | 21.00 6.30 | 21.20 6.10 | 21.30 6.00 | 21.40 5.90 | 21.22 6.08 | 21.56 5.74 | 21.70 5.60 | 21.35 5.95 | 6.50 | 5.92 | 5.00 | 5.50 |
| LPZ 6 23.80 | 17.86 5.94 | 18.30 5.50 | 18.30 5.50 | 18.30 5.50 | 18.81 4.99 | 19.36 4.44 | 19.58 4.22 | 20.20 3.60 | 19.78 4.02 | 20.04 3.76 | 19.72 4.08 | 19.82 3.98 |
| LPZ 7 27.70 | 22.63 5.07 | 22.90 4.80 | 23.73 3.97 | 24.55 3.15 | 24.35 3.35 | 23.00 4.70 | 27.70 0.00 | 24.00 3.70 | 4.17 | 23.00 4.70 | 6.83 | 4.67 |
| LPZ 8 26.70 | NA NA | 24.35 2.35 | 25.43 1.27 | 26.50 0.20 | 26.55 0.15 | 26.54 0.16 | 26.60 0.10 | 26.70 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LPZ 10 15.25 | 6.25 9.00 | 5.50 9.75 | 6.97 8.28 | 8.43 6.82 | 6.23 9.02 | 8.20 7.05 | 8.32 6.93 | 8.25 7.00 | 8.17 | 5.01 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 | | | | | | | | | | | | |
| 27.65 | 0.00 | 0.00 | 24.28 | 24.20 | 25.53 | 26.40 | 24.90 | 25.02 | 23.36 | 22.43 | 23.58 | 24.65 |
| | | | 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 15.70 | | 13.60 2.10 | 0.58 | 1.42 | 0.83 | 1.08 | 1.42 | 1.50 | 1.17 | 1.58 | 1.75 |
| PZ-P-2 19.70 | | 16.60 3.10 | 1.67 | 2.42 | 1.17 | 2.50 | 2.50 | 3.17 | 2.42 | 3.17 | 3.17 |
| PZ-P-3 29.70 | | 25.60 4.10 | 2.00 | 3.17 | 3.17 | 2.25 | 3.17 | 2.67 | 2.17 | 2.58 | 3.33 |
| PZ-P-4 25.20 | | 12.90 12.30 | 7.83 | 9.92 | 6.42 | 8.03 | 7.83 | 10.33 | 8.75 | 10.67 | 6.50 |
| PZ-P-5 27.60 | | 21.60 6.00 | 6.25 | 6.50 | 6.67 | 5.83 | 6.25 | 7.08 | 6.42 | 6.25 | 5.92 |
| PZ-P-6 24.75 | 18.34 5.46 | 19.00 5.75 | 18.68 6.07 | 18.45 6.30 | 18.40 6.35 | 19.06 5.69 | 19.06 5.69 | 18.83 5.92 | 18.65 6.10 | 18.78 5.97 | 18.70 6.05 |
| PZ-P-7 28.30 | | 20.92 7.38 | 6.50 | 5.33 | Frozen | 4.83 | 8.42 | 8.83 | Frozen | 7.92 | 8.25 |
| PZ-P-8 27.65 | 26.65 0.05 | 21.65 6.00 | 27.65 0.00 | 24.70 2.95 | 25.15 2.50 | 23.42 4.23 | 22.04 5.61 | 21.03 6.62 | 19.70 7.95 | 26.80 0.85 | 23.00 4.65 |
| PZ-P-10 15.25 | | 6.20 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 | | | | | | | | | | | | Std. Dev./ Mean |
|-----------------|-----------|-----------|-----------|----------|------------|----------|-----------|----------|------------|-----------|------------|--------------------|
| | 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 | 10/15/2024 | |
| PZ-P-1 | | | | | 14.45 | 13.20 | 14.40 | 14.88 | 14.82 | 14.40 | 14.85 | 0.46 |
| 15.65 | 1.58 | 2.00 | 1.42 | 1.33 | 1.20 | 2.45 | 1.25 | 0.77 | 0.83 | 1.25 | 0.80 | 1.41 |
| PZ-P-2 | | | | | 17.10 | 16.90 | 17.08 | 17.55 | 17.77 | 17.35 | 17.27 | 0.60 |
| 19.60 | 2.83 | 3.42 | 1.67 | 2.00 | 2.50 | 2.70 | 2.52 | 2.05 | 1.83 | 2.25 | 2.33 | 2.41 |
| PZ-P-3 | | | | | 25.55 | 25.55 | 25.55 | 25.60 | 26.20 | 25.62 | 25.65 | 0.90 |
| 29.70 | 2.83 | 4.00 | 2.08 | 1.75 | 4.15 | 4.15 | 4.15 | 4.10 | 3.50 | 4.08 | 4.05 | 3.74 |
| PZ-P-4 | | | | | 21.50 | 20.80 | 22.25 | 22.70 | 23.00 | 23.92 | 23.00 | 3.08 |
| 25.20 | 9.92 | 5.00 | 6.25 | 6.75 | 3.70 | 4.40 | 2.95 | 2.50 | 2.20 | 1.28 | 2.20 | 4.69 |
| PZ-P-5 | | | | | 21.29 | 21.75 | 21.65 | 21.90 | 21.65 | 22.80 | 22.50 | 1.07 |
| 27.60 | 6.58 | 6.00 | 6.92 | 6.00 | 6.36 | 5.85 | 5.95 | 5.70 | 5.95 | 4.80 | 5.10 | 6.80 |
| PZ-P-6 | 18.90 | | | 19.91 | 20.75 | 19.70 | 21.30 | 21.30 | 21.50 | 21.35 | 21.43 | 1.08 |
| 24.65 | 5.85 | 5.75 | 6.50 | 4.84 | 3.90 | 4.95 | 3.35 | 3.35 | 3.15 | 3.30 | 3.22 | 5.52 |
| PZ-P-7 | | | | | 23.66 | 23.80 | 23.51 | 24.05 | 23.70 | 24.90 | 26.76 | 1.81 |
| 27.95 | 6.08 | 8.25 | 6.75 | 5.25 | 4.29 | 4.15 | 4.44 | 3.90 | 4.25 | 3.05 | 1.19 | 5.70 |
| PZ-P-8 | 21.20 | | | 22.70 | 24.85 | 23.10 | 24.53 | 24.76 | 25.15 | 25.48 | 25.92 | 2.15 |
| 26.60 | 6.45 | 7.33 | 5.25 | 4.95 | 1.75 | 3.50 | 2.07 | 1.84 | 1.45 | 1.12 | 0.68 | 2.36 |
| PZ-P-10 | | | | | 7.05 | 6.20 | 8.90 | 5.55 | 9.10 | 6.35 | 8.65 | 1.14 |
| 15.20 | 8.92 | 9.00 | 6.25 | 5.67 | 8.15 | 9.00 | 6.30 | 9.65 | 6.10 | 8.85 | 6.55 | 7.77 |

Table 13 – Gas Monitoring Summary

Table 13
Annual Methane Gas Evaluation Report
Audubon County Sanitary Landfill
Permit No. 05-SDP-01-75C
2024

| Location/Date | 4/18/24 | 10/15/24 |
|-------------------------------------|---------|----------|
| | % 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**

4/18/2024

Sampled by: Todd Whipple

Weather Conditions: Partly cloudy, breezy, 51 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 | 26.97 |
| 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 | 26.97 |
| Top Screen | 1307.28 |
| Bottom Screen | 1297.28 |
| Bottom Well | 1297.28 |
| Sampler Length (ft) | 4.00 |
| Sampler Volume (mL) | 440.00 |
| Feet cordage | 21.00 |
| Top sample | 1303.25 |
| Bottom sample | 1299.25 |
| Turbidity(NTU) | 2.49 |

| Date | Time | Water Level | Water Elevation | Notes |
|-----------|-------|-------------|-----------------|-------|
| 4/18/2024 | 15:09 | 11.39 | 1312.86 | |

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 | 2.49 |
| Appendix I | Metals | 250 | 250 | 2.49 |
| Appendix I | VOC | 120 | 120 | 2.49 |
| 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 | 26.97 | Before purging | 4/18/2024 | 15:09 | 11.39 | 1312.86 | 3 | 1.2 | no |
| | | After purging | | | | 1324.25 | | | |
| | | Top of Screen January 1990 | | | | 1307.28 | | | |
| | | | | | | 5.58 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1297.28 | | | |
| | | Bottom of Well | 4/18/2024 | | 26.97 | 1297.28 | | | |
| | | | | | | 0.00 | | | feet sedimentation |
| | | Before Sampling | | | | 1324.25 | | | |
| | | Recovery | 4/18/2024 | 15:20 | 13.30 | 1310.95 | | | |
| | | Recovery | 4/18/2024 | 17:58 | 11.42 | 1312.83 | | | |
| | | Recovery | | | | 1324.25 | | | |
| | | Recovery | | | | 1324.25 | | | |

Monitoring Well: MW-90-7 (dg)

Primary Sampling Method: No-Purge for Appendix I
 Secondary Sampling Method: 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) | 2.44 |

| Date | Time | Water Level | Water Elevation | Notes |
|-----------|-------|-------------|-----------------|-------|
| 4/18/2024 | 15:27 | 9.61 | 1290.71 | |

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 | 2.44 |
| Appendix I | Metals | 250 | 250 | 2.44 |
| Appendix I | VOC | 120 | 120 | 2.44 |
| 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 | 1300.32 | 2" dia. | Date | Time | Depth | Elevation | Gallons | # of Vol. | Purged Dry? |
|------------|---------|-----------------------------|-----------|-------|-------|-----------|---------|-----------|--|
| Well Depth | 15.00 | Before purging | 4/18/2024 | 15:27 | 9.61 | 1290.71 | 3 | 3.4 | no |
| | | After purging | | | | 1300.32 | | | |
| | | Top of Screen January 1990 | | | | 1290.32 | | | |
| | | | | | | 0.39 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1285.32 | | | |
| | | Bottom of Well | 4/18/2024 | | 15.03 | 1285.29 | | | |
| | | | | | | -0.03 | | | feet sedimentation |
| | | Before Sampling | | | | 1300.32 | | | |
| | | Recovery | 4/18/2024 | 15:42 | 12.52 | 1287.80 | | | |
| | | Recovery | 4/18/2024 | 18:00 | 9.68 | 1290.64 | | | |
| | | Recovery | | | | 1300.32 | | | |
| | | Recovery | | | | 1300.32 | | | |

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) | 2.98 |

| Date | Time | Water Level | Water Elevation | Notes |
|-----------|-------|-------------|-----------------|-------|
| 4/18/2024 | 16:25 | 9.20 | 1338.31 | |

ANALYTES, CONTAINERS, AND VOLUMES

| Analyte | Required Volume (mL) | Volume Collected No-Purge (mL) | Volume Collected Purge & Sample (mL) | Turbidity this Container (NTU) |
|------------------|----------------------|--------------------------------|--------------------------------------|--------------------------------|
| All | Field NTU | 10 | 10 | 2.98 |
| Appendix I | Metals | 250 | 250 | 2.98 |
| Appendix I | VOC | 120 | 120 | 2.98 |
| 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 | 4/18/2024 | 16:25 | 9.20 | 1338.31 | 3 | 1.8 | no |
| | | After purging | 10/13/2023 | 12:26 | 17.85 | 1329.66 | | | |
| | | Top of Screen January 1990 | | | | 1337.81 | | | |
| | | | | | | 0.50 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1327.81 | | | |
| | | Bottom of Well | 4/18/2024 | | 19.86 | 1327.65 | | | |
| | | | | | | -0.16 | | | feet sedimentation |
| | | Before Sampling | | | | 1347.51 | | | |
| | | Recovery | 4/18/2024 | 16:33 | 10.22 | 1337.29 | | | |
| | | Recovery | 4/18/2024 | 17:53 | 9.21 | 1338.30 | | | |
| | | Recovery | | | | 1347.51 | | | |
| | | Recovery | | | | 1347.51 | | | |

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) | 2.50 |

| Date | Time | Water Level | Water Elevation | Notes |
|-----------|-------|-------------|-----------------|-------|
| 4/18/2024 | 16:58 | 27.00 | 1400.97 | |

ANALYTES, CONTAINERS, AND VOLUMES

| Analyte | Required Volume (mL) | Volume Collected No-Purge (mL) | Volume Collected Purge & Sample (mL) | Turbidity this Container (NTU) |
|------------------|----------------------|--------------------------------|--------------------------------------|--------------------------------|
| All | Field NTU | 10 | 10 | 2.50 |
| Appendix I | Metals | 250 | 250 | 2.50 |
| Appendix I | VOC | 120 | 120 | 2.50 |
| 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 | 4/18/2024 | 16:58 | 27.00 | 1400.97 | 3 | 1.8 | no |
| | | After purging | | | | 1427.97 | | | |
| | | Top of Screen January 1990 | | | | 1400.67 | | | |
| | | | | | | 0.30 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1390.67 | | | |
| | | Bottom of Well | 4/18/2024 | | 37.23 | 1390.74 | | | |
| | | | | | | 0.07 | | | feet sedimentation |
| | | Before Sampling | | | | 1427.97 | | | |
| | | Recovery | 4/18/2024 | 17:08 | 30.70 | 1397.27 | | | |
| | | Recovery | 4/18/2024 | 17:50 | 30.15 | 1397.82 | | | |
| | | Recovery | | | | 1427.97 | | | |
| | | Recovery | | | | 1427.97 | | | |

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 | 20.00 |
| Top sample | 1327.50 |
| Bottom sample | 1323.50 |
| Turbidity(NTU) | 2.11 |

| Date | Time | Water Level | Water Elevation | Notes |
|-----------|-------|-------------|-----------------|-------|
| 4/18/2024 | 16:00 | 13.27 | 1334.23 | |

ANALYTES, CONTAINERS, AND VOLUMES

| Analyte | Required Volume (mL) | Volume Collected No-Purge (mL) | Volume Collected Purge & Sample (mL) | Turbidity this Container (NTU) |
|------------------|----------------------|--------------------------------|--------------------------------------|--------------------------------|
| All | Field NTU | 10 | 10 | 2.11 |
| Appendix I | Metals | 250 | 250 | 2.11 |
| Appendix I | VOC | 120 | 120 | 2.11 |
| 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 | 1347.5 | 2" dia. | Date | Time | Depth | Elevation | Gallons | # of Vol. | Purged Dry? |
|------------|--------|-----------------------------|-----------|-------|-------|-----------|---------|-----------|--|
| Well Depth | 25.00 | Before purging | 4/18/2024 | 16:00 | 13.27 | 1334.23 | 6 | 3.1 | no |
| | | After purging | | | | 1347.50 | | | |
| | | Top of Screen January 1990 | | | | 1337.50 | | | |
| | | | | | | -3.27 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1322.50 | | | |
| | | Bottom of Well | 4/18/2024 | | 25.10 | 1322.40 | | | |
| | | | | | | -0.10 | | | feet sedimentation |
| | | Before Sampling | | | | 1347.50 | | | |
| | | Recovery | 4/18/2024 | 16:15 | 16.40 | 1331.10 | | | |
| | | Recovery | 4/18/2024 | 18:04 | 13.28 | 1334.22 | | | |
| | | 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) | 1.96 |

| Date | Time | Water Level | Water Elevation | Notes |
|-----------|-------|-------------|-----------------|-------|
| 4/18/2024 | 16:29 | 14.06 | 1357.93 | |

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 | 1.96 |
| Appendix I | Metals | 250 | 250 | 1.96 |
| Appendix I | VOC | 120 | 120 | 1.96 |
| 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 | 4/18/2024 | 16:29 | 14.06 | 1357.93 | 3 | 1.0 | no |
| | | After purging | | | | 1371.99 | | | |
| | | Top of Screen January 1990 | | | | 1354.59 | | | |
| | | | | | | 3.34 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1339.59 | | | |
| | | Bottom of Well | 4/18/2024 | | 32.32 | 1339.67 | | | |
| | | | | | | 0.08 | | | feet sedimentation |
| | | Before Sampling | | | | 1371.99 | | | |
| | | Recovery | 4/18/2024 | 16:49 | 17.65 | 1354.34 | | | |
| | | Recovery | 4/18/2024 | 17:55 | 16.55 | 1355.44 | | | |
| | | Recovery | | | | 1371.99 | | | |
| | | Recovery | | | | 1371.99 | | | |

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

10/15/2024

Sampled by: Glenn Hunter

Weather Conditions: Sunny 37-48 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 | 26.97 |
| 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 | 26.97 |
| Top Screen | 1307.28 |
| Bottom Screen | 1297.28 |
| Bottom Well | 1297.28 |
| Sampler Length (ft) | 4.00 |
| Sampler Volume (mL) | 440.00 |
| Feet cordage | 21.00 |
| Top sample | 1303.25 |
| Bottom sample | 1299.25 |
| Turbidity(NTU) | 1.08 |

| Date | Time | Water Level | Water Elevation | Notes |
|------------|-------|-------------|-----------------|-------|
| 10/15/2024 | 10:23 | 10.93 | 1313.32 | |

ANALYTES, CONTAINERS, AND VOLUMES

| Analyte | Required Volume (mL) | Volume Collected No-Purge (mL) | Volume Collected Purge & Sample (mL) | Turbidity this Container (NTU) |
|------------------|----------------------|--------------------------------|--------------------------------------|--------------------------------|
| All | Field NTU | 10 | 10 | 1.08 |
| Appendix I | Metals | 250 | 250 | 1.08 |
| Appendix I | VOC | 120 | 120 | 1.08 |
| 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 | 26.97 | Before purging | 10/15/2024 | 10:23 | 10.93 | 1313.32 | | 0.0 | |
| | | After purging | | | | 1324.25 | | | |
| | | Top of Screen January 1990 | | | | 1307.28 | | | |
| | | | | | | 6.04 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1297.28 | | | |
| | | Bottom of Well | 10/15/2024 | | 26.97 | 1297.28 | | | |
| | | | | | | 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: No-Purge for Appendix I
 Secondary Sampling Method: 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) | 11.10 |

| Date | Time | Water Level | Water Elevation | Notes |
|------------|-------|-------------|-----------------|-------|
| 10/15/2024 | 10:55 | 10.11 | 1290.21 | |

ANALYTES, CONTAINERS, AND VOLUMES

| Analyte | Required Volume (mL) | Volume Collected No-Purge (mL) | Volume Collected Purge & Sample (mL) | Turbidity this Container (NTU) |
|------------------|----------------------|--------------------------------|--------------------------------------|--------------------------------|
| All | Field NTU | 10 | 10 | 11.10 |
| Appendix I | Metals | 250 | 250 | 11.10 |
| Appendix I | VOC | 120 | 120 | 11.10 |
| 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 | 10/15/2024 | 10:55 | 10.11 | 1290.21 | | 0.0 | |
| | | After purging | | | | 1300.32 | | | |
| | | Top of Screen January 1990 | | | | 1290.32 | | | |
| | | | | | | -0.11 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1285.32 | | | |
| | | Bottom of Well | 10/15/2024 | | 15.03 | 1285.29 | | | |
| | | | | | | -0.03 | | | feet sedimentation |
| | | Before Sampling | | | | 1300.32 | | | |
| | | Recovery | | | | 1300.32 | | | |
| | | Recovery | | | | 1300.32 | | | |
| | | Recovery | | | | 1300.32 | | | |
| | | Recovery | | | | 1300.32 | | | |

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) | 1.80 |

| Date | Time | Water Level | Water Elevation | Notes |
|------------|------|-------------|-----------------|-------|
| 10/15/2024 | 9:45 | 11.13 | 1336.38 | |

ANALYTES, CONTAINERS, AND VOLUMES

| Analyte | Required Volume (mL) | Volume Collected No-Purge (mL) | Volume Collected Purge & Sample (mL) | Turbidity this Container (NTU) |
|------------------|----------------------|--------------------------------|--------------------------------------|--------------------------------|
| All | Field NTU | 10 | 10 | 1.80 |
| Appendix I | Metals | 250 | 250 | 1.80 |
| Appendix I | VOC | 120 | 120 | 1.80 |
| 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 | 10/15/2024 | 9:45 | 11.13 | 1336.38 | | 0.0 | |
| | | After purging | 10/13/2023 | 12:26 | 17.85 | 1329.66 | | | |
| | | Top of Screen January 1990 | | | | 1337.81 | | | |
| | | | | | | -1.43 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1327.81 | | | |
| | | Bottom of Well | 10/15/2024 | | 19.86 | 1327.65 | | | |
| | | | | | | -0.16 | | | feet sedimentation |
| | | Before Sampling | | | | 1347.51 | | | |
| | | Recovery | | | | 1347.51 | | | |
| | | Recovery | | | | 1347.51 | | | |
| | | Recovery | | | | 1347.51 | | | |
| | | Recovery | | | | 1347.51 | | | |

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) | 2.21 |

| Date | Time | Water Level | Water Elevation | Notes |
|------------|------|-------------|-----------------|-------|
| 10/15/2024 | 9:14 | 25.30 | 1402.67 | |

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 | 2.21 |
| Appendix I | Metals | 250 | 250 | 2.21 |
| Appendix I | VOC | 120 | 120 | 2.21 |
| 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 | 10/15/2024 | 9:14 | 25.30 | 1402.67 | | 0.0 | |
| | | After purging | | | | 1427.97 | | | |
| | | Top of Screen January 1990 | | | | 1400.67 | | | |
| | | | | | | 2.00 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1390.67 | | | |
| | | Bottom of Well | 10/15/2024 | | 37.23 | 1390.74 | | | |
| | | | | | | 0.07 | | | feet sedimentation |
| | | Before Sampling | | | | 1427.97 | | | |
| | | Recovery | | | | 1427.97 | | | |
| | | Recovery | | | | 1427.97 | | | |
| | | Recovery | | | | 1427.97 | | | |
| | | Recovery | | | | 1427.97 | | | |

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) | 1.34 |

| Date | Time | Water Level | Water Elevation | Notes |
|------------|-------|-------------|-----------------|-------|
| 10/15/2024 | 10:11 | 14.36 | 1333.14 | |

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 | 1.34 |
| Appendix I | Metals | 250 | 250 | 1.34 |
| Appendix I | VOC | 120 | 120 | 1.34 |
| 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 | 10/15/2024 | 10:11 | 14.36 | 1333.14 | | 0.0 | |
| | | After purging | | | | 1347.50 | | | |
| | | Top of Screen January 1990 | | | | 1337.50 | | | |
| | | | | | | -4.36 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1322.50 | | | |
| | | Bottom of Well | 10/15/2024 | | 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) | 0.86 |

| Date | Time | Water Level | Water Elevation | Notes |
|------------|------|-------------|-----------------|-------|
| 10/15/2024 | 9:27 | 12.87 | 1359.12 | |

ANALYTES, CONTAINERS, AND VOLUMES

| Analyte | Required Volume (mL) | Volume Collected No-Purge (mL) | Volume Collected Purge & Sample (mL) | Turbidity this Container (NTU) |
|------------------|----------------------|--------------------------------|--------------------------------------|--------------------------------|
| All | Field NTU | 10 | 10 | 0.86 |
| Appendix I | Metals | 250 | 250 | 0.86 |
| Appendix I | VOC | 120 | 120 | 0.86 |
| 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 | 10/15/2024 | 9:27 | 12.87 | 1359.12 | | 0.0 | |
| | | After purging | | | | 1371.99 | | | |
| | | Top of Screen January 1990 | | | | 1354.59 | | | |
| | | | | | | 4.53 | | | feet above (+) or below (-) top screen |
| | | Bottom of Well January 1990 | | | | 1339.59 | | | |
| | | Bottom of Well | 10/15/2024 | | 32.32 | 1339.67 | | | |
| | | | | | | 0.08 | | | feet sedimentation |
| | | Before Sampling | | | | 1371.99 | | | |
| | | Recovery | | | | 1371.99 | | | |
| | | Recovery | | | | 1371.99 | | | |
| | | Recovery | | | | 1371.99 | | | |
| | | Recovery | | | | 1371.99 | | | |

APPENDIX B

Laboratory Analytical Data



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

Project Description

6050

For:

Todd Whipple

HLW Engineering

PO Box 314

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Monday, May 13, 2024

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

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

Microbac Laboratories, Inc.

600 East 17th Street South | Newton, IA 50208 | 641-792-8451 p | www.microbac.com



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

HLW Engineering

Project Name: 6050

Todd Whipple
PO Box 314
Story City, IA 50248

Project / PO Number: Audubon Co. - New Regs
Received: 04/19/2024
Reported: 05/13/2024

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 | 1HD1864-01 | Aqueous | GRAB | | 04/18/24 16:09 | 04/19/24 11:08 |
| MW-90-7 | 1HD1864-02 | Aqueous | GRAB | | 04/18/24 15:27 | 04/19/24 11:08 |
| MW-90-14 | 1HD1864-03 | Aqueous | GRAB | | 04/18/24 16:25 | 04/19/24 11:08 |
| MW-90-17 | 1HD1864-04 | Aqueous | GRAB | | 04/18/24 16:58 | 04/19/24 11:08 |
| MW-91-19 | 1HD1864-05 | Aqueous | GRAB | | 04/18/24 16:00 | 04/19/24 11:08 |
| MW-91-20 | 1HD1864-06 | Aqueous | GRAB | | 04/18/24 16:39 | 04/19/24 11:08 |
| SW-3 | 1HD1864-07 | Aqueous | GRAB | | 04/18/24 17:20 | 04/19/24 11:08 |
| Duplicate | 1HD1864-08 | Aqueous | GRAB | | 04/18/24 00:00 | 04/19/24 11:08 |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

Analytical Testing Parameters

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-4 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:09 |
| Lab Sample ID: | 1HD1864-01 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-4 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:09 |
| Lab Sample ID: | 1HD1864-01 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Surrogate: Dibromofluoromethane | 93.8 | Limit: 75-136 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Surrogate: Dibromofluoromethane | 93.8 | Limit: 80-126 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 96.4 | Limit: 61-142 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 96.4 | Limit: 63-138 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Surrogate: Toluene-d8 | 97.0 | Limit: 82-121 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Surrogate: Toluene-d8 | 97.0 | Limit: 87-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Surrogate: 4-Bromofluorobenzene | 97.0 | Limit: 80-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |
| Surrogate: 4-Bromofluorobenzene | 97.0 | Limit: 85-111 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1320 | LJS |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|--------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Barium, total | 0.375 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2136 | RVV |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-7 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 15:27 |
| Lab Sample ID: | 1HD1864-02 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Dichlorodifluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Acrolein | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Methyl Iodide | <2.0 | 2.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Acetonitrile | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 2,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 2-Butanone (MEK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,1-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Ethyl Methacrylate | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,3-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |

Microbac Laboratories, Inc., Newton

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-7 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 15:27 |
| Lab Sample ID: | 1HD1864-02 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,3-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,2-Dibromo-3-chloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| 1,2,4-Trichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Allyl chloride | <1.0 | 1.0 | ug/L | 1 | | 04/30/24 0000 | 04/30/24 1245 | LNH |
| Chloroprene | <1.0 | 1.0 | ug/L | 1 | | 04/30/24 0000 | 04/30/24 1245 | LNH |
| Methacrylonitrile | <1.0 | 1.0 | ug/L | 1 | | 04/30/24 0000 | 04/30/24 1245 | LNH |
| Methyl Methacrylate | <1.0 | 1.0 | ug/L | 1 | | 04/30/24 0000 | 04/30/24 1245 | LNH |
| Propionitrile | <10.0 | 10.0 | ug/L | 1 | | 04/30/24 0000 | 04/30/24 1245 | LNH |
| Surrogate: Dibromofluoromethane | 93.6 | Limit: 80-126 | % Rec | 1 | | 04/30/24 0000 | 04/30/24 1245 | LNH |
| Surrogate: Dibromofluoromethane | 92.7 | Limit: 80-126 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 96.9 | Limit: 63-138 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 95.1 | Limit: 63-138 | % Rec | 1 | | 04/30/24 0000 | 04/30/24 1245 | LNH |
| Surrogate: 1,2-Dichloroethane-d4 | 96.9 | Limit: 63-138 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Surrogate: Toluene-d8 | 99.1 | Limit: 87-116 | % Rec | 1 | | 04/30/24 0000 | 04/30/24 1245 | LNH |
| Surrogate: Toluene-d8 | 97.4 | Limit: 87-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Surrogate: Toluene-d8 | 97.4 | Limit: 87-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Surrogate: 4-Bromofluorobenzene | 96.4 | Limit: 85-111 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Surrogate: 4-Bromofluorobenzene | 96.4 | Limit: 85-111 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1343 | LJS |
| Surrogate: 4-Bromofluorobenzene | 101 | Limit: 85-111 | % Rec | 1 | | 04/30/24 0000 | 04/30/24 1245 | LNH |

| Determination of General Solvents | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-----------------------------------|--------|-----|-------|----|------|---------------|---------------|---------|
| EPA 8015C | | | | | | | | |
| Isobutanol | <1.0 | 1.0 | mg/L | 1 | | 04/29/24 1336 | 04/30/24 0036 | PDS |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|----|-------|----|------|---------------|---------------|---------|
| EPA 3520C/EPA 8270C | | | | | | | | |
| N-Nitrosodimethylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Methyl Methanesulfonate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| N-Nitrosodiethylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| N-Nitrosomethylethylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Ethyl Methanesulfonate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Phenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-7 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 15:27 |
| Lab Sample ID: | 1HD1864-02 | | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|----|-------|----|------|---------------|---------------|---------|
| Bis(2-Chloroethyl) Ether | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2-Chlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Benzyl Alcohol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2-Methylphenol (o-Cresol) | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Bis[2-Chloroisopropyl]ether | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| n-Nitroso-di-n-propylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| N-Nitrosopyrrolidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Acetophenone | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| o-Toluidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| (3 & 4)-Methylphenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Hexachloroethane | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Nitrobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| N-Nitrosopiperidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Isophorone | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2-Nitrophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2,4-Dimethylphenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Bis (2-Chloroethoxy) Methane | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2,4-Dichlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Naphthalene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 4-Chloroaniline | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2,6-Dichlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Hexachloropropene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Hexachlorobutadiene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| N-Nitrosodi-n-butylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 1,4-Phenylenediamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 4-Chloro-3-methylphenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2-Methylnaphthalene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Isosafrole | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 1,2,4,5-Tetrachlorobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Hexachlorocyclopentadiene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2,4,6-Trichlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2,4,5-Trichlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Safrole | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2-Chloronaphthalene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2-Nitroaniline | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 1,4-Naphthoquinone | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Dimethylphthalate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 1,3-Dinitrobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 1,2-Dinitrobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2,6-Dinitrotoluene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Acenaphthylene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 3-Nitroaniline | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Acenaphthene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |

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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-7 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 15:27 |
| Lab Sample ID: | 1HD1864-02 | | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|----|-------|----|------|---------------|---------------|---------|
| 2,4-Dinitrophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 4-Nitrophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Dibenzofuran | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2,4-Dinitrotoluene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2,3,4,6-Tetrachlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Pentachlorobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 1-Naphthylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2-Naphthylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Diethyl Phthalate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Fluorene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 4-Chlorophenyl Phenyl Ether | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 4-Nitroaniline | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 5-Nitro-o-toluidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 4,6-Dinitro-2-methylphenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| N-Nitrosodiphenylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Diphenylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Azobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Diallate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 1,3,5-Trinitrobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Phenacetin | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 4-Bromophenyl Phenyl Ether | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 4-Aminobiphenyl | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Pentachlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Pronamide | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Pentachloronitrobenzene (PCNB) | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Phenanthrene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Anthracene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Di-n-butyl Phthalate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Methapyrilene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Fluoranthene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Isodrin | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Chlorobenzilate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Pyrene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| p-(Dimethylamino)azobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 3,3-Dimethylbenzidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Butyl Benzyl Phthalate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Benzo(a)anthracene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Chrysene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Bis(2-Ethylhexyl) Phthalate | 18 | 6 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Kepone | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 3,3'-Dichlorobenzidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 2-Acetylamino fluorene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Di-n-octyl Phthalate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |

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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-7 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 15:27 |
| Lab Sample ID: | 1HD1864-02 | | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|---------------|-------|----|------|---------------|---------------|---------|
| Benzo(b)Fluoranthene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 7,12-Dimethylbenz [a] anthracene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Benzo(k)Fluoranthene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Benzo(a)Pyrene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| 3-Methylcholanthrene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Dibenzo(a,h)anthracene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Indeno(1,2,3-cd)Pyrene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Benzo(g,h,i)perylene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Surrogate: 2-Fluorophenol | 79.1 | Limit: 24-136 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Surrogate: Phenol-d6 | 84.5 | Limit: 15-140 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Surrogate: Nitrobenzene-d5 | 91.7 | Limit: 29-130 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Surrogate: 2-Fluorobiphenyl | 90.1 | Limit: 23-113 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Surrogate: 2,4,6-Tribromophenol | 86.6 | Limit: 15-139 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |
| Surrogate: Terphenyl-dl4 | 112 | Limit: 27-141 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1723 | EPP |

| Determination of Organophosphorus Insecticides | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|---------------|-------|----|------|---------------|---------------|---------|
| EPA 3510C/EPA 8141 | | | | | | | | |
| O,O,O-Triethyl phosphorothioate | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1255 | EPP |
| Thionazin | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1255 | EPP |
| Phorate | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1255 | EPP |
| Dimethoate | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1255 | EPP |
| Disulfoton | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1255 | EPP |
| Methyl Parathion | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1255 | EPP |
| Parathion | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1255 | EPP |
| Famphur | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1255 | EPP |
| Surrogate: 2-Nitro-m-xylene | 70.0 | Limit: 38-122 | % Rec | 1 | | 04/24/24 1056 | 05/02/24 1255 | EPP |

| Determination of Chlorinated Phenoxy Herbicides | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| EPA 8151A | | | | | | | | |
| 2,4-D | <2.0 | 2.0 | ug/L | 1 | | 04/25/24 0846 | 04/30/24 2350 | MSV |
| 2,4,5-TP (Silvex) | <0.5 | 0.5 | ug/L | 1 | | 04/25/24 0846 | 04/30/24 2350 | MSV |
| 2,4,5-T | <0.5 | 0.5 | ug/L | 1 | | 04/25/24 0846 | 04/30/24 2350 | MSV |
| Dinoseb | <0.5 | 0.5 | ug/L | 1 | | 04/25/24 0846 | 04/30/24 2350 | MSV |
| Surrogate: 2,5-Dichlorobenzoic Acid | 99.5 | Limit: 31-116 | % Rec | 1 | | 04/25/24 0846 | 04/30/24 2350 | MSV |

| Determination of Organochlorine Insecticides & Metabolites | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 3520C/EPA 8081 | | | | | | | | |
| Alpha-BHC | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Gamma-BHC [Lindane] | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Beta-BHC | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Heptachlor | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |



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1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-7 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 15:27 |
| Lab Sample ID: | 1HD1864-02 | | |

| Determination of Organochlorine Insecticides & Metabolites | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|---------------|-------|----|------|---------------|---------------|---------|
| Delta-BHC | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Aldrin | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Heptachlor Epoxide | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Endosulfan I | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| 4,4`-DDE | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Dieldrin | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Endrin | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| 4,4`-DDD | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Endosulfan II | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| 4,4`-DDT | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Endrin Aldehyde | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Endosulfan Sulfate | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Methoxychlor | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Chlordane | <0.10 | 0.10 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Toxaphene | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Hexachlorobenzene | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |
| Surrogate: Tetrachloro-m-xylene | 92.9 | Limit: 10-121 | % Rec | 1 | | 04/24/24 1049 | 05/01/24 0944 | EPP |

| Determination of Polychlorinated Biphenyls (PCB) | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|---------------|-------|----|------|---------------|---------------|---------|
| EPA 3510C/EPA 8082 | | | | | | | | |
| Arochlor 1016 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0944 | EPP |
| Arochlor 1221 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0944 | EPP |
| Arochlor 1232 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0944 | EPP |
| Arochlor 1242 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0944 | EPP |
| Arochlor 1248 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0944 | EPP |
| Arochlor 1254 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0944 | EPP |
| Arochlor 1260 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0944 | EPP |
| Surrogate: Tetrachloro-m-xylene | 100 | Limit: 38-121 | % Rec | 1 | | 04/24/24 1053 | 05/01/24 0944 | EPP |
| Surrogate: Decachlorobiphenyl | 98.3 | Limit: 25-119 | % Rec | 1 | | 04/24/24 1053 | 05/01/24 0944 | EPP |

| Determination of Conventional Chemistry Parameters | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|-------|-------|----|------|---------------|---------------|---------|
| EPA 376.2 | | | | | | | | |
| Sulfide, total | <0.15 | 0.15 | mg/L | 1 | | 04/25/24 1055 | 04/25/24 1315 | CHP |
| EPA 9010B | | | | | | | | |
| Cyanide, total | <0.005 | 0.005 | mg/L | 1 | | 04/25/24 1628 | 04/26/24 1444 | CHP |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|--------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Barium, total | 0.248 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |

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1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-7 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 15:27 |
| Lab Sample ID: | 1HD1864-02 | | |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|---------------|---------|-------|----|------|---------------|---------------|---------|
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Cobalt, total | 0.0019 | 0.0004 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Nickel, total | 0.0284 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Tin, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2142 | RVV |
| EPA 7470A | | | | | | | | |
| Mercury, total | <0.00050 | 0.00050 | mg/L | 1 | | 04/30/24 1412 | 05/01/24 1243 | JAR |



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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-14 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:25 |
| Lab Sample ID: | 1HD1864-03 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |

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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-14 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:25 |
| Lab Sample ID: | 1HD1864-03 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Surrogate: Dibromofluoromethane | 92.7 | Limit: 75-136 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Surrogate: Dibromofluoromethane | 92.7 | Limit: 80-126 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 96.9 | Limit: 63-138 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 96.9 | Limit: 61-142 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Surrogate: Toluene-d8 | 97.8 | Limit: 82-121 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Surrogate: Toluene-d8 | 97.8 | Limit: 87-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Surrogate: 4-Bromofluorobenzene | 96.7 | Limit: 85-111 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |
| Surrogate: 4-Bromofluorobenzene | 96.7 | Limit: 80-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1405 | LJS |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|---------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Barium, total | 0.263 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Nickel, total | 0.0131 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2148 | RVV |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-17 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:58 |
| Lab Sample ID: | 1HD1864-04 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |

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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-17 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:58 |
| Lab Sample ID: | 1HD1864-04 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Surrogate: Dibromofluoromethane | 93.3 | Limit: 75-136 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Surrogate: Dibromofluoromethane | 93.3 | Limit: 80-126 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 97.4 | Limit: 63-138 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 97.4 | Limit: 61-142 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Surrogate: Toluene-d8 | 97.7 | Limit: 82-121 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Surrogate: Toluene-d8 | 97.7 | Limit: 87-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Surrogate: 4-Bromofluorobenzene | 96.5 | Limit: 85-111 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |
| Surrogate: 4-Bromofluorobenzene | 96.5 | Limit: 80-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1428 | LJS |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|--------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Barium, total | 0.310 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2154 | RVV |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-91-19 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:00 |
| Lab Sample ID: | 1HD1864-05 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Dichlorodifluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Acrolein | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Methyl Iodide | <2.0 | 2.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Acetonitrile | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 2,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 2-Butanone (MEK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,1-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Ethyl Methacrylate | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,3-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |

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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-91-19 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:00 |
| Lab Sample ID: | 1HD1864-05 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,3-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,2-Dibromo-3-chloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| 1,2,4-Trichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Allyl chloride | <1.0 | 1.0 | ug/L | 1 | | 04/30/24 0000 | 04/30/24 1308 | LJS |
| Chloroprene | <1.0 | 1.0 | ug/L | 1 | | 04/30/24 0000 | 04/30/24 1308 | LJS |
| Methacrylonitrile | <1.0 | 1.0 | ug/L | 1 | | 04/30/24 0000 | 04/30/24 1308 | LJS |
| Methyl Methacrylate | <1.0 | 1.0 | ug/L | 1 | | 04/30/24 0000 | 04/30/24 1308 | LJS |
| Propionitrile | <10.0 | 10.0 | ug/L | 1 | | 04/30/24 0000 | 04/30/24 1308 | LJS |
| Surrogate: Dibromofluoromethane | 94.5 | Limit: 80-126 | % Rec | 1 | | 04/30/24 0000 | 04/30/24 1308 | LJS |
| Surrogate: Dibromofluoromethane | 93.2 | Limit: 80-126 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 98.4 | Limit: 63-138 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 98.4 | Limit: 63-138 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 94.2 | Limit: 63-138 | % Rec | 1 | | 04/30/24 0000 | 04/30/24 1308 | LJS |
| Surrogate: Toluene-d8 | 98.8 | Limit: 87-116 | % Rec | 1 | | 04/30/24 0000 | 04/30/24 1308 | LJS |
| Surrogate: Toluene-d8 | 98.1 | Limit: 87-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Surrogate: Toluene-d8 | 98.1 | Limit: 87-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Surrogate: 4-Bromofluorobenzene | 96.6 | Limit: 85-111 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |
| Surrogate: 4-Bromofluorobenzene | 100 | Limit: 85-111 | % Rec | 1 | | 04/30/24 0000 | 04/30/24 1308 | LJS |
| Surrogate: 4-Bromofluorobenzene | 96.6 | Limit: 85-111 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1451 | LJS |

| Determination of General Solvents | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-----------------------------------|--------|-----|-------|----|------|---------------|---------------|---------|
| EPA 8015C | | | | | | | | |
| Isobutanol | <1.0 | 1.0 | mg/L | 1 | | 04/29/24 1336 | 04/30/24 0107 | PDS |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|----|-------|----|------|---------------|---------------|---------|
| EPA 3520C/EPA 8270C | | | | | | | | |
| N-Nitrosodimethylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Methyl Methanesulfonate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| N-Nitrosodiethylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| N-Nitrosomethylethylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Ethyl Methanesulfonate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Phenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |



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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-91-19 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:00 |
| Lab Sample ID: | 1HD1864-05 | | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|----|-------|----|------|---------------|---------------|---------|
| Bis(2-Chloroethyl) Ether | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2-Chlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Benzyl Alcohol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2-Methylphenol (o-Cresol) | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Bis[2-Chloroisopropyl]ether | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| n-Nitroso-di-n-propylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| N-Nitrosopyrrolidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Acetophenone | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| o-Toluidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| (3 & 4)-Methylphenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Hexachloroethane | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Nitrobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| N-Nitrosopiperidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Isophorone | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2-Nitrophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2,4-Dimethylphenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Bis (2-Chloroethoxy) Methane | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2,4-Dichlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Naphthalene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 4-Chloroaniline | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2,6-Dichlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Hexachloropropene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Hexachlorobutadiene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| N-Nitrosodi-n-butylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 1,4-Phenylenediamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 4-Chloro-3-methylphenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2-Methylnaphthalene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Isosafrole | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 1,2,4,5-Tetrachlorobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Hexachlorocyclopentadiene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2,4,6-Trichlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2,4,5-Trichlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Safrole | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2-Chloronaphthalene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2-Nitroaniline | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 1,4-Naphthoquinone | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Dimethylphthalate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 1,3-Dinitrobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 1,2-Dinitrobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2,6-Dinitrotoluene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Acenaphthylene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 3-Nitroaniline | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Acenaphthene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |

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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-91-19 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:00 |
| Lab Sample ID: | 1HD1864-05 | | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|----|-------|----|------|---------------|---------------|---------|
| 2,4-Dinitrophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 4-Nitrophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Dibenzofuran | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2,4-Dinitrotoluene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2,3,4,6-Tetrachlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Pentachlorobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 1-Naphthylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2-Naphthylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Diethyl Phthalate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Fluorene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 4-Chlorophenyl Phenyl Ether | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 4-Nitroaniline | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 5-Nitro-o-toluidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 4,6-Dinitro-2-methylphenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| N-Nitrosodiphenylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Diphenylamine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Azobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Diallate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 1,3,5-Trinitrobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Phenacetin | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 4-Bromophenyl Phenyl Ether | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 4-Aminobiphenyl | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Pentachlorophenol | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Pronamide | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Pentachloronitrobenzene (PCNB) | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Phenanthrene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Anthracene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Di-n-butyl Phthalate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Methapyrilene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Fluoranthene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Isodrin | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Chlorobenzilate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Pyrene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| p-(Dimethylamino)azobenzene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 3,3-Dimethylbenzidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Butyl Benzyl Phthalate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Benzo(a)anthracene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Chrysene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Bis(2-Ethylhexyl) Phthalate | 13 | 6 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Kepone | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 3,3'-Dichlorobenzidine | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 2-Acetylamino fluorene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Di-n-octyl Phthalate | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |

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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-91-19 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:00 |
| Lab Sample ID: | 1HD1864-05 | | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|---------------|-------|----|------|---------------|---------------|---------|
| Benzo(b)Fluoranthene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 7,12-Dimethylbenz [a] anthracene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Benzo(k)Fluoranthene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Benzo(a)Pyrene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| 3-Methylcholanthrene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Dibenzo(a,h)anthracene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Indeno(1,2,3-cd)Pyrene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Benzo(g,h,i)perylene | <8 | 8 | ug/L | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Surrogate: 2-Fluorophenol | 85.6 | Limit: 24-136 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Surrogate: Phenol-d6 | 88.7 | Limit: 15-140 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Surrogate: Nitrobenzene-d5 | 96.8 | Limit: 29-130 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Surrogate: 2-Fluorobiphenyl | 92.5 | Limit: 23-113 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Surrogate: 2,4,6-Tribromophenol | 90.8 | Limit: 15-139 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |
| Surrogate: Terphenyl-dl4 | 104 | Limit: 27-141 | % Rec | 1 | | 04/25/24 1028 | 05/07/24 1748 | EPP |

| Determination of Organophosphorus Insecticides | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|---------------|-------|----|------|---------------|---------------|---------|
| EPA 3510C/EPA 8141 | | | | | | | | |
| O,O,O-Triethyl phosphorothioate | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1353 | EPP |
| Thionazin | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1353 | EPP |
| Phorate | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1353 | EPP |
| Dimethoate | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1353 | EPP |
| Disulfoton | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1353 | EPP |
| Methyl Parathion | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1353 | EPP |
| Parathion | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1353 | EPP |
| Famphur | <0.4 | 0.4 | ug/L | 1 | | 04/24/24 1056 | 05/02/24 1353 | EPP |
| Surrogate: 2-Nitro-m-xylene | 78.8 | Limit: 38-122 | % Rec | 1 | | 04/24/24 1056 | 05/02/24 1353 | EPP |

| Determination of Chlorinated Phenoxy Herbicides | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| EPA 8151A | | | | | | | | |
| 2,4-D | <2.0 | 2.0 | ug/L | 1 | | 04/25/24 0846 | 05/01/24 0023 | MSV |
| 2,4,5-TP (Silvex) | <0.5 | 0.5 | ug/L | 1 | | 04/25/24 0846 | 05/01/24 0023 | MSV |
| 2,4,5-T | <0.5 | 0.5 | ug/L | 1 | | 04/25/24 0846 | 05/01/24 0023 | MSV |
| Dinoseb | <0.5 | 0.5 | ug/L | 1 | | 04/25/24 0846 | 05/01/24 0023 | MSV |
| Surrogate: 2,5-Dichlorobenzoic Acid | 104 | Limit: 31-116 | % Rec | 1 | | 04/25/24 0846 | 05/01/24 0023 | MSV |

| Determination of Organochlorine Insecticides & Metabolites | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 3520C/EPA 8081 | | | | | | | | |
| Alpha-BHC | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Gamma-BHC [Lindane] | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Beta-BHC | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Heptachlor | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-91-19 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:00 |
| Lab Sample ID: | 1HD1864-05 | | |

| Determination of Organochlorine Insecticides & Metabolites | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|---------------|-------|----|------|---------------|---------------|---------|
| Delta-BHC | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Aldrin | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Heptachlor Epoxide | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Endosulfan I | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| 4,4`-DDE | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Dieldrin | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Endrin | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| 4,4`-DDD | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Endosulfan II | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| 4,4`-DDT | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Endrin Aldehyde | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Endosulfan Sulfate | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Methoxychlor | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Chlordane | <0.10 | 0.10 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Toxaphene | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Hexachlorobenzene | <0.05 | 0.05 | ug/L | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |
| Surrogate: Tetrachloro-m-xylene | 89.7 | Limit: 10-121 | % Rec | 1 | | 04/24/24 1049 | 05/01/24 0959 | EPP |

| Determination of Polychlorinated Biphenyls (PCB) | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|---------------|-------|----|------|---------------|---------------|---------|
| EPA 3510C/EPA 8082 | | | | | | | | |
| Arochlor 1016 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0959 | EPP |
| Arochlor 1221 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0959 | EPP |
| Arochlor 1232 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0959 | EPP |
| Arochlor 1242 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0959 | EPP |
| Arochlor 1248 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0959 | EPP |
| Arochlor 1254 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0959 | EPP |
| Arochlor 1260 | <0.20 | 0.20 | ug/L | 1 | | 04/24/24 1053 | 05/01/24 0959 | EPP |
| Surrogate: Tetrachloro-m-xylene | 96.8 | Limit: 38-121 | % Rec | 1 | | 04/24/24 1053 | 05/01/24 0959 | EPP |
| Surrogate: Decachlorobiphenyl | 97.3 | Limit: 25-119 | % Rec | 1 | | 04/24/24 1053 | 05/01/24 0959 | EPP |

| Determination of Conventional Chemistry Parameters | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|--|--------|-------|-------|----|------|---------------|---------------|---------|
| EPA 376.2 | | | | | | | | |
| Sulfide, total | <0.15 | 0.15 | mg/L | 1 | | 04/25/24 1055 | 04/25/24 1315 | CHP |
| EPA 9010B | | | | | | | | |
| Cyanide, total | <0.005 | 0.005 | mg/L | 1 | | 04/25/24 1628 | 04/26/24 1444 | CHP |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|---------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Barium, total | 0.303 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-91-19 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:00 |
| Lab Sample ID: | 1HD1864-05 | | |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|----------|---------|-------|----|------|---------------|---------------|---------|
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Tin, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/30/24 1250 | RVV |
| EPA 7470A | | | | | | | | |
| Mercury, total | <0.00050 | 0.00050 | mg/L | 1 | | 04/30/24 1412 | 05/01/24 1246 | JAR |



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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-91-20 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:39 |
| Lab Sample ID: | 1HD1864-06 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |

Microbac Laboratories, Inc., Newton

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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-91-20 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 16:39 |
| Lab Sample ID: | 1HD1864-06 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Surrogate: Dibromofluoromethane | 93.9 | Limit: 75-136 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Surrogate: Dibromofluoromethane | 93.9 | Limit: 80-126 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 97.8 | Limit: 61-142 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 97.8 | Limit: 63-138 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Surrogate: Toluene-d8 | 97.7 | Limit: 82-121 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Surrogate: Toluene-d8 | 97.7 | Limit: 87-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Surrogate: 4-Bromofluorobenzene | 97.0 | Limit: 80-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |
| Surrogate: 4-Bromofluorobenzene | 97.0 | Limit: 85-111 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1514 | LJS |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|--------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Barium, total | 0.202 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2206 | RVV |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | SW-3 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 17:20 |
| Lab Sample ID: | 1HD1864-07 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |

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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | SW-3 | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 17:20 |
| Lab Sample ID: | 1HD1864-07 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Surrogate: Dibromofluoromethane | 94.0 | Limit: 80-126 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Surrogate: Dibromofluoromethane | 94.0 | Limit: 75-136 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 98.2 | Limit: 63-138 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 98.2 | Limit: 61-142 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Surrogate: Toluene-d8 | 98.0 | Limit: 87-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Surrogate: Toluene-d8 | 98.0 | Limit: 82-121 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Surrogate: 4-Bromofluorobenzene | 96.4 | Limit: 85-111 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |
| Surrogate: 4-Bromofluorobenzene | 96.4 | Limit: 80-116 | % Rec | 1 | | 04/25/24 0000 | 04/25/24 1537 | LJS |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|--------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Barium, total | 0.198 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2213 | RVV |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|--------------------------|------------|-------------------------|---------------|
| Client Sample ID: | Duplicate | Collected By: | Whipple, Todd |
| Sample Matrix: | Aqueous | Collection Date: | 04/18/2024 |
| Lab Sample ID: | 1HD1864-08 | | |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|--------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Barium, total | 0.359 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/26/24 1559 | 04/29/24 2231 | RVV |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

Batch Log Summary

| Method | Batch | Laboratory ID | Client / Source ID |
|-----------|---------|---------------|--------------------|
| EPA 8081 | 1HD1434 | 1HD1434-BLK1 | |
| | | 1HD1434-BS1 | |
| | | 1HD1434-BSD1 | |
| | | 1HD1864-02 | MW-90-7 |
| | | 1HD1864-05 | MW-91-19 |
| Method | Batch | Laboratory ID | Client / Source ID |
| EPA 8082 | 1HD1436 | 1HD1436-BLK1 | |
| | | 1HD1436-BS1 | |
| | | 1HD1436-BSD1 | |
| | | 1HD1864-02 | MW-90-7 |
| | | 1HD1864-05 | MW-91-19 |
| Method | Batch | Laboratory ID | Client / Source ID |
| EPA 8141 | 1HD1439 | 1HD1439-BLK1 | |
| | | 1HD1439-BS1 | |
| | | 1HD1439-BSD1 | |
| | | 1HD1864-02 | MW-90-7 |
| | | 1HD1864-05 | MW-91-19 |
| Method | Batch | Laboratory ID | Client / Source ID |
| EPA 8270C | 1HD1525 | 1HD1525-BLK1 | |
| | | 1HD1525-BS1 | |
| | | 1HD1525-BSD1 | |
| | | 1HD1864-02 | MW-90-7 |
| | | 1HD1864-05 | MW-91-19 |
| Method | Batch | Laboratory ID | Client / Source ID |
| EPA 376.2 | 1HD1529 | 1HD1529-MSD1 | 1HD1864-02 |
| | | 1HD1529-BLK1 | |
| | | 1HD1864-02 | MW-90-7 |
| | | 1HD1529-MS1 | 1HD1864-02 |
| | | 1HD1529-BS1 | |
| | | 1HD1864-05 | MW-91-19 |
| Method | Batch | Laboratory ID | Client / Source ID |
| EPA 9010B | 1HD1564 | 1HD1864-02 | MW-90-7 |
| | | 1HD1564-MSD1 | 1HD1596-02 |
| | | 1HD1564-MS1 | 1HD1596-02 |
| | | 1HD1564-BS1 | |
| | | 1HD1564-BLK1 | |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

EPA 9010B 1HD1564 1HD1864-05 MW-91-19

Method Batch Laboratory ID Client / Source ID

EPA 8260B 1HD1572 1HD1572-BS1
1HD1572-BSD1
1HD1572-BLK1
1HD1864-01 MW-90-4
1HD1864-02 MW-90-7
1HD1864-03 MW-90-14
1HD1864-04 MW-90-17
1HD1864-05 MW-91-19
1HD1864-06 MW-91-20
1HD1864-07 SW-3
1HD1572-MS1 1HD1698-01
1HD1572-MSD1 1HD1698-01

Method Batch Laboratory ID Client / Source ID

EPA 8151A 1HD1578 1HD1578-BLK1
1HD1578-BS1
1HD1578-BSD1
1HD1864-02 MW-90-7
1HD1864-05 MW-91-19

Method Batch Laboratory ID Client / Source ID

EPA 6020A 1HD1622 1HD1622-BLK1
1HD1622-BS1
1HD1622-MS1 1HD1719-02
1HD1622-MSD1 1HD1719-02
1HD1622-PS1 1HD1719-02
1HD1864-01 MW-90-4
1HD1864-02 MW-90-7
1HD1864-03 MW-90-14
1HD1864-04 MW-90-17
1HD1864-06 MW-91-20
1HD1864-07 SW-3
1HD1864-08 Duplicate
1HD1864-05 MW-91-19

Method Batch Laboratory ID Client / Source ID

EPA 8015C 1HD1672 1HD1672-BS1
1HD1672-BLK1
1HD1864-02 MW-90-7
1HD1864-05 MW-91-19
1HD1672-MS1 1HD1461-02



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CERTIFICATE OF ANALYSIS

1HD1864

| | | | |
|-----------|---------|--------------|------------|
| EPA 8015C | 1HD1672 | 1HD1672-MSD1 | 1HD1461-02 |
| | | 1HD1672-MRL1 | |
| | | 1HD1672-MRL2 | |

| Method | Batch | Laboratory ID | Client / Source ID |
|-----------|---------|---------------|--------------------|
| EPA 7470A | 1HD1756 | 1HD1756-BLK1 | |
| | | 1HD1756-BS1 | |
| | | 1HD1756-MS1 | 1HD0316-01 |
| | | 1HD1756-MSD1 | 1HD0316-01 |
| | | 1HD1864-02 | MW-90-7 |
| | | 1HD1864-05 | MW-91-19 |

| Method | Batch | Laboratory ID | Client / Source ID |
|-----------|---------|---------------|--------------------|
| EPA 8260B | 1HE0002 | 1HE0002-BS1 | |
| | | 1HE0002-BSD1 | |
| | | 1HE0002-BLK1 | |
| | | 1HD1864-02 | MW-90-7 |
| | | 1HD1864-05 | MW-91-19 |

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 1HD1572 - EPA 5030B - EPA 8260B

Blank (1HD1572-BLK1)

Prepared: 04/25/24 00:00 Analyzed: 04/25/24 10:53

| | | | | | | | | | | |
|-------------------------|-------|------|------|--|--|--|--|--|--|--|
| Dichlorodifluoromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | | | | | | | |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromomethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromomethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Acrolein | <10.0 | 10.0 | ug/L | | | | | | | |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| Acetone | <10.0 | 10.0 | ug/L | | | | | | | |
| Acetone | <10.0 | 10.0 | ug/L | | | | | | | |
| Methyl Iodide | <2.0 | 2.0 | ug/L | | | | | | | |
| Methyl Iodide | <1.0 | 1.0 | ug/L | | | | | | | |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | | | | | | | |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | | | | | | | |
| Acetonitrile | <10.0 | 10.0 | ug/L | | | | | | | |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Blank (1HD1572-BLK1) | | | | | | | | | | |
| Prepared: 04/25/24 00:00 Analyzed: 04/25/24 10:53 | | | | | | | | | | |
| Methylene Chloride | <5.0 | 5.0 | ug/L | | | | | | | |
| Methylene Chloride | <5.0 | 5.0 | ug/L | | | | | | | |
| Acrylonitrile | <5.0 | 5.0 | ug/L | | | | | | | |
| Acrylonitrile | <5.0 | 5.0 | ug/L | | | | | | | |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | | | | | | | |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | | | | | | | |
| 2,2-Dichloropropane | <1.0 | 1.0 | ug/L | | | | | | | |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| 2-Butanone (MEK) | <5.0 | 5.0 | ug/L | | | | | | | |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | | | | | | | |
| Bromochloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromochloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloroform | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloroform | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloropropene | <1.0 | 1.0 | ug/L | | | | | | | |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | | | | | | | |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | | | | | | | |
| Benzene | <1.0 | 1.0 | ug/L | | | | | | | |
| Benzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Trichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| Trichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | | | | | | | |
| Dibromomethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Dibromomethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | | | | | | | |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | | | | | | | |
| Toluene | <1.0 | 1.0 | ug/L | | | | | | | |
| Toluene | <1.0 | 1.0 | ug/L | | | | | | | |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | | | | | | | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Blank (1HD1572-BLK1) | | | | | | | | | | |
| Prepared: 04/25/24 00:00 Analyzed: 04/25/24 10:53 | | | | | | | | | | |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | | | | | | | |
| Ethyl Methacrylate | <10.0 | 10.0 | ug/L | | | | | | | |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,3-Dichloropropane | <1.0 | 1.0 | ug/L | | | | | | | |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | | | | | | | |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | | | | | | | |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| Chlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Ethylbenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| Ethylbenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| Xylenes, total | <2.0 | 2.0 | ug/L | | | | | | | |
| Xylenes, total | <2.0 | 2.0 | ug/L | | | | | | | |
| Styrene | <1.0 | 1.0 | ug/L | | | | | | | |
| Styrene | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromoform | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromoform | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,3-Dichlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | | | | | | | |
| 1,2,4-Trichlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |

| | | | | | |
|----------------------------------|------|------|------|------|--------|
| Surrogate: Dibromofluoromethane | 45.9 | ug/L | 50.2 | 91.4 | 80-126 |
| Surrogate: Dibromofluoromethane | 45.9 | ug/L | 50.2 | 91.4 | 80-126 |
| Surrogate: Dibromofluoromethane | 45.9 | ug/L | 50.2 | 91.4 | 75-136 |
| Surrogate: 1,2-Dichloroethane-d4 | 47.5 | ug/L | 50.1 | 94.9 | 63-138 |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Blank (1HD1572-BLK1) | | | | | | | | | | |
| Prepared: 04/25/24 00:00 Analyzed: 04/25/24 10:53 | | | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 47.5 | | ug/L | 50.1 | | 94.9 | 63-138 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 47.5 | | ug/L | 50.1 | | 94.9 | 63-138 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 47.5 | | ug/L | 50.1 | | 94.9 | 61-142 | | | |
| Surrogate: Toluene-d8 | 49.0 | | ug/L | 50.4 | | 97.2 | 87-116 | | | |
| Surrogate: Toluene-d8 | 49.0 | | ug/L | 50.4 | | 97.2 | 87-116 | | | |
| Surrogate: Toluene-d8 | 49.0 | | ug/L | 50.4 | | 97.2 | 87-116 | | | |
| Surrogate: Toluene-d8 | 49.0 | | ug/L | 50.4 | | 97.2 | 82-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 48.4 | | ug/L | 50.1 | | 96.6 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 48.4 | | ug/L | 50.1 | | 96.6 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 48.4 | | ug/L | 50.1 | | 96.6 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 48.4 | | ug/L | 50.1 | | 96.6 | 80-116 | | | |
| LCS (1HD1572-BS1) | | | | | | | | | | |
| Prepared: 04/25/24 00:00 Analyzed: 04/25/24 09:45 | | | | | | | | | | |
| Dichlorodifluoromethane | 35.03 | 1.0 | ug/L | 31.6 | | 111 | 44-139 | | | |
| Chloromethane | 31.87 | 1.0 | ug/L | 30.6 | | 104 | 56-152 | | | |
| Chloromethane | 31.87 | 1.0 | ug/L | 30.6 | | 104 | 63-155 | | | |
| Vinyl Chloride | 31.27 | 1.0 | ug/L | 30.2 | | 103 | 62-151 | | | |
| Vinyl Chloride | 31.27 | 1.0 | ug/L | 30.2 | | 103 | 70-154 | | | |
| Bromomethane | 27.29 | 1.0 | ug/L | 28.8 | | 94.8 | 61-162 | | | |
| Bromomethane | 27.29 | 1.0 | ug/L | 28.8 | | 94.8 | 52-176 | | | |
| Chloroethane | 34.72 | 1.0 | ug/L | 31.6 | | 110 | 69-138 | | | |
| Chloroethane | 34.72 | 1.0 | ug/L | 31.6 | | 110 | 72-148 | | | |
| Trichlorofluoromethane | 31.60 | 1.0 | ug/L | 32.6 | | 96.9 | 70-143 | | | |
| Trichlorofluoromethane | 31.60 | 1.0 | ug/L | 32.6 | | 96.9 | 70-152 | | | |
| Acrolein | 82.45 | 10.0 | ug/L | 100 | | 82.2 | 27-144 | | | |
| 1,1-Dichloroethylene | 46.16 | 1.0 | ug/L | 50.0 | | 92.3 | 76-140 | | | |
| 1,1-Dichloroethylene | 46.16 | 1.0 | ug/L | 50.0 | | 92.3 | 70-148 | | | |
| Acetone | 77.88 | 10.0 | ug/L | 101 | | 77.0 | 51-156 | | | |
| Acetone | 77.88 | 10.0 | ug/L | 101 | | 77.0 | 43-172 | | | |
| Methyl Iodide | 90.24 | 2.0 | ug/L | 102 | | 88.6 | 81-166 | | | |
| Methyl Iodide | 90.24 | 1.0 | ug/L | 102 | | 88.6 | 69-170 | | | |
| Carbon Disulfide | 103.5 | 1.0 | ug/L | 103 | | 101 | 76-147 | | | |
| Carbon Disulfide | 103.5 | 1.0 | ug/L | 103 | | 101 | 72-162 | | | |
| Acetonitrile | 80.18 | 10.0 | ug/L | 103 | | 78.1 | 46-156 | | | |
| Methylene Chloride | 45.98 | 5.0 | ug/L | 50.0 | | 92.0 | 67-139 | | | |
| Methylene Chloride | 45.98 | 5.0 | ug/L | 50.0 | | 92.0 | 68-142 | | | |
| Acrylonitrile | 89.09 | 5.0 | ug/L | 100 | | 88.8 | 67-144 | | | |
| Acrylonitrile | 89.09 | 5.0 | ug/L | 100 | | 88.8 | 67-144 | | | |
| trans-1,2-Dichloroethylene | 47.10 | 1.0 | ug/L | 50.0 | | 94.2 | 72-135 | | | |
| trans-1,2-Dichloroethylene | 47.10 | 1.0 | ug/L | 50.0 | | 94.2 | 66-148 | | | |
| 1,1-Dichloroethane | 46.09 | 1.0 | ug/L | 50.0 | | 92.2 | 72-129 | | | |
| 1,1-Dichloroethane | 46.09 | 1.0 | ug/L | 50.0 | | 92.2 | 66-143 | | | |
| Vinyl Acetate | 103.5 | 5.0 | ug/L | 100 | | 103 | 24-144 | | | |
| Vinyl Acetate | 103.5 | 5.0 | ug/L | 100 | | 103 | 43-153 | | | |



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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|------|-------|---|---------------|------|-------------|-----|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| LCS (1HD1572-BS1) | | | | | | | | | | |
| | | | | Prepared: 04/25/24 00:00 Analyzed: 04/25/24 09:45 | | | | | | |
| 2,2-Dichloropropane | 43.78 | 1.0 | ug/L | 50.0 | | 87.6 | 64-131 | | | |
| cis-1,2-Dichloroethylene | 44.41 | 1.0 | ug/L | 50.0 | | 88.8 | 81-137 | | | |
| cis-1,2-Dichloroethylene | 44.41 | 1.0 | ug/L | 50.0 | | 88.8 | 71-149 | | | |
| 2-Butanone (MEK) | 98.28 | 5.0 | ug/L | 102 | | 96.5 | 47-149 | | | |
| 2-Butanone (MEK) | 98.28 | 10.0 | ug/L | 102 | | 96.5 | 52-159 | | | |
| Bromochloromethane | 46.58 | 1.0 | ug/L | 50.0 | | 93.2 | 75-138 | | | |
| Bromochloromethane | 46.58 | 1.0 | ug/L | 50.0 | | 93.2 | 69-143 | | | |
| Chloroform | 44.67 | 1.0 | ug/L | 50.0 | | 89.3 | 78-131 | | | |
| Chloroform | 44.67 | 1.0 | ug/L | 50.0 | | 89.3 | 69-144 | | | |
| 1,1,1-Trichloroethane | 43.41 | 1.0 | ug/L | 50.0 | | 86.8 | 67-121 | | | |
| 1,1,1-Trichloroethane | 43.41 | 1.0 | ug/L | 50.0 | | 86.8 | 62-129 | | | |
| 1,1-Dichloropropene | 44.04 | 1.0 | ug/L | 50.0 | | 88.1 | 80-131 | | | |
| Carbon Tetrachloride | 46.00 | 1.0 | ug/L | 50.0 | | 92.0 | 71-131 | | | |
| Carbon Tetrachloride | 46.00 | 1.0 | ug/L | 50.0 | | 92.0 | 63-141 | | | |
| Benzene | 48.21 | 1.0 | ug/L | 50.0 | | 96.4 | 77-130 | | | |
| Benzene | 48.21 | 1.0 | ug/L | 50.0 | | 96.4 | 71-134 | | | |
| 1,2-Dichloroethane | 46.27 | 1.0 | ug/L | 50.0 | | 92.5 | 76-126 | | | |
| 1,2-Dichloroethane | 46.27 | 1.0 | ug/L | 50.0 | | 92.5 | 72-132 | | | |
| Trichloroethylene | 47.24 | 1.0 | ug/L | 50.0 | | 94.5 | 80-124 | | | |
| Trichloroethylene | 47.24 | 1.0 | ug/L | 50.0 | | 94.5 | 71-135 | | | |
| 1,2-Dichloropropane | 48.29 | 1.0 | ug/L | 50.0 | | 96.6 | 81-125 | | | |
| 1,2-Dichloropropane | 48.29 | 1.0 | ug/L | 50.0 | | 96.6 | 69-136 | | | |
| Dibromomethane | 48.39 | 1.0 | ug/L | 50.0 | | 96.8 | 84-134 | | | |
| Dibromomethane | 48.39 | 1.0 | ug/L | 50.0 | | 96.8 | 73-147 | | | |
| Bromodichloromethane | 46.91 | 1.0 | ug/L | 50.0 | | 93.8 | 78-121 | | | |
| Bromodichloromethane | 46.91 | 1.0 | ug/L | 50.0 | | 93.8 | 68-129 | | | |
| cis-1,3-Dichloropropene | 46.00 | 1.0 | ug/L | 50.0 | | 92.0 | 78-120 | | | |
| cis-1,3-Dichloropropene | 46.00 | 1.0 | ug/L | 50.0 | | 92.0 | 65-134 | | | |
| 4-Methyl-2-pentanone (MIBK) | 99.66 | 5.0 | ug/L | 100 | | 99.6 | 67-143 | | | |
| 4-Methyl-2-pentanone (MIBK) | 99.66 | 5.0 | ug/L | 100 | | 99.6 | 58-147 | | | |
| Toluene | 46.08 | 1.0 | ug/L | 50.0 | | 92.2 | 77-130 | | | |
| Toluene | 46.08 | 1.0 | ug/L | 50.0 | | 92.2 | 72-133 | | | |
| trans-1,3-Dichloropropene | 48.01 | 1.0 | ug/L | 50.0 | | 96.0 | 77-123 | | | |
| trans-1,3-Dichloropropene | 48.01 | 1.0 | ug/L | 50.0 | | 96.0 | 67-130 | | | |
| Ethyl Methacrylate | 102.8 | 10.0 | ug/L | 102 | | 100 | 52-148 | | | |
| 1,1,2-Trichloroethane | 48.29 | 1.0 | ug/L | 50.0 | | 96.6 | 78-124 | | | |
| 1,1,2-Trichloroethane | 48.29 | 1.0 | ug/L | 50.0 | | 96.6 | 69-135 | | | |
| Tetrachloroethylene | 47.47 | 1.0 | ug/L | 50.0 | | 94.9 | 73-124 | | | |
| Tetrachloroethylene | 47.47 | 1.0 | ug/L | 50.0 | | 94.9 | 69-130 | | | |
| 1,3-Dichloropropane | 54.60 | 1.0 | ug/L | 50.0 | | 109 | 78-131 | | | |
| 2-Hexanone (MBK) | 104.2 | 5.0 | ug/L | 99.3 | | 105 | 57-145 | | | |
| 2-Hexanone (MBK) | 104.2 | 5.0 | ug/L | 99.3 | | 105 | 55-144 | | | |
| Dibromochloromethane | 49.44 | 1.0 | ug/L | 50.0 | | 98.9 | 78-126 | | | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----|-------|---|---------------|------|-------------|-----|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| LCS (1HD1572-BS1) | | | | | | | | | | |
| | | | | Prepared: 04/25/24 00:00 Analyzed: 04/25/24 09:45 | | | | | | |
| Dibromochloromethane | 49.44 | 1.0 | ug/L | 50.0 | | 98.9 | 73-127 | | | |
| 1,2-Dibromoethane | 48.54 | 1.0 | ug/L | 50.0 | | 97.1 | 69-126 | | | |
| 1,2-Dibromoethane | 48.54 | 1.0 | ug/L | 50.0 | | 97.1 | 67-132 | | | |
| Chlorobenzene | 48.15 | 1.0 | ug/L | 50.0 | | 96.3 | 76-120 | | | |
| Chlorobenzene | 48.15 | 1.0 | ug/L | 50.0 | | 96.3 | 72-123 | | | |
| 1,1,1,2-Tetrachloroethane | 49.04 | 1.0 | ug/L | 50.0 | | 98.1 | 81-122 | | | |
| 1,1,1,2-Tetrachloroethane | 49.04 | 1.0 | ug/L | 50.0 | | 98.1 | 73-127 | | | |
| Ethylbenzene | 49.63 | 1.0 | ug/L | 50.0 | | 99.3 | 74-121 | | | |
| Ethylbenzene | 49.63 | 1.0 | ug/L | 50.0 | | 99.3 | 71-127 | | | |
| Xylenes, total | 150.2 | 2.0 | ug/L | 150 | | 100 | 75-122 | | | |
| Xylenes, total | 150.2 | 2.0 | ug/L | 150 | | 100 | 74-127 | | | |
| Styrene | 51.38 | 1.0 | ug/L | 50.0 | | 103 | 76-119 | | | |
| Styrene | 51.38 | 1.0 | ug/L | 50.0 | | 103 | 66-126 | | | |
| Bromoform | 46.93 | 1.0 | ug/L | 50.0 | | 93.9 | 74-127 | | | |
| Bromoform | 46.93 | 1.0 | ug/L | 50.0 | | 93.9 | 68-130 | | | |
| 1,2,3-Trichloropropane | 48.22 | 1.0 | ug/L | 50.0 | | 96.4 | 73-125 | | | |
| 1,2,3-Trichloropropane | 48.22 | 1.0 | ug/L | 50.0 | | 96.4 | 63-136 | | | |
| trans-1,4-Dichloro-2-butene | 88.46 | 5.0 | ug/L | 103 | | 86.1 | 55-135 | | | |
| trans-1,4-Dichloro-2-butene | 88.46 | 5.0 | ug/L | 103 | | 86.1 | 54-134 | | | |
| 1,1,2,2-Tetrachloroethane | 49.14 | 1.0 | ug/L | 50.0 | | 98.3 | 58-133 | | | |
| 1,1,2,2-Tetrachloroethane | 49.14 | 1.0 | ug/L | 50.0 | | 98.3 | 61-131 | | | |
| 1,3-Dichlorobenzene | 49.29 | 1.0 | ug/L | 50.0 | | 98.7 | 70-125 | | | |
| 1,4-Dichlorobenzene | 47.71 | 1.0 | ug/L | 50.0 | | 95.4 | 69-128 | | | |
| 1,4-Dichlorobenzene | 47.71 | 1.0 | ug/L | 50.0 | | 95.4 | 70-129 | | | |
| 1,2-Dichlorobenzene | 49.58 | 1.0 | ug/L | 50.0 | | 99.2 | 70-125 | | | |
| 1,2-Dichlorobenzene | 49.58 | 1.0 | ug/L | 50.0 | | 99.2 | 69-126 | | | |
| 1,2-Dibromo-3-chloropropane | 47.66 | 1.0 | ug/L | 50.0 | | 95.3 | 54-147 | | | |
| 1,2-Dibromo-3-chloropropane | 47.66 | 5.0 | ug/L | 50.0 | | 95.3 | 50-143 | | | |
| 1,2,4-Trichlorobenzene | 47.32 | 1.0 | ug/L | 50.0 | | 94.6 | 55-149 | | | |
| Surrogate: Dibromofluoromethane | 46.3 | | ug/L | 50.2 | | 92.2 | 80-126 | | | |
| Surrogate: Dibromofluoromethane | 46.3 | | ug/L | 50.2 | | 92.2 | 80-126 | | | |
| Surrogate: Dibromofluoromethane | 46.3 | | ug/L | 50.2 | | 92.2 | 75-136 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 46.8 | | ug/L | 50.1 | | 93.5 | 63-138 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 46.8 | | ug/L | 50.1 | | 93.5 | 63-138 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 46.8 | | ug/L | 50.1 | | 93.5 | 63-138 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 46.8 | | ug/L | 50.1 | | 93.5 | 61-142 | | | |
| Surrogate: Toluene-d8 | 49.6 | | ug/L | 50.4 | | 98.3 | 87-116 | | | |
| Surrogate: Toluene-d8 | 49.6 | | ug/L | 50.4 | | 98.3 | 87-116 | | | |
| Surrogate: Toluene-d8 | 49.6 | | ug/L | 50.4 | | 98.3 | 87-116 | | | |
| Surrogate: Toluene-d8 | 49.6 | | ug/L | 50.4 | | 98.3 | 82-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 50.0 | | ug/L | 50.1 | | 99.8 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 50.0 | | ug/L | 50.1 | | 99.8 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 50.0 | | ug/L | 50.1 | | 99.8 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 50.0 | | ug/L | 50.1 | | 99.8 | 80-116 | | | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|------|-------|-------------|---------------|------|-------------|-------|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| LCS Dup (1HD1572-BSD1) Prepared: 04/25/24 00:00 Analyzed: 04/25/24 10:07 | | | | | | | | | | |
| Dichlorodifluoromethane | 33.17 | 1.0 | ug/L | 31.6 | | 105 | 44-139 | 5.45 | 30 | |
| Chloromethane | 30.48 | 1.0 | ug/L | 30.6 | | 99.5 | 56-152 | 4.46 | 30 | |
| Chloromethane | 30.48 | 1.0 | ug/L | 30.6 | | 99.5 | 63-155 | 4.46 | 24 | |
| Vinyl Chloride | 29.91 | 1.0 | ug/L | 30.2 | | 99.0 | 62-151 | 4.45 | 28 | |
| Vinyl Chloride | 29.91 | 1.0 | ug/L | 30.2 | | 99.0 | 70-154 | 4.45 | 25 | |
| Bromomethane | 26.94 | 1.0 | ug/L | 28.8 | | 93.5 | 61-162 | 1.29 | 28 | |
| Bromomethane | 26.94 | 1.0 | ug/L | 28.8 | | 93.5 | 52-176 | 1.29 | 27 | |
| Chloroethane | 33.02 | 1.0 | ug/L | 31.6 | | 104 | 69-138 | 5.02 | 29 | |
| Chloroethane | 33.02 | 1.0 | ug/L | 31.6 | | 104 | 72-148 | 5.02 | 25 | |
| Trichlorofluoromethane | 30.17 | 1.0 | ug/L | 32.6 | | 92.5 | 70-143 | 4.63 | 27 | |
| Trichlorofluoromethane | 30.17 | 1.0 | ug/L | 32.6 | | 92.5 | 70-152 | 4.63 | 26 | |
| Acrolein | 83.67 | 10.0 | ug/L | 100 | | 83.5 | 27-144 | 1.47 | 30 | |
| 1,1-Dichloroethylene | 44.10 | 1.0 | ug/L | 50.0 | | 88.2 | 76-140 | 4.56 | 30 | |
| 1,1-Dichloroethylene | 44.10 | 1.0 | ug/L | 50.0 | | 88.2 | 70-148 | 4.56 | 24 | |
| Acetone | 79.15 | 10.0 | ug/L | 101 | | 78.2 | 51-156 | 1.62 | 30 | |
| Acetone | 79.15 | 10.0 | ug/L | 101 | | 78.2 | 43-172 | 1.62 | 30 | |
| Methyl Iodide | 85.49 | 2.0 | ug/L | 102 | | 83.9 | 81-166 | 5.41 | 29 | |
| Methyl Iodide | 85.49 | 1.0 | ug/L | 102 | | 83.9 | 69-170 | 5.41 | 30 | |
| Carbon Disulfide | 98.52 | 1.0 | ug/L | 103 | | 95.9 | 76-147 | 4.91 | 27 | |
| Carbon Disulfide | 98.52 | 1.0 | ug/L | 103 | | 95.9 | 72-162 | 4.91 | 24 | |
| Acetonitrile | 77.90 | 10.0 | ug/L | 103 | | 75.9 | 46-156 | 2.88 | 30 | |
| Methylene Chloride | 44.51 | 5.0 | ug/L | 50.0 | | 89.0 | 67-139 | 3.25 | 26 | |
| Methylene Chloride | 44.51 | 5.0 | ug/L | 50.0 | | 89.0 | 68-142 | 3.25 | 21 | |
| Acrylonitrile | 88.98 | 5.0 | ug/L | 100 | | 88.7 | 67-144 | 0.124 | 24 | |
| Acrylonitrile | 88.98 | 5.0 | ug/L | 100 | | 88.7 | 67-144 | 0.124 | 24 | |
| trans-1,2-Dichloroethylene | 44.92 | 1.0 | ug/L | 50.0 | | 89.8 | 72-135 | 4.74 | 28 | |
| trans-1,2-Dichloroethylene | 44.92 | 1.0 | ug/L | 50.0 | | 89.8 | 66-148 | 4.74 | 27 | |
| 1,1-Dichloroethane | 44.42 | 1.0 | ug/L | 50.0 | | 88.8 | 72-129 | 3.69 | 26 | |
| 1,1-Dichloroethane | 44.42 | 1.0 | ug/L | 50.0 | | 88.8 | 66-143 | 3.69 | 24 | |
| Vinyl Acetate | 97.13 | 5.0 | ug/L | 100 | | 97.1 | 24-144 | 6.31 | 30 | |
| Vinyl Acetate | 97.13 | 5.0 | ug/L | 100 | | 97.1 | 43-153 | 6.31 | 30 | |
| 2,2-Dichloropropane | 41.55 | 1.0 | ug/L | 50.0 | | 83.1 | 64-131 | 5.23 | 26 | |
| cis-1,2-Dichloroethylene | 52.28 | 1.0 | ug/L | 50.0 | | 105 | 81-137 | 16.3 | 27 | |
| cis-1,2-Dichloroethylene | 52.28 | 1.0 | ug/L | 50.0 | | 105 | 71-149 | 16.3 | 26 | |
| 2-Butanone (MEK) | 92.77 | 5.0 | ug/L | 102 | | 91.1 | 47-149 | 5.77 | 30 | |
| 2-Butanone (MEK) | 92.77 | 10.0 | ug/L | 102 | | 91.1 | 52-159 | 5.77 | 27 | |
| Bromochloromethane | 44.92 | 1.0 | ug/L | 50.0 | | 89.8 | 75-138 | 3.63 | 24 | |
| Bromochloromethane | 44.92 | 1.0 | ug/L | 50.0 | | 89.8 | 69-143 | 3.63 | 23 | |
| Chloroform | 43.06 | 1.0 | ug/L | 50.0 | | 86.1 | 78-131 | 3.67 | 27 | |
| Chloroform | 43.06 | 1.0 | ug/L | 50.0 | | 86.1 | 69-144 | 3.67 | 23 | |
| 1,1,1-Trichloroethane | 41.29 | 1.0 | ug/L | 50.0 | | 82.6 | 67-121 | 5.01 | 28 | |
| 1,1,1-Trichloroethane | 41.29 | 1.0 | ug/L | 50.0 | | 82.6 | 62-129 | 5.01 | 24 | |
| 1,1-Dichloropropene | 41.87 | 1.0 | ug/L | 50.0 | | 83.7 | 80-131 | 5.05 | 30 | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|------|-------|-------------|---------------|------|-------------|-------|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| LCS Dup (1HD1572-BSD1) | | | | | | | | | | |
| Prepared: 04/25/24 00:00 Analyzed: 04/25/24 10:07 | | | | | | | | | | |
| Carbon Tetrachloride | 43.89 | 1.0 | ug/L | 50.0 | | 87.8 | 71-131 | 4.69 | 28 | |
| Carbon Tetrachloride | 43.89 | 1.0 | ug/L | 50.0 | | 87.8 | 63-141 | 4.69 | 25 | |
| Benzene | 46.39 | 1.0 | ug/L | 50.0 | | 92.8 | 77-130 | 3.85 | 25 | |
| Benzene | 46.39 | 1.0 | ug/L | 50.0 | | 92.8 | 71-134 | 3.85 | 24 | |
| 1,2-Dichloroethane | 45.26 | 1.0 | ug/L | 50.0 | | 90.5 | 76-126 | 2.21 | 24 | |
| 1,2-Dichloroethane | 45.26 | 1.0 | ug/L | 50.0 | | 90.5 | 72-132 | 2.21 | 24 | |
| Trichloroethylene | 45.57 | 1.0 | ug/L | 50.0 | | 91.1 | 80-124 | 3.60 | 27 | |
| Trichloroethylene | 45.57 | 1.0 | ug/L | 50.0 | | 91.1 | 71-135 | 3.60 | 24 | |
| 1,2-Dichloropropane | 46.95 | 1.0 | ug/L | 50.0 | | 93.9 | 81-125 | 2.81 | 25 | |
| 1,2-Dichloropropane | 46.95 | 1.0 | ug/L | 50.0 | | 93.9 | 69-136 | 2.81 | 24 | |
| Dibromomethane | 47.71 | 1.0 | ug/L | 50.0 | | 95.4 | 84-134 | 1.42 | 23 | |
| Dibromomethane | 47.71 | 1.0 | ug/L | 50.0 | | 95.4 | 73-147 | 1.42 | 25 | |
| Bromodichloromethane | 45.70 | 1.0 | ug/L | 50.0 | | 91.4 | 78-121 | 2.61 | 25 | |
| Bromodichloromethane | 45.70 | 1.0 | ug/L | 50.0 | | 91.4 | 68-129 | 2.61 | 22 | |
| cis-1,3-Dichloropropene | 45.21 | 1.0 | ug/L | 50.0 | | 90.4 | 78-120 | 1.73 | 26 | |
| cis-1,3-Dichloropropene | 45.21 | 1.0 | ug/L | 50.0 | | 90.4 | 65-134 | 1.73 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | 100.4 | 5.0 | ug/L | 100 | | 100 | 67-143 | 0.750 | 26 | |
| 4-Methyl-2-pentanone (MIBK) | 100.4 | 5.0 | ug/L | 100 | | 100 | 58-147 | 0.750 | 27 | |
| Toluene | 44.67 | 1.0 | ug/L | 50.0 | | 89.3 | 77-130 | 3.11 | 27 | |
| Toluene | 44.67 | 1.0 | ug/L | 50.0 | | 89.3 | 72-133 | 3.11 | 24 | |
| trans-1,3-Dichloropropene | 47.20 | 1.0 | ug/L | 50.0 | | 94.4 | 77-123 | 1.70 | 28 | |
| trans-1,3-Dichloropropene | 47.20 | 1.0 | ug/L | 50.0 | | 94.4 | 67-130 | 1.70 | 24 | |
| Ethyl Methacrylate | 101.7 | 10.0 | ug/L | 102 | | 99.3 | 52-148 | 1.07 | 30 | |
| 1,1,2-Trichloroethane | 47.28 | 1.0 | ug/L | 50.0 | | 94.6 | 78-124 | 2.11 | 24 | |
| 1,1,2-Trichloroethane | 47.28 | 1.0 | ug/L | 50.0 | | 94.6 | 69-135 | 2.11 | 23 | |
| Tetrachloroethylene | 45.29 | 1.0 | ug/L | 50.0 | | 90.6 | 73-124 | 4.70 | 26 | |
| Tetrachloroethylene | 45.29 | 1.0 | ug/L | 50.0 | | 90.6 | 69-130 | 4.70 | 25 | |
| 1,3-Dichloropropane | 53.66 | 1.0 | ug/L | 50.0 | | 107 | 78-131 | 1.74 | 24 | |
| 2-Hexanone (MBK) | 104.5 | 5.0 | ug/L | 99.3 | | 105 | 57-145 | 0.230 | 30 | |
| 2-Hexanone (MBK) | 104.5 | 5.0 | ug/L | 99.3 | | 105 | 55-144 | 0.230 | 25 | |
| Dibromochloromethane | 48.16 | 1.0 | ug/L | 50.0 | | 96.3 | 78-126 | 2.62 | 23 | |
| Dibromochloromethane | 48.16 | 1.0 | ug/L | 50.0 | | 96.3 | 73-127 | 2.62 | 22 | |
| 1,2-Dibromoethane | 47.80 | 1.0 | ug/L | 50.0 | | 95.6 | 69-126 | 1.54 | 22 | |
| 1,2-Dibromoethane | 47.80 | 1.0 | ug/L | 50.0 | | 95.6 | 67-132 | 1.54 | 24 | |
| Chlorobenzene | 46.58 | 1.0 | ug/L | 50.0 | | 93.2 | 76-120 | 3.31 | 25 | |
| Chlorobenzene | 46.58 | 1.0 | ug/L | 50.0 | | 93.2 | 72-123 | 3.31 | 23 | |
| 1,1,1,2-Tetrachloroethane | 47.89 | 1.0 | ug/L | 50.0 | | 95.8 | 81-122 | 2.37 | 23 | |
| 1,1,1,2-Tetrachloroethane | 47.89 | 1.0 | ug/L | 50.0 | | 95.8 | 73-127 | 2.37 | 24 | |
| Ethylbenzene | 47.82 | 1.0 | ug/L | 50.0 | | 95.6 | 74-121 | 3.71 | 27 | |
| Ethylbenzene | 47.82 | 1.0 | ug/L | 50.0 | | 95.6 | 71-127 | 3.71 | 26 | |
| Xylenes, total | 145.6 | 2.0 | ug/L | 150 | | 97.0 | 75-122 | 3.12 | 26 | |
| Xylenes, total | 145.6 | 2.0 | ug/L | 150 | | 97.0 | 74-127 | 3.12 | 25 | |
| Styrene | 49.77 | 1.0 | ug/L | 50.0 | | 99.5 | 76-119 | 3.18 | 26 | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |

LCS Dup (1HD1572-BSD1)

Prepared: 04/25/24 00:00 Analyzed: 04/25/24 10:07

| | | | | | | | | | | |
|-----------------------------|-------|-----|------|------|--|------|--------|-------|----|--|
| Styrene | 49.77 | 1.0 | ug/L | 50.0 | | 99.5 | 66-126 | 3.18 | 23 | |
| Bromoform | 46.69 | 1.0 | ug/L | 50.0 | | 93.4 | 74-127 | 0.513 | 22 | |
| Bromoform | 46.69 | 1.0 | ug/L | 50.0 | | 93.4 | 68-130 | 0.513 | 23 | |
| 1,2,3-Trichloropropane | 47.89 | 1.0 | ug/L | 50.0 | | 95.8 | 73-125 | 0.687 | 20 | |
| 1,2,3-Trichloropropane | 47.89 | 1.0 | ug/L | 50.0 | | 95.8 | 63-136 | 0.687 | 24 | |
| trans-1,4-Dichloro-2-butene | 88.16 | 5.0 | ug/L | 103 | | 85.8 | 55-135 | 0.340 | 26 | |
| trans-1,4-Dichloro-2-butene | 88.16 | 5.0 | ug/L | 103 | | 85.8 | 54-134 | 0.340 | 27 | |
| 1,1,2,2-Tetrachloroethane | 48.31 | 1.0 | ug/L | 50.0 | | 96.6 | 58-133 | 1.70 | 28 | |
| 1,1,2,2-Tetrachloroethane | 48.31 | 1.0 | ug/L | 50.0 | | 96.6 | 61-131 | 1.70 | 29 | |
| 1,3-Dichlorobenzene | 47.62 | 1.0 | ug/L | 50.0 | | 95.3 | 70-125 | 3.45 | 27 | |
| 1,4-Dichlorobenzene | 46.06 | 1.0 | ug/L | 50.0 | | 92.1 | 69-128 | 3.52 | 29 | |
| 1,4-Dichlorobenzene | 46.06 | 1.0 | ug/L | 50.0 | | 92.1 | 70-129 | 3.52 | 24 | |
| 1,2-Dichlorobenzene | 47.96 | 1.0 | ug/L | 50.0 | | 95.9 | 70-125 | 3.32 | 25 | |
| 1,2-Dichlorobenzene | 47.96 | 1.0 | ug/L | 50.0 | | 95.9 | 69-126 | 3.32 | 26 | |
| 1,2-Dibromo-3-chloropropane | 48.25 | 1.0 | ug/L | 50.0 | | 96.5 | 54-147 | 1.23 | 29 | |
| 1,2-Dibromo-3-chloropropane | 48.25 | 5.0 | ug/L | 50.0 | | 96.5 | 50-143 | 1.23 | 30 | |
| 1,2,4-Trichlorobenzene | 46.45 | 1.0 | ug/L | 50.0 | | 92.9 | 55-149 | 1.86 | 30 | |

| | | | | | | | | | | |
|----------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Surrogate: Dibromofluoromethane | 46.2 | | ug/L | 50.2 | | 92.2 | 80-126 | | | |
| Surrogate: Dibromofluoromethane | 46.2 | | ug/L | 50.2 | | 92.2 | 80-126 | | | |
| Surrogate: Dibromofluoromethane | 46.2 | | ug/L | 50.2 | | 92.2 | 75-136 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 46.2 | | ug/L | 50.1 | | 92.2 | 63-138 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 46.2 | | ug/L | 50.1 | | 92.2 | 63-138 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 46.2 | | ug/L | 50.1 | | 92.2 | 63-138 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 46.2 | | ug/L | 50.1 | | 92.2 | 61-142 | | | |
| Surrogate: Toluene-d8 | 49.4 | | ug/L | 50.4 | | 98.0 | 87-116 | | | |
| Surrogate: Toluene-d8 | 49.4 | | ug/L | 50.4 | | 98.0 | 87-116 | | | |
| Surrogate: Toluene-d8 | 49.4 | | ug/L | 50.4 | | 98.0 | 87-116 | | | |
| Surrogate: Toluene-d8 | 49.4 | | ug/L | 50.4 | | 98.0 | 82-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 50.3 | | ug/L | 50.1 | | 100 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 50.3 | | ug/L | 50.1 | | 100 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 50.3 | | ug/L | 50.1 | | 100 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 50.3 | | ug/L | 50.1 | | 100 | 80-116 | | | |

Matrix Spike (1HD1572-MS1)

Source: 1HD1698-01

Prepared: 04/25/24 00:00 Analyzed: 04/25/24 19:02

| | | | | | | | | | | |
|-------------------------|-------|------|------|-----|----|------|--------|--|--|--|
| Dichlorodifluoromethane | 293.2 | 10.0 | ug/L | 300 | ND | 97.7 | 47-137 | | | |
| Chloromethane | 276.8 | 10.0 | ug/L | 300 | ND | 92.2 | 49-154 | | | |
| Chloromethane | 276.8 | 10.0 | ug/L | 300 | ND | 92.2 | 61-152 | | | |
| Vinyl Chloride | 304.3 | 10.0 | ug/L | 300 | ND | 101 | 61-152 | | | |
| Vinyl Chloride | 304.3 | 10.0 | ug/L | 300 | ND | 101 | 66-149 | | | |
| Bromomethane | 210.2 | 10.0 | ug/L | 301 | ND | 69.8 | 47-168 | | | |
| Bromomethane | 210.2 | 10.0 | ug/L | 301 | ND | 69.8 | 43-171 | | | |
| Chloroethane | 308.6 | 10.0 | ug/L | 300 | ND | 103 | 61-148 | | | |
| Chloroethane | 308.6 | 10.0 | ug/L | 300 | ND | 103 | 69-148 | | | |
| Trichlorofluoromethane | 291.8 | 10.0 | ug/L | 300 | ND | 97.3 | 73-147 | | | |
| Trichlorofluoromethane | 291.8 | 10.0 | ug/L | 300 | ND | 97.3 | 62-163 | | | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------------------------|------|-------|---|---------------|------|-------------|-----|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Matrix Spike (1HD1572-MS1) | Source: 1HD1698-01 | | | Prepared: 04/25/24 00:00 Analyzed: 04/25/24 19:02 | | | | | | |
| Acrolein | 272.2 | 100 | ug/L | 505 | ND | 53.9 | 20-164 | | | |
| 1,1-Dichloroethylene | 472.9 | 10.0 | ug/L | 501 | ND | 94.3 | 68-153 | | | |
| 1,1-Dichloroethylene | 472.9 | 10.0 | ug/L | 501 | ND | 94.3 | 70-148 | | | |
| Acetone | 813.9 | 100 | ug/L | 1000 | ND | 81.3 | 45-175 | | | |
| Acetone | 813.9 | 100 | ug/L | 1000 | ND | 81.3 | 45-173 | | | |
| Methyl Iodide | 737.0 | 20.0 | ug/L | 1000 | ND | 73.6 | 79-167 | | | QM-05 |
| Methyl Iodide | 737.0 | 10.0 | ug/L | 1000 | ND | 73.6 | 62-167 | | | |
| Carbon Disulfide | 937.9 | 10.0 | ug/L | 1000 | ND | 93.7 | 72-156 | | | |
| Carbon Disulfide | 937.9 | 10.0 | ug/L | 1000 | ND | 93.7 | 71-163 | | | |
| Acetonitrile | 807.6 | 100 | ug/L | 1000 | ND | 80.6 | 38-166 | | | |
| Methylene Chloride | 465.7 | 50.0 | ug/L | 502 | ND | 92.8 | 64-143 | | | |
| Methylene Chloride | 465.7 | 50.0 | ug/L | 502 | ND | 92.8 | 69-140 | | | |
| Acrylonitrile | 477.0 | 50.0 | ug/L | 500 | ND | 95.4 | 58-151 | | | |
| Acrylonitrile | 477.0 | 50.0 | ug/L | 500 | ND | 95.4 | 58-151 | | | |
| trans-1,2-Dichloroethylene | 476.3 | 10.0 | ug/L | 503 | ND | 94.7 | 65-145 | | | |
| trans-1,2-Dichloroethylene | 476.3 | 10.0 | ug/L | 503 | ND | 94.7 | 69-144 | | | |
| 1,1-Dichloroethane | 469.8 | 10.0 | ug/L | 503 | ND | 93.5 | 68-136 | | | |
| 1,1-Dichloroethane | 469.8 | 10.0 | ug/L | 503 | ND | 93.5 | 70-138 | | | |
| Vinyl Acetate | 846.4 | 50.0 | ug/L | 1620 | ND | 52.4 | 58-143 | | | QM-05 |
| Vinyl Acetate | 846.4 | 50.0 | ug/L | 1620 | ND | 52.4 | 58-142 | | | QM-05 |
| 2,2-Dichloropropane | 418.4 | 10.0 | ug/L | 504 | ND | 83.0 | 50-118 | | | |
| cis-1,2-Dichloroethylene | 546.4 | 10.0 | ug/L | 505 | ND | 108 | 67-153 | | | |
| cis-1,2-Dichloroethylene | 546.4 | 10.0 | ug/L | 505 | ND | 108 | 68-151 | | | |
| 2-Butanone (MEK) | 943.1 | 50.0 | ug/L | 1000 | ND | 94.2 | 52-159 | | | |
| 2-Butanone (MEK) | 943.1 | 100 | ug/L | 1000 | ND | 94.2 | 50-160 | | | |
| Bromochloromethane | 469.3 | 10.0 | ug/L | 504 | ND | 93.0 | 61-151 | | | |
| Bromochloromethane | 469.3 | 10.0 | ug/L | 504 | ND | 93.0 | 65-143 | | | |
| Chloroform | 455.5 | 10.0 | ug/L | 502 | ND | 90.8 | 77-132 | | | |
| Chloroform | 455.5 | 10.0 | ug/L | 502 | ND | 90.8 | 71-143 | | | |
| 1,1,1-Trichloroethane | 460.7 | 10.0 | ug/L | 503 | ND | 91.6 | 71-118 | | | |
| 1,1,1-Trichloroethane | 460.7 | 10.0 | ug/L | 503 | ND | 91.6 | 63-133 | | | |
| 1,1-Dichloropropene | 471.6 | 10.0 | ug/L | 504 | ND | 93.5 | 82-128 | | | |
| Carbon Tetrachloride | 470.6 | 10.0 | ug/L | 502 | ND | 93.7 | 71-133 | | | |
| Carbon Tetrachloride | 470.6 | 10.0 | ug/L | 502 | ND | 93.7 | 63-142 | | | |
| Benzene | 487.8 | 10.0 | ug/L | 504 | ND | 96.7 | 81-125 | | | |
| Benzene | 487.8 | 10.0 | ug/L | 504 | ND | 96.7 | 69-133 | | | |
| 1,2-Dichloroethane | 462.2 | 10.0 | ug/L | 502 | ND | 92.1 | 75-125 | | | |
| 1,2-Dichloroethane | 462.2 | 10.0 | ug/L | 502 | ND | 92.1 | 63-138 | | | |
| Trichloroethylene | 486.2 | 10.0 | ug/L | 503 | ND | 96.6 | 83-120 | | | |
| Trichloroethylene | 486.2 | 10.0 | ug/L | 503 | ND | 96.6 | 71-133 | | | |
| 1,2-Dichloropropane | 486.5 | 10.0 | ug/L | 502 | ND | 96.9 | 80-124 | | | |
| 1,2-Dichloropropane | 486.5 | 10.0 | ug/L | 502 | ND | 96.9 | 69-132 | | | |
| Dibromomethane | 484.7 | 10.0 | ug/L | 505 | ND | 96.0 | 84-131 | | | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------------------------|------|-------|---|---------------|------|-------------|-----|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Matrix Spike (1HD1572-MS1) | Source: 1HD1698-01 | | | Prepared: 04/25/24 00:00 Analyzed: 04/25/24 19:02 | | | | | | |
| Dibromomethane | 484.7 | 10.0 | ug/L | 505 | ND | 96.0 | 70-147 | | | |
| Bromodichloromethane | 477.9 | 10.0 | ug/L | 503 | ND | 95.1 | 79-118 | | | |
| Bromodichloromethane | 477.9 | 10.0 | ug/L | 503 | ND | 95.1 | 67-130 | | | |
| cis-1,3-Dichloropropene | 476.4 | 10.0 | ug/L | 502 | ND | 94.9 | 75-116 | | | |
| cis-1,3-Dichloropropene | 476.4 | 10.0 | ug/L | 502 | ND | 94.9 | 61-126 | | | |
| 4-Methyl-2-pentanone (MIBK) | 1057 | 50.0 | ug/L | 1000 | ND | 105 | 65-149 | | | |
| 4-Methyl-2-pentanone (MIBK) | 1057 | 50.0 | ug/L | 1000 | ND | 105 | 55-147 | | | |
| Toluene | 479.4 | 10.0 | ug/L | 505 | ND | 95.0 | 82-123 | | | |
| Toluene | 479.4 | 10.0 | ug/L | 505 | ND | 95.0 | 71-133 | | | |
| trans-1,3-Dichloropropene | 477.7 | 10.0 | ug/L | 503 | ND | 95.0 | 75-117 | | | |
| trans-1,3-Dichloropropene | 477.7 | 10.0 | ug/L | 503 | ND | 95.0 | 63-124 | | | |
| Ethyl Methacrylate | 1068 | 100 | ug/L | 1000 | ND | 107 | 73-135 | | | |
| 1,1,2-Trichloroethane | 489.0 | 10.0 | ug/L | 502 | ND | 97.4 | 77-122 | | | |
| 1,1,2-Trichloroethane | 489.0 | 10.0 | ug/L | 502 | ND | 97.4 | 69-133 | | | |
| Tetrachloroethylene | 485.1 | 10.0 | ug/L | 502 | ND | 96.6 | 74-120 | | | |
| Tetrachloroethylene | 485.1 | 10.0 | ug/L | 502 | ND | 96.6 | 70-124 | | | |
| 1,3-Dichloropropane | 488.0 | 10.0 | ug/L | 504 | ND | 96.8 | 80-127 | | | |
| 2-Hexanone (MBK) | 1090 | 50.0 | ug/L | 1000 | ND | 109 | 57-150 | | | |
| 2-Hexanone (MBK) | 1090 | 50.0 | ug/L | 1000 | ND | 109 | 53-141 | | | |
| Dibromochloromethane | 486.1 | 10.0 | ug/L | 503 | ND | 96.6 | 80-120 | | | |
| Dibromochloromethane | 486.1 | 10.0 | ug/L | 503 | ND | 96.6 | 74-122 | | | |
| 1,2-Dibromoethane | 495.9 | 10.0 | ug/L | 504 | ND | 98.3 | 67-125 | | | |
| 1,2-Dibromoethane | 495.9 | 10.0 | ug/L | 504 | ND | 98.3 | 66-127 | | | |
| Chlorobenzene | 491.8 | 10.0 | ug/L | 502 | ND | 97.9 | 81-113 | | | |
| Chlorobenzene | 491.8 | 10.0 | ug/L | 502 | ND | 97.9 | 76-116 | | | |
| 1,1,1,2-Tetrachloroethane | 485.6 | 10.0 | ug/L | 504 | ND | 96.3 | 80-119 | | | |
| 1,1,1,2-Tetrachloroethane | 485.6 | 10.0 | ug/L | 504 | ND | 96.3 | 77-121 | | | |
| Ethylbenzene | 507.9 | 10.0 | ug/L | 505 | ND | 101 | 78-114 | | | |
| Ethylbenzene | 507.9 | 10.0 | ug/L | 505 | ND | 101 | 73-124 | | | |
| Xylenes, total | 1537 | 20.0 | ug/L | 1510 | ND | 102 | 77-116 | | | |
| Xylenes, total | 1537 | 20.0 | ug/L | 1510 | ND | 102 | 75-123 | | | |
| Styrene | 517.3 | 10.0 | ug/L | 504 | ND | 103 | 78-114 | | | |
| Styrene | 517.3 | 10.0 | ug/L | 504 | ND | 103 | 70-120 | | | |
| Bromoform | 470.4 | 10.0 | ug/L | 502 | ND | 93.7 | 69-125 | | | |
| Bromoform | 470.4 | 10.0 | ug/L | 502 | ND | 93.7 | 70-124 | | | |
| 1,2,3-Trichloropropane | 496.6 | 10.0 | ug/L | 504 | ND | 98.5 | 72-125 | | | |
| 1,2,3-Trichloropropane | 496.6 | 10.0 | ug/L | 504 | ND | 98.5 | 62-135 | | | |
| trans-1,4-Dichloro-2-butene | 1006 | 50.0 | ug/L | 1000 | ND | 100 | 48-131 | | | |
| trans-1,4-Dichloro-2-butene | 1006 | 50.0 | ug/L | 1000 | ND | 100 | 50-120 | | | |
| 1,1,2,2-Tetrachloroethane | 498.5 | 10.0 | ug/L | 502 | ND | 99.3 | 51-138 | | | |
| 1,1,2,2-Tetrachloroethane | 498.5 | 10.0 | ug/L | 502 | ND | 99.3 | 63-126 | | | |
| 1,3-Dichlorobenzene | 486.9 | 10.0 | ug/L | 503 | ND | 96.8 | 70-122 | | | |
| 1,4-Dichlorobenzene | 483.9 | 10.0 | ug/L | 502 | ND | 96.4 | 70-124 | | | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------------------------|------|-------|---|---------------|------|-------------|--------|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Matrix Spike (1HD1572-MS1) | Source: 1HD1698-01 | | | Prepared: 04/25/24 00:00 Analyzed: 04/25/24 19:02 | | | | | | |
| 1,4-Dichlorobenzene | 483.9 | 10.0 | ug/L | 502 | ND | 96.4 | 72-119 | | | |
| 1,2-Dichlorobenzene | 481.6 | 10.0 | ug/L | 502 | ND | 96.0 | 68-123 | | | |
| 1,2-Dichlorobenzene | 481.6 | 10.0 | ug/L | 502 | ND | 96.0 | 71-117 | | | |
| 1,2-Dibromo-3-chloropropane | 485.6 | 10.0 | ug/L | 505 | ND | 96.2 | 46-149 | | | |
| 1,2-Dibromo-3-chloropropane | 485.6 | 50.0 | ug/L | 505 | ND | 96.2 | 49-134 | | | |
| 1,2,4-Trichlorobenzene | 465.3 | 10.0 | ug/L | 505 | ND | 92.2 | 60-137 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 467 | | ug/L | 502 | | 93.2 | 80-126 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 467 | | ug/L | 502 | | 93.2 | 80-126 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 467 | | ug/L | 502 | | 93.2 | 75-136 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 474 | | ug/L | 501 | | 94.7 | 63-138 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 474 | | ug/L | 501 | | 94.7 | 63-138 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 474 | | ug/L | 501 | | 94.7 | 63-138 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 474 | | ug/L | 501 | | 94.7 | 61-142 | | | |
| <i>Surrogate: Toluene-d8</i> | 499 | | ug/L | 504 | | 99.0 | 87-116 | | | |
| <i>Surrogate: Toluene-d8</i> | 499 | | ug/L | 504 | | 99.0 | 87-116 | | | |
| <i>Surrogate: Toluene-d8</i> | 499 | | ug/L | 504 | | 99.0 | 87-116 | | | |
| <i>Surrogate: Toluene-d8</i> | 499 | | ug/L | 504 | | 99.0 | 82-121 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 500 | | ug/L | 501 | | 99.6 | 85-111 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 500 | | ug/L | 501 | | 99.6 | 85-111 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 500 | | ug/L | 501 | | 99.6 | 85-111 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 500 | | ug/L | 501 | | 99.6 | 80-116 | | | |
| Matrix Spike Dup (1HD1572-MSD1) | Source: 1HD1698-01 | | | Prepared: 04/25/24 00:00 Analyzed: 04/25/24 19:25 | | | | | | |
| Dichlorodifluoromethane | 295.2 | 10.0 | ug/L | 300 | ND | 98.3 | 47-137 | 0.680 | 20 | |
| Chloromethane | 264.9 | 10.0 | ug/L | 300 | ND | 88.2 | 49-154 | 4.39 | 25 | |
| Chloromethane | 264.9 | 10.0 | ug/L | 300 | ND | 88.2 | 61-152 | 4.39 | 26 | |
| Vinyl Chloride | 291.2 | 10.0 | ug/L | 300 | ND | 97.0 | 61-152 | 4.40 | 24 | |
| Vinyl Chloride | 291.2 | 10.0 | ug/L | 300 | ND | 97.0 | 66-149 | 4.40 | 23 | |
| Bromomethane | 227.3 | 10.0 | ug/L | 301 | ND | 75.5 | 47-168 | 7.82 | 30 | |
| Bromomethane | 227.3 | 10.0 | ug/L | 301 | ND | 75.5 | 43-171 | 7.82 | 29 | |
| Chloroethane | 296.6 | 10.0 | ug/L | 300 | ND | 98.8 | 61-148 | 3.97 | 29 | |
| Chloroethane | 296.6 | 10.0 | ug/L | 300 | ND | 98.8 | 69-148 | 3.97 | 25 | |
| Trichlorofluoromethane | 287.3 | 10.0 | ug/L | 300 | ND | 95.8 | 73-147 | 1.55 | 24 | |
| Trichlorofluoromethane | 287.3 | 10.0 | ug/L | 300 | ND | 95.8 | 62-163 | 1.55 | 25 | |
| Acrolein | 346.5 | 100 | ug/L | 505 | ND | 68.6 | 20-164 | 24.0 | 24 | |
| 1,1-Dichloroethylene | 456.6 | 10.0 | ug/L | 501 | ND | 91.1 | 68-153 | 3.51 | 21 | |
| 1,1-Dichloroethylene | 456.6 | 10.0 | ug/L | 501 | ND | 91.1 | 70-148 | 3.51 | 22 | |
| Acetone | 783.7 | 100 | ug/L | 1000 | ND | 78.3 | 45-175 | 3.78 | 23 | |
| Acetone | 783.7 | 100 | ug/L | 1000 | ND | 78.3 | 45-173 | 3.78 | 30 | |
| Methyl Iodide | 801.1 | 20.0 | ug/L | 1000 | ND | 80.0 | 79-167 | 8.33 | 14 | |
| Methyl Iodide | 801.1 | 10.0 | ug/L | 1000 | ND | 80.0 | 62-167 | 8.33 | 24 | |
| Carbon Disulfide | 902.2 | 10.0 | ug/L | 1000 | ND | 90.1 | 72-156 | 3.88 | 19 | |
| Carbon Disulfide | 902.2 | 10.0 | ug/L | 1000 | ND | 90.1 | 71-163 | 3.88 | 22 | |
| Acetonitrile | 806.8 | 100 | ug/L | 1000 | ND | 80.6 | 38-166 | 0.0991 | 20 | |
| Methylene Chloride | 450.2 | 50.0 | ug/L | 502 | ND | 89.7 | 64-143 | 3.38 | 19 | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------------------------|------|-------|---|---------------|------|-------------|------|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Matrix Spike Dup (1HD1572-MSD1) | Source: 1HD1698-01 | | | Prepared: 04/25/24 00:00 Analyzed: 04/25/24 19:25 | | | | | | |
| Methylene Chloride | 450.2 | 50.0 | ug/L | 502 | ND | 89.7 | 69-140 | 3.38 | 19 | |
| Acrylonitrile | 464.6 | 50.0 | ug/L | 500 | ND | 92.9 | 58-151 | 2.63 | 15 | |
| Acrylonitrile | 464.6 | 50.0 | ug/L | 500 | ND | 92.9 | 58-151 | 2.63 | 15 | |
| trans-1,2-Dichloroethylene | 454.5 | 10.0 | ug/L | 503 | ND | 90.4 | 65-145 | 4.68 | 18 | |
| trans-1,2-Dichloroethylene | 454.5 | 10.0 | ug/L | 503 | ND | 90.4 | 69-144 | 4.68 | 22 | |
| 1,1-Dichloroethane | 450.4 | 10.0 | ug/L | 503 | ND | 89.6 | 68-136 | 4.22 | 17 | |
| 1,1-Dichloroethane | 450.4 | 10.0 | ug/L | 503 | ND | 89.6 | 70-138 | 4.22 | 20 | |
| Vinyl Acetate | 899.2 | 50.0 | ug/L | 1620 | ND | 55.7 | 58-143 | 6.05 | 14 | QM-05 |
| Vinyl Acetate | 899.2 | 50.0 | ug/L | 1620 | ND | 55.7 | 58-142 | 6.05 | 24 | QM-05 |
| 2,2-Dichloropropane | 400.7 | 10.0 | ug/L | 504 | ND | 79.5 | 50-118 | 4.32 | 17 | |
| cis-1,2-Dichloroethylene | 527.8 | 10.0 | ug/L | 505 | ND | 105 | 67-153 | 3.46 | 22 | |
| cis-1,2-Dichloroethylene | 527.8 | 10.0 | ug/L | 505 | ND | 105 | 68-151 | 3.46 | 22 | |
| 2-Butanone (MEK) | 969.7 | 50.0 | ug/L | 1000 | ND | 96.8 | 52-159 | 2.78 | 28 | |
| 2-Butanone (MEK) | 969.7 | 100 | ug/L | 1000 | ND | 96.8 | 50-160 | 2.78 | 23 | |
| Bromochloromethane | 457.9 | 10.0 | ug/L | 504 | ND | 90.8 | 61-151 | 2.46 | 27 | |
| Bromochloromethane | 457.9 | 10.0 | ug/L | 504 | ND | 90.8 | 65-143 | 2.46 | 22 | |
| Chloroform | 436.1 | 10.0 | ug/L | 502 | ND | 86.9 | 77-132 | 4.35 | 17 | |
| Chloroform | 436.1 | 10.0 | ug/L | 502 | ND | 86.9 | 71-143 | 4.35 | 21 | |
| 1,1,1-Trichloroethane | 444.5 | 10.0 | ug/L | 503 | ND | 88.3 | 71-118 | 3.58 | 15 | |
| 1,1,1-Trichloroethane | 444.5 | 10.0 | ug/L | 503 | ND | 88.3 | 63-133 | 3.58 | 23 | |
| 1,1-Dichloropropene | 451.3 | 10.0 | ug/L | 504 | ND | 89.5 | 82-128 | 4.40 | 16 | |
| Carbon Tetrachloride | 452.8 | 10.0 | ug/L | 502 | ND | 90.2 | 71-133 | 3.86 | 14 | |
| Carbon Tetrachloride | 452.8 | 10.0 | ug/L | 502 | ND | 90.2 | 63-142 | 3.86 | 22 | |
| Benzene | 466.8 | 10.0 | ug/L | 504 | ND | 92.5 | 81-125 | 4.40 | 12 | |
| Benzene | 466.8 | 10.0 | ug/L | 504 | ND | 92.5 | 69-133 | 4.40 | 18 | |
| 1,2-Dichloroethane | 450.5 | 10.0 | ug/L | 502 | ND | 89.8 | 75-125 | 2.56 | 13 | |
| 1,2-Dichloroethane | 450.5 | 10.0 | ug/L | 502 | ND | 89.8 | 63-138 | 2.56 | 20 | |
| Trichloroethylene | 464.9 | 10.0 | ug/L | 503 | ND | 92.3 | 83-120 | 4.48 | 11 | |
| Trichloroethylene | 464.9 | 10.0 | ug/L | 503 | ND | 92.3 | 71-133 | 4.48 | 23 | |
| 1,2-Dichloropropane | 471.3 | 10.0 | ug/L | 502 | ND | 93.8 | 80-124 | 3.17 | 11 | |
| 1,2-Dichloropropane | 471.3 | 10.0 | ug/L | 502 | ND | 93.8 | 69-132 | 3.17 | 20 | |
| Dibromomethane | 472.6 | 10.0 | ug/L | 505 | ND | 93.6 | 84-131 | 2.53 | 13 | |
| Dibromomethane | 472.6 | 10.0 | ug/L | 505 | ND | 93.6 | 70-147 | 2.53 | 22 | |
| Bromodichloromethane | 464.0 | 10.0 | ug/L | 503 | ND | 92.3 | 79-118 | 2.95 | 11 | |
| Bromodichloromethane | 464.0 | 10.0 | ug/L | 503 | ND | 92.3 | 67-130 | 2.95 | 21 | |
| cis-1,3-Dichloropropene | 463.0 | 10.0 | ug/L | 502 | ND | 92.2 | 75-116 | 2.85 | 11 | |
| cis-1,3-Dichloropropene | 463.0 | 10.0 | ug/L | 502 | ND | 92.2 | 61-126 | 2.85 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 1024 | 50.0 | ug/L | 1000 | ND | 102 | 65-149 | 3.14 | 14 | |
| 4-Methyl-2-pentanone (MIBK) | 1024 | 50.0 | ug/L | 1000 | ND | 102 | 55-147 | 3.14 | 23 | |
| Toluene | 456.5 | 10.0 | ug/L | 505 | ND | 90.4 | 82-123 | 4.89 | 12 | |
| Toluene | 456.5 | 10.0 | ug/L | 505 | ND | 90.4 | 71-133 | 4.89 | 19 | |
| trans-1,3-Dichloropropene | 470.2 | 10.0 | ug/L | 503 | ND | 93.5 | 75-117 | 1.58 | 11 | |
| trans-1,3-Dichloropropene | 470.2 | 10.0 | ug/L | 503 | ND | 93.5 | 63-124 | 1.58 | 21 | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------------------------|------|-------|---|---------------|------|-------------|-------|-----------|-------|
| Batch 1HD1572 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Matrix Spike Dup (1HD1572-MSD1) | Source: 1HD1698-01 | | | Prepared: 04/25/24 00:00 Analyzed: 04/25/24 19:25 | | | | | | |
| Ethyl Methacrylate | 1035 | 100 | ug/L | 1000 | ND | 103 | 73-135 | 3.06 | 10 | |
| 1,1,2-Trichloroethane | 474.2 | 10.0 | ug/L | 502 | ND | 94.4 | 77-122 | 3.07 | 11 | |
| 1,1,2-Trichloroethane | 474.2 | 10.0 | ug/L | 502 | ND | 94.4 | 69-133 | 3.07 | 19 | |
| Tetrachloroethylene | 463.0 | 10.0 | ug/L | 502 | ND | 92.2 | 74-120 | 4.66 | 17 | |
| Tetrachloroethylene | 463.0 | 10.0 | ug/L | 502 | ND | 92.2 | 70-124 | 4.66 | 24 | |
| 1,3-Dichloropropane | 481.5 | 10.0 | ug/L | 504 | ND | 95.5 | 80-127 | 1.34 | 13 | |
| 2-Hexanone (MBK) | 1065 | 50.0 | ug/L | 1000 | ND | 106 | 57-150 | 2.32 | 17 | |
| 2-Hexanone (MBK) | 1065 | 50.0 | ug/L | 1000 | ND | 106 | 53-141 | 2.32 | 24 | |
| Dibromochloromethane | 477.4 | 10.0 | ug/L | 503 | ND | 94.8 | 80-120 | 1.81 | 12 | |
| Dibromochloromethane | 477.4 | 10.0 | ug/L | 503 | ND | 94.8 | 74-122 | 1.81 | 21 | |
| 1,2-Dibromoethane | 484.9 | 10.0 | ug/L | 504 | ND | 96.1 | 67-125 | 2.24 | 12 | |
| 1,2-Dibromoethane | 484.9 | 10.0 | ug/L | 504 | ND | 96.1 | 66-127 | 2.24 | 23 | |
| Chlorobenzene | 469.2 | 10.0 | ug/L | 502 | ND | 93.4 | 81-113 | 4.70 | 14 | |
| Chlorobenzene | 469.2 | 10.0 | ug/L | 502 | ND | 93.4 | 76-116 | 4.70 | 21 | |
| 1,1,1,2-Tetrachloroethane | 469.9 | 10.0 | ug/L | 504 | ND | 93.2 | 80-119 | 3.29 | 15 | |
| 1,1,1,2-Tetrachloroethane | 469.9 | 10.0 | ug/L | 504 | ND | 93.2 | 77-121 | 3.29 | 25 | |
| Ethylbenzene | 484.5 | 10.0 | ug/L | 505 | ND | 96.0 | 78-114 | 4.72 | 14 | |
| Ethylbenzene | 484.5 | 10.0 | ug/L | 505 | ND | 96.0 | 73-124 | 4.72 | 20 | |
| Xylenes, total | 1462 | 20.0 | ug/L | 1510 | ND | 96.6 | 77-116 | 4.97 | 13 | |
| Xylenes, total | 1462 | 20.0 | ug/L | 1510 | ND | 96.6 | 75-123 | 4.97 | 20 | |
| Styrene | 496.6 | 10.0 | ug/L | 504 | ND | 98.5 | 78-114 | 4.08 | 12 | |
| Styrene | 496.6 | 10.0 | ug/L | 504 | ND | 98.5 | 70-120 | 4.08 | 23 | |
| Bromoform | 466.8 | 10.0 | ug/L | 502 | ND | 92.9 | 69-125 | 0.768 | 14 | |
| Bromoform | 466.8 | 10.0 | ug/L | 502 | ND | 92.9 | 70-124 | 0.768 | 22 | |
| 1,2,3-Trichloropropane | 479.7 | 10.0 | ug/L | 504 | ND | 95.1 | 72-125 | 3.46 | 18 | |
| 1,2,3-Trichloropropane | 479.7 | 10.0 | ug/L | 504 | ND | 95.1 | 62-135 | 3.46 | 28 | |
| trans-1,4-Dichloro-2-butene | 990.8 | 50.0 | ug/L | 1000 | ND | 98.8 | 48-131 | 1.48 | 17 | |
| trans-1,4-Dichloro-2-butene | 990.8 | 50.0 | ug/L | 1000 | ND | 98.8 | 50-120 | 1.48 | 26 | |
| 1,1,2,2-Tetrachloroethane | 484.6 | 10.0 | ug/L | 502 | ND | 96.5 | 51-138 | 2.83 | 30 | |
| 1,1,2,2-Tetrachloroethane | 484.6 | 10.0 | ug/L | 502 | ND | 96.5 | 63-126 | 2.83 | 24 | |
| 1,3-Dichlorobenzene | 467.4 | 10.0 | ug/L | 503 | ND | 92.9 | 70-122 | 4.09 | 30 | |
| 1,4-Dichlorobenzene | 463.5 | 10.0 | ug/L | 502 | ND | 92.4 | 70-124 | 4.31 | 28 | |
| 1,4-Dichlorobenzene | 463.5 | 10.0 | ug/L | 502 | ND | 92.4 | 72-119 | 4.31 | 24 | |
| 1,2-Dichlorobenzene | 466.7 | 10.0 | ug/L | 502 | ND | 93.0 | 68-123 | 3.14 | 29 | |
| 1,2-Dichlorobenzene | 466.7 | 10.0 | ug/L | 502 | ND | 93.0 | 71-117 | 3.14 | 24 | |
| 1,2-Dibromo-3-chloropropane | 484.3 | 10.0 | ug/L | 505 | ND | 95.9 | 46-149 | 0.268 | 30 | |
| 1,2-Dibromo-3-chloropropane | 484.3 | 50.0 | ug/L | 505 | ND | 95.9 | 49-134 | 0.268 | 28 | |
| 1,2,4-Trichlorobenzene | 453.3 | 10.0 | ug/L | 505 | ND | 89.8 | 60-137 | 2.61 | 30 | |
| Surrogate: Dibromofluoromethane | 471 | | ug/L | 502 | | 93.8 | 80-126 | | | |
| Surrogate: Dibromofluoromethane | 471 | | ug/L | 502 | | 93.8 | 80-126 | | | |
| Surrogate: Dibromofluoromethane | 471 | | ug/L | 502 | | 93.8 | 75-136 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 473 | | ug/L | 501 | | 94.4 | 63-138 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 473 | | ug/L | 501 | | 94.4 | 63-138 | | | |

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CERTIFICATE OF ANALYSIS

1HD1864

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

Batch 1HD1572 - EPA 5030B - EPA 8260B

Matrix Spike Dup (1HD1572-MSD1)

Source: 1HD1698-01

Prepared: 04/25/24 00:00 Analyzed: 04/25/24 19:25

| | | | | | | | | | | |
|----------------------------------|-----|--|------|-----|--|------|--------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 473 | | ug/L | 501 | | 94.4 | 63-138 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 473 | | ug/L | 501 | | 94.4 | 61-142 | | | |
| Surrogate: Toluene-d8 | 498 | | ug/L | 504 | | 98.8 | 87-116 | | | |
| Surrogate: Toluene-d8 | 498 | | ug/L | 504 | | 98.8 | 87-116 | | | |
| Surrogate: Toluene-d8 | 498 | | ug/L | 504 | | 98.8 | 87-116 | | | |
| Surrogate: Toluene-d8 | 498 | | ug/L | 504 | | 98.8 | 82-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 500 | | ug/L | 501 | | 99.8 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 500 | | ug/L | 501 | | 99.8 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 500 | | ug/L | 501 | | 99.8 | 85-111 | | | |
| Surrogate: 4-Bromofluorobenzene | 500 | | ug/L | 501 | | 99.8 | 80-116 | | | |

Batch 1HE0002 - EPA 5030B - EPA 8260B

Blank (1HE0002-BLK1)

Prepared: 04/30/24 00:00 Analyzed: 04/30/24 10:54

| | | | | | | | | | | |
|---------------------|-------|------|------|--|--|--|--|--|--|--|
| Allyl chloride | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloroprene | <1.0 | 1.0 | ug/L | | | | | | | |
| Methacrylonitrile | <1.0 | 1.0 | ug/L | | | | | | | |
| Methyl Methacrylate | <1.0 | 1.0 | ug/L | | | | | | | |
| Propionitrile | <10.0 | 10.0 | ug/L | | | | | | | |

| | | | | | | | | | | |
|----------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Surrogate: Dibromofluoromethane | 47.0 | | ug/L | 50.2 | | 93.7 | 80-126 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 47.2 | | ug/L | 50.1 | | 94.2 | 63-138 | | | |
| Surrogate: Toluene-d8 | 49.7 | | ug/L | 50.4 | | 98.6 | 87-116 | | | |
| Surrogate: 4-Bromofluorobenzene | 50.5 | | ug/L | 50.1 | | 101 | 85-111 | | | |

LCS (1HE0002-BS1)

Prepared: 04/30/24 00:00 Analyzed: 04/30/24 09:46

| | | | | | | | | | | |
|---------------------|-------|------|------|------|--|------|--------|--|--|--|
| Allyl chloride | 31.64 | 1.0 | ug/L | 35.7 | | 88.5 | 76-134 | | | |
| Chloroprene | 51.22 | 1.0 | ug/L | 50.0 | | 102 | 74-141 | | | |
| Methacrylonitrile | 58.08 | 1.0 | ug/L | 64.3 | | 90.4 | 73-143 | | | |
| Methyl Methacrylate | 56.06 | 1.0 | ug/L | 57.3 | | 97.8 | 72-123 | | | |
| Propionitrile | 72.70 | 10.0 | ug/L | 50.0 | | 145 | 50-151 | | | |

| | | | | | | | | | | |
|----------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Surrogate: Dibromofluoromethane | 46.5 | | ug/L | 50.2 | | 92.6 | 80-126 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 46.8 | | ug/L | 50.1 | | 93.4 | 63-138 | | | |
| Surrogate: Toluene-d8 | 49.9 | | ug/L | 50.4 | | 99.1 | 87-116 | | | |
| Surrogate: 4-Bromofluorobenzene | 50.9 | | ug/L | 50.1 | | 101 | 85-111 | | | |

LCS Dup (1HE0002-BSD1)

Prepared: 04/30/24 00:00 Analyzed: 04/30/24 10:09

| | | | | | | | | | | |
|---------------------|-------|------|------|------|--|------|--------|-------|----|--|
| Allyl chloride | 31.58 | 1.0 | ug/L | 35.7 | | 88.4 | 76-134 | 0.190 | 30 | |
| Chloroprene | 50.69 | 1.0 | ug/L | 50.0 | | 101 | 74-141 | 1.04 | 30 | |
| Methacrylonitrile | 53.55 | 1.0 | ug/L | 64.3 | | 83.3 | 73-143 | 8.12 | 30 | |
| Methyl Methacrylate | 55.42 | 1.0 | ug/L | 57.3 | | 96.7 | 72-123 | 1.15 | 30 | |
| Propionitrile | 63.24 | 10.0 | ug/L | 50.0 | | 126 | 50-151 | 13.9 | 30 | |

| | | | | | | | | | | |
|----------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Surrogate: Dibromofluoromethane | 46.6 | | ug/L | 50.2 | | 93.0 | 80-126 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 45.9 | | ug/L | 50.1 | | 91.7 | 63-138 | | | |
| Surrogate: Toluene-d8 | 50.2 | | ug/L | 50.4 | | 99.6 | 87-116 | | | |



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CERTIFICATE OF ANALYSIS

1HD1864

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

Batch 1HE0002 - EPA 5030B - EPA 8260B

LCS Dup (1HE0002-BSD1)

Prepared: 04/30/24 00:00 Analyzed: 04/30/24 10:09

| | | | | | | | | | | |
|---------------------------------|------|--|------|------|--|-----|--------|--|--|--|
| Surrogate: 4-Bromofluorobenzene | 50.7 | | ug/L | 50.1 | | 101 | 85-111 | | | |
|---------------------------------|------|--|------|------|--|-----|--------|--|--|--|

| Determination of General Solvents | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|-----------------------------------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1HD1672 - Semi-Vol GC - EPA 8015C

Blank (1HD1672-BLK1)

Prepared: 04/29/24 13:36 Analyzed: 04/29/24 21:26

| | | | | | | | | | | |
|------------|------|-----|------|--|--|--|--|--|--|--|
| Isobutanol | <1.0 | 1.0 | mg/L | | | | | | | |
|------------|------|-----|------|--|--|--|--|--|--|--|

LCS (1HD1672-BS1)

Prepared: 04/29/24 13:36 Analyzed: 04/29/24 19:20

| | | | | | | | | | | |
|------------|-------|-----|------|------|--|-----|--------|--|--|--|
| Isobutanol | 27.38 | 1.0 | mg/L | 26.0 | | 105 | 40-135 | | | |
|------------|-------|-----|------|------|--|-----|--------|--|--|--|

Matrix Spike (1HD1672-MS1)

Source: 1HD1461-02

Prepared: 04/29/24 13:36 Analyzed: 04/30/24 02:42

| | | | | | | | | | | |
|------------|-------|-----|------|------|----|------|--------|--|--|--|
| Isobutanol | 25.96 | 1.0 | mg/L | 26.0 | ND | 99.9 | 63-135 | | | |
|------------|-------|-----|------|------|----|------|--------|--|--|--|

Matrix Spike Dup (1HD1672-MSD1)

Source: 1HD1461-02

Prepared: 04/29/24 13:36 Analyzed: 04/30/24 03:13

| | | | | | | | | | | |
|------------|-------|-----|------|------|----|------|--------|------|----|--|
| Isobutanol | 25.02 | 1.0 | mg/L | 26.0 | ND | 96.2 | 63-135 | 3.69 | 30 | |
|------------|-------|-----|------|------|----|------|--------|------|----|--|

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|--|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1HD1525 - 3520C BNA Cont Liq - EPA 8270C

Blank (1HD1525-BLK1)

Prepared: 04/25/24 10:28 Analyzed: 05/07/24 16:09

| | | | | | | | | | | |
|-----------------------------|----|---|------|--|--|--|--|--|--|--|
| N-Nitrosodimethylamine | <8 | 8 | ug/L | | | | | | | |
| Methyl Methanesulfonate | <8 | 8 | ug/L | | | | | | | |
| N-Nitrosodiethylamine | <8 | 8 | ug/L | | | | | | | |
| N-Nitrosomethylethylamine | <8 | 8 | ug/L | | | | | | | |
| Ethyl Methanesulfonate | <8 | 8 | ug/L | | | | | | | |
| Phenol | <8 | 8 | ug/L | | | | | | | |
| Bis(2-Chloroethyl) Ether | <8 | 8 | ug/L | | | | | | | |
| 2-Chlorophenol | <8 | 8 | ug/L | | | | | | | |
| Benzyl Alcohol | <8 | 8 | ug/L | | | | | | | |
| 2-Methylphenol (o-Cresol) | <8 | 8 | ug/L | | | | | | | |
| Bis[2-Chloroisopropyl]ether | <8 | 8 | ug/L | | | | | | | |
| n-Nitroso-di-n-propylamine | <8 | 8 | ug/L | | | | | | | |
| N-Nitrosopyrrolidine | <8 | 8 | ug/L | | | | | | | |
| Acetophenone | <8 | 8 | ug/L | | | | | | | |
| o-Toluidine | <8 | 8 | ug/L | | | | | | | |
| (3 & 4)-Methylphenol | <8 | 8 | ug/L | | | | | | | |
| Hexachloroethane | <8 | 8 | ug/L | | | | | | | |
| Nitrobenzene | <8 | 8 | ug/L | | | | | | | |
| N-Nitrosopiperidine | <8 | 8 | ug/L | | | | | | | |
| Isophorone | <8 | 8 | ug/L | | | | | | | |



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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|----|-------|---|------------------|----------------|-----|--------------|-------|
| Batch 1HD1525 - 3520C BNA Cont Liq - EPA 8270C | | | | | | | | | |
| Blank (1HD1525-BLK1) | | | | Prepared: 04/25/24 10:28 Analyzed: 05/07/24 16:09 | | | | | |
| 2-Nitrophenol | <8 | 8 | ug/L | | | | | | |
| 2,4-Dimethylphenol | <8 | 8 | ug/L | | | | | | |
| Bis (2-Chloroethoxy) Methane | <8 | 8 | ug/L | | | | | | |
| 2,4-Dichlorophenol | <8 | 8 | ug/L | | | | | | |
| Naphthalene | <8 | 8 | ug/L | | | | | | |
| 4-Chloroaniline | 9.0 | 8 | ug/L | | | | | | QB-02 |
| 2,6-Dichlorophenol | <8 | 8 | ug/L | | | | | | |
| Hexachloropropene | <8 | 8 | ug/L | | | | | | |
| Hexachlorobutadiene | <8 | 8 | ug/L | | | | | | |
| N-Nitrosodi-n-butylamine | <8 | 8 | ug/L | | | | | | |
| 1,4-Phenylenediamine | <8 | 8 | ug/L | | | | | | |
| 4-Chloro-3-methylphenol | <8 | 8 | ug/L | | | | | | |
| 2-Methylnaphthalene | <8 | 8 | ug/L | | | | | | |
| Isosafrole | <8 | 8 | ug/L | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | <8 | 8 | ug/L | | | | | | |
| Hexachlorocyclopentadiene | <8 | 8 | ug/L | | | | | | |
| 2,4,6-Trichlorophenol | <8 | 8 | ug/L | | | | | | |
| 2,4,5-Trichlorophenol | <8 | 8 | ug/L | | | | | | |
| Safrole | <8 | 8 | ug/L | | | | | | |
| 2-Chloronaphthalene | <8 | 8 | ug/L | | | | | | |
| 2-Nitroaniline | <8 | 8 | ug/L | | | | | | |
| 1,4-Naphthoquinone | <8 | 8 | ug/L | | | | | | |
| Dimethylphthalate | <8 | 8 | ug/L | | | | | | |
| 1,3-Dinitrobenzene | <8 | 8 | ug/L | | | | | | |
| 1,2-Dinitrobenzene | <8 | 8 | ug/L | | | | | | |
| 2,6-Dinitrotoluene | <8 | 8 | ug/L | | | | | | |
| Acenaphthylene | <8 | 8 | ug/L | | | | | | |
| 3-Nitroaniline | 16.5 | 8 | ug/L | | | | | | QB-02 |
| Acenaphthene | <8 | 8 | ug/L | | | | | | |
| 2,4-Dinitrophenol | <8 | 8 | ug/L | | | | | | |
| 4-Nitrophenol | <8 | 8 | ug/L | | | | | | |
| Dibenzofuran | <8 | 8 | ug/L | | | | | | |
| 2,4-Dinitrotoluene | <8 | 8 | ug/L | | | | | | |
| 2,3,4,6-Tetrachlorophenol | <8 | 8 | ug/L | | | | | | |
| Pentachlorobenzene | <8 | 8 | ug/L | | | | | | |
| 1-Naphthylamine | <8 | 8 | ug/L | | | | | | |
| 2-Naphthylamine | <8 | 8 | ug/L | | | | | | |
| Diethyl Phthalate | <8 | 8 | ug/L | | | | | | |
| Fluorene | <8 | 8 | ug/L | | | | | | |
| 4-Chlorophenyl Phenyl Ether | <8 | 8 | ug/L | | | | | | |
| 4-Nitroaniline | 11.0 | 8 | ug/L | | | | | | QB-02 |
| 5-Nitro-o-toluidine | 30.6 | 8 | ug/L | | | | | | QB-02 |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|----|-------|----------------|------------------|----------------|-----|--------------|-------|
|--|--------|----|-------|----------------|------------------|----------------|-----|--------------|-------|

Batch 1HD1525 - 3520C BNA Cont Liq - EPA 8270C

Blank (1HD1525-BLK1)

Prepared: 04/25/24 10:28 Analyzed: 05/07/24 16:09

| | | | | | | | | | |
|----------------------------------|----|---|------|--|--|--|--|--|--|
| 4,6-Dinitro-2-methylphenol | <8 | 8 | ug/L | | | | | | |
| N-Nitrosodiphenylamine | <8 | 8 | ug/L | | | | | | |
| Diphenylamine | <8 | 8 | ug/L | | | | | | |
| Azobenzene | <8 | 8 | ug/L | | | | | | |
| Diallate | <8 | 8 | ug/L | | | | | | |
| 1,3,5-Trinitrobenzene | <8 | 8 | ug/L | | | | | | |
| Phenacetin | <8 | 8 | ug/L | | | | | | |
| 4-Bromophenyl Phenyl Ether | <8 | 8 | ug/L | | | | | | |
| 4-Aminobiphenyl | <8 | 8 | ug/L | | | | | | |
| Pentachlorophenol | <8 | 8 | ug/L | | | | | | |
| Pronamide | <8 | 8 | ug/L | | | | | | |
| Pentachloronitrobenzene (PCNB) | <8 | 8 | ug/L | | | | | | |
| Phenanthrene | <8 | 8 | ug/L | | | | | | |
| Anthracene | <8 | 8 | ug/L | | | | | | |
| Di-n-butyl Phthalate | <8 | 8 | ug/L | | | | | | |
| Methapyrilene | <8 | 8 | ug/L | | | | | | |
| Fluoranthene | <8 | 8 | ug/L | | | | | | |
| Isodrin | <8 | 8 | ug/L | | | | | | |
| Chlorobenzilate | <8 | 8 | ug/L | | | | | | |
| Pyrene | <8 | 8 | ug/L | | | | | | |
| p-(Dimethylamino)azobenzene | <8 | 8 | ug/L | | | | | | |
| 3,3-Dimethylbenzidine | <8 | 8 | ug/L | | | | | | |
| Butyl Benzyl Phthalate | <8 | 8 | ug/L | | | | | | |
| Benzo(a)anthracene | <8 | 8 | ug/L | | | | | | |
| Chrysene | <8 | 8 | ug/L | | | | | | |
| Bis(2-Ethylhexyl) Phthalate | <6 | 6 | ug/L | | | | | | |
| Kepone | <8 | 8 | ug/L | | | | | | |
| 3,3'-Dichlorobenzidine | <8 | 8 | ug/L | | | | | | |
| 2-Acetylaminofluorene | <8 | 8 | ug/L | | | | | | |
| Di-n-octyl Phthalate | <8 | 8 | ug/L | | | | | | |
| Benzo(b)Fluoranthene | <8 | 8 | ug/L | | | | | | |
| 7,12-Dimethylbenz [a] anthracene | <8 | 8 | ug/L | | | | | | |
| Benzo(k)Fluoranthene | <8 | 8 | ug/L | | | | | | |
| Benzo(a)Pyrene | <8 | 8 | ug/L | | | | | | |
| 3-Methylcholanthrene | <8 | 8 | ug/L | | | | | | |
| Dibenzo(a,h)anthracene | <8 | 8 | ug/L | | | | | | |
| Indeno(1,2,3-cd)Pyrene | <8 | 8 | ug/L | | | | | | |
| Benzo(g,h,i)perylene | <8 | 8 | ug/L | | | | | | |

| | | | | | |
|-----------------------------|------|------|------|------|--------|
| Surrogate: 2-Fluorophenol | 22.2 | ug/L | 29.6 | 75.0 | 24-136 |
| Surrogate: Phenol-d6 | 23.8 | ug/L | 30.5 | 78.2 | 15-140 |
| Surrogate: Nitrobenzene-d5 | 25.0 | ug/L | 30.0 | 83.3 | 29-130 |
| Surrogate: 2-Fluorobiphenyl | 23.2 | ug/L | 28.8 | 80.4 | 23-113 |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Determination of Base/Neutral/Acid Extractable Compounds | | | | | | | | | | |
| Batch 1HD1525 - 3520C BNA Cont Liq - EPA 8270C | | | | | | | | | | |
| Blank (1HD1525-BLK1) | | | | | | | | | | |
| Prepared: 04/25/24 10:28 Analyzed: 05/07/24 16:09 | | | | | | | | | | |
| Surrogate: 2,4,6-Tribromophenol | 26.1 | | ug/L | 29.7 | | 87.9 | 15-139 | | | |
| Surrogate: Terphenyl-d14 | 30.7 | | ug/L | 28.8 | | 106 | 27-141 | | | |
| LCS (1HD1525-BS1) | | | | | | | | | | |
| Prepared: 04/25/24 10:28 Analyzed: 05/07/24 16:34 | | | | | | | | | | |
| N-Nitrosodimethylamine | 18.4 | 8 | ug/L | 21.4 | | 85.8 | 36-138 | | | |
| Methyl Methanesulfonate | 16.8 | 8 | ug/L | 25.0 | | 67.2 | 22-114 | | | |
| N-Nitrosodiethylamine | 40.9 | 8 | ug/L | 50.0 | | 81.9 | 52-114 | | | |
| N-Nitrosomethylethylamine | 42.1 | 8 | ug/L | 50.0 | | 84.1 | 36-120 | | | |
| Ethyl Methanesulfonate | 19.1 | 8 | ug/L | 25.0 | | 76.6 | 46-110 | | | |
| Phenol | 20.4 | 8 | ug/L | 21.4 | | 95.2 | 50-112 | | | |
| Bis(2-Chloroethyl) Ether | 25.8 | 8 | ug/L | 21.4 | | 120 | 39-151 | | | |
| 2-Chlorophenol | 20.7 | 8 | ug/L | 21.4 | | 96.6 | 56-116 | | | |
| Benzyl Alcohol | 20.0 | 8 | ug/L | 21.4 | | 93.7 | 13-158 | | | |
| 2-Methylphenol (o-Cresol) | 21.8 | 8 | ug/L | 21.4 | | 102 | 53-131 | | | |
| Bis[2-Chloroisopropyl]ether | 20.9 | 8 | ug/L | 21.4 | | 97.6 | 50-121 | | | |
| n-Nitroso-di-n-propylamine | 22.8 | 8 | ug/L | 21.4 | | 107 | 50-138 | | | |
| N-Nitrosopyrrolidine | 42.1 | 8 | ug/L | 50.0 | | 84.1 | 31-118 | | | |
| Acetophenone | 19.4 | 8 | ug/L | 25.0 | | 77.8 | 45-104 | | | |
| o-Toluidine | 22.6 | 8 | ug/L | 50.0 | | 45.2 | 10-163 | | | |
| (3 & 4)-Methylphenol | 21.8 | 8 | ug/L | 21.4 | | 102 | 30-164 | | | |
| Hexachloroethane | 12.4 | 8 | ug/L | 21.4 | | 58.1 | 10-110 | | | |
| Nitrobenzene | 23.2 | 8 | ug/L | 21.4 | | 108 | 47-134 | | | |
| N-Nitrosopiperidine | 41.8 | 8 | ug/L | 50.0 | | 83.7 | 51-122 | | | |
| Isophorone | 23.8 | 8 | ug/L | 21.4 | | 111 | 54-128 | | | |
| 2-Nitrophenol | 23.6 | 8 | ug/L | 21.4 | | 110 | 54-117 | | | |
| 2,4-Dimethylphenol | 23.0 | 8 | ug/L | 21.4 | | 107 | 52-118 | | | |
| Bis (2-Chloroethoxy) Methane | 21.6 | 8 | ug/L | 21.4 | | 101 | 13-132 | | | |
| 2,4-Dichlorophenol | 22.6 | 8 | ug/L | 21.4 | | 105 | 58-114 | | | |
| Naphthalene | 19.6 | 8 | ug/L | 21.4 | | 91.5 | 37-116 | | | |
| 4-Chloroaniline | <8 | 8 | ug/L | 21.4 | | 36.4 | 10-198 | | | |
| 2,6-Dichlorophenol | 20.3 | 8 | ug/L | 25.0 | | 81.2 | 52-129 | | | |
| Hexachloropropene | <8 | 8 | ug/L | 25.0 | | 26.5 | 14-110 | | | |
| Hexachlorobutadiene | 13.3 | 8 | ug/L | 21.4 | | 62.1 | 14-110 | | | |
| N-Nitrosodi-n-butylamine | 51.7 | 8 | ug/L | 50.0 | | 103 | 40-135 | | | |
| 4-Chloro-3-methylphenol | 23.8 | 8 | ug/L | 21.4 | | 111 | 57-136 | | | |
| 2-Methylnaphthalene | 20.3 | 8 | ug/L | 21.4 | | 94.7 | 44-111 | | | |
| Isosafrole | 18.3 | 8 | ug/L | 25.0 | | 73.3 | 49-107 | | | |
| 1,2,4,5-Tetrachlorobenzene | 13.9 | 8 | ug/L | 25.0 | | 55.4 | 42-110 | | | |
| Hexachlorocyclopentadiene | 11.3 | 8 | ug/L | 21.4 | | 52.7 | 11-110 | | | |
| 2,4,6-Trichlorophenol | 22.1 | 8 | ug/L | 21.4 | | 103 | 55-120 | | | |
| 2,4,5-Trichlorophenol | 24.5 | 8 | ug/L | 21.4 | | 114 | 55-121 | | | |
| Safrole | 18.7 | 8 | ug/L | 25.0 | | 74.8 | 40-118 | | | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch 1HD1525 - 3520C BNA Cont Liq - EPA 8270C | | | | | | | | | | |
| LCS (1HD1525-BS1) | | | | | | | | | | |
| Prepared: 04/25/24 10:28 Analyzed: 05/07/24 16:34 | | | | | | | | | | |
| 2-Chloronaphthalene | 14.8 | 8 | ug/L | 21.4 | | 69.4 | 47-127 | | | |
| 2-Nitroaniline | 25.3 | 8 | ug/L | 21.4 | | 118 | 36-143 | | | |
| 1,4-Naphthoquinone | 23.0 | 8 | ug/L | 25.0 | | 91.8 | 43-152 | | | |
| Dimethylphthalate | 24.4 | 8 | ug/L | 21.4 | | 114 | 59-128 | | | |
| 1,3-Dinitrobenzene | 24.8 | 8 | ug/L | 21.4 | | 116 | 63-125 | | | |
| 1,2-Dinitrobenzene | 24.2 | 8 | ug/L | 21.4 | | 113 | 63-123 | | | |
| 2,6-Dinitrotoluene | 23.8 | 8 | ug/L | 21.4 | | 111 | 60-127 | | | |
| Acenaphthylene | 22.0 | 8 | ug/L | 21.4 | | 103 | 49-113 | | | |
| 3-Nitroaniline | 16.0 | 8 | ug/L | 21.4 | | 74.7 | 10-162 | | | |
| Acenaphthene | 22.0 | 8 | ug/L | 21.4 | | 103 | 50-119 | | | |
| 2,4-Dinitrophenol | 22.8 | 8 | ug/L | 21.4 | | 107 | 27-157 | | | |
| 4-Nitrophenol | 26.0 | 8 | ug/L | 21.4 | | 122 | 49-154 | | | |
| Dibenzofuran | 23.0 | 8 | ug/L | 21.4 | | 108 | 56-121 | | | |
| 2,4-Dinitrotoluene | 23.4 | 8 | ug/L | 21.4 | | 109 | 53-138 | | | |
| 2,3,4,6-Tetrachlorophenol | 23.6 | 8 | ug/L | 21.4 | | 110 | 47-132 | | | |
| Pentachlorobenzene | 19.0 | 8 | ug/L | 25.0 | | 75.8 | 41-125 | | | |
| 1-Naphthylamine | 14.9 | 8 | ug/L | 50.0 | | 29.8 | 10-152 | | | |
| 2-Naphthylamine | <8 | 8 | ug/L | 50.0 | | 9.88 | 19-128 | | | QS-03 |
| Diethyl Phthalate | 25.0 | 8 | ug/L | 21.4 | | 117 | 53-138 | | | |
| Fluorene | 23.4 | 8 | ug/L | 21.4 | | 110 | 54-125 | | | |
| 4-Chlorophenyl Phenyl Ether | 22.6 | 8 | ug/L | 21.4 | | 106 | 51-122 | | | |
| 4-Nitroaniline | 25.0 | 8 | ug/L | 21.4 | | 117 | 10-136 | | | |
| 5-Nitro-o-toluidine | 40.5 | 8 | ug/L | 50.0 | | 80.9 | 10-145 | | | |
| 4,6-Dinitro-2-methylphenol | 24.1 | 8 | ug/L | 21.4 | | 113 | 49-137 | | | |
| Diphenylamine | 23.5 | 8 | ug/L | 21.4 | | 110 | 35-151 | | | |
| Azobenzene | 22.6 | 8 | ug/L | 21.4 | | 106 | 16-156 | | | |
| Diallate | 22.2 | 8 | ug/L | 25.0 | | 88.6 | 54-132 | | | |
| 1,3,5-Trinitrobenzene | 22.5 | 8 | ug/L | 25.0 | | 90.1 | 57-173 | | | |
| Phenacetin | 22.8 | 8 | ug/L | 25.0 | | 91.1 | 55-121 | | | |
| 4-Bromophenyl Phenyl Ether | 22.9 | 8 | ug/L | 21.4 | | 107 | 53-122 | | | |
| Pentachlorophenol | 23.8 | 8 | ug/L | 21.4 | | 111 | 18-152 | | | |
| Pronamide | 20.3 | 8 | ug/L | 25.0 | | 81.2 | 42-122 | | | |
| Pentachloronitrobenzene (PCNB) | 23.2 | 8 | ug/L | 25.0 | | 92.9 | 50-128 | | | |
| Phenanthrene | 25.4 | 8 | ug/L | 21.4 | | 119 | 59-131 | | | |
| Anthracene | 25.1 | 8 | ug/L | 21.4 | | 117 | 59-127 | | | |
| Di-n-butyl Phthalate | 28.8 | 8 | ug/L | 21.4 | | 134 | 64-148 | | | |
| Fluoranthene | 26.2 | 8 | ug/L | 21.4 | | 123 | 62-132 | | | |
| Isodrin | 18.3 | 8 | ug/L | 25.0 | | 73.3 | 46-130 | | | |
| Chlorobenzilate | 21.6 | 8 | ug/L | 25.0 | | 86.5 | 48-150 | | | |
| Pyrene | 26.2 | 8 | ug/L | 21.4 | | 122 | 58-135 | | | |
| p-(Dimethylamino)azobenzene | 43.7 | 8 | ug/L | 50.0 | | 87.3 | 28-146 | | | |
| Butyl Benzyl Phthalate | 25.6 | 8 | ug/L | 21.4 | | 120 | 52-150 | | | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|----|-------|---|---------------|------|-------------|-------|-----------|-------|
| Base/Neutral/Acid Extractable Compounds | | | | | | | | | | |
| Batch 1HD1525 - 3520C BNA Cont Liq - EPA 8270C | | | | | | | | | | |
| LCS (1HD1525-BS1) | | | | | | | | | | |
| | | | | Prepared: 04/25/24 10:28 Analyzed: 05/07/24 16:34 | | | | | | |
| Benzo(a)anthracene | 24.4 | 8 | ug/L | 21.4 | | 114 | 58-131 | | | |
| Chrysene | 25.1 | 8 | ug/L | 21.4 | | 117 | 59-131 | | | |
| Bis(2-Ethylhexyl) Phthalate | 29.5 | 6 | ug/L | 21.4 | | 138 | 33-184 | | | |
| Kepon | 13.6 | 8 | ug/L | 25.0 | | 54.5 | 10-134 | | | |
| 2-Acetylaminofluorene | 51.8 | 8 | ug/L | 50.0 | | 104 | 47-166 | | | |
| Di-n-octyl Phthalate | 27.4 | 8 | ug/L | 21.4 | | 128 | 48-162 | | | |
| Benzo(b)Fluoranthene | 25.1 | 8 | ug/L | 21.4 | | 117 | 50-146 | | | |
| 7,12-Dimethylbenz [a] anthracene | 20.5 | 8 | ug/L | 25.0 | | 81.9 | 22-155 | | | |
| Benzo(k)Fluoranthene | 25.7 | 8 | ug/L | 21.4 | | 120 | 54-144 | | | |
| Benzo(a)Pyrene | 24.4 | 8 | ug/L | 21.4 | | 114 | 39-148 | | | |
| 3-Methylcholanthrene | 19.1 | 8 | ug/L | 25.0 | | 76.2 | 34-118 | | | |
| Dibenzo(a,h)anthracene | 25.9 | 8 | ug/L | 21.4 | | 121 | 46-153 | | | |
| Indeno(1,2,3-cd)Pyrene | 25.9 | 8 | ug/L | 21.4 | | 121 | 48-152 | | | |
| Benzo(g,h,i)perylene | 26.4 | 8 | ug/L | 21.4 | | 123 | 47-161 | | | |
| <i>Surrogate: 2-Fluorophenol</i> | 22.3 | | ug/L | 29.6 | | 75.4 | 24-136 | | | |
| <i>Surrogate: Phenol-d6</i> | 24.8 | | ug/L | 30.5 | | 81.3 | 15-140 | | | |
| <i>Surrogate: Nitrobenzene-d5</i> | 28.6 | | ug/L | 30.0 | | 95.2 | 38-115 | | | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 26.7 | | ug/L | 28.8 | | 92.6 | 33-110 | | | |
| <i>Surrogate: 2,4,6-Tribromophenol</i> | 29.4 | | ug/L | 29.7 | | 99.0 | 15-139 | | | |
| <i>Surrogate: Terphenyl-d14</i> | 32.7 | | ug/L | 28.8 | | 114 | 30-142 | | | |
| LCS Dup (1HD1525-BSD1) | | | | | | | | | | |
| | | | | Prepared: 04/25/24 10:28 Analyzed: 05/07/24 16:59 | | | | | | |
| N-Nitrosodimethylamine | 23.2 | 8 | ug/L | 21.4 | | 108 | 36-138 | 23.3 | 30 | |
| Methyl Methanesulfonate | 18.4 | 8 | ug/L | 25.0 | | 73.4 | 22-114 | 8.87 | 23 | |
| N-Nitrosodiethylamine | 41.8 | 8 | ug/L | 50.0 | | 83.6 | 52-114 | 2.13 | 18 | |
| N-Nitrosomethylethylamine | 47.6 | 8 | ug/L | 50.0 | | 95.3 | 36-120 | 12.4 | 22 | |
| Ethyl Methanesulfonate | 19.9 | 8 | ug/L | 25.0 | | 79.8 | 46-110 | 4.09 | 24 | |
| Phenol | 22.0 | 8 | ug/L | 21.4 | | 103 | 50-112 | 7.56 | 28 | |
| Bis(2-Chloroethyl) Ether | 21.7 | 8 | ug/L | 21.4 | | 101 | 39-151 | 17.0 | 30 | |
| 2-Chlorophenol | 21.8 | 8 | ug/L | 21.4 | | 102 | 56-116 | 5.55 | 22 | |
| Benzyl Alcohol | 23.0 | 8 | ug/L | 21.4 | | 107 | 13-158 | 13.5 | 30 | |
| 2-Methylphenol (o-Cresol) | 22.8 | 8 | ug/L | 21.4 | | 107 | 53-131 | 4.34 | 25 | |
| Bis[2-Chloroisopropyl]ether | 21.7 | 8 | ug/L | 21.4 | | 101 | 50-121 | 3.80 | 25 | |
| n-Nitroso-di-n-propylamine | 23.0 | 8 | ug/L | 21.4 | | 108 | 50-138 | 0.871 | 30 | |
| N-Nitrosopyrrolidine | 41.5 | 8 | ug/L | 50.0 | | 82.9 | 31-118 | 1.44 | 30 | |
| Acetophenone | 19.9 | 8 | ug/L | 25.0 | | 79.5 | 45-104 | 2.14 | 30 | |
| o-Toluidine | 15.7 | 8 | ug/L | 50.0 | | 31.5 | 10-163 | 35.8 | 30 | QR-02 |
| (3 & 4)-Methylphenol | 22.6 | 8 | ug/L | 21.4 | | 106 | 30-164 | 3.61 | 30 | |
| Hexachloroethane | 14.8 | 8 | ug/L | 21.4 | | 69.1 | 10-110 | 17.3 | 37 | |
| Nitrobenzene | 24.5 | 8 | ug/L | 21.4 | | 115 | 47-134 | 5.49 | 28 | |
| N-Nitrosopiperidine | 42.4 | 8 | ug/L | 50.0 | | 84.7 | 51-122 | 1.26 | 30 | |
| Isophorone | 23.9 | 8 | ug/L | 21.4 | | 112 | 54-128 | 0.546 | 22 | |
| 2-Nitrophenol | 25.1 | 8 | ug/L | 21.4 | | 117 | 54-117 | 6.03 | 21 | QS-02 |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|----|-------|---|---------------|------|-------------|-------|-----------|-------|
| Batch 1HD1525 - 3520C BNA Cont Liq - EPA 8270C | | | | | | | | | | |
| LCS Dup (1HD1525-BSD1) | | | | | | | | | | |
| | | | | Prepared: 04/25/24 10:28 Analyzed: 05/07/24 16:59 | | | | | | |
| 2,4-Dimethylphenol | 23.5 | 8 | ug/L | 21.4 | | 110 | 52-118 | 2.20 | 23 | |
| Bis (2-Chloroethoxy) Methane | 21.6 | 8 | ug/L | 21.4 | | 101 | 13-132 | 0.139 | 30 | |
| 2,4-Dichlorophenol | 23.2 | 8 | ug/L | 21.4 | | 109 | 58-114 | 3.01 | 20 | |
| Naphthalene | 21.1 | 8 | ug/L | 21.4 | | 98.4 | 37-116 | 7.33 | 17 | |
| 4-Chloroaniline | <8 | 8 | ug/L | 21.4 | | 17.8 | 10-198 | 68.6 | 30 | QR-02 |
| 2,6-Dichlorophenol | 20.7 | 8 | ug/L | 25.0 | | 82.9 | 52-129 | 2.10 | 16 | |
| Hexachloropropene | <8 | 8 | ug/L | 25.0 | | 29.3 | 14-110 | 10.0 | 29 | |
| Hexachlorobutadiene | 15.0 | 8 | ug/L | 21.4 | | 69.9 | 14-110 | 11.8 | 29 | |
| N-Nitrosodi-n-butylamine | 42.0 | 8 | ug/L | 50.0 | | 84.1 | 40-135 | 20.6 | 23 | |
| 4-Chloro-3-methylphenol | 24.0 | 8 | ug/L | 21.4 | | 112 | 57-136 | 0.585 | 18 | |
| 2-Methylnaphthalene | 21.3 | 8 | ug/L | 21.4 | | 99.4 | 44-111 | 4.86 | 20 | |
| Isosafrole | 20.3 | 8 | ug/L | 25.0 | | 81.2 | 49-107 | 10.2 | 12 | |
| 1,2,4,5-Tetrachlorobenzene | 15.4 | 8 | ug/L | 25.0 | | 61.4 | 42-110 | 10.2 | 30 | |
| Hexachlorocyclopentadiene | 12.9 | 8 | ug/L | 21.4 | | 60.1 | 11-110 | 13.2 | 29 | |
| 2,4,6-Trichlorophenol | 23.8 | 8 | ug/L | 21.4 | | 111 | 55-120 | 7.38 | 15 | |
| 2,4,5-Trichlorophenol | 24.7 | 8 | ug/L | 21.4 | | 115 | 55-121 | 0.936 | 16 | |
| Safrole | 19.2 | 8 | ug/L | 25.0 | | 76.8 | 40-118 | 2.64 | 30 | |
| 2-Chloronaphthalene | 14.5 | 8 | ug/L | 21.4 | | 67.7 | 47-127 | 2.46 | 17 | |
| 2-Nitroaniline | 26.3 | 8 | ug/L | 21.4 | | 123 | 36-143 | 3.68 | 30 | |
| 1,4-Naphthoquinone | 32.6 | 8 | ug/L | 25.0 | | 130 | 43-152 | 34.7 | 30 | QR-02 |
| Dimethylphthalate | 24.2 | 8 | ug/L | 21.4 | | 113 | 59-128 | 0.453 | 15 | |
| 1,3-Dinitrobenzene | 26.7 | 8 | ug/L | 21.4 | | 125 | 63-125 | 7.58 | 14 | |
| 1,2-Dinitrobenzene | 25.3 | 8 | ug/L | 21.4 | | 118 | 63-123 | 4.40 | 18 | |
| 2,6-Dinitrotoluene | 24.0 | 8 | ug/L | 21.4 | | 112 | 60-127 | 0.754 | 13 | |
| Acenaphthylene | 22.7 | 8 | ug/L | 21.4 | | 106 | 49-113 | 2.82 | 23 | |
| 3-Nitroaniline | 10.9 | 8 | ug/L | 21.4 | | 50.9 | 10-162 | 37.9 | 30 | QR-02 |
| Acenaphthene | 22.9 | 8 | ug/L | 21.4 | | 107 | 50-119 | 3.79 | 16 | |
| 2,4-Dinitrophenol | 24.7 | 8 | ug/L | 21.4 | | 115 | 27-157 | 7.87 | 23 | |
| 4-Nitrophenol | 23.5 | 8 | ug/L | 21.4 | | 110 | 49-154 | 10.3 | 28 | |
| Dibenzofuran | 23.6 | 8 | ug/L | 21.4 | | 110 | 56-121 | 2.62 | 18 | |
| 2,4-Dinitrotoluene | 23.6 | 8 | ug/L | 21.4 | | 110 | 53-138 | 0.639 | 18 | |
| 2,3,4,6-Tetrachlorophenol | 24.2 | 8 | ug/L | 21.4 | | 113 | 47-132 | 2.43 | 29 | |
| Pentachlorobenzene | 19.8 | 8 | ug/L | 25.0 | | 79.3 | 41-125 | 4.49 | 22 | |
| 1-Naphthylamine | <8 | 8 | ug/L | 50.0 | | | 10-152 | | 30 | QS-03 |
| 2-Naphthylamine | <8 | 8 | ug/L | 50.0 | | | 19-128 | | 30 | QS-03 |
| Diethyl Phthalate | 24.0 | 8 | ug/L | 21.4 | | 112 | 53-138 | 4.00 | 18 | |
| Fluorene | 23.5 | 8 | ug/L | 21.4 | | 110 | 54-125 | 0.256 | 14 | |
| 4-Chlorophenyl Phenyl Ether | 23.0 | 8 | ug/L | 21.4 | | 108 | 51-122 | 1.84 | 15 | |
| 4-Nitroaniline | 23.3 | 8 | ug/L | 21.4 | | 109 | 10-136 | 7.13 | 30 | |
| 5-Nitro-o-toluidine | 32.0 | 8 | ug/L | 50.0 | | 64.0 | 10-145 | 23.4 | 30 | |
| 4,6-Dinitro-2-methylphenol | 25.3 | 8 | ug/L | 21.4 | | 118 | 49-137 | 4.82 | 16 | |
| Diphenylamine | 22.6 | 8 | ug/L | 21.4 | | 106 | 35-151 | 3.64 | 30 | |

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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Base/Neutral/Acid Extractable Compounds | | | | | | | | | | |
| Batch 1HD1525 - 3520C BNA Cont Liq - EPA 8270C | | | | | | | | | | |

LCS Dup (1HD1525-BSD1) Prepared: 04/25/24 10:28 Analyzed: 05/07/24 16:59

| | | | | | | | | | | |
|----------------------------------|------|---|------|------|--|------|--------|--------|----|-------|
| Azobenzene | 24.6 | 8 | ug/L | 21.4 | | 115 | 16-156 | 8.52 | 30 | |
| Diallate | 23.7 | 8 | ug/L | 25.0 | | 94.8 | 54-132 | 6.72 | 25 | |
| 1,3,5-Trinitrobenzene | 24.6 | 8 | ug/L | 25.0 | | 98.6 | 57-173 | 9.03 | 30 | |
| Phenacetin | 22.5 | 8 | ug/L | 25.0 | | 90.0 | 55-121 | 1.19 | 30 | |
| 4-Bromophenyl Phenyl Ether | 24.5 | 8 | ug/L | 21.4 | | 115 | 53-122 | 6.66 | 16 | |
| Pentachlorophenol | 20.1 | 8 | ug/L | 21.4 | | 93.9 | 18-152 | 16.9 | 30 | |
| Pronamide | 20.5 | 8 | ug/L | 25.0 | | 82.0 | 42-122 | 0.981 | 30 | |
| Pentachloronitrobenzene (PCNB) | 23.2 | 8 | ug/L | 25.0 | | 93.0 | 50-128 | 0.0430 | 18 | |
| Phenanthrene | 25.4 | 8 | ug/L | 21.4 | | 118 | 59-131 | 0.0789 | 16 | |
| Anthracene | 24.7 | 8 | ug/L | 21.4 | | 115 | 59-127 | 1.73 | 16 | |
| Di-n-butyl Phthalate | 26.0 | 8 | ug/L | 21.4 | | 122 | 64-148 | 9.92 | 30 | |
| Fluoranthene | 25.2 | 8 | ug/L | 21.4 | | 118 | 62-132 | 3.85 | 16 | |
| Isodrin | 23.2 | 8 | ug/L | 25.0 | | 92.8 | 46-130 | 23.5 | 29 | |
| Chlorobenzilate | 23.0 | 8 | ug/L | 25.0 | | 92.0 | 48-150 | 6.14 | 30 | |
| Pyrene | 28.2 | 8 | ug/L | 21.4 | | 132 | 58-135 | 7.43 | 18 | |
| p-(Dimethylamino)azobenzene | 45.0 | 8 | ug/L | 50.0 | | 90.0 | 28-146 | 3.02 | 30 | |
| Butyl Benzyl Phthalate | 26.6 | 8 | ug/L | 21.4 | | 124 | 52-150 | 3.91 | 30 | |
| Benzo(a)anthracene | 24.8 | 8 | ug/L | 21.4 | | 116 | 58-131 | 2.03 | 30 | |
| Chrysene | 25.6 | 8 | ug/L | 21.4 | | 120 | 59-131 | 1.86 | 30 | |
| Bis(2-Ethylhexyl) Phthalate | 28.8 | 6 | ug/L | 21.4 | | 135 | 33-184 | 2.50 | 30 | |
| Kepon | <8 | 8 | ug/L | 25.0 | | | 10-134 | | 30 | QR-02 |
| 2-Acetylaminofluorene | 53.0 | 8 | ug/L | 50.0 | | 106 | 47-166 | 2.12 | 30 | |
| Di-n-octyl Phthalate | 28.4 | 8 | ug/L | 21.4 | | 133 | 48-162 | 3.51 | 30 | |
| Benzo(b)Fluoranthene | 25.3 | 8 | ug/L | 21.4 | | 118 | 50-146 | 0.715 | 30 | |
| 7,12-Dimethylbenz [a] anthracene | 20.7 | 8 | ug/L | 25.0 | | 82.8 | 22-155 | 1.07 | 30 | |
| Benzo(k)Fluoranthene | 25.8 | 8 | ug/L | 21.4 | | 121 | 54-144 | 0.544 | 30 | |
| Benzo(a)Pyrene | 24.7 | 8 | ug/L | 21.4 | | 116 | 39-148 | 1.38 | 30 | |
| 3-Methylcholanthrene | 18.9 | 8 | ug/L | 25.0 | | 75.5 | 34-118 | 1.00 | 30 | |
| Dibenzo(a,h)anthracene | 25.9 | 8 | ug/L | 21.4 | | 121 | 46-153 | 0.116 | 30 | |
| Indeno(1,2,3-cd)Pyrene | 25.8 | 8 | ug/L | 21.4 | | 121 | 48-152 | 0.309 | 30 | |
| Benzo(g,h,i)perylene | 26.0 | 8 | ug/L | 21.4 | | 122 | 47-161 | 1.53 | 30 | |

| | | | | | | | | | | |
|---------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Surrogate: 2-Fluorophenol | 23.8 | | ug/L | 29.6 | | 80.6 | 24-136 | | | |
| Surrogate: Phenol-d6 | 25.8 | | ug/L | 30.5 | | 84.5 | 15-140 | | | |
| Surrogate: Nitrobenzene-d5 | 29.1 | | ug/L | 30.0 | | 96.8 | 38-115 | | | |
| Surrogate: 2-Fluorobiphenyl | 27.6 | | ug/L | 28.8 | | 96.0 | 33-110 | | | |
| Surrogate: 2,4,6-Tribromophenol | 27.4 | | ug/L | 29.7 | | 92.0 | 15-139 | | | |
| Surrogate: Terphenyl-d14 | 33.8 | | ug/L | 28.8 | | 117 | 30-142 | | | |

| Determination of | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Organophosphorus Insecticides | | | | | | | | | | |



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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Organophosphorus Insecticides | | | | | | | | | | |
| Batch 1HD1439 - 3510C NP/OC Sep Fnl - EPA 8141 | | | | | | | | | | |

| Blank (1HD1439-BLK1) | | | | | | | | | | |
|---|------|-----|------|--|--|--|--|--|--|--|
| Prepared: 04/24/24 10:56 Analyzed: 05/02/24 07:07 | | | | | | | | | | |
| O,O,O-Triethyl phosphorothioate | <0.4 | 0.4 | ug/L | | | | | | | |
| Thionazin | <0.4 | 0.4 | ug/L | | | | | | | |
| Phorate | <0.4 | 0.4 | ug/L | | | | | | | |
| Dimethoate | <0.4 | 0.4 | ug/L | | | | | | | |
| Disulfoton | <0.4 | 0.4 | ug/L | | | | | | | |
| Methyl Parathion | <0.4 | 0.4 | ug/L | | | | | | | |
| Parathion | <0.4 | 0.4 | ug/L | | | | | | | |
| Famphur | <0.4 | 0.4 | ug/L | | | | | | | |

Surrogate: 2-Nitro-m-xylene 5.50 ug/L 8.34 65.9 38-122

| LCS (1HD1439-BS1) | | | | | | | | | | |
|---|------|-----|------|------|--|------|--------|--|--|--|
| Prepared: 04/24/24 10:56 Analyzed: 05/02/24 08:05 | | | | | | | | | | |
| O,O,O-Triethyl phosphorothioate | 3.30 | 0.4 | ug/L | 4.02 | | 81.9 | 42-115 | | | |
| Thionazin | 3.45 | 0.4 | ug/L | 4.03 | | 85.5 | 28-118 | | | |
| Phorate | 3.52 | 0.4 | ug/L | 4.03 | | 87.3 | 18-159 | | | |
| Dimethoate | 3.87 | 0.4 | ug/L | 4.03 | | 96.1 | 43-155 | | | |
| Disulfoton | 3.11 | 0.4 | ug/L | 4.03 | | 77.2 | 37-126 | | | |
| Methyl Parathion | 3.48 | 0.4 | ug/L | 4.04 | | 86.1 | 28-145 | | | |
| Parathion | 3.21 | 0.4 | ug/L | 4.00 | | 80.2 | 52-121 | | | |
| Famphur | 3.60 | 0.4 | ug/L | 4.02 | | 89.4 | 44-144 | | | |

Surrogate: 2-Nitro-m-xylene 6.84 ug/L 8.34 82.1 38-122

| LCS Dup (1HD1439-BSD1) | | | | | | | | | | |
|---|------|-----|------|------|--|------|--------|------|----|--|
| Prepared: 04/24/24 10:56 Analyzed: 05/02/24 09:03 | | | | | | | | | | |
| O,O,O-Triethyl phosphorothioate | 3.44 | 0.4 | ug/L | 4.02 | | 85.5 | 42-115 | 4.31 | 30 | |
| Thionazin | 3.72 | 0.4 | ug/L | 4.03 | | 92.3 | 28-118 | 7.67 | 30 | |
| Phorate | 3.77 | 0.4 | ug/L | 4.03 | | 93.5 | 18-159 | 6.86 | 30 | |
| Dimethoate | 3.42 | 0.4 | ug/L | 4.03 | | 84.8 | 43-155 | 12.5 | 22 | |
| Disulfoton | 3.47 | 0.4 | ug/L | 4.03 | | 86.1 | 37-126 | 10.9 | 30 | |
| Methyl Parathion | 3.86 | 0.4 | ug/L | 4.04 | | 95.5 | 28-145 | 10.4 | 28 | |
| Parathion | 3.53 | 0.4 | ug/L | 4.00 | | 88.2 | 52-121 | 9.50 | 26 | |
| Famphur | 3.83 | 0.4 | ug/L | 4.02 | | 95.3 | 44-144 | 6.33 | 28 | |

Surrogate: 2-Nitro-m-xylene 7.50 ug/L 8.34 89.9 38-122

| Determination of | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Chlorinated Phenoxy Herbicides | | | | | | | | | | |
| Batch 1HD1578 - EPA 8151A - EPA 8151A | | | | | | | | | | |

| Blank (1HD1578-BLK1) | | | | | | | | | | |
|---|------|-----|------|--|--|--|--|--|--|--|
| Prepared: 04/25/24 08:46 Analyzed: 04/30/24 22:12 | | | | | | | | | | |
| 2,4-D | <2.0 | 2.0 | ug/L | | | | | | | |
| 2,4,5-TP (Silvex) | <0.5 | 0.5 | ug/L | | | | | | | |
| 2,4,5-T | <0.5 | 0.5 | ug/L | | | | | | | |
| Dinoseb | <0.5 | 0.5 | ug/L | | | | | | | |



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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Chlorinated Phenoxy Herbicides | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1HD1578 - EPA 8151A - EPA 8151A

Blank (1HD1578-BLK1) Prepared: 04/25/24 08:46 Analyzed: 04/30/24 22:12

Surrogate: 2,5-Dichlorobenzoic Acid 1.80 ug/L 2.02 88.9 31-116

LCS (1HD1578-BS1) Prepared: 04/25/24 08:46 Analyzed: 04/30/24 22:44

| | | | | | | | | | | |
|-------------------|------|-----|------|-------|--|------|--------|--|--|--|
| 2,4-D | <2.0 | 2.0 | ug/L | 1.15 | | 88.3 | 16-161 | | | |
| 2,4,5-TP (Silvex) | 0.56 | 0.5 | ug/L | 0.575 | | 96.5 | 35-141 | | | |
| 2,4,5-T | 0.60 | 0.5 | ug/L | 0.575 | | 104 | 54-149 | | | |
| Dinoseb | <0.5 | 0.5 | ug/L | 1.15 | | 36.5 | 10-133 | | | |

Surrogate: 2,5-Dichlorobenzoic Acid 2.06 ug/L 2.02 102 31-116

LCS Dup (1HD1578-BSD1) Prepared: 04/25/24 08:46 Analyzed: 04/30/24 23:17

| | | | | | | | | | | |
|-------------------|------|-----|------|-------|--|------|--------|-------|----|-------|
| 2,4-D | <2.0 | 2.0 | ug/L | 1.15 | | 90.4 | 16-161 | 2.43 | 30 | |
| 2,4,5-TP (Silvex) | 0.56 | 0.5 | ug/L | 0.575 | | 98.3 | 35-141 | 1.79 | 30 | |
| 2,4,5-T | 0.60 | 0.5 | ug/L | 0.575 | | 103 | 54-149 | 0.837 | 30 | |
| Dinoseb | 0.66 | 0.5 | ug/L | 1.15 | | 57.8 | 10-133 | 45.2 | 30 | QR-02 |

Surrogate: 2,5-Dichlorobenzoic Acid 2.10 ug/L 2.02 104 31-116

| Determination of Organochlorine Insecticides & Metabolites | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|--|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1HD1434 - 3520C NP/OC Cont Liq - EPA 8081

Blank (1HD1434-BLK1) Prepared: 04/24/24 10:49 Analyzed: 05/01/24 07:25

| | | | | | | | | | | |
|---------------------|-------|------|------|--|--|--|--|--|--|--|
| Alpha-BHC | <0.05 | 0.05 | ug/L | | | | | | | |
| Gamma-BHC [Lindane] | <0.05 | 0.05 | ug/L | | | | | | | |
| Beta-BHC | <0.05 | 0.05 | ug/L | | | | | | | |
| Heptachlor | <0.05 | 0.05 | ug/L | | | | | | | |
| Delta-BHC | <0.05 | 0.05 | ug/L | | | | | | | |
| Aldrin | <0.05 | 0.05 | ug/L | | | | | | | |
| Heptachlor Epoxide | <0.05 | 0.05 | ug/L | | | | | | | |
| Endosulfan I | <0.05 | 0.05 | ug/L | | | | | | | |
| 4,4'-DDE | <0.05 | 0.05 | ug/L | | | | | | | |
| Dieldrin | <0.05 | 0.05 | ug/L | | | | | | | |
| Endrin | <0.05 | 0.05 | ug/L | | | | | | | |
| 4,4'-DDD | <0.05 | 0.05 | ug/L | | | | | | | |
| Endosulfan II | <0.05 | 0.05 | ug/L | | | | | | | |
| 4,4'-DDT | <0.05 | 0.05 | ug/L | | | | | | | |
| Endrin Aldehyde | <0.05 | 0.05 | ug/L | | | | | | | |
| Endosulfan Sulfate | <0.05 | 0.05 | ug/L | | | | | | | |
| Methoxychlor | <0.05 | 0.05 | ug/L | | | | | | | |
| Chlordane | <0.10 | 0.10 | ug/L | | | | | | | |
| Toxaphene | <0.20 | 0.20 | ug/L | | | | | | | |
| Hexachlorobenzene | <0.05 | 0.05 | ug/L | | | | | | | |



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| Determination of | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| Determination of Organochlorine Insecticides & Metabolites | | | | | | | | | | |
| Batch 1HD1434 - 3520C NP/OC Cont Liq - EPA 8081 | | | | | | | | | | |
| Blank (1HD1434-BLK1) | | | | | | | | | | |
| Prepared: 04/24/24 10:49 Analyzed: 05/01/24 07:25 | | | | | | | | | | |
| <i>Surrogate: Tetrachloro-m-xylene</i> | 0.508 | | ug/L | 0.600 | | 84.6 | 10-121 | | | |
| LCS (1HD1434-BS1) | | | | | | | | | | |
| Prepared: 04/24/24 10:49 Analyzed: 05/01/24 07:40 | | | | | | | | | | |
| Alpha-BHC | 0.208 | 0.05 | ug/L | 0.250 | | 83.0 | 33-123 | | | |
| Gamma-BHC [Lindane] | 0.207 | 0.05 | ug/L | 0.250 | | 82.8 | 34-120 | | | |
| Beta-BHC | 0.199 | 0.05 | ug/L | 0.250 | | 79.6 | 33-125 | | | |
| Heptachlor | 0.240 | 0.05 | ug/L | 0.250 | | 95.8 | 32-117 | | | |
| Delta-BHC | 0.235 | 0.05 | ug/L | 0.250 | | 93.9 | 24-140 | | | |
| Aldrin | 0.193 | 0.05 | ug/L | 0.250 | | 77.1 | 29-122 | | | |
| Heptachlor Epoxide | 0.208 | 0.05 | ug/L | 0.250 | | 83.0 | 37-137 | | | |
| Endosulfan I | 0.227 | 0.05 | ug/L | 0.250 | | 90.6 | 27-141 | | | |
| 4,4'-DDE | 0.234 | 0.05 | ug/L | 0.250 | | 93.7 | 38-147 | | | |
| Dieldrin | 0.212 | 0.05 | ug/L | 0.250 | | 84.7 | 32-137 | | | |
| Endrin | 0.318 | 0.05 | ug/L | 0.250 | | 127 | 25-142 | | | |
| 4,4'-DDD | 0.275 | 0.05 | ug/L | 0.250 | | 110 | 43-146 | | | |
| Endosulfan II | 0.232 | 0.05 | ug/L | 0.250 | | 92.8 | 36-140 | | | |
| 4,4'-DDT | 0.216 | 0.05 | ug/L | 0.250 | | 86.6 | 39-140 | | | |
| Endrin Aldehyde | 0.211 | 0.05 | ug/L | 0.250 | | 84.6 | 17-150 | | | |
| Endosulfan Sulfate | 0.234 | 0.05 | ug/L | 0.250 | | 93.8 | 41-135 | | | |
| Methoxychlor | 0.289 | 0.05 | ug/L | 0.250 | | 115 | 40-148 | | | |
| Surrogate: Tetrachloro-m-xylene | | | | | | | | | | |
| | 0.498 | | ug/L | 0.600 | | 83.0 | 10-121 | | | |
| LCS Dup (1HD1434-BSD1) | | | | | | | | | | |
| Prepared: 04/24/24 10:49 Analyzed: 05/01/24 07:54 | | | | | | | | | | |
| Alpha-BHC | 0.224 | 0.05 | ug/L | 0.250 | | 89.5 | 33-123 | 7.50 | 30 | |
| Gamma-BHC [Lindane] | 0.222 | 0.05 | ug/L | 0.250 | | 88.7 | 34-120 | 6.88 | 30 | |
| Beta-BHC | 0.216 | 0.05 | ug/L | 0.250 | | 86.2 | 33-125 | 7.95 | 30 | |
| Heptachlor | 0.260 | 0.05 | ug/L | 0.250 | | 104 | 32-117 | 8.28 | 30 | |
| Delta-BHC | 0.253 | 0.05 | ug/L | 0.250 | | 101 | 24-140 | 7.50 | 30 | |
| Aldrin | 0.207 | 0.05 | ug/L | 0.250 | | 82.6 | 29-122 | 6.86 | 30 | |
| Heptachlor Epoxide | 0.225 | 0.05 | ug/L | 0.250 | | 90.0 | 37-137 | 8.06 | 30 | |
| Endosulfan I | 0.245 | 0.05 | ug/L | 0.250 | | 98.2 | 27-141 | 8.02 | 30 | |
| 4,4'-DDE | 0.252 | 0.05 | ug/L | 0.250 | | 101 | 38-147 | 7.22 | 30 | |
| Dieldrin | 0.230 | 0.05 | ug/L | 0.250 | | 92.0 | 32-137 | 8.23 | 30 | |
| Endrin | 0.345 | 0.05 | ug/L | 0.250 | | 138 | 25-142 | 8.35 | 30 | |
| 4,4'-DDD | 0.301 | 0.05 | ug/L | 0.250 | | 121 | 43-146 | 9.24 | 30 | |
| Endosulfan II | 0.251 | 0.05 | ug/L | 0.250 | | 100 | 36-140 | 7.83 | 30 | |
| 4,4'-DDT | 0.234 | 0.05 | ug/L | 0.250 | | 93.6 | 39-140 | 7.86 | 30 | |
| Endrin Aldehyde | 0.234 | 0.05 | ug/L | 0.250 | | 93.5 | 17-150 | 10.0 | 30 | |
| Endosulfan Sulfate | 0.259 | 0.05 | ug/L | 0.250 | | 103 | 41-135 | 9.82 | 30 | |
| Methoxychlor | 0.312 | 0.05 | ug/L | 0.250 | | 125 | 40-148 | 7.73 | 30 | |
| Surrogate: Tetrachloro-m-xylene | | | | | | | | | | |
| | 0.517 | | ug/L | 0.600 | | 86.2 | 10-121 | | | |

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| Determination of | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| Determination of Polychlorinated Biphenyls (PCB) | | | | | | | | | | |
| Batch 1HD1436 - 3510C NP/OC Sep Fnl - EPA 8082 | | | | | | | | | | |
| Blank (1HD1436-BLK1) | | | | | | | | | | |
| Prepared: 04/24/24 10:53 Analyzed: 05/01/24 07:25 | | | | | | | | | | |
| Arochlor 1016 | <0.20 | 0.20 | ug/L | | | | | | | |
| Arochlor 1221 | <0.20 | 0.20 | ug/L | | | | | | | |
| Arochlor 1232 | <0.20 | 0.20 | ug/L | | | | | | | |
| Arochlor 1242 | <0.20 | 0.20 | ug/L | | | | | | | |
| Arochlor 1248 | <0.20 | 0.20 | ug/L | | | | | | | |
| Arochlor 1254 | <0.20 | 0.20 | ug/L | | | | | | | |
| Arochlor 1260 | <0.20 | 0.20 | ug/L | | | | | | | |
| Surrogate: Tetrachloro-m-xylene | 0.547 | | ug/L | 0.600 | | 91.1 | 38-121 | | | |
| Surrogate: Decachlorobiphenyl | 0.421 | | ug/L | 0.600 | | 70.1 | 25-119 | | | |
| LCS (1HD1436-BS1) | | | | | | | | | | |
| Prepared: 04/24/24 10:53 Analyzed: 05/01/24 08:09 | | | | | | | | | | |
| Arochlor 1016 | 1.897 | 0.20 | ug/L | 2.60 | | 73.0 | 25-126 | | | |
| Arochlor 1260 | 2.747 | 0.20 | ug/L | 2.60 | | 106 | 29-142 | | | |
| Surrogate: Tetrachloro-m-xylene | 0.544 | | ug/L | 0.600 | | 90.7 | 38-121 | | | |
| Surrogate: Decachlorobiphenyl | 0.603 | | ug/L | 0.600 | | 101 | 25-119 | | | |
| LCS Dup (1HD1436-BSD1) | | | | | | | | | | |
| Prepared: 04/24/24 10:53 Analyzed: 05/01/24 08:45 | | | | | | | | | | |
| Arochlor 1016 | 1.960 | 0.20 | ug/L | 2.60 | | 75.4 | 25-126 | 3.28 | 30 | |
| Arochlor 1260 | 2.872 | 0.20 | ug/L | 2.60 | | 110 | 29-142 | 4.46 | 30 | |
| Surrogate: Tetrachloro-m-xylene | 0.537 | | ug/L | 0.600 | | 89.5 | 38-121 | | | |
| Surrogate: Decachlorobiphenyl | 0.518 | | ug/L | 0.600 | | 86.3 | 25-119 | | | |
| Determination of Conventional Chemistry Parameters | | | | | | | | | | |
| Batch 1HD1529 - Wet Chem Preparation - EPA 376.2 | | | | | | | | | | |
| Blank (1HD1529-BLK1) | | | | | | | | | | |
| Prepared: 04/25/24 10:55 Analyzed: 04/25/24 13:15 | | | | | | | | | | |
| Sulfide, total | <0.10 | 0.10 | mg/L | | | | | | | |
| LCS (1HD1529-BS1) | | | | | | | | | | |
| Prepared: 04/25/24 10:55 Analyzed: 04/25/24 13:15 | | | | | | | | | | |
| Sulfide, total | 0.315 | 0.10 | mg/L | 0.31 | | 100 | 59-110 | | | |
| Matrix Spike (1HD1529-MS1) | | | | | | | | | | |
| Source: 1HD1864-02 Prepared: 04/25/24 10:55 Analyzed: 04/25/24 13:15 | | | | | | | | | | |
| Sulfide, total | 0.313 | 0.15 | mg/L | 0.47 | ND | 66.2 | 50-150 | | | |
| Matrix Spike Dup (1HD1529-MSD1) | | | | | | | | | | |
| Source: 1HD1864-02 Prepared: 04/25/24 10:55 Analyzed: 04/25/24 13:15 | | | | | | | | | | |
| Sulfide, total | 0.368 | 0.15 | mg/L | 0.47 | ND | 77.9 | 50-150 | 16.1 | 30 | |
| Batch 1HD1564 - Wet Chem Preparation - EPA 9010B | | | | | | | | | | |
| Blank (1HD1564-BLK1) | | | | | | | | | | |
| Prepared: 04/25/24 16:28 Analyzed: 04/26/24 14:44 | | | | | | | | | | |
| Cyanide, total | <0.005 | 0.005 | mg/L | | | | | | | |
| LCS (1HD1564-BS1) | | | | | | | | | | |
| Prepared: 04/25/24 16:28 Analyzed: 04/26/24 14:44 | | | | | | | | | | |



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| Determination of Conventional Chemistry Parameters | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|--|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1HD1564 - Wet Chem Preparation - EPA 9010B

| LCS (1HD1564-BS1) Prepared: 04/25/24 16:28 Analyzed: 04/26/24 14:44 | | | | | | | | | | |
|--|--------|-------|------|--------|----|------|--------|------|----|--|
| Cyanide, total | 0.0274 | 0.005 | mg/L | 0.0300 | | 91.5 | 66-136 | | | |
| Matrix Spike (1HD1564-MS1) Source: 1HD1596-02 Prepared: 04/25/24 16:28 Analyzed: 04/26/24 14:44 | | | | | | | | | | |
| Cyanide, total | 0.0300 | 0.005 | mg/L | 0.0300 | ND | 100 | 59-153 | | | |
| Matrix Spike Dup (1HD1564-MSD1) Source: 1HD1596-02 Prepared: 04/25/24 16:28 Analyzed: 04/26/24 14:44 | | | | | | | | | | |
| Cyanide, total | 0.0305 | 0.005 | mg/L | 0.0300 | ND | 102 | 59-153 | 1.49 | 30 | |

| Determination of Total Metals | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|-------------------------------|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1HD1622 - EPA 3005A Total Recoverable Metals - EPA 6020A

| Blank (1HD1622-BLK1) Prepared: 04/26/24 15:59 Analyzed: 04/29/24 19:27 | | | | | | | | | | |
|--|---------|--------|------|--|--|--|--|--|--|--|
| Antimony, total | <0.0020 | 0.0020 | mg/L | | | | | | | |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Barium, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | | | | | | | |
| Chromium, total | <0.0080 | 0.0080 | mg/L | | | | | | | |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | | | | | | | |
| Copper, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Lead, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Nickel, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Selenium, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Silver, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Thallium, total | <0.0020 | 0.0020 | mg/L | | | | | | | |
| Tin, total | <0.0200 | 0.0200 | mg/L | | | | | | | |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | | | | | | | |
| Zinc, total | <0.0200 | 0.0200 | mg/L | | | | | | | |

| LCS (1HD1622-BS1) Prepared: 04/26/24 15:59 Analyzed: 04/29/24 19:33 | | | | | | | | | | |
|---|--------|--------|------|-------|--|------|--------|--|--|--|
| Antimony, total | 0.0971 | 0.0020 | mg/L | 0.100 | | 97.1 | 80-120 | | | |
| Arsenic, total | 0.0968 | 0.0040 | mg/L | 0.100 | | 96.8 | 80-120 | | | |
| Barium, total | 0.105 | 0.0040 | mg/L | 0.100 | | 105 | 80-120 | | | |
| Beryllium, total | 0.0981 | 0.0040 | mg/L | 0.100 | | 98.1 | 80-120 | | | |
| Cadmium, total | 0.0960 | 0.0008 | mg/L | 0.100 | | 96.0 | 80-120 | | | |
| Chromium, total | 0.0943 | 0.0080 | mg/L | 0.100 | | 94.3 | 80-120 | | | |
| Cobalt, total | 0.0972 | 0.0004 | mg/L | 0.100 | | 97.2 | 80-120 | | | |
| Copper, total | 0.0953 | 0.0040 | mg/L | 0.100 | | 95.3 | 80-120 | | | |
| Lead, total | 0.0978 | 0.0040 | mg/L | 0.100 | | 97.8 | 80-120 | | | |
| Nickel, total | 0.0973 | 0.0040 | mg/L | 0.100 | | 97.3 | 80-120 | | | |
| Selenium, total | 0.0923 | 0.0040 | mg/L | 0.100 | | 92.3 | 80-120 | | | |
| Silver, total | 0.0983 | 0.0040 | mg/L | 0.100 | | 98.3 | 80-120 | | | |
| Thallium, total | 0.0967 | 0.0020 | mg/L | 0.100 | | 96.7 | 80-120 | | | |
| Tin, total | 0.0999 | 0.0200 | mg/L | 0.100 | | 99.9 | 80-120 | | | |



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| Determination of Total Metals | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------|---|-------------|---|------|-------------|-------|-----------|-------|
| Batch 1HD1622 - EPA 3005A Total Recoverable Metals - EPA 6020A | | | | | | | | | | |
| LCS (1HD1622-BS1) | | | Prepared: 04/26/24 15:59 Analyzed: 04/29/24 19:33 | | | | | | | |
| Vanadium, total | 0.102 | 0.0200 | mg/L | 0.100 | | 102 | 80-120 | | | |
| Zinc, total | 0.0938 | 0.0200 | mg/L | 0.100 | | 93.8 | 80-120 | | | |
| Matrix Spike (1HD1622-MS1) | | | Source: 1HD1719-02 | | Prepared: 04/26/24 15:59 Analyzed: 04/29/24 19:45 | | | | | |
| Antimony, total | 0.0620 | 0.0020 | mg/L | 0.100 | 0.0036 | 58.5 | 75-125 | | | QM-07 |
| Arsenic, total | 0.142 | 0.0040 | mg/L | 0.100 | 0.0514 | 90.8 | 75-125 | | | |
| Barium, total | 1.24 | 0.0040 | mg/L | 0.100 | 1.16 | 88.5 | 75-125 | | | |
| Beryllium, total | 0.0945 | 0.0040 | mg/L | 0.100 | 0.0022 | 92.3 | 75-125 | | | |
| Cadmium, total | 0.0944 | 0.0008 | mg/L | 0.100 | 0.0020 | 92.4 | 75-125 | | | |
| Chromium, total | 0.133 | 0.0080 | mg/L | 0.100 | 0.0410 | 91.6 | 75-125 | | | |
| Cobalt, total | 0.209 | 0.0004 | mg/L | 0.100 | 0.115 | 94.2 | 75-125 | | | |
| Copper, total | 0.142 | 0.0040 | mg/L | 0.100 | 0.0563 | 85.7 | 75-125 | | | |
| Lead, total | 0.161 | 0.0040 | mg/L | 0.100 | 0.0682 | 92.5 | 75-125 | | | |
| Nickel, total | 0.217 | 0.0040 | mg/L | 0.100 | 0.126 | 91.2 | 75-125 | | | |
| Selenium, total | 0.1152 | 0.0040 | mg/L | 0.100 | 0.0319 | 83.3 | 75-125 | | | |
| Silver, total | 0.0951 | 0.0040 | mg/L | 0.100 | ND | 95.1 | 75-125 | | | |
| Thallium, total | 0.0948 | 0.0020 | mg/L | 0.100 | 0.0011 | 93.8 | 75-125 | | | |
| Tin, total | 0.0951 | 0.0200 | mg/L | 0.100 | 0.0026 | 92.4 | 75-125 | | | |
| Vanadium, total | 0.209 | 0.0200 | mg/L | 0.100 | 0.116 | 93.3 | 75-125 | | | |
| Zinc, total | 0.286 | 0.0200 | mg/L | 0.100 | 0.201 | 85.2 | 75-125 | | | |
| Matrix Spike Dup (1HD1622-MSD1) | | | Source: 1HD1719-02 | | Prepared: 04/26/24 15:59 Analyzed: 04/29/24 20:04 | | | | | |
| Antimony, total | 0.0635 | 0.0020 | mg/L | 0.100 | 0.0036 | 59.9 | 75-125 | 2.32 | 20 | QM-07 |
| Arsenic, total | 0.144 | 0.0040 | mg/L | 0.100 | 0.0514 | 92.6 | 75-125 | 1.26 | 20 | |
| Barium, total | 1.27 | 0.0040 | mg/L | 0.100 | 1.16 | 110 | 75-125 | 1.68 | 20 | |
| Beryllium, total | 0.0957 | 0.0040 | mg/L | 0.100 | 0.0022 | 93.4 | 75-125 | 1.21 | 20 | |
| Cadmium, total | 0.0950 | 0.0008 | mg/L | 0.100 | 0.0020 | 93.0 | 75-125 | 0.692 | 20 | |
| Chromium, total | 0.135 | 0.0080 | mg/L | 0.100 | 0.0410 | 94.4 | 75-125 | 2.03 | 20 | |
| Cobalt, total | 0.211 | 0.0004 | mg/L | 0.100 | 0.115 | 95.6 | 75-125 | 0.670 | 20 | |
| Copper, total | 0.145 | 0.0040 | mg/L | 0.100 | 0.0563 | 88.5 | 75-125 | 1.98 | 20 | |
| Lead, total | 0.162 | 0.0040 | mg/L | 0.100 | 0.0682 | 94.2 | 75-125 | 1.10 | 20 | |
| Nickel, total | 0.218 | 0.0040 | mg/L | 0.100 | 0.126 | 91.9 | 75-125 | 0.326 | 20 | |
| Selenium, total | 0.1145 | 0.0040 | mg/L | 0.100 | 0.0319 | 82.6 | 75-125 | 0.630 | 20 | |
| Silver, total | 0.0971 | 0.0040 | mg/L | 0.100 | ND | 97.1 | 75-125 | 2.11 | 20 | |
| Thallium, total | 0.0972 | 0.0020 | mg/L | 0.100 | 0.0011 | 96.1 | 75-125 | 2.46 | 20 | |
| Tin, total | 0.0962 | 0.0200 | mg/L | 0.100 | 0.0026 | 93.5 | 75-125 | 1.14 | 20 | |
| Vanadium, total | 0.213 | 0.0200 | mg/L | 0.100 | 0.116 | 97.2 | 75-125 | 1.87 | 20 | |
| Zinc, total | 0.298 | 0.0200 | mg/L | 0.100 | 0.201 | 96.7 | 75-125 | 3.93 | 20 | |
| Post Spike (1HD1622-PS1) | | | Source: 1HD1719-02 | | Prepared: 04/26/24 15:59 Analyzed: 04/29/24 20:10 | | | | | |
| Antimony, total | 0.0818 | | mg/L | 0.0800 | 0.0035 | 97.9 | 80-120 | | | |
| Arsenic, total | 0.126 | | mg/L | 0.0800 | 0.0504 | 94.2 | 80-120 | | | |
| Barium, total | 1.24 | | mg/L | 0.0800 | 1.13 | 135 | 80-120 | | | PS-04 |
| Beryllium, total | 0.0767 | | mg/L | 0.0800 | 0.0022 | 93.1 | 80-120 | | | |
| Cadmium, total | 0.0762 | | mg/L | 0.0800 | 0.0020 | 92.7 | 80-120 | | | |
| Chromium, total | 0.117 | | mg/L | 0.0800 | 0.0402 | 95.5 | 80-120 | | | |



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CERTIFICATE OF ANALYSIS

1HD1864

| Determination of Total Metals | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch 1HD1622 - EPA 3005A Total Recoverable Metals - EPA 6020A | | | | | | | | | | |
| Post Spike (1HD1622-PS1) Source: 1HD1719-02 Prepared: 04/26/24 15:59 Analyzed: 04/29/24 20:10 | | | | | | | | | | |
| Cobalt, total | 0.194 | | mg/L | 0.0800 | 0.113 | 101 | 80-120 | | | |
| Copper, total | 0.127 | | mg/L | 0.0800 | 0.0552 | 89.7 | 80-120 | | | |
| Lead, total | 0.143 | | mg/L | 0.0800 | 0.0668 | 94.6 | 80-120 | | | |
| Nickel, total | 0.202 | | mg/L | 0.0800 | 0.124 | 97.9 | 80-120 | | | |
| Selenium, total | 0.1011 | | mg/L | 0.0800 | 0.0313 | 87.3 | 80-120 | | | |
| Silver, total | 0.0769 | | mg/L | 0.0800 | 0.0003 | 95.8 | 80-120 | | | |
| Thallium, total | 0.0772 | | mg/L | 0.0800 | 0.0010 | 95.2 | 80-120 | | | |
| Tin, total | 0.0824 | | mg/L | 0.0800 | 0.0026 | 99.8 | 75-125 | | | |
| Vanadium, total | 0.193 | | mg/L | 0.0800 | 0.114 | 99.7 | 80-120 | | | |
| Zinc, total | 0.271 | | mg/L | 0.0800 | 0.197 | 92.5 | 80-120 | | | |

Batch 1HD1756 - EPA 7470A Hg Water - EPA 7470A

| | | | | | | | | | | |
|---|----------|---------|------|---------|----|-----|--------|------|----|--|
| Blank (1HD1756-BLK1) Prepared: 04/30/24 14:12 Analyzed: 05/01/24 12:07 | | | | | | | | | | |
| Mercury, total | <0.00050 | 0.00050 | mg/L | | | | | | | |
| LCS (1HD1756-BS1) Prepared: 04/30/24 14:12 Analyzed: 05/01/24 12:09 | | | | | | | | | | |
| Mercury, total | 0.00254 | 0.00050 | mg/L | 0.00250 | | 102 | 80-120 | | | |
| Matrix Spike (1HD1756-MS1) Source: 1HD0316-01 Prepared: 04/30/24 14:12 Analyzed: 05/01/24 12:13 | | | | | | | | | | |
| Mercury, total | 0.00255 | 0.00050 | mg/L | 0.00250 | ND | 102 | 75-125 | | | |
| Matrix Spike Dup (1HD1756-MSD1) Source: 1HD0316-01 Prepared: 04/30/24 14:12 Analyzed: 05/01/24 12:16 | | | | | | | | | | |
| Mercury, total | 0.00251 | 0.00050 | mg/L | 0.00250 | ND | 101 | 75-125 | 1.65 | 20 | |

Definitions

- PS-04:** The post spike recovery exceeded acceptance limits. However, all other QC was acceptable.
- QB-02:** The method blank contains analyte at a concentration above the MRL; however, sample concentration was less than the MRL or less than the applicable action level.
- QM-05:** The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- QM-07:** The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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-02:** The spike recovery for this QC sample exceeded established acceptance limits. However, all samples were below the reporting and/or regulatory limit so the data is acceptable.
- QS-03:** The blank spike recovery was below established acceptance limits.
- RL:** Reporting Limit
- RPD:** Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 1.1°C



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1864

Cooler Inspection Checklist

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

Report Comments

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

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
05/13/24 14:39



SITE INFORMATION

Sampler: TODD WHIPPLE

Project: Audubon Co. - New Regs
6050

REPORT TO

Todd Whipple
HLW Engineering
PO Box 314
Story City, IA 50246

INVOICE TO

Tami Anderson
Audubon County Landfill
1001 215th St
Audubon, IA 50025

SPECIAL INSTRUCTIONS

None

Turn Around Time
 Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1HD1864

Temperature 1.1

Turn-Cooler: No

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

| Number | Sample Identification / Client ID | Matrix | Sample Type | Date | Time | Number of Containers | Analyses | Lab Sample Number |
|--------|-----------------------------------|--------|-------------|----------------|--------------|----------------------|---|-------------------|
| -001 | MW-90-4 | Water | GRAB | <u>4/18/24</u> | <u>15:09</u> | <u>7</u> | Indfill-app1-voc-group Indfill-app1-metals-6020 | <u>01</u> |
| -001 | MW-90-7 | Water | GRAB | <u>4/18/24</u> | <u>15:27</u> | <u>17</u> | Indfill-app2-inorg-6020 Indfill-app2-org | <u>02</u> |
| -001 | MW-90-14 | Water | GRAB | <u>4/18/24</u> | <u>16:25</u> | <u>7</u> | Indfill-app1-voc-group Indfill-app1-metals-6020 | <u>03</u> |
| -001 | MW-90-17 | Water | GRAB | <u>4/18/24</u> | <u>16:58</u> | <u>7</u> | Indfill-app1-voc-group Indfill-app1-metals-6020 | <u>04</u> |
| -001 | MW-91-19 | Water | GRAB | <u>4/18/24</u> | <u>16:00</u> | <u>17</u> | Indfill-app2-inorg-6020 Indfill-app2-org | <u>05</u> |
| -001 | MW-91-20 | Water | GRAB | <u>4/18/24</u> | <u>16:39</u> | <u>7</u> | Indfill-app1-voc-group Indfill-app1-metals-6020 | <u>06</u> |
| -001 | SW-3 | Water | GRAB | <u>4/18/24</u> | <u>17:20</u> | <u>7</u> | Indfill-app1-voc-group Indfill-app1-metals-6020 | <u>07</u> |

Relinquished By [Signature] Date/Time 4/19/24

Relinquished By [Signature] Date/Time 4/19/24 11:08

Received By _____ Date/Time _____

Received for Lab By _____ Date/Time _____

Remarks:



SITE INFORMATION

Sampler: TODD WHIPPLE

Project: Audubon Co. - New Regs
6050

REPORT TO

Todd Whipple
 HLW Engineering
 PO Box 314
 Story City, IA 50246

INVOICE 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 1HD1864

Temperature 1.1

Turn-Cooler: No

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

| Number | Sample Identification / Client ID | Matrix | Sample Type | Date | Time | Number of Containers | Analyses | Lab Sample Number |
|--------|-----------------------------------|--------|-------------|----------------|----------|----------------------|--|-------------------|
| -001 | Duplicate | Water | GRAB | <u>4/18/24</u> | <u>✓</u> | <u>1</u> | Indfil-app1-metals-6020 Indfil-app1-metals-6020 | <u>08</u> |

Todd Whipple 4/19/24
 Relinquished By Date/Time

Shelby 4/19/24 11:08
 Relinquished By Date/Time
 Received for Lab By Date/Time

Remarks:

Received By Date/Time



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

Project Description

6050

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Tisdale

Customer Relationship Specialist

Friday, October 25, 2024

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

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

Microbac Laboratories, Inc.

600 East 17th Street South | Newton, IA 50208 | 641-792-8451 p | www.microbac.com



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

HLW Engineering

Project Name: 6050

Todd Whipple
204 West Broad St
Story City, IA 50248

Project / PO Number: N/A
Received: 10/16/2024
Reported: 10/25/2024

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 | 1HJ1340-01 | Aqueous | GRAB | | 10/15/24 10:23 | 10/16/24 10:26 |
| MW-90-7 | 1HJ1340-02 | Aqueous | GRAB | | 10/15/24 10:55 | 10/16/24 10:26 |
| MW-90-14 | 1HJ1340-03 | Aqueous | GRAB | | 10/15/24 09:45 | 10/16/24 10:26 |
| MW-90-17 | 1HJ1340-04 | Aqueous | GRAB | | 10/15/24 09:14 | 10/16/24 10:26 |
| MW-91-19 | 1HJ1340-05 | Aqueous | GRAB | | 10/15/24 10:11 | 10/16/24 10:26 |
| MW-91-20 | 1HJ1340-06 | Aqueous | GRAB | | 10/15/24 09:27 | 10/16/24 10:26 |
| SW-3 | 1HJ1340-07 | Aqueous | GRAB | | 10/15/24 10:34 | 10/16/24 10:26 |
| Duplicate | 1HJ1340-08 | Aqueous | GRAB | | 10/15/24 09:14 | 10/16/24 10:26 |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

Analytical Testing Parameters

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-4 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 10:23 |
| Lab Sample ID: | 1HJ1340-01 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-4 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 10:23 |
| Lab Sample ID: | 1HJ1340-01 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Surrogate: Dibromofluoromethane | 99.8 | Limit: 75-136 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Surrogate: Dibromofluoromethane | 99.8 | Limit: 57-134 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 104 | Limit: 61-142 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 104 | Limit: 53-140 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Surrogate: Toluene-d8 | 93.7 | Limit: 82-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Surrogate: Toluene-d8 | 93.7 | Limit: 86-114 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Surrogate: 4-Bromofluorobenzene | 100 | Limit: 80-116 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |
| Surrogate: 4-Bromofluorobenzene | 100 | Limit: 78-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1751 | CSM |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|---------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Barium, total | 0.381 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Cadmium, total | 0.0013 | 0.0008 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1901 | RVV |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-7 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 10:55 |
| Lab Sample ID: | 1HJ1340-02 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |

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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-90-7 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 10:55 |
| Lab Sample ID: | 1HJ1340-02 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Surrogate: Dibromofluoromethane | 101 | Limit: 75-136 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Surrogate: Dibromofluoromethane | 101 | Limit: 57-134 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 105 | Limit: 61-142 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 105 | Limit: 53-140 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Surrogate: Toluene-d8 | 94.8 | Limit: 82-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Surrogate: Toluene-d8 | 94.8 | Limit: 86-114 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Surrogate: 4-Bromofluorobenzene | 98.9 | Limit: 80-116 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |
| Surrogate: 4-Bromofluorobenzene | 98.9 | Limit: 78-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1814 | CSM |

| Determination of Base/Neutral Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| EPA 8270C | | | | | | | | |
| Bis(2-Ethylhexyl) Phthalate | <6 | 6 | ug/L | 1 | | 10/18/24 1308 | 10/22/24 1548 | EPP |
| Surrogate: Nitrobenzene-d5 | 91.2 | Limit: 20-149 | % Rec | 1 | | 10/18/24 1308 | 10/22/24 1548 | EPP |
| Surrogate: 2-Fluorobiphenyl | 95.4 | Limit: 11-146 | % Rec | 1 | | 10/18/24 1308 | 10/22/24 1548 | EPP |
| Surrogate: Terphenyl-d14 | 107 | Limit: 27-155 | % Rec | 1 | | 10/18/24 1308 | 10/22/24 1548 | EPP |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|---------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Barium, total | 0.271 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Cobalt, total | 0.0076 | 0.0004 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Nickel, total | 0.0233 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/22/24 1444 | RVV |



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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|-----------------|
| Client Sample ID: | MW-90-14 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 9:45 |
| Lab Sample ID: | 1HJ1340-03 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |

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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|-----------------|
| Client Sample ID: | MW-90-14 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 9:45 |
| Lab Sample ID: | 1HJ1340-03 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Surrogate: Dibromofluoromethane | 103 | Limit: 75-136 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Surrogate: Dibromofluoromethane | 103 | Limit: 57-134 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 106 | Limit: 53-140 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 106 | Limit: 61-142 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Surrogate: Toluene-d8 | 95.3 | Limit: 82-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Surrogate: Toluene-d8 | 95.3 | Limit: 86-114 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Surrogate: 4-Bromofluorobenzene | 98.6 | Limit: 78-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |
| Surrogate: 4-Bromofluorobenzene | 98.6 | Limit: 80-116 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1836 | CSM |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|---------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Barium, total | 0.237 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Cadmium, total | 0.0013 | 0.0008 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Cobalt, total | 0.0004 | 0.0004 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Nickel, total | 0.0129 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1913 | RVV |

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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|-----------------|
| Client Sample ID: | MW-90-17 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 9:14 |
| Lab Sample ID: | 1HJ1340-04 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |

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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|-----------------|
| Client Sample ID: | MW-90-17 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 9:14 |
| Lab Sample ID: | 1HJ1340-04 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Surrogate: Dibromofluoromethane | 101 | Limit: 57-134 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Surrogate: Dibromofluoromethane | 101 | Limit: 75-136 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 107 | Limit: 53-140 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 107 | Limit: 61-142 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Surrogate: Toluene-d8 | 94.0 | Limit: 86-114 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Surrogate: Toluene-d8 | 94.0 | Limit: 82-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Surrogate: 4-Bromofluorobenzene | 97.8 | Limit: 78-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |
| Surrogate: 4-Bromofluorobenzene | 97.8 | Limit: 80-116 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1859 | CSM |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|--------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Barium, total | 0.280 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1919 | RVV |



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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-91-19 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 10:11 |
| Lab Sample ID: | 1HJ1340-05 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |

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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | MW-91-19 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 10:11 |
| Lab Sample ID: | 1HJ1340-05 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Surrogate: Dibromofluoromethane | 103 | Limit: 57-134 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Surrogate: Dibromofluoromethane | 103 | Limit: 75-136 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 108 | Limit: 61-142 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 108 | Limit: 53-140 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Surrogate: Toluene-d8 | 95.6 | Limit: 86-114 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Surrogate: Toluene-d8 | 95.6 | Limit: 82-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Surrogate: 4-Bromofluorobenzene | 98.6 | Limit: 78-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |
| Surrogate: 4-Bromofluorobenzene | 98.6 | Limit: 80-116 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1922 | CSM |

| Determination of Base/Neutral Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| EPA 8270C | | | | | | | | |
| Bis(2-Ethylhexyl) Phthalate | <6 | 6 | ug/L | 1 | | 10/18/24 1308 | 10/22/24 1613 | EPP |
| Surrogate: Nitrobenzene-d5 | 83.9 | Limit: 20-149 | % Rec | 1 | | 10/18/24 1308 | 10/22/24 1613 | EPP |
| Surrogate: 2-Fluorobiphenyl | 88.6 | Limit: 11-146 | % Rec | 1 | | 10/18/24 1308 | 10/22/24 1613 | EPP |
| Surrogate: Terphenyl-d14 | 104 | Limit: 27-155 | % Rec | 1 | | 10/18/24 1308 | 10/22/24 1613 | EPP |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|--------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Barium, total | 0.276 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1926 | RVV |



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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|-----------------|
| Client Sample ID: | MW-91-20 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 9:27 |
| Lab Sample ID: | 1HJ1340-06 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |

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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|-----------------|
| Client Sample ID: | MW-91-20 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 9:27 |
| Lab Sample ID: | 1HJ1340-06 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Surrogate: Dibromofluoromethane | 104 | Limit: 57-134 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Surrogate: Dibromofluoromethane | 104 | Limit: 75-136 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 108 | Limit: 53-140 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 108 | Limit: 61-142 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Surrogate: Toluene-d8 | 95.0 | Limit: 86-114 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Surrogate: Toluene-d8 | 95.0 | Limit: 82-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Surrogate: 4-Bromofluorobenzene | 96.6 | Limit: 78-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |
| Surrogate: 4-Bromofluorobenzene | 96.6 | Limit: 80-116 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 1944 | CSM |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|--------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Barium, total | 0.161 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1932 | RVV |

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CERTIFICATE OF ANALYSIS

1HJ1340

| | |
|----------------------------------|--|
| Client Sample ID: SW-3 | Collected By: JGH |
| Sample Matrix: Aqueous | Collection Date: 10/15/2024 10:34 |
| Lab Sample ID: 1HJ1340-07 | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |

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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|------------------|
| Client Sample ID: | SW-3 | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 10:34 |
| Lab Sample ID: | 1HJ1340-07 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Surrogate: Dibromofluoromethane | 104 | Limit: 57-134 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Surrogate: Dibromofluoromethane | 104 | Limit: 75-136 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 108 | Limit: 53-140 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 108 | Limit: 61-142 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Surrogate: Toluene-d8 | 95.8 | Limit: 86-114 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Surrogate: Toluene-d8 | 95.8 | Limit: 82-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Surrogate: 4-Bromofluorobenzene | 98.2 | Limit: 78-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |
| Surrogate: 4-Bromofluorobenzene | 98.2 | Limit: 80-116 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2007 | CSM |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|--------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Barium, total | 0.287 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1938 | RVV |



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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|-----------------|
| Client Sample ID: | Duplicate | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 9:14 |
| Lab Sample ID: | 1HJ1340-08 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|------|-------|----|------|---------------|---------------|---------|
| EPA 5030B/EPA 8260B | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |

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CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|--------------------------|------------|-------------------------|-----------------|
| Client Sample ID: | Duplicate | Collected By: | JGH |
| Sample Matrix: | Aqueous | Collection Date: | 10/15/2024 9:14 |
| Lab Sample ID: | 1HJ1340-08 | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|--------|---------------|-------|----|------|---------------|---------------|---------|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Surrogate: Dibromofluoromethane | 106 | Limit: 57-134 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Surrogate: Dibromofluoromethane | 106 | Limit: 75-136 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 108 | Limit: 53-140 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Surrogate: 1,2-Dichloroethane-d4 | 108 | Limit: 61-142 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Surrogate: Toluene-d8 | 95.4 | Limit: 86-114 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Surrogate: Toluene-d8 | 95.4 | Limit: 82-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Surrogate: 4-Bromofluorobenzene | 99.1 | Limit: 78-121 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |
| Surrogate: 4-Bromofluorobenzene | 99.1 | Limit: 80-116 | % Rec | 1 | | 10/21/24 0000 | 10/21/24 2029 | CSM |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|-------------------------------|--------------|--------|-------|----|------|---------------|---------------|---------|
| EPA 3005A/EPA 6020A | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Barium, total | 0.294 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 10/17/24 0759 | 10/18/24 1944 | RVV |

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CERTIFICATE OF ANALYSIS

1HJ1340

Batch Log Summary

| Method | Batch | Laboratory ID | Client / Source ID |
|-----------|---------|---------------|--------------------|
| EPA 6020A | 1HJ1014 | 1HJ1014-BLK1 | |
| | | 1HJ1014-BS1 | |
| | | 1HJ1340-01 | MW-90-4 |
| | | 1HJ1340-03 | MW-90-14 |
| | | 1HJ1340-04 | MW-90-17 |
| | | 1HJ1340-05 | MW-91-19 |
| | | 1HJ1340-06 | MW-91-20 |
| | | 1HJ1340-07 | SW-3 |
| | | 1HJ1340-08 | Duplicate |
| | | 1HJ1014-MS1 | 1HJ1141-02 |
| | | 1HJ1014-MSD1 | 1HJ1141-02 |
| | | 1HJ1014-PS1 | 1HJ1141-02 |
| | | 1HJ1340-02 | MW-90-7 |

| Method | Batch | Laboratory ID | Client / Source ID |
|-----------|---------|---------------|--------------------|
| EPA 8270C | 1HJ1135 | 1HJ1135-BLK1 | |
| | | 1HJ1135-BS1 | |
| | | 1HJ1135-BSD1 | |
| | | 1HJ1340-02 | MW-90-7 |
| | | 1HJ1340-05 | MW-91-19 |

| Method | Batch | Laboratory ID | Client / Source ID |
|------------|-----------|---------------|--------------------|
| EPA 8260B | 1HJ1301 | 1HJ1301-BS1 | |
| | | 1HJ1301-BSD1 | |
| | | 1HJ1301-BLK1 | |
| | | 1HJ1340-01 | MW-90-4 |
| | | 1HJ1340-01 | MW-90-4 |
| | | 1HJ1340-02 | MW-90-7 |
| | | 1HJ1340-02 | MW-90-7 |
| | | 1HJ1340-03 | MW-90-14 |
| | | 1HJ1340-03 | MW-90-14 |
| | | 1HJ1340-04 | MW-90-17 |
| | | 1HJ1340-04 | MW-90-17 |
| | | 1HJ1340-05 | MW-91-19 |
| | | 1HJ1340-05 | MW-91-19 |
| | | 1HJ1340-06 | MW-91-20 |
| | | 1HJ1340-06 | MW-91-20 |
| | | 1HJ1340-07 | SW-3 |
| | | 1HJ1340-07 | SW-3 |
| 1HJ1340-08 | Duplicate | | |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

| | | | |
|-----------|---------|--------------|------------|
| EPA 8260B | 1HJ1301 | 1HJ1340-08 | Duplicate |
| | | 1HJ1301-BS2 | |
| | | 1HJ1301-BSD2 | |
| | | 1HJ1301-BLK2 | |
| | | 1HJ1301-MS1 | 1HJ1342-01 |
| | | 1HJ1301-MSD1 | 1HJ1342-01 |
| | | 1HJ1301-MS2 | 1HJ1340-05 |
| | | 1HJ1301-MSD2 | 1HJ1340-05 |

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 1HJ1301 - EPA 5030B - EPA 8260B

Blank (1HJ1301-BLK1)

Prepared: 10/21/24 00:00 Analyzed: 10/21/24 11:09

| | | | |
|-----------------------------|-------|------|------|
| Chloromethane | <1.0 | 1.0 | ug/L |
| Vinyl Chloride | <1.0 | 1.0 | ug/L |
| Bromomethane | <1.0 | 1.0 | ug/L |
| Chloroethane | <1.0 | 1.0 | ug/L |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L |
| Acetone | <10.0 | 10.0 | ug/L |
| Methyl Iodide | <1.0 | 1.0 | ug/L |
| Carbon Disulfide | <1.0 | 1.0 | ug/L |
| Methylene Chloride | <5.0 | 5.0 | ug/L |
| Acrylonitrile | <5.0 | 5.0 | ug/L |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L |
| Vinyl Acetate | <5.0 | 5.0 | ug/L |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L |
| Bromochloromethane | <1.0 | 1.0 | ug/L |
| Chloroform | <1.0 | 1.0 | ug/L |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L |
| Benzene | <1.0 | 1.0 | ug/L |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L |
| Trichloroethylene | <1.0 | 1.0 | ug/L |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L |
| Dibromomethane | <1.0 | 1.0 | ug/L |
| Bromodichloromethane | <1.0 | 1.0 | ug/L |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L |
| Toluene | <1.0 | 1.0 | ug/L |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L |

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CERTIFICATE OF ANALYSIS

1HJ1340

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

Batch 1HJ1301 - EPA 5030B - EPA 8260B

Blank (1HJ1301-BLK1)

Prepared: 10/21/24 00:00 Analyzed: 10/21/24 11:09

| | | | | | | | | | | |
|-----------------------------|------|-----|------|--|--|--|--|--|--|--|
| 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 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | | | | | | | |

| | | | | | | | | | | |
|----------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Surrogate: Dibromofluoromethane | 47.6 | | ug/L | 50.2 | | 94.7 | 57-134 | | | |
| Surrogate: Dibromofluoromethane | 47.6 | | ug/L | 50.2 | | 94.7 | 75-136 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 50.0 | | ug/L | 50.4 | | 99.3 | 53-140 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 50.0 | | ug/L | 50.4 | | 99.3 | 61-142 | | | |
| Surrogate: Toluene-d8 | 47.2 | | ug/L | 50.5 | | 93.5 | 86-114 | | | |
| Surrogate: Toluene-d8 | 47.2 | | ug/L | 50.5 | | 93.5 | 82-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 49.4 | | ug/L | 50.2 | | 98.4 | 78-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 49.4 | | ug/L | 50.2 | | 98.4 | 80-116 | | | |

Blank (1HJ1301-BLK2)

Prepared: 10/21/24 00:00 Analyzed: 10/22/24 01:23

| | | | | | | | | | | |
|----------------------------|-------|------|------|--|--|--|--|--|--|--|
| 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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CERTIFICATE OF ANALYSIS

1HJ1340

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch 1HJ1301 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Blank (1HJ1301-BLK2) | | | | | | | | | | |
| Prepared: 10/21/24 00:00 Analyzed: 10/22/24 01:23 | | | | | | | | | | |
| 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 | | | | | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 52.2 | | ug/L | 50.2 | | 104 | 57-134 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 52.2 | | ug/L | 50.2 | | 104 | 75-136 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 54.8 | | ug/L | 50.4 | | 109 | 53-140 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 54.8 | | ug/L | 50.4 | | 109 | 61-142 | | | |
| <i>Surrogate: Toluene-d8</i> | 47.9 | | ug/L | 50.5 | | 94.9 | 86-114 | | | |
| <i>Surrogate: Toluene-d8</i> | 47.9 | | ug/L | 50.5 | | 94.9 | 82-121 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 49.9 | | ug/L | 50.2 | | 99.5 | 78-121 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 49.9 | | ug/L | 50.2 | | 99.5 | 80-116 | | | |
| LCS (1HJ1301-BS1) | | | | | | | | | | |
| Prepared: 10/21/24 00:00 Analyzed: 10/21/24 10:02 | | | | | | | | | | |
| Chloromethane | 30.14 | 1.0 | ug/L | 30.0 | | 100 | 63-155 | | | |
| Vinyl Chloride | 28.96 | 1.0 | ug/L | 30.0 | | 96.5 | 70-154 | | | |
| Bromomethane | 33.12 | 1.0 | ug/L | 30.0 | | 110 | 52-176 | | | |
| Chloroethane | 24.87 | 1.0 | ug/L | 30.0 | | 82.9 | 72-148 | | | |
| Trichlorofluoromethane | 24.34 | 1.0 | ug/L | 30.0 | | 81.1 | 70-152 | | | |
| 1,1-Dichloroethylene | 44.45 | 1.0 | ug/L | 50.0 | | 88.9 | 70-148 | | | |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch 1HJ1301 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| LCS (1HJ1301-BS1) | | | | | | | | | | |
| Prepared: 10/21/24 00:00 Analyzed: 10/21/24 10:02 | | | | | | | | | | |
| Acetone | 99.33 | 10.0 | ug/L | 101 | | 98.2 | 43-172 | | | |
| Methyl Iodide | 96.99 | 1.0 | ug/L | 102 | | 95.2 | 69-170 | | | |
| Carbon Disulfide | 67.06 | 1.0 | ug/L | 103 | | 65.3 | 72-162 | | | Q3 |
| Methylene Chloride | 43.27 | 5.0 | ug/L | 50.0 | | 86.5 | 68-142 | | | |
| Acrylonitrile | 77.56 | 5.0 | ug/L | 100 | | 77.3 | 56-135 | | | |
| trans-1,2-Dichloroethylene | 45.12 | 1.0 | ug/L | 50.0 | | 90.2 | 66-148 | | | |
| 1,1-Dichloroethane | 44.18 | 1.0 | ug/L | 50.0 | | 88.4 | 66-143 | | | |
| Vinyl Acetate | 91.56 | 5.0 | ug/L | 100 | | 91.6 | 43-153 | | | |
| cis-1,2-Dichloroethylene | 44.44 | 1.0 | ug/L | 50.0 | | 88.9 | 71-149 | | | |
| 2-Butanone (MEK) | 92.08 | 10.0 | ug/L | 102 | | 90.5 | 52-159 | | | |
| Bromochloromethane | 43.62 | 1.0 | ug/L | 50.0 | | 87.2 | 69-143 | | | |
| Chloroform | 44.14 | 1.0 | ug/L | 50.0 | | 88.3 | 69-144 | | | |
| 1,1,1-Trichloroethane | 44.67 | 1.0 | ug/L | 50.0 | | 89.3 | 62-129 | | | |
| Carbon Tetrachloride | 45.86 | 1.0 | ug/L | 50.0 | | 91.7 | 63-141 | | | |
| Benzene | 48.01 | 1.0 | ug/L | 50.0 | | 96.0 | 71-134 | | | |
| 1,2-Dichloroethane | 52.15 | 1.0 | ug/L | 50.0 | | 104 | 72-132 | | | |
| Trichloroethylene | 47.37 | 1.0 | ug/L | 50.0 | | 94.7 | 71-135 | | | |
| 1,2-Dichloropropane | 45.95 | 1.0 | ug/L | 50.0 | | 91.9 | 69-136 | | | |
| Dibromomethane | 48.86 | 1.0 | ug/L | 50.0 | | 97.7 | 73-147 | | | |
| Bromodichloromethane | 47.09 | 1.0 | ug/L | 50.0 | | 94.2 | 68-129 | | | |
| cis-1,3-Dichloropropene | 45.20 | 1.0 | ug/L | 50.0 | | 90.4 | 65-134 | | | |
| 4-Methyl-2-pentanone (MIBK) | 102.1 | 5.0 | ug/L | 100 | | 102 | 58-147 | | | |
| Toluene | 46.37 | 1.0 | ug/L | 50.0 | | 92.7 | 72-133 | | | |
| trans-1,3-Dichloropropene | 46.70 | 1.0 | ug/L | 50.0 | | 93.4 | 67-130 | | | |
| 1,1,2-Trichloroethane | 46.58 | 1.0 | ug/L | 50.0 | | 93.2 | 69-135 | | | |
| Tetrachloroethylene | 50.31 | 1.0 | ug/L | 50.0 | | 101 | 69-130 | | | |
| 2-Hexanone (MBK) | 101.6 | 5.0 | ug/L | 99.3 | | 102 | 55-144 | | | |
| Dibromochloromethane | 48.07 | 1.0 | ug/L | 50.0 | | 96.1 | 73-127 | | | |
| 1,2-Dibromoethane | 48.68 | 1.0 | ug/L | 50.0 | | 97.4 | 67-132 | | | |
| Chlorobenzene | 47.64 | 1.0 | ug/L | 50.0 | | 95.3 | 72-123 | | | |
| 1,1,1,2-Tetrachloroethane | 50.14 | 1.0 | ug/L | 50.0 | | 100 | 73-127 | | | |
| Ethylbenzene | 50.00 | 1.0 | ug/L | 50.0 | | 100 | 71-127 | | | |
| Xylenes, total | 144.8 | 2.0 | ug/L | 150 | | 96.6 | 74-127 | | | |
| Styrene | 49.55 | 1.0 | ug/L | 50.0 | | 99.1 | 66-126 | | | |
| Bromoform | 48.34 | 1.0 | ug/L | 50.0 | | 96.7 | 68-130 | | | |
| 1,2,3-Trichloropropane | 49.06 | 1.0 | ug/L | 50.0 | | 98.1 | 63-136 | | | |
| trans-1,4-Dichloro-2-butene | 90.82 | 5.0 | ug/L | 103 | | 88.3 | 54-134 | | | |
| 1,1,2,2-Tetrachloroethane | 48.58 | 1.0 | ug/L | 50.0 | | 97.2 | 61-131 | | | |
| 1,4-Dichlorobenzene | 46.59 | 1.0 | ug/L | 50.0 | | 93.2 | 70-129 | | | |
| 1,2-Dichlorobenzene | 47.28 | 1.0 | ug/L | 50.0 | | 94.6 | 69-126 | | | |
| 1,2-Dibromo-3-chloropropane | 42.84 | 5.0 | ug/L | 50.0 | | 85.7 | 50-143 | | | |
| Surrogate: Dibromofluoromethane | 46.3 | | ug/L | 50.2 | | 92.2 | 57-134 | | | |

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CERTIFICATE OF ANALYSIS

1HJ1340

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

Batch 1HJ1301 - EPA 5030B - EPA 8260B

LCS (1HJ1301-BS1)

Prepared: 10/21/24 00:00 Analyzed: 10/21/24 10:02

| | | | | | | | | | | |
|----------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Surrogate: Dibromofluoromethane | 46.3 | | ug/L | 50.2 | | 92.2 | 75-136 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 47.2 | | ug/L | 50.4 | | 93.8 | 53-140 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 47.2 | | ug/L | 50.4 | | 93.8 | 61-142 | | | |
| Surrogate: Toluene-d8 | 49.2 | | ug/L | 50.5 | | 97.4 | 86-114 | | | |
| Surrogate: Toluene-d8 | 49.2 | | ug/L | 50.5 | | 97.4 | 82-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 49.4 | | ug/L | 50.2 | | 98.5 | 78-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 49.4 | | ug/L | 50.2 | | 98.5 | 80-116 | | | |

LCS (1HJ1301-BS2)

Prepared: 10/21/24 00:00 Analyzed: 10/22/24 00:15

| | | | | | | | | | | |
|-----------------------------|-------|------|------|------|--|------|--------|--|--|--|
| Chloromethane | 35.79 | 1.0 | ug/L | 30.0 | | 119 | 63-155 | | | |
| Vinyl Chloride | 33.44 | 1.0 | ug/L | 30.0 | | 111 | 70-154 | | | |
| Bromomethane | 38.13 | 1.0 | ug/L | 30.0 | | 127 | 52-176 | | | |
| Chloroethane | 28.96 | 1.0 | ug/L | 30.0 | | 96.5 | 72-148 | | | |
| Trichlorofluoromethane | 26.87 | 1.0 | ug/L | 30.0 | | 89.6 | 70-152 | | | |
| 1,1-Dichloroethylene | 50.89 | 1.0 | ug/L | 50.0 | | 102 | 70-148 | | | |
| Acetone | 117.9 | 10.0 | ug/L | 101 | | 116 | 43-172 | | | |
| Methyl Iodide | 110.5 | 1.0 | ug/L | 102 | | 108 | 69-170 | | | |
| Carbon Disulfide | 76.48 | 1.0 | ug/L | 103 | | 74.5 | 72-162 | | | |
| Methylene Chloride | 51.38 | 5.0 | ug/L | 50.0 | | 103 | 68-142 | | | |
| Acrylonitrile | 90.93 | 5.0 | ug/L | 100 | | 90.6 | 56-135 | | | |
| trans-1,2-Dichloroethylene | 53.17 | 1.0 | ug/L | 50.0 | | 106 | 66-148 | | | |
| 1,1-Dichloroethane | 52.88 | 1.0 | ug/L | 50.0 | | 106 | 66-143 | | | |
| Vinyl Acetate | 102.8 | 5.0 | ug/L | 100 | | 103 | 43-153 | | | |
| cis-1,2-Dichloroethylene | 51.62 | 1.0 | ug/L | 50.0 | | 103 | 71-149 | | | |
| 2-Butanone (MEK) | 110.8 | 10.0 | ug/L | 102 | | 109 | 52-159 | | | |
| Bromochloromethane | 52.57 | 1.0 | ug/L | 50.0 | | 105 | 69-143 | | | |
| Chloroform | 52.26 | 1.0 | ug/L | 50.0 | | 105 | 69-144 | | | |
| 1,1,1-Trichloroethane | 51.69 | 1.0 | ug/L | 50.0 | | 103 | 62-129 | | | |
| Carbon Tetrachloride | 52.38 | 1.0 | ug/L | 50.0 | | 105 | 63-141 | | | |
| Benzene | 53.07 | 1.0 | ug/L | 50.0 | | 106 | 71-134 | | | |
| 1,2-Dichloroethane | 56.57 | 1.0 | ug/L | 50.0 | | 113 | 72-132 | | | |
| Trichloroethylene | 50.92 | 1.0 | ug/L | 50.0 | | 102 | 71-135 | | | |
| 1,2-Dichloropropane | 51.66 | 1.0 | ug/L | 50.0 | | 103 | 69-136 | | | |
| Dibromomethane | 53.48 | 1.0 | ug/L | 50.0 | | 107 | 73-147 | | | |
| Bromodichloromethane | 52.33 | 1.0 | ug/L | 50.0 | | 105 | 68-129 | | | |
| cis-1,3-Dichloropropene | 48.84 | 1.0 | ug/L | 50.0 | | 97.7 | 65-134 | | | |
| 4-Methyl-2-pentanone (MIBK) | 113.2 | 5.0 | ug/L | 100 | | 113 | 58-147 | | | |
| Toluene | 51.24 | 1.0 | ug/L | 50.0 | | 102 | 72-133 | | | |
| trans-1,3-Dichloropropene | 49.52 | 1.0 | ug/L | 50.0 | | 99.0 | 67-130 | | | |
| 1,1,2-Trichloroethane | 51.38 | 1.0 | ug/L | 50.0 | | 103 | 69-135 | | | |
| Tetrachloroethylene | 51.58 | 1.0 | ug/L | 50.0 | | 103 | 69-130 | | | |
| 2-Hexanone (MBK) | 108.5 | 5.0 | ug/L | 99.3 | | 109 | 55-144 | | | |
| Dibromochloromethane | 51.28 | 1.0 | ug/L | 50.0 | | 103 | 73-127 | | | |
| 1,2-Dibromoethane | 51.91 | 1.0 | ug/L | 50.0 | | 104 | 67-132 | | | |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|-------------|------|-------------|---|---------------|-------------|---------------|--------|-----------|-------|
| Batch 1HJ1301 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| LCS (1HJ1301-BS2) | | | | | | | | | | |
| | | | | Prepared: 10/21/24 00:00 Analyzed: 10/22/24 00:15 | | | | | | |
| Chlorobenzene | 50.99 | 1.0 | ug/L | 50.0 | | 102 | 72-123 | | | |
| 1,1,1,2-Tetrachloroethane | 53.59 | 1.0 | ug/L | 50.0 | | 107 | 73-127 | | | |
| Ethylbenzene | 53.82 | 1.0 | ug/L | 50.0 | | 108 | 71-127 | | | |
| Xylenes, total | 156.5 | 2.0 | ug/L | 150 | | 104 | 74-127 | | | |
| Styrene | 53.57 | 1.0 | ug/L | 50.0 | | 107 | 66-126 | | | |
| Bromoform | 50.30 | 1.0 | ug/L | 50.0 | | 101 | 68-130 | | | |
| 1,2,3-Trichloropropane | 52.59 | 1.0 | ug/L | 50.0 | | 105 | 63-136 | | | |
| trans-1,4-Dichloro-2-butene | 95.70 | 5.0 | ug/L | 103 | | 93.1 | 54-134 | | | |
| 1,1,2,2-Tetrachloroethane | 51.76 | 1.0 | ug/L | 50.0 | | 104 | 61-131 | | | |
| 1,4-Dichlorobenzene | 49.42 | 1.0 | ug/L | 50.0 | | 98.8 | 70-129 | | | |
| 1,2-Dichlorobenzene | 50.44 | 1.0 | ug/L | 50.0 | | 101 | 69-126 | | | |
| 1,2-Dibromo-3-chloropropane | 45.00 | 5.0 | ug/L | 50.0 | | 90.0 | 50-143 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>51.3</i> | | <i>ug/L</i> | <i>50.2</i> | | <i>102</i> | <i>57-134</i> | | | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>51.3</i> | | <i>ug/L</i> | <i>50.2</i> | | <i>102</i> | <i>75-136</i> | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>52.6</i> | | <i>ug/L</i> | <i>50.4</i> | | <i>104</i> | <i>53-140</i> | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>52.6</i> | | <i>ug/L</i> | <i>50.4</i> | | <i>104</i> | <i>61-142</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>50.5</i> | | <i>ug/L</i> | <i>50.5</i> | | <i>100</i> | <i>86-114</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>50.5</i> | | <i>ug/L</i> | <i>50.5</i> | | <i>100</i> | <i>82-121</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>49.9</i> | | <i>ug/L</i> | <i>50.2</i> | | <i>99.4</i> | <i>78-121</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>49.9</i> | | <i>ug/L</i> | <i>50.2</i> | | <i>99.4</i> | <i>80-116</i> | | | |
| LCS Dup (1HJ1301-BSD1) | | | | | | | | | | |
| | | | | Prepared: 10/21/24 00:00 Analyzed: 10/21/24 10:24 | | | | | | |
| Chloromethane | 28.77 | 1.0 | ug/L | 30.0 | | 95.9 | 63-155 | 4.65 | 24 | |
| Vinyl Chloride | 27.81 | 1.0 | ug/L | 30.0 | | 92.7 | 70-154 | 4.05 | 25 | |
| Bromomethane | 32.00 | 1.0 | ug/L | 30.0 | | 107 | 52-176 | 3.44 | 27 | |
| Chloroethane | 23.72 | 1.0 | ug/L | 30.0 | | 79.1 | 72-148 | 4.73 | 25 | |
| Trichlorofluoromethane | 23.08 | 1.0 | ug/L | 30.0 | | 76.9 | 70-152 | 5.31 | 26 | |
| 1,1-Dichloroethylene | 42.78 | 1.0 | ug/L | 50.0 | | 85.6 | 70-148 | 3.83 | 24 | |
| Acetone | 96.37 | 10.0 | ug/L | 101 | | 95.2 | 43-172 | 3.03 | 30 | |
| Methyl Iodide | 94.39 | 1.0 | ug/L | 102 | | 92.7 | 69-170 | 2.72 | 30 | |
| Carbon Disulfide | 64.32 | 1.0 | ug/L | 103 | | 62.6 | 72-162 | 4.17 | 24 | Q3 |
| Methylene Chloride | 42.95 | 5.0 | ug/L | 50.0 | | 85.9 | 68-142 | 0.742 | 21 | |
| Acrylonitrile | 76.96 | 5.0 | ug/L | 100 | | 76.7 | 56-135 | 0.777 | 16 | |
| trans-1,2-Dichloroethylene | 43.93 | 1.0 | ug/L | 50.0 | | 87.9 | 66-148 | 2.67 | 27 | |
| 1,1-Dichloroethane | 43.12 | 1.0 | ug/L | 50.0 | | 86.2 | 66-143 | 2.43 | 24 | |
| Vinyl Acetate | 91.64 | 5.0 | ug/L | 100 | | 91.6 | 43-153 | 0.0873 | 30 | |
| cis-1,2-Dichloroethylene | 44.31 | 1.0 | ug/L | 50.0 | | 88.6 | 71-149 | 0.293 | 26 | |
| 2-Butanone (MEK) | 93.49 | 10.0 | ug/L | 102 | | 91.8 | 52-159 | 1.52 | 27 | |
| Bromochloromethane | 43.36 | 1.0 | ug/L | 50.0 | | 86.7 | 69-143 | 0.598 | 23 | |
| Chloroform | 43.75 | 1.0 | ug/L | 50.0 | | 87.5 | 69-144 | 0.887 | 23 | |
| 1,1,1-Trichloroethane | 44.07 | 1.0 | ug/L | 50.0 | | 88.1 | 62-129 | 1.35 | 24 | |
| Carbon Tetrachloride | 45.28 | 1.0 | ug/L | 50.0 | | 90.6 | 63-141 | 1.27 | 25 | |
| Benzene | 47.83 | 1.0 | ug/L | 50.0 | | 95.7 | 71-134 | 0.376 | 24 | |
| 1,2-Dichloroethane | 53.08 | 1.0 | ug/L | 50.0 | | 106 | 72-132 | 1.77 | 24 | |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

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

Batch 1HJ1301 - EPA 5030B - EPA 8260B

LCS Dup (1HJ1301-BSD1)

Prepared: 10/21/24 00:00 Analyzed: 10/21/24 10:24

| | | | | | | | | | | |
|-----------------------------|-------|-----|------|------|--|------|--------|-------|----|--|
| Trichloroethylene | 46.95 | 1.0 | ug/L | 50.0 | | 93.9 | 71-135 | 0.891 | 24 | |
| 1,2-Dichloropropane | 46.23 | 1.0 | ug/L | 50.0 | | 92.5 | 69-136 | 0.608 | 24 | |
| Dibromomethane | 49.75 | 1.0 | ug/L | 50.0 | | 99.5 | 73-147 | 1.81 | 25 | |
| Bromodichloromethane | 48.03 | 1.0 | ug/L | 50.0 | | 96.1 | 68-129 | 1.98 | 22 | |
| cis-1,3-Dichloropropene | 45.81 | 1.0 | ug/L | 50.0 | | 91.6 | 65-134 | 1.34 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | 103.6 | 5.0 | ug/L | 100 | | 104 | 58-147 | 1.44 | 27 | |
| Toluene | 46.51 | 1.0 | ug/L | 50.0 | | 93.0 | 72-133 | 0.301 | 24 | |
| trans-1,3-Dichloropropene | 47.51 | 1.0 | ug/L | 50.0 | | 95.0 | 67-130 | 1.72 | 24 | |
| 1,1,2-Trichloroethane | 47.32 | 1.0 | ug/L | 50.0 | | 94.6 | 69-135 | 1.58 | 23 | |
| Tetrachloroethylene | 50.18 | 1.0 | ug/L | 50.0 | | 100 | 69-130 | 0.259 | 25 | |
| 2-Hexanone (MBK) | 102.9 | 5.0 | ug/L | 99.3 | | 104 | 55-144 | 1.24 | 25 | |
| Dibromochloromethane | 49.60 | 1.0 | ug/L | 50.0 | | 99.2 | 73-127 | 3.13 | 22 | |
| 1,2-Dibromoethane | 50.07 | 1.0 | ug/L | 50.0 | | 100 | 67-132 | 2.82 | 24 | |
| Chlorobenzene | 48.07 | 1.0 | ug/L | 50.0 | | 96.1 | 72-123 | 0.899 | 23 | |
| 1,1,1,2-Tetrachloroethane | 51.22 | 1.0 | ug/L | 50.0 | | 102 | 73-127 | 2.13 | 24 | |
| Ethylbenzene | 50.70 | 1.0 | ug/L | 50.0 | | 101 | 71-127 | 1.39 | 26 | |
| Xylenes, total | 147.0 | 2.0 | ug/L | 150 | | 98.0 | 74-127 | 1.45 | 25 | |
| Styrene | 50.75 | 1.0 | ug/L | 50.0 | | 102 | 66-126 | 2.39 | 23 | |
| Bromoform | 50.28 | 1.0 | ug/L | 50.0 | | 101 | 68-130 | 3.93 | 23 | |
| 1,2,3-Trichloropropane | 49.77 | 1.0 | ug/L | 50.0 | | 99.5 | 63-136 | 1.44 | 24 | |
| trans-1,4-Dichloro-2-butene | 92.71 | 5.0 | ug/L | 103 | | 90.2 | 54-134 | 2.06 | 27 | |
| 1,1,2,2-Tetrachloroethane | 49.96 | 1.0 | ug/L | 50.0 | | 99.9 | 61-131 | 2.80 | 29 | |
| 1,4-Dichlorobenzene | 47.87 | 1.0 | ug/L | 50.0 | | 95.7 | 70-129 | 2.71 | 24 | |
| 1,2-Dichlorobenzene | 48.91 | 1.0 | ug/L | 50.0 | | 97.8 | 69-126 | 3.39 | 26 | |
| 1,2-Dibromo-3-chloropropane | 44.18 | 5.0 | ug/L | 50.0 | | 88.4 | 50-143 | 3.08 | 30 | |

Surrogate: Dibromofluoromethane

45.8

ug/L

50.2

91.2

57-134

Surrogate: Dibromofluoromethane

45.8

ug/L

50.2

91.2

75-136

Surrogate: 1,2-Dichloroethane-d4

47.2

ug/L

50.4

93.8

53-140

Surrogate: 1,2-Dichloroethane-d4

47.2

ug/L

50.4

93.8

61-142

Surrogate: Toluene-d8

49.4

ug/L

50.5

97.9

86-114

Surrogate: Toluene-d8

49.4

ug/L

50.5

97.9

82-121

Surrogate: 4-Bromofluorobenzene

50.0

ug/L

50.2

99.6

78-121

Surrogate: 4-Bromofluorobenzene

50.0

ug/L

50.2

99.6

80-116

LCS Dup (1HJ1301-BSD2)

Prepared: 10/21/24 00:00 Analyzed: 10/22/24 00:38

| | | | | | | | | | | |
|------------------------|-------|------|------|------|--|------|--------|------|----|----|
| Chloromethane | 34.06 | 1.0 | ug/L | 30.0 | | 114 | 63-155 | 4.95 | 24 | |
| Vinyl Chloride | 32.00 | 1.0 | ug/L | 30.0 | | 107 | 70-154 | 4.40 | 25 | |
| Bromomethane | 36.39 | 1.0 | ug/L | 30.0 | | 121 | 52-176 | 4.67 | 27 | |
| Chloroethane | 27.79 | 1.0 | ug/L | 30.0 | | 92.6 | 72-148 | 4.12 | 25 | |
| Trichlorofluoromethane | 26.03 | 1.0 | ug/L | 30.0 | | 86.8 | 70-152 | 3.18 | 26 | |
| 1,1-Dichloroethylene | 49.28 | 1.0 | ug/L | 50.0 | | 98.6 | 70-148 | 3.21 | 24 | |
| Acetone | 119.2 | 10.0 | ug/L | 101 | | 118 | 43-172 | 1.10 | 30 | |
| Methyl Iodide | 107.9 | 1.0 | ug/L | 102 | | 106 | 69-170 | 2.35 | 30 | |
| Carbon Disulfide | 73.31 | 1.0 | ug/L | 103 | | 71.4 | 72-162 | 4.23 | 24 | Q3 |

Microbac Laboratories, Inc., Newton

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CERTIFICATE OF ANALYSIS

1HJ1340

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|------|-------|---|---------------|------|-------------|--------|-----------|-------|
| Batch 1HJ1301 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| LCS Dup (1HJ1301-BSD2) | | | | | | | | | | |
| | | | | Prepared: 10/21/24 00:00 Analyzed: 10/22/24 00:38 | | | | | | |
| Methylene Chloride | 49.96 | 5.0 | ug/L | 50.0 | | 99.9 | 68-142 | 2.80 | 21 | |
| Acrylonitrile | 90.42 | 5.0 | ug/L | 100 | | 90.1 | 56-135 | 0.562 | 16 | |
| trans-1,2-Dichloroethylene | 51.34 | 1.0 | ug/L | 50.0 | | 103 | 66-148 | 3.50 | 27 | |
| 1,1-Dichloroethane | 51.18 | 1.0 | ug/L | 50.0 | | 102 | 66-143 | 3.27 | 24 | |
| Vinyl Acetate | 102.6 | 5.0 | ug/L | 100 | | 103 | 43-153 | 0.175 | 30 | |
| cis-1,2-Dichloroethylene | 50.04 | 1.0 | ug/L | 50.0 | | 100 | 71-149 | 3.11 | 26 | |
| 2-Butanone (MEK) | 111.1 | 10.0 | ug/L | 102 | | 109 | 52-159 | 0.325 | 27 | |
| Bromochloromethane | 52.20 | 1.0 | ug/L | 50.0 | | 104 | 69-143 | 0.706 | 23 | |
| Chloroform | 51.33 | 1.0 | ug/L | 50.0 | | 103 | 69-144 | 1.80 | 23 | |
| 1,1,1-Trichloroethane | 50.04 | 1.0 | ug/L | 50.0 | | 100 | 62-129 | 3.24 | 24 | |
| Carbon Tetrachloride | 50.53 | 1.0 | ug/L | 50.0 | | 101 | 63-141 | 3.60 | 25 | |
| Benzene | 52.09 | 1.0 | ug/L | 50.0 | | 104 | 71-134 | 1.86 | 24 | |
| 1,2-Dichloroethane | 56.17 | 1.0 | ug/L | 50.0 | | 112 | 72-132 | 0.710 | 24 | |
| Trichloroethylene | 50.28 | 1.0 | ug/L | 50.0 | | 101 | 71-135 | 1.26 | 24 | |
| 1,2-Dichloropropane | 51.01 | 1.0 | ug/L | 50.0 | | 102 | 69-136 | 1.27 | 24 | |
| Dibromomethane | 52.98 | 1.0 | ug/L | 50.0 | | 106 | 73-147 | 0.939 | 25 | |
| Bromodichloromethane | 51.57 | 1.0 | ug/L | 50.0 | | 103 | 68-129 | 1.46 | 22 | |
| cis-1,3-Dichloropropene | 48.44 | 1.0 | ug/L | 50.0 | | 96.9 | 65-134 | 0.822 | 23 | |
| 4-Methyl-2-pentanone (MIBK) | 114.8 | 5.0 | ug/L | 100 | | 115 | 58-147 | 1.37 | 27 | |
| Toluene | 50.29 | 1.0 | ug/L | 50.0 | | 101 | 72-133 | 1.87 | 24 | |
| trans-1,3-Dichloropropene | 49.53 | 1.0 | ug/L | 50.0 | | 99.1 | 67-130 | 0.0202 | 24 | |
| 1,1,2-Trichloroethane | 51.06 | 1.0 | ug/L | 50.0 | | 102 | 69-135 | 0.625 | 23 | |
| Tetrachloroethylene | 49.89 | 1.0 | ug/L | 50.0 | | 99.8 | 69-130 | 3.33 | 25 | |
| 2-Hexanone (MBK) | 110.0 | 5.0 | ug/L | 99.3 | | 111 | 55-144 | 1.37 | 25 | |
| Dibromochloromethane | 50.52 | 1.0 | ug/L | 50.0 | | 101 | 73-127 | 1.49 | 22 | |
| 1,2-Dibromoethane | 51.35 | 1.0 | ug/L | 50.0 | | 103 | 67-132 | 1.08 | 24 | |
| Chlorobenzene | 49.99 | 1.0 | ug/L | 50.0 | | 100 | 72-123 | 1.98 | 23 | |
| 1,1,1,2-Tetrachloroethane | 52.40 | 1.0 | ug/L | 50.0 | | 105 | 73-127 | 2.25 | 24 | |
| Ethylbenzene | 52.53 | 1.0 | ug/L | 50.0 | | 105 | 71-127 | 2.43 | 26 | |
| Xylenes, total | 153.2 | 2.0 | ug/L | 150 | | 102 | 74-127 | 2.13 | 25 | |
| Styrene | 52.68 | 1.0 | ug/L | 50.0 | | 105 | 66-126 | 1.68 | 23 | |
| Bromoform | 50.29 | 1.0 | ug/L | 50.0 | | 101 | 68-130 | 0.0199 | 23 | |
| 1,2,3-Trichloropropane | 51.72 | 1.0 | ug/L | 50.0 | | 103 | 63-136 | 1.67 | 24 | |
| trans-1,4-Dichloro-2-butene | 94.84 | 5.0 | ug/L | 103 | | 92.3 | 54-134 | 0.903 | 27 | |
| 1,1,2,2-Tetrachloroethane | 51.28 | 1.0 | ug/L | 50.0 | | 103 | 61-131 | 0.932 | 29 | |
| 1,4-Dichlorobenzene | 48.86 | 1.0 | ug/L | 50.0 | | 97.7 | 70-129 | 1.14 | 24 | |
| 1,2-Dichlorobenzene | 49.66 | 1.0 | ug/L | 50.0 | | 99.3 | 69-126 | 1.56 | 26 | |
| 1,2-Dibromo-3-chloropropane | 45.25 | 5.0 | ug/L | 50.0 | | 90.5 | 50-143 | 0.554 | 30 | |

| | | | | | | | | | | |
|----------------------------------|------|--|------|------|--|-----|--------|--|--|--|
| Surrogate: Dibromofluoromethane | 50.6 | | ug/L | 50.2 | | 101 | 57-134 | | | |
| Surrogate: Dibromofluoromethane | 50.6 | | ug/L | 50.2 | | 101 | 75-136 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 52.5 | | ug/L | 50.4 | | 104 | 53-140 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 52.5 | | ug/L | 50.4 | | 104 | 61-142 | | | |
| Surrogate: Toluene-d8 | 51.0 | | ug/L | 50.5 | | 101 | 86-114 | | | |

Microbac Laboratories, Inc., Newton

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|----|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch 1HJ1301 - EPA 5030B - EPA 8260B | | | | | | | | | | |

LCS Dup (1HJ1301-BSD2)

Prepared: 10/21/24 00:00 Analyzed: 10/22/24 00:38

| | | | | | | | | | | |
|---------------------------------|------|--|------|------|--|------|--------|--|--|--|
| Surrogate: Toluene-d8 | 51.0 | | ug/L | 50.5 | | 101 | 82-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 49.6 | | ug/L | 50.2 | | 98.8 | 78-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 49.6 | | ug/L | 50.2 | | 98.8 | 80-116 | | | |

Matrix Spike (1HJ1301-MS1)

Source: 1HJ1342-01

Prepared: 10/21/24 00:00 Analyzed: 10/22/24 04:24

| | | | | | | | | | | |
|-----------------------------|-------|------|------|------|----|------|--------|--|--|--|
| Chloromethane | 357.8 | 10.0 | ug/L | 300 | ND | 119 | 61-152 | | | |
| Vinyl Chloride | 334.2 | 10.0 | ug/L | 300 | ND | 111 | 66-149 | | | |
| Bromomethane | 359.2 | 10.0 | ug/L | 300 | ND | 120 | 43-171 | | | |
| Chloroethane | 288.5 | 10.0 | ug/L | 300 | ND | 96.2 | 69-148 | | | |
| Trichlorofluoromethane | 274.5 | 10.0 | ug/L | 300 | ND | 91.5 | 62-163 | | | |
| 1,1-Dichloroethylene | 511.5 | 10.0 | ug/L | 500 | ND | 102 | 70-148 | | | |
| Acetone | 1189 | 100 | ug/L | 1010 | ND | 118 | 45-173 | | | |
| Methyl Iodide | 1049 | 10.0 | ug/L | 1020 | ND | 103 | 62-167 | | | |
| Carbon Disulfide | 765.6 | 10.0 | ug/L | 1030 | ND | 74.5 | 71-163 | | | |
| Methylene Chloride | 513.6 | 50.0 | ug/L | 500 | ND | 103 | 69-140 | | | |
| Acrylonitrile | 903.2 | 50.0 | ug/L | 1000 | ND | 90.0 | 38-147 | | | |
| trans-1,2-Dichloroethylene | 528.2 | 10.0 | ug/L | 500 | ND | 106 | 69-144 | | | |
| 1,1-Dichloroethane | 526.6 | 10.0 | ug/L | 500 | ND | 105 | 70-138 | | | |
| Vinyl Acetate | 1006 | 50.0 | ug/L | 1000 | ND | 101 | 58-142 | | | |
| cis-1,2-Dichloroethylene | 505.4 | 10.0 | ug/L | 500 | ND | 101 | 68-151 | | | |
| 2-Butanone (MEK) | 1048 | 100 | ug/L | 1020 | ND | 103 | 50-160 | | | |
| Bromochloromethane | 526.0 | 10.0 | ug/L | 500 | ND | 105 | 65-143 | | | |
| Chloroform | 516.2 | 10.0 | ug/L | 500 | ND | 103 | 71-143 | | | |
| 1,1,1-Trichloroethane | 511.6 | 10.0 | ug/L | 500 | ND | 102 | 63-133 | | | |
| Carbon Tetrachloride | 520.3 | 10.0 | ug/L | 500 | ND | 104 | 63-142 | | | |
| Benzene | 530.0 | 10.0 | ug/L | 500 | ND | 106 | 69-133 | | | |
| 1,2-Dichloroethane | 566.1 | 10.0 | ug/L | 500 | ND | 113 | 63-138 | | | |
| Trichloroethylene | 507.9 | 10.0 | ug/L | 500 | ND | 102 | 71-133 | | | |
| 1,2-Dichloropropane | 509.9 | 10.0 | ug/L | 500 | ND | 102 | 69-132 | | | |
| Dibromomethane | 530.2 | 10.0 | ug/L | 500 | ND | 106 | 70-147 | | | |
| Bromodichloromethane | 513.7 | 10.0 | ug/L | 500 | ND | 103 | 67-130 | | | |
| cis-1,3-Dichloropropene | 469.8 | 10.0 | ug/L | 500 | ND | 94.0 | 61-126 | | | |
| 4-Methyl-2-pentanone (MIBK) | 1094 | 50.0 | ug/L | 1000 | ND | 109 | 55-147 | | | |
| Toluene | 506.5 | 10.0 | ug/L | 500 | ND | 101 | 71-133 | | | |
| trans-1,3-Dichloropropene | 481.3 | 10.0 | ug/L | 500 | ND | 96.3 | 63-124 | | | |
| 1,1,2-Trichloroethane | 509.0 | 10.0 | ug/L | 500 | ND | 102 | 69-133 | | | |
| Tetrachloroethylene | 511.4 | 10.0 | ug/L | 500 | ND | 102 | 70-124 | | | |
| 2-Hexanone (MBK) | 1044 | 50.0 | ug/L | 993 | ND | 105 | 53-141 | | | |
| Dibromochloromethane | 505.4 | 10.0 | ug/L | 500 | ND | 101 | 74-122 | | | |
| 1,2-Dibromoethane | 510.0 | 10.0 | ug/L | 500 | ND | 102 | 66-127 | | | |
| Chlorobenzene | 504.8 | 10.0 | ug/L | 500 | ND | 101 | 76-116 | | | |
| 1,1,1,2-Tetrachloroethane | 523.4 | 10.0 | ug/L | 500 | ND | 105 | 77-121 | | | |
| Ethylbenzene | 533.7 | 10.0 | ug/L | 500 | ND | 107 | 73-124 | | | |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------------------------|------|-------|---|---------------|------|-------------|-----|-----------|-------|
| Batch 1HJ1301 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Matrix Spike (1HJ1301-MS1) | Source: 1HJ1342-01 | | | Prepared: 10/21/24 00:00 Analyzed: 10/22/24 04:24 | | | | | | |
| Xylenes, total | 1545 | 20.0 | ug/L | 1500 | ND | 103 | 75-123 | | | |
| Styrene | 527.4 | 10.0 | ug/L | 500 | ND | 105 | 70-120 | | | |
| Bromoform | 492.6 | 10.0 | ug/L | 500 | ND | 98.5 | 70-124 | | | |
| 1,2,3-Trichloropropane | 506.6 | 10.0 | ug/L | 500 | ND | 101 | 62-135 | | | |
| trans-1,4-Dichloro-2-butene | 898.2 | 50.0 | ug/L | 1030 | ND | 87.4 | 50-120 | | | |
| 1,1,2,2-Tetrachloroethane | 506.0 | 10.0 | ug/L | 500 | ND | 101 | 63-126 | | | |
| 1,4-Dichlorobenzene | 486.9 | 10.0 | ug/L | 500 | ND | 97.4 | 72-119 | | | |
| 1,2-Dichlorobenzene | 504.8 | 10.0 | ug/L | 500 | ND | 101 | 71-117 | | | |
| 1,2-Dibromo-3-chloropropane | 439.0 | 50.0 | ug/L | 500 | ND | 87.8 | 49-134 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 514 | | ug/L | 502 | | 102 | 57-134 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 514 | | ug/L | 502 | | 102 | 75-136 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 529 | | ug/L | 504 | | 105 | 53-140 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 529 | | ug/L | 504 | | 105 | 61-142 | | | |
| <i>Surrogate: Toluene-d8</i> | 509 | | ug/L | 505 | | 101 | 86-114 | | | |
| <i>Surrogate: Toluene-d8</i> | 509 | | ug/L | 505 | | 101 | 82-121 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 497 | | ug/L | 502 | | 99.0 | 78-121 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 497 | | ug/L | 502 | | 99.0 | 80-116 | | | |
| Matrix Spike (1HJ1301-MS2) | Source: 1HJ1340-05 | | | Prepared: 10/21/24 00:00 Analyzed: 10/22/24 05:09 | | | | | | |
| Chloromethane | 347.5 | 10.0 | ug/L | 300 | ND | 116 | 61-152 | | | |
| Vinyl Chloride | 335.4 | 10.0 | ug/L | 300 | ND | 112 | 66-149 | | | |
| Bromomethane | 366.9 | 10.0 | ug/L | 300 | ND | 122 | 43-171 | | | |
| Chloroethane | 286.2 | 10.0 | ug/L | 300 | ND | 95.4 | 69-148 | | | |
| Trichlorofluoromethane | 275.3 | 10.0 | ug/L | 300 | ND | 91.8 | 62-163 | | | |
| 1,1-Dichloroethylene | 516.7 | 10.0 | ug/L | 500 | ND | 103 | 70-148 | | | |
| Acetone | 1222 | 100 | ug/L | 1010 | ND | 121 | 45-173 | | | |
| Methyl Iodide | 1093 | 10.0 | ug/L | 1020 | ND | 107 | 62-167 | | | |
| Carbon Disulfide | 775.1 | 10.0 | ug/L | 1030 | ND | 75.5 | 71-163 | | | |
| Methylene Chloride | 518.8 | 50.0 | ug/L | 500 | ND | 104 | 69-140 | | | |
| Acrylonitrile | 931.7 | 50.0 | ug/L | 1000 | ND | 92.8 | 38-147 | | | |
| trans-1,2-Dichloroethylene | 537.6 | 10.0 | ug/L | 500 | ND | 108 | 69-144 | | | |
| 1,1-Dichloroethane | 535.3 | 10.0 | ug/L | 500 | ND | 107 | 70-138 | | | |
| Vinyl Acetate | 1044 | 50.0 | ug/L | 1000 | ND | 104 | 58-142 | | | |
| cis-1,2-Dichloroethylene | 516.5 | 10.0 | ug/L | 500 | ND | 103 | 68-151 | | | |
| 2-Butanone (MEK) | 1102 | 100 | ug/L | 1020 | ND | 108 | 50-160 | | | |
| Bromochloromethane | 533.9 | 10.0 | ug/L | 500 | ND | 107 | 65-143 | | | |
| Chloroform | 527.5 | 10.0 | ug/L | 500 | ND | 106 | 71-143 | | | |
| 1,1,1-Trichloroethane | 524.3 | 10.0 | ug/L | 500 | ND | 105 | 63-133 | | | |
| Carbon Tetrachloride | 536.0 | 10.0 | ug/L | 500 | ND | 107 | 63-142 | | | |
| Benzene | 535.6 | 10.0 | ug/L | 500 | ND | 107 | 69-133 | | | |
| 1,2-Dichloroethane | 577.4 | 10.0 | ug/L | 500 | ND | 115 | 63-138 | | | |
| Trichloroethylene | 515.3 | 10.0 | ug/L | 500 | ND | 103 | 71-133 | | | |
| 1,2-Dichloropropane | 520.9 | 10.0 | ug/L | 500 | ND | 104 | 69-132 | | | |
| Dibromomethane | 538.8 | 10.0 | ug/L | 500 | ND | 108 | 70-147 | | | |

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CERTIFICATE OF ANALYSIS

1HJ1340

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------------------------|------|-------|---|---------------|------|-------------|-------|-----------|-------|
| Batch 1HJ1301 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Matrix Spike (1HJ1301-MS2) | Source: 1HJ1340-05 | | | Prepared: 10/21/24 00:00 Analyzed: 10/22/24 05:09 | | | | | | |
| Bromodichloromethane | 524.5 | 10.0 | ug/L | 500 | ND | 105 | 67-130 | | | |
| cis-1,3-Dichloropropene | 483.7 | 10.0 | ug/L | 500 | ND | 96.7 | 61-126 | | | |
| 4-Methyl-2-pentanone (MIBK) | 1146 | 50.0 | ug/L | 1000 | ND | 115 | 55-147 | | | |
| Toluene | 518.7 | 10.0 | ug/L | 500 | ND | 104 | 71-133 | | | |
| trans-1,3-Dichloropropene | 496.1 | 10.0 | ug/L | 500 | ND | 99.2 | 63-124 | | | |
| 1,1,2-Trichloroethane | 519.0 | 10.0 | ug/L | 500 | ND | 104 | 69-133 | | | |
| Tetrachloroethylene | 525.7 | 10.0 | ug/L | 500 | ND | 105 | 70-124 | | | |
| 2-Hexanone (MBK) | 1112 | 50.0 | ug/L | 993 | ND | 112 | 53-141 | | | |
| Dibromochloromethane | 522.0 | 10.0 | ug/L | 500 | ND | 104 | 74-122 | | | |
| 1,2-Dibromoethane | 528.2 | 10.0 | ug/L | 500 | ND | 106 | 66-127 | | | |
| Chlorobenzene | 516.0 | 10.0 | ug/L | 500 | ND | 103 | 76-116 | | | |
| 1,1,1,2-Tetrachloroethane | 538.7 | 10.0 | ug/L | 500 | ND | 108 | 77-121 | | | |
| Ethylbenzene | 549.3 | 10.0 | ug/L | 500 | ND | 110 | 73-124 | | | |
| Xylenes, total | 1596 | 20.0 | ug/L | 1500 | ND | 106 | 75-123 | | | |
| Styrene | 545.0 | 10.0 | ug/L | 500 | ND | 109 | 70-120 | | | |
| Bromoform | 508.8 | 10.0 | ug/L | 500 | ND | 102 | 70-124 | | | |
| 1,2,3-Trichloropropane | 534.2 | 10.0 | ug/L | 500 | ND | 107 | 62-135 | | | |
| trans-1,4-Dichloro-2-butene | 953.8 | 50.0 | ug/L | 1030 | ND | 92.8 | 50-120 | | | |
| 1,1,2,2-Tetrachloroethane | 529.2 | 10.0 | ug/L | 500 | ND | 106 | 63-126 | | | |
| 1,4-Dichlorobenzene | 504.5 | 10.0 | ug/L | 500 | ND | 101 | 72-119 | | | |
| 1,2-Dichlorobenzene | 518.5 | 10.0 | ug/L | 500 | ND | 104 | 71-117 | | | |
| 1,2-Dibromo-3-chloropropane | 464.1 | 50.0 | ug/L | 500 | ND | 92.8 | 49-134 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 508 | | ug/L | 502 | | 101 | 57-134 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 508 | | ug/L | 502 | | 101 | 75-136 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 527 | | ug/L | 504 | | 105 | 53-140 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 527 | | ug/L | 504 | | 105 | 61-142 | | | |
| <i>Surrogate: Toluene-d8</i> | 507 | | ug/L | 505 | | 101 | 86-114 | | | |
| <i>Surrogate: Toluene-d8</i> | 507 | | ug/L | 505 | | 101 | 82-121 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 498 | | ug/L | 502 | | 99.4 | 78-121 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 498 | | ug/L | 502 | | 99.4 | 80-116 | | | |
| Matrix Spike Dup (1HJ1301-MSD1) | Source: 1HJ1342-01 | | | Prepared: 10/21/24 00:00 Analyzed: 10/22/24 04:47 | | | | | | |
| Chloromethane | 338.4 | 10.0 | ug/L | 300 | ND | 113 | 61-152 | 5.57 | 26 | |
| Vinyl Chloride | 322.6 | 10.0 | ug/L | 300 | ND | 108 | 66-149 | 3.53 | 23 | |
| Bromomethane | 355.2 | 10.0 | ug/L | 300 | ND | 118 | 43-171 | 1.12 | 29 | |
| Chloroethane | 275.2 | 10.0 | ug/L | 300 | ND | 91.7 | 69-148 | 4.72 | 25 | |
| Trichlorofluoromethane | 265.5 | 10.0 | ug/L | 300 | ND | 88.5 | 62-163 | 3.33 | 25 | |
| 1,1-Dichloroethylene | 492.8 | 10.0 | ug/L | 500 | ND | 98.6 | 70-148 | 3.72 | 22 | |
| Acetone | 1172 | 100 | ug/L | 1010 | ND | 116 | 45-173 | 1.50 | 30 | |
| Methyl Iodide | 1055 | 10.0 | ug/L | 1020 | ND | 104 | 62-167 | 0.618 | 24 | |
| Carbon Disulfide | 744.0 | 10.0 | ug/L | 1030 | ND | 72.4 | 71-163 | 2.86 | 22 | |
| Methylene Chloride | 501.1 | 50.0 | ug/L | 500 | ND | 100 | 69-140 | 2.46 | 19 | |
| Acrylonitrile | 894.9 | 50.0 | ug/L | 1000 | ND | 89.1 | 38-147 | 0.923 | 30 | |
| trans-1,2-Dichloroethylene | 516.5 | 10.0 | ug/L | 500 | ND | 103 | 69-144 | 2.24 | 22 | |



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1340

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------------------------|------|-------|---|---------------|------|-------------|--------|-----------|-------|
| Batch 1HJ1301 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Matrix Spike Dup (1HJ1301-MSD1) | Source: 1HJ1342-01 | | | Prepared: 10/21/24 00:00 Analyzed: 10/22/24 04:47 | | | | | | |
| 1,1-Dichloroethane | 509.5 | 10.0 | ug/L | 500 | ND | 102 | 70-138 | 3.30 | 20 | |
| Vinyl Acetate | 1004 | 50.0 | ug/L | 1000 | ND | 100 | 58-142 | 0.189 | 24 | |
| cis-1,2-Dichloroethylene | 502.3 | 10.0 | ug/L | 500 | ND | 100 | 68-151 | 0.615 | 22 | |
| 2-Butanone (MEK) | 1066 | 100 | ug/L | 1020 | ND | 105 | 50-160 | 1.74 | 23 | |
| Bromochloromethane | 527.1 | 10.0 | ug/L | 500 | ND | 105 | 65-143 | 0.209 | 22 | |
| Chloroform | 509.8 | 10.0 | ug/L | 500 | ND | 102 | 71-143 | 1.25 | 21 | |
| 1,1,1-Trichloroethane | 505.3 | 10.0 | ug/L | 500 | ND | 101 | 63-133 | 1.24 | 23 | |
| Carbon Tetrachloride | 512.1 | 10.0 | ug/L | 500 | ND | 102 | 63-142 | 1.59 | 22 | |
| Benzene | 511.3 | 10.0 | ug/L | 500 | ND | 102 | 69-133 | 3.59 | 18 | |
| 1,2-Dichloroethane | 559.4 | 10.0 | ug/L | 500 | ND | 112 | 63-138 | 1.19 | 20 | |
| Trichloroethylene | 494.4 | 10.0 | ug/L | 500 | ND | 98.9 | 71-133 | 2.69 | 23 | |
| 1,2-Dichloropropane | 505.6 | 10.0 | ug/L | 500 | ND | 101 | 69-132 | 0.847 | 20 | |
| Dibromomethane | 527.3 | 10.0 | ug/L | 500 | ND | 105 | 70-147 | 0.548 | 22 | |
| Bromodichloromethane | 509.6 | 10.0 | ug/L | 500 | ND | 102 | 67-130 | 0.801 | 21 | |
| cis-1,3-Dichloropropene | 470.1 | 10.0 | ug/L | 500 | ND | 94.0 | 61-126 | 0.0638 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 1099 | 50.0 | ug/L | 1000 | ND | 110 | 55-147 | 0.447 | 23 | |
| Toluene | 493.5 | 10.0 | ug/L | 500 | ND | 98.7 | 71-133 | 2.60 | 19 | |
| trans-1,3-Dichloropropene | 482.6 | 10.0 | ug/L | 500 | ND | 96.5 | 63-124 | 0.270 | 21 | |
| 1,1,2-Trichloroethane | 502.7 | 10.0 | ug/L | 500 | ND | 101 | 69-133 | 1.25 | 19 | |
| Tetrachloroethylene | 506.9 | 10.0 | ug/L | 500 | ND | 101 | 70-124 | 0.884 | 24 | |
| 2-Hexanone (MBK) | 1045 | 50.0 | ug/L | 993 | ND | 105 | 53-141 | 0.0766 | 24 | |
| Dibromochloromethane | 506.2 | 10.0 | ug/L | 500 | ND | 101 | 74-122 | 0.158 | 21 | |
| 1,2-Dibromoethane | 513.8 | 10.0 | ug/L | 500 | ND | 103 | 66-127 | 0.742 | 23 | |
| Chlorobenzene | 497.7 | 10.0 | ug/L | 500 | ND | 99.5 | 76-116 | 1.42 | 21 | |
| 1,1,1,2-Tetrachloroethane | 522.6 | 10.0 | ug/L | 500 | ND | 105 | 77-121 | 0.153 | 25 | |
| Ethylbenzene | 525.0 | 10.0 | ug/L | 500 | ND | 105 | 73-124 | 1.64 | 20 | |
| Xylenes, total | 1527 | 20.0 | ug/L | 1500 | ND | 102 | 75-123 | 1.16 | 20 | |
| Styrene | 524.3 | 10.0 | ug/L | 500 | ND | 105 | 70-120 | 0.590 | 23 | |
| Bromoform | 498.5 | 10.0 | ug/L | 500 | ND | 99.7 | 70-124 | 1.19 | 22 | |
| 1,2,3-Trichloropropane | 517.3 | 10.0 | ug/L | 500 | ND | 103 | 62-135 | 2.09 | 28 | |
| trans-1,4-Dichloro-2-butene | 912.3 | 50.0 | ug/L | 1030 | ND | 88.7 | 50-120 | 1.56 | 26 | |
| 1,1,2,2-Tetrachloroethane | 512.7 | 10.0 | ug/L | 500 | ND | 103 | 63-126 | 1.32 | 24 | |
| 1,4-Dichlorobenzene | 484.4 | 10.0 | ug/L | 500 | ND | 96.9 | 72-119 | 0.515 | 24 | |
| 1,2-Dichlorobenzene | 499.1 | 10.0 | ug/L | 500 | ND | 99.8 | 71-117 | 1.14 | 24 | |
| 1,2-Dibromo-3-chloropropane | 434.2 | 50.0 | ug/L | 500 | ND | 86.8 | 49-134 | 1.10 | 28 | |
| Surrogate: Dibromofluoromethane | 512 | | ug/L | 502 | | 102 | 57-134 | | | |
| Surrogate: Dibromofluoromethane | 512 | | ug/L | 502 | | 102 | 75-136 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 531 | | ug/L | 504 | | 105 | 53-140 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 531 | | ug/L | 504 | | 105 | 61-142 | | | |
| Surrogate: Toluene-d8 | 501 | | ug/L | 505 | | 99.4 | 86-114 | | | |
| Surrogate: Toluene-d8 | 501 | | ug/L | 505 | | 99.4 | 82-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 500 | | ug/L | 502 | | 99.7 | 78-121 | | | |
| Surrogate: 4-Bromofluorobenzene | 500 | | ug/L | 502 | | 99.7 | 80-116 | | | |

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CERTIFICATE OF ANALYSIS

1HJ1340

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------------------------|------|-------|---|---------------|------|-------------|--------|-----------|-------|
| Batch 1HJ1301 - EPA 5030B - EPA 8260B | | | | | | | | | | |
| Matrix Spike Dup (1HJ1301-MSD2) | Source: 1HJ1340-05 | | | Prepared: 10/21/24 00:00 Analyzed: 10/22/24 05:32 | | | | | | |
| Chloromethane | 337.5 | 10.0 | ug/L | 300 | ND | 112 | 61-152 | 2.92 | 26 | |
| Vinyl Chloride | 315.4 | 10.0 | ug/L | 300 | ND | 105 | 66-149 | 6.15 | 23 | |
| Bromomethane | 355.1 | 10.0 | ug/L | 300 | ND | 118 | 43-171 | 3.27 | 29 | |
| Chloroethane | 281.7 | 10.0 | ug/L | 300 | ND | 93.9 | 69-148 | 1.58 | 25 | |
| Trichlorofluoromethane | 262.5 | 10.0 | ug/L | 300 | ND | 87.5 | 62-163 | 4.76 | 25 | |
| 1,1-Dichloroethylene | 494.6 | 10.0 | ug/L | 500 | ND | 98.9 | 70-148 | 4.37 | 22 | |
| Acetone | 1220 | 100 | ug/L | 1010 | ND | 121 | 45-173 | 0.139 | 30 | |
| Methyl Iodide | 1068 | 10.0 | ug/L | 1020 | ND | 105 | 62-167 | 2.38 | 24 | |
| Carbon Disulfide | 745.3 | 10.0 | ug/L | 1030 | ND | 72.6 | 71-163 | 3.92 | 22 | |
| Methylene Chloride | 510.6 | 50.0 | ug/L | 500 | ND | 102 | 69-140 | 1.59 | 19 | |
| Acrylonitrile | 918.8 | 50.0 | ug/L | 1000 | ND | 91.5 | 38-147 | 1.39 | 30 | |
| trans-1,2-Dichloroethylene | 518.9 | 10.0 | ug/L | 500 | ND | 104 | 69-144 | 3.54 | 22 | |
| 1,1-Dichloroethane | 513.8 | 10.0 | ug/L | 500 | ND | 103 | 70-138 | 4.10 | 20 | |
| Vinyl Acetate | 1030 | 50.0 | ug/L | 1000 | ND | 103 | 58-142 | 1.37 | 24 | |
| cis-1,2-Dichloroethylene | 499.5 | 10.0 | ug/L | 500 | ND | 99.9 | 68-151 | 3.35 | 22 | |
| 2-Butanone (MEK) | 1127 | 100 | ug/L | 1020 | ND | 111 | 50-160 | 2.23 | 23 | |
| Bromochloromethane | 529.1 | 10.0 | ug/L | 500 | ND | 106 | 65-143 | 0.903 | 22 | |
| Chloroform | 510.3 | 10.0 | ug/L | 500 | ND | 102 | 71-143 | 3.31 | 21 | |
| 1,1,1-Trichloroethane | 505.3 | 10.0 | ug/L | 500 | ND | 101 | 63-133 | 3.69 | 23 | |
| Carbon Tetrachloride | 513.8 | 10.0 | ug/L | 500 | ND | 103 | 63-142 | 4.23 | 22 | |
| Benzene | 518.7 | 10.0 | ug/L | 500 | ND | 104 | 69-133 | 3.21 | 18 | |
| 1,2-Dichloroethane | 570.9 | 10.0 | ug/L | 500 | ND | 114 | 63-138 | 1.13 | 20 | |
| Trichloroethylene | 499.2 | 10.0 | ug/L | 500 | ND | 99.8 | 71-133 | 3.17 | 23 | |
| 1,2-Dichloropropane | 510.8 | 10.0 | ug/L | 500 | ND | 102 | 69-132 | 1.96 | 20 | |
| Dibromomethane | 540.7 | 10.0 | ug/L | 500 | ND | 108 | 70-147 | 0.352 | 22 | |
| Bromodichloromethane | 514.7 | 10.0 | ug/L | 500 | ND | 103 | 67-130 | 1.89 | 21 | |
| cis-1,3-Dichloropropene | 483.2 | 10.0 | ug/L | 500 | ND | 96.6 | 61-126 | 0.103 | 21 | |
| 4-Methyl-2-pentanone (MIBK) | 1149 | 50.0 | ug/L | 1000 | ND | 115 | 55-147 | 0.218 | 23 | |
| Toluene | 499.6 | 10.0 | ug/L | 500 | ND | 99.9 | 71-133 | 3.75 | 19 | |
| trans-1,3-Dichloropropene | 495.5 | 10.0 | ug/L | 500 | ND | 99.1 | 63-124 | 0.121 | 21 | |
| 1,1,2-Trichloroethane | 515.6 | 10.0 | ug/L | 500 | ND | 103 | 69-133 | 0.657 | 19 | |
| Tetrachloroethylene | 501.0 | 10.0 | ug/L | 500 | ND | 100 | 70-124 | 4.81 | 24 | |
| 2-Hexanone (MBK) | 1110 | 50.0 | ug/L | 993 | ND | 112 | 53-141 | 0.198 | 24 | |
| Dibromochloromethane | 513.4 | 10.0 | ug/L | 500 | ND | 103 | 74-122 | 1.66 | 21 | |
| 1,2-Dibromoethane | 532.2 | 10.0 | ug/L | 500 | ND | 106 | 66-127 | 0.754 | 23 | |
| Chlorobenzene | 501.1 | 10.0 | ug/L | 500 | ND | 100 | 76-116 | 2.93 | 21 | |
| 1,1,1,2-Tetrachloroethane | 522.9 | 10.0 | ug/L | 500 | ND | 105 | 77-121 | 2.98 | 25 | |
| Ethylbenzene | 524.9 | 10.0 | ug/L | 500 | ND | 105 | 73-124 | 4.54 | 20 | |
| Xylenes, total | 1539 | 20.0 | ug/L | 1500 | ND | 103 | 75-123 | 3.66 | 20 | |
| Styrene | 531.3 | 10.0 | ug/L | 500 | ND | 106 | 70-120 | 2.55 | 23 | |
| Bromoform | 517.2 | 10.0 | ug/L | 500 | ND | 103 | 70-124 | 1.64 | 22 | |
| 1,2,3-Trichloropropane | 534.6 | 10.0 | ug/L | 500 | ND | 107 | 62-135 | 0.0748 | 28 | |
| trans-1,4-Dichloro-2-butene | 943.8 | 50.0 | ug/L | 1030 | ND | 91.8 | 50-120 | 1.05 | 26 | |

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Table with 11 columns: Determination of Volatile Organic Compounds, Result, RL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes. Includes data for Batch 1HJ1301 - EPA 5030B - EPA 8260B and Matrix Spike Dup (1HJ1301-MSD2).

Table with 11 columns: Determination of Base/Neutral Extractable Compounds, Result, RL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes. Includes data for Batch 1HJ1135 - EPA 625 BNA - EPA 8270C and LCS (1HJ1135-BS1).

Table with 11 columns: Determination of Total Metals, Result, RL, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes. Includes data for Batch 1HJ1014 - EPA 3005A Total Recoverable Metals - EPA 6020A.



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| Determination of Total Metals | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---------|--------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch 1HJ1014 - EPA 3005A Total Recoverable Metals - EPA 6020A | | | | | | | | | | |
| Blank (1HJ1014-BLK1) | | | | | | | | | | |
| Prepared: 10/17/24 07:59 Analyzed: 10/18/24 16:52 | | | | | | | | | | |
| Barium, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | | | | | | | |
| Chromium, total | <0.0080 | 0.0080 | mg/L | | | | | | | |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | | | | | | | |
| Copper, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Lead, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Nickel, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Selenium, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Silver, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Thallium, total | <0.0020 | 0.0020 | mg/L | | | | | | | |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | | | | | | | |
| Zinc, total | <0.0200 | 0.0200 | mg/L | | | | | | | |
| LCS (1HJ1014-BS1) | | | | | | | | | | |
| Prepared: 10/17/24 07:59 Analyzed: 10/18/24 16:59 | | | | | | | | | | |
| Antimony, total | 0.0949 | 0.0020 | mg/L | 0.100 | | 94.9 | 80-120 | | | |
| Arsenic, total | 0.0935 | 0.0040 | mg/L | 0.100 | | 93.5 | 80-120 | | | |
| Barium, total | 0.101 | 0.0040 | mg/L | 0.100 | | 101 | 80-120 | | | |
| Beryllium, total | 0.100 | 0.0040 | mg/L | 0.100 | | 100 | 80-120 | | | |
| Cadmium, total | 0.0964 | 0.0008 | mg/L | 0.100 | | 96.4 | 80-120 | | | |
| Chromium, total | 0.0941 | 0.0080 | mg/L | 0.100 | | 94.1 | 80-120 | | | |
| Cobalt, total | 0.0947 | 0.0004 | mg/L | 0.100 | | 94.7 | 80-120 | | | |
| Copper, total | 0.0949 | 0.0040 | mg/L | 0.100 | | 94.9 | 80-120 | | | |
| Lead, total | 0.0962 | 0.0040 | mg/L | 0.100 | | 96.2 | 80-120 | | | |
| Nickel, total | 0.0946 | 0.0040 | mg/L | 0.100 | | 94.6 | 80-120 | | | |
| Selenium, total | 0.0939 | 0.0040 | mg/L | 0.100 | | 93.9 | 80-120 | | | |
| Silver, total | 0.0953 | 0.0040 | mg/L | 0.100 | | 95.3 | 80-120 | | | |
| Thallium, total | 0.0915 | 0.0020 | mg/L | 0.100 | | 91.5 | 80-120 | | | |
| Vanadium, total | 0.0934 | 0.0200 | mg/L | 0.100 | | 93.4 | 80-120 | | | |
| Zinc, total | 0.0969 | 0.0200 | mg/L | 0.100 | | 96.9 | 80-120 | | | |
| Matrix Spike (1HJ1014-MS1) | | | | | | | | | | |
| Source: 1HJ1141-02 Prepared: 10/17/24 07:59 Analyzed: 10/22/24 14:01 | | | | | | | | | | |
| Antimony, total | 0.0964 | 0.0020 | mg/L | 0.100 | ND | 96.4 | 75-125 | | | |
| Arsenic, total | 0.103 | 0.0040 | mg/L | 0.100 | 0.0028 | 100 | 75-125 | | | |
| Barium, total | 0.130 | 0.0040 | mg/L | 0.100 | 0.0260 | 104 | 75-125 | | | |
| Beryllium, total | 0.0892 | 0.0040 | mg/L | 0.100 | ND | 89.2 | 75-125 | | | |
| Cadmium, total | 0.0916 | 0.0008 | mg/L | 0.100 | ND | 91.6 | 75-125 | | | |
| Chromium, total | 0.0893 | 0.0080 | mg/L | 0.100 | 0.0008 | 88.5 | 75-125 | | | |
| Cobalt, total | 0.0964 | 0.0004 | mg/L | 0.100 | ND | 96.4 | 75-125 | | | |
| Copper, total | 0.0908 | 0.0040 | mg/L | 0.100 | 0.0014 | 89.4 | 75-125 | | | |
| Lead, total | 0.0913 | 0.0040 | mg/L | 0.100 | ND | 91.3 | 75-125 | | | |
| Nickel, total | 0.102 | 0.0040 | mg/L | 0.100 | 0.0096 | 92.0 | 75-125 | | | |
| Selenium, total | 0.0937 | 0.0040 | mg/L | 0.100 | ND | 93.7 | 75-125 | | | |
| Silver, total | 0.0937 | 0.0040 | mg/L | 0.100 | ND | 93.7 | 75-125 | | | |
| Thallium, total | 0.0944 | 0.0020 | mg/L | 0.100 | 0.0003 | 94.1 | 75-125 | | | |



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| Determination of Total Metals | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch 1HJ1014 - EPA 3005A Total Recoverable Metals - EPA 6020A | | | | | | | | | | |
| Matrix Spike (1HJ1014-MS1) Source: 1HJ1141-02 Prepared: 10/17/24 07:59 Analyzed: 10/22/24 14:01 | | | | | | | | | | |
| Vanadium, total | 0.100 | 0.0200 | mg/L | 0.100 | ND | 100 | 75-125 | | | |
| Zinc, total | 0.215 | 0.0200 | mg/L | 0.100 | ND | 215 | 75-125 | | | M1 |
| Matrix Spike Dup (1HJ1014-MSD1) Source: 1HJ1141-02 Prepared: 10/17/24 07:59 Analyzed: 10/22/24 14:08 | | | | | | | | | | |
| Antimony, total | 0.0851 | 0.0020 | mg/L | 0.100 | ND | 85.1 | 75-125 | 12.4 | 20 | |
| Arsenic, total | 0.0919 | 0.0040 | mg/L | 0.100 | 0.0028 | 89.1 | 75-125 | 11.2 | 20 | |
| Barium, total | 0.116 | 0.0040 | mg/L | 0.100 | 0.0260 | 89.7 | 75-125 | 11.4 | 20 | |
| Beryllium, total | 0.0779 | 0.0040 | mg/L | 0.100 | ND | 77.9 | 75-125 | 13.5 | 20 | |
| Cadmium, total | 0.0837 | 0.0008 | mg/L | 0.100 | ND | 83.7 | 75-125 | 9.01 | 20 | |
| Chromium, total | 0.0822 | 0.0080 | mg/L | 0.100 | 0.0008 | 81.4 | 75-125 | 8.24 | 20 | |
| Cobalt, total | 0.0862 | 0.0004 | mg/L | 0.100 | ND | 86.2 | 75-125 | 11.2 | 20 | |
| Copper, total | 0.0808 | 0.0040 | mg/L | 0.100 | 0.0014 | 79.5 | 75-125 | 11.6 | 20 | |
| Lead, total | 0.0824 | 0.0040 | mg/L | 0.100 | ND | 82.4 | 75-125 | 10.3 | 20 | |
| Nickel, total | 0.0922 | 0.0040 | mg/L | 0.100 | 0.0096 | 82.6 | 75-125 | 9.71 | 20 | |
| Selenium, total | 0.0888 | 0.0040 | mg/L | 0.100 | ND | 88.8 | 75-125 | 5.37 | 20 | |
| Silver, total | 0.0835 | 0.0040 | mg/L | 0.100 | ND | 83.5 | 75-125 | 11.5 | 20 | |
| Thallium, total | 0.0840 | 0.0020 | mg/L | 0.100 | 0.0003 | 83.7 | 75-125 | 11.7 | 20 | |
| Vanadium, total | 0.0901 | 0.0200 | mg/L | 0.100 | ND | 90.1 | 75-125 | 10.6 | 20 | |
| Zinc, total | 0.0862 | 0.0200 | mg/L | 0.100 | ND | 86.2 | 75-125 | 85.7 | 20 | R1 |
| Post Spike (1HJ1014-PS1) Source: 1HJ1141-02 Prepared: 10/17/24 07:59 Analyzed: 10/22/24 14:14 | | | | | | | | | | |
| Antimony, total | 0.0777 | | mg/L | 0.0800 | 0.0001 | 97.0 | 80-120 | | | |
| Arsenic, total | 0.0831 | | mg/L | 0.0800 | 0.0027 | 100 | 80-120 | | | |
| Barium, total | 0.104 | | mg/L | 0.0800 | 0.0255 | 97.9 | 80-120 | | | |
| Beryllium, total | 0.0715 | | mg/L | 0.0800 | 0.00002 | 89.3 | 80-120 | | | |
| Cadmium, total | 0.0740 | | mg/L | 0.0800 | 0.00006 | 92.4 | 80-120 | | | |
| Chromium, total | 0.0726 | | mg/L | 0.0800 | 0.0008 | 89.8 | 80-120 | | | |
| Cobalt, total | 0.0774 | | mg/L | 0.0800 | 0.00008 | 96.7 | 80-120 | | | |
| Copper, total | 0.0734 | | mg/L | 0.0800 | 0.0013 | 90.1 | 80-120 | | | |
| Lead, total | 0.0739 | | mg/L | 0.0800 | 0.0001 | 92.2 | 80-120 | | | |
| Nickel, total | 0.0829 | | mg/L | 0.0800 | 0.0094 | 91.8 | 80-120 | | | |
| Selenium, total | 0.0759 | | mg/L | 0.0800 | 0.00002 | 94.9 | 80-120 | | | |
| Silver, total | 0.0744 | | mg/L | 0.0800 | 0.0002 | 92.8 | 80-120 | | | |
| Thallium, total | 0.0761 | | mg/L | 0.0800 | 0.0003 | 94.7 | 80-120 | | | |
| Vanadium, total | 0.0837 | | mg/L | 0.0800 | 0.0073 | 95.5 | 80-120 | | | |
| Zinc, total | 0.0781 | | mg/L | 0.0800 | 0.0099 | 85.2 | 80-120 | | | |

Definitions

- M1:** Matrix spike 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



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Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 0.3°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 Tisdale
Customer Relationship Specialist
10/25/24 16:10



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

CHAIN OF CUSTODY REPORT



1 H J 1 3 4 0

HLW Engineering
 PM: Heather Murphy

Page 1 of
 Printed: 10/3/2024 2:55:00P

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SITE INFORMATION

Sampler: JGH
Project: Audubon Co. - New Regs
6050

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

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1HJ1340
Temperature 0.3
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 | 10/15/24 | 10:23 | 7 | Indfil-app1-voc-group Indfil-app1-metals-6020 | 01 |
| -001 | MW-90-7 | Aqueous | GRAB | 10/15/24 | 10:55 | 8 | 2270-110 Indfil-app1-voc-group Indfil-app1-metals-6020 | 02 |
| -001 | MW-90-14 | Aqueous | GRAB | 10/15/24 | 9:45 | 7 | Indfil-app1-voc-group Indfil-app1-metals-6020 | 03 |
| -001 | MW-90-17 | Aqueous | GRAB | 10/15/24 | 9:14 | 7 | Indfil-app1-voc-group Indfil-app1-metals-6020 | 04 |
| -001 | MW-91-19 | Aqueous | GRAB | 10/15/24 | 10:11 | 8 | 2270-110 Indfil-app1-voc-group Indfil-app1-metals-6020 | 05 |
| -001 | MW-91-20 | Aqueous | GRAB | 10/15/24 | 9:27 | 7 | Indfil-app1-voc-group Indfil-app1-metals-6020 | 06 |
| -001 | SW-3 | Aqueous | GRAB | 10/15/24 | 10:31 | 7 | Indfil-app1-voc-group Indfil-app1-metals-6020 | 07 |

J. Lopez 10/16/24
 Relinquished By Date/Time
mm mm 10/16/24
 Received By Date/Time

[Signature] 10/16/2024 10:26 AM
 Relinquished By Date/Time
 Received for Lab By Date/Time

Remarks:



CHAIN OF CUSTODY

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



1 H J 1 3 4 0

HLW Engineering
PM: Heather Murphy

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

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

LAB USE ONLY

Work Order _____

Temperature 0.3

Turn-Cooler: NO

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

| Number | Sample Identification / Client ID | Matrix | Sample Type | Date | Time | Number of Containers | Analyses | Lab Sample Number |
|--------|-----------------------------------|---------|-------------|----------|------|----------------------|---|-------------------|
| -001 | Duplicate | Aqueous | GRAB | 10/15/24 | 9:14 | 7 | Indfll-app1-voc-group Indfll-app1-metals-6020 | 08 |

[Signature] 10/16/24
Relinquished By Date/Time
[Signature] 10/16/24
Received By Date/Time

[Signature] 10/16/2024 10:26 AM
Relinquished By Date/Time
Received for Lab By Date/Time

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 2024

Prepared for:
Audubon County Solid Waste Management Commission
1881 215th Street
Audubon, Iowa 50025

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

May 2024

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 2024 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 18, 2024 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 2024 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. 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 2024**

| Well | Trace Metal Detected | Result, µg/L | Prediction Limit, µg/L | Prediction Limit Type | Verified/ Awaiting verification |
|---------|----------------------|--------------|------------------------|-----------------------|------------------------------------|
| MW90-14 | Nickel | 13.1 | 7.1000 | Nonparametric | Verified |
| MW90-4 | Barium | 375 | 363.9328 | Normal | Awaiting verification |
| MW90-7 | Cobalt | 1.9 | 0.8000 | Nonparametric | Verified |
| | Nickel | 28.4 | 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 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. If the Dixon test indicates an outlier, the value is compared to three times the median value for intrawell analyses. If the value fails both criteria of the two-stage screening, the value is considered a statistical outlier and will not

be used in the mean and variance determinations. Anomalous data will still be plotted on the graphs (with a unique symbol) but will not be included in the calculations.

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

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

Results of the Intrawell Statistics

The Appendix I trace metals data from 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, there were no control limit exceedances detected.

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 3 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 but there are detections of bis(2-ethylhexyl)phthalate (18 µg/L) at MW90-7 and bis(2-ethylhexyl)phthalate (13 µg/L) at MW91-19.

The current and previous bis(2-ethylhexyl)phthalate detections were evaluated against the ground water protection standards (GWPS) using confidence limits. 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 95% LCLs for bis(2-ethylhexyl)phthalate do not exceed the USEPA MCL of 6 µg/L.

Historical VOC detections are summarized in Attachment E.

Attachment A

Ground Water Data obtained during the First Semi-Annual Monitoring Event in 2024

Table 1

Analytical Data Summary for 4/18/2024

| Constituents | Units | MW90-14 | MW90-17 | MW90-4 | MW90-7 | MW91-19 | MW91-20 | SW-3 |
|----------------------------------|-------|---------|---------|--------|--------|---------|---------|------|
| (3,4)-methylphenol | ug/L | | | | <8 | <8 | | |
| 1,1,1,2-tetrachloroethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-trichloroethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,2,2-tetrachloroethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,2-trichloroethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-dichloroethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-dichloroethene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-dichloropropene | ug/L | | | | <1 | <1 | | |
| 1,2,3-trichloropropane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2,4,5-tetrachlorobenzene | ug/L | | | | <8 | <8 | | |
| 1,2,4-trichlorobenzene | ug/L | | | | <1 | <1 | | |
| 1,2-dibromo-3-chloropropane | ug/L | <5 | <5 | <5 | <1 | <1 | <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 |
| 1,2-dinitrobenzene | ug/L | | | | <8 | <8 | | |
| 1,3,5-trinitrobenzene | ug/L | | | | <8 | <8 | | |
| 1,3-dichlorobenzene | ug/L | | | | <1 | <1 | | |
| 1,3-dichloropropane | ug/L | | | | <1 | <1 | | |
| 1,3-dinitrobenzene | ug/L | | | | <8 | <8 | | |
| 1,4-dichlorobenzene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,4-naphthoquinone | ug/L | | | | <8 | <8 | | |
| 1,4-phenylenediamine | ug/L | | | | <8 | <8 | | |
| 1-naphthylamine | ug/L | | | | <8 | <8 | | |
| 2,2-dichloropropane | ug/L | | | | <1 | <1 | | |
| 2,3,4,6-tetrachlorophenol | ug/L | | | | <8 | <8 | | |
| 2,4,5-t | ug/L | | | | <5 | <5 | | |
| 2,4,5-tp (silvex) | ug/L | | | | <5 | <5 | | |
| 2,4,5-trichlorophenol | ug/L | | | | <8 | <8 | | |
| 2,4,6-trichlorophenol | ug/L | | | | <8 | <8 | | |
| 2,4-d | ug/L | | | | <2 | <2 | | |
| 2,4-dichlorophenol | ug/L | | | | <8 | <8 | | |
| 2,4-dimethylphenol | ug/L | | | | <8 | <8 | | |
| 2,4-dinitrophenol | ug/L | | | | <8 | <8 | | |
| 2,4-dinitrotoluene | ug/L | | | | <8 | <8 | | |
| 2,6-dichlorophenol | ug/L | | | | <8 | <8 | | |
| 2,6-dinitrotoluene | ug/L | | | | <8 | <8 | | |
| 2-acetylaminofluorene | ug/L | | | | <8 | <8 | | |
| 2-butanone (mek) | ug/L | <10 | <10 | <10 | <5 | <5 | <10 | <10 |
| 2-chloronaphthalene | ug/L | | | | <8 | <8 | | |
| 2-chlorophenol | ug/L | | | | <8 | <8 | | |
| 2-hexanone | ug/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 2-methylnaphthalene | ug/L | | | | <8 | <8 | | |
| 2-methylphenol (o-cresol) | ug/L | | | | <8 | <8 | | |
| 2-naphthylamine | ug/L | | | | <8 | <8 | | |
| 2-nitroaniline | ug/L | | | | <8 | <8 | | |
| 2-nitrophenol | ug/L | | | | <8 | <8 | | |
| 3,3'-dichlorobenzidine | ug/L | | | | <8 | <8 | | |
| 3,3'-dimethylbenzidine | ug/L | | | | <8 | <8 | | |
| 3-methylcholanthrene | ug/L | | | | <8 | <8 | | |
| 3-nitroaniline | ug/L | | | | <8 | <8 | | |
| 4,4'-ddd | ug/L | | | | <.05 | <.05 | | |
| 4,4'-dde | ug/L | | | | <.05 | <.05 | | |
| 4,4'-ddt | ug/L | | | | <.05 | <.05 | | |
| 4,6-dinitro-2-methylphenol | ug/L | | | | <8 | <8 | | |
| 4-aminobiphenyl | ug/L | | | | <8 | <8 | | |
| 4-bromophenyl phenyl ether | ug/L | | | | <8 | <8 | | |
| 4-chloro-3-methylphenol | ug/L | | | | <8 | <8 | | |
| 4-chloroaniline | ug/L | | | | <8 | <8 | | |
| 4-chlorophenyl phenyl ether | ug/L | | | | <8 | <8 | | |
| 4-methyl-2-pentanone (mibk) | ug/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 4-nitroaniline | ug/L | | | | <8 | <8 | | |
| 4-nitrophenol | ug/L | | | | <8 | <8 | | |
| 5-nitro-o-toluidine | ug/L | | | | <8 | <8 | | |
| 7,12-dimethylbenz (a) anthracene | ug/L | | | | <8 | <8 | | |
| Acenaphthene | ug/L | | | | <8 * | <8 * | | |
| Acetone | ug/L | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Acetonitrile | ug/L | | | | <10 | <10 | | |
| Acetophenone | ug/L | | | | <8 | <8 | | |
| Acrolein | ug/L | | | | <10 | <10 | | |
| Acrylonitrile | ug/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Aldrin | ug/L | | | | <.05 | <.05 | | |
| Allyl chloride | ug/L | | | | <1 | <1 | | |
| Alpha-bhc | ug/L | | | | <.05 | <.05 | | |
| Anthracene | ug/L | | | | <8 | <8 | | |
| Antimony, total | ug/L | <2 | <2 | <2 | <2 | <2 | <2 | <2 |

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

Table 1

Analytical Data Summary for 4/18/2024

| Constituents | Units | MW90-14 | MW90-17 | MW90-4 | MW90-7 | MW91-19 | MW91-20 | SW-3 |
|-----------------------------|-------|---------|---------|--------|--------|---------|---------|------|
| Arsenic, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Azobenzene | ug/L | | | | <8 | <8 | | |
| Barium, total | ug/L | 263 | 310 | 375 | 248 | 303 | 202 | 198 |
| Benzene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Benzo(a)anthracene | ug/L | | | | <8 | <8 | | |
| Benzo(a)pyrene | ug/L | | | | <8 | <8 | | |
| Benzo(b)fluoranthene | ug/L | | | | <8 | <8 | | |
| Benzo(g,h,i)perylene | ug/L | | | | <8 | <8 | | |
| Benzo(k)fluoranthene | ug/L | | | | <8 | <8 | | |
| Benzyl alcohol | ug/L | | | | <8 | <8 | | |
| Beryllium, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Beta-bhc | ug/L | | | | <.05 | <.05 | | |
| Bis(2-chloroethoxy)methane | ug/L | | | | <8 | <8 | | |
| Bis(2-chloroethyl)ether | ug/L | | | | <8 | <8 | | |
| Bis(2-ethylhexyl)phthalate | ug/L | | | | 18 | 13 | | |
| Bis[2-chloroisopropyl]ether | ug/L | | | | <8 | <8 | | |
| Bromochloromethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromodichloromethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromoform | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromomethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Butyl benzyl phthalate | ug/L | | | | <8 | <8 | | |
| Cadmium, total | ug/L | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 |
| Carbon disulfide | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon tetrachloride | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlordane | ug/L | | | | <1 | <1 | | |
| Chlorobenzene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzilate | ug/L | | | | <8 | <8 | | |
| Chloroethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloromethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroprene | ug/L | | | | <1 | <1 | | |
| Chromium, total | ug/L | <8 | <8 | <8 | <8 | <8 | <8 | <8 |
| Chrysene | ug/L | | | | <8 | <8 | | |
| 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 | <.4 | <.4 | <.4 | 1.9 | <.4 | <.4 | <.4 |
| Copper, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Cyanide | mg/L | | | | <.005 | <.005 | | |
| Delta-bhc | ug/L | | | | <.05 | <.05 | | |
| Diallate | ug/L | | | | <8 | <8 | | |
| Dibenzo(a,h)anthracene | ug/L | | | | <8 | <8 | | |
| Dibenzofuran | ug/L | | | | <8 | <8 | | |
| Dibromochloromethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Dibromomethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Dichlorodifluoromethane | ug/L | | | | <1 | <1 | | |
| Dieldrin | ug/L | | | | <.05 | <.05 | | |
| Diethyl phthalate | ug/L | | | | <8 | <8 | | |
| Dimethoate | ug/L | | | | <.4 | <.4 | | |
| Dimethyl phthalate | ug/L | | | | <8 | <8 | | |
| Di-n-butyl phthalate | ug/L | | | | <8 | <8 | | |
| Di-n-octyl phthalate | ug/L | | | | <8 | <8 | | |
| Dinoseb | ug/L | | | | <.5 | <.5 | | |
| Diphenylamine | ug/L | | | | <8 | <8 | | |
| Disulfoton | ug/L | | | | <.4 | <.4 | | |
| Endosulfan i | ug/L | | | | <.05 | <.05 | | |
| Endosulfan ii | ug/L | | | | <.05 | <.05 | | |
| Endosulfan sulfate | ug/L | | | | <.05 | <.05 | | |
| Endrin | ug/L | | | | <.05 | <.05 | | |
| Endrin aldehyde | ug/L | | | | <.05 | <.05 | | |
| Ethyl methacrylate | ug/L | | | | <10 | <10 | | |
| Ethyl methanesulfonate | ug/L | | | | <8 | <8 | | |
| Ethylbenzene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Famphur | ug/L | | | | <.4 | <.4 | | |
| Fluoranthene | ug/L | | | | <8 | <8 | | |
| Fluorene | ug/L | | | | <8 | <8 | | |
| Gamma-bhc (lindane) | ug/L | | | | <.05 | <.05 | | |
| Heptachlor | ug/L | | | | <.05 | <.05 | | |
| Heptachlor epoxide | ug/L | | | | <.05 | <.05 | | |
| Hexachlorobenzene | ug/L | | | | <.05 | <.05 | | |
| Hexachlorobutadiene | ug/L | | | | <8 | <8 | | |
| Hexachlorocyclopentadiene | ug/L | | | | <8 | <8 | | |
| Hexachloroethane | ug/L | | | | <8 | <8 | | |
| Hexachloropropene | ug/L | | | | <8 | <8 | | |
| Indeno(1,2,3-cd)pyrene | ug/L | | | | <8 | <8 | | |
| Iodomethane | ug/L | <1 | <1 | <1 | <2 | <2 | <1 | <1 |
| Isobutanol | ug/L | | | | <1000 | <1000 | | |
| Isodrin | ug/L | | | | <8 | <8 | | |

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

Table 1

Analytical Data Summary for 4/18/2024

| Constituents | Units | MW90-14 | MW90-17 | MW90-4 | MW90-7 | MW91-19 | MW91-20 | SW-3 |
|---------------------------------|-------|---------|---------|--------|--------|---------|---------|------|
| Isophorone | ug/L | | | | <8 | <8 | | |
| Isosafrole | ug/L | | | | <8 | <8 | | |
| Kepone | ug/L | | | | <8 | <8 | | |
| Lead, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Mercury, total | ug/L | | | | <.5 | <.5 | | |
| Methacrylonitrile | ug/L | | | | <1 | <1 | | |
| Methapyrilene | ug/L | | | | <8 | <8 | | |
| Methoxychlor | ug/L | | | | <.05 | <.05 | | |
| Methyl methacrylate | ug/L | | | | <1 | <1 | | |
| Methyl methanesulfonate | ug/L | | | | <8 | <8 | | |
| Methyl parathion | ug/L | | | | <.4 | <.4 | | |
| Methylene chloride | ug/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | ug/L | | | | <8 | <8 | | |
| Nickel, total | ug/L | 13.1 | <4.0 | <4.0 | 28.4 | <4.0 | <4.0 | <4.0 |
| Nitrobenzene | ug/L | | | | <8 | <8 | | |
| N-nitrosodiethylamine | ug/L | | | | <8 | <8 | | |
| N-nitrosodimethylamine | ug/L | | | | <8 | <8 | | |
| N-nitrosodi-n-butylamine | ug/L | | | | <8 | <8 | | |
| N-nitroso-di-n-propylamine | ug/L | | | | <8 | <8 | | |
| N-nitrosodiphenylamine | ug/L | | | | <8 | <8 | | |
| N-nitrosomethylethylamine | ug/L | | | | <8 | <8 | | |
| N-nitrosopiperidine | ug/L | | | | <8 | <8 | | |
| N-nitrosopyrrolidine | ug/L | | | | <8 | <8 | | |
| O,o,o-triethyl phosphorothioate | ug/L | | | | <.4 | <.4 | | |
| O-toluidine | ug/L | | | | <8 | <8 | | |
| P-(dimethylamino)azobenzene | ug/L | | | | <8 | <8 | | |
| Parathion | ug/L | | | | <.4 | <.4 | | |
| Pcb-1016 | ug/L | | | | <.2 | <.2 | | |
| Pcb-1221 | ug/L | | | | <.2 | <.2 | | |
| Pcb-1232 | ug/L | | | | <.2 | <.2 | | |
| Pcb-1242 | ug/L | | | | <.2 | <.2 | | |
| Pcb-1248 | ug/L | | | | <.2 | <.2 | | |
| Pcb-1254 | ug/L | | | | <.2 | <.2 | | |
| Pcb-1260 | ug/L | | | | <.2 | <.2 | | |
| Pentachlorobenzene | ug/L | | | | <8 | <8 | | |
| Pentachloronitrobenzene | ug/L | | | | <8 | <8 | | |
| Pentachlorophenol | ug/L | | | | <8 | <8 | | |
| Phenacetin | ug/L | | | | <8 | <8 | | |
| Phenanthrene | ug/L | | | | <8 | <8 | | |
| Phenol | ug/L | | | | <8 | <8 | | |
| Phorate | ug/L | | | | <.4 | <.4 | | |
| Pronamide | ug/L | | | | <8 | <8 | | |
| Propionitrile | ug/L | | | | <10 | <10 | | |
| Pyrene | ug/L | | | | <8 | <8 | | |
| Safrole | ug/L | | | | <8 | <8 | | |
| Selenium, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Silver, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Styrene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Sulfide, total | mg/L | | | | <.15 | <.15 | | |
| Tetrachloroethene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thallium, total | ug/L | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Thionazin | ug/L | | | | <.4 | <.4 | | |
| Tin, total | ug/L | | | | <20 | <20 | | |
| Toluene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Toxaphene | ug/L | | | | <.2 | <.2 | | |
| 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 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| Vinyl acetate | ug/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Xylenes, total | ug/L | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Zinc, total | ug/L | <20 | <20 | <20 | <20 | <20 | <20 | <20 |

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons

Table 1

Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|-----------------|-------|---------|------------|----|----------|----------|----|
| Antimony, total | ug/L | 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 | | |
| 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 | | |
| 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 | | |
| 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 | | |

* - 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 | 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 | | |
| Beryllium, total | ug/L | MW90-17 | 09/30/2009 | ND | 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 | 4.0000 | ** |
| 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 | | |
| 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 | | |
| 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 | | |

* - 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 | 04/05/2023 | 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 | | |
| 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 | | |
| 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 | ** |
| Cobalt, total | ug/L | MW90-17 | 04/18/2024 | ND | 0.4000 | 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 | | |

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

Table 1

Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---------------|-------|---------|------------|----|---------|----------|----|
| Copper, total | ug/L | 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 | | |
| Lead, total | ug/L | MW90-17 | 09/30/2009 | ND | 4.0000 | | |
| Lead, total | ug/L | MW90-17 | 03/23/2010 | ND | 4.0000 | 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 | | |
| 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 | | |

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

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

Table 1

Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|-------------|-------|---------|------------|----|---------|----------|----|
| Zinc, total | ug/L | 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 | ** |

* - 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 | 04/18/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW90-14 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW90-14 | 04/18/2024 | | 263.0000 | ** | 363.9328 |
| Beryllium, total | ug/L | MW90-14 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW90-14 | 04/18/2024 | ND | 0.8000 | | 1.1000 |
| Chromium, total | ug/L | MW90-14 | 04/18/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW90-14 | 04/18/2024 | ND | 0.4000 | ** | 0.8000 |
| Copper, total | ug/L | MW90-14 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Lead, total | ug/L | MW90-14 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW90-14 | 04/18/2024 | | 13.1000 | *** | 7.1000 |
| Selenium, total | ug/L | MW90-14 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW90-14 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW90-14 | 04/18/2024 | ND | 2.0000 | | 4.0000 |
| Vanadium, total | ug/L | MW90-14 | 04/18/2024 | ND | 20.0000 | | 20.1000 |
| Zinc, total | ug/L | MW90-14 | 04/18/2024 | ND | 20.0000 | | 10.5000 |
| Antimony, total | ug/L | MW90-4 | 04/18/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW90-4 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW90-4 | 04/18/2024 | | 375.0000 | * | 363.9328 |
| Beryllium, total | ug/L | MW90-4 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW90-4 | 04/18/2024 | ND | 0.8000 | | 1.1000 |
| Chromium, total | ug/L | MW90-4 | 04/18/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW90-4 | 04/18/2024 | ND | 0.4000 | | 0.8000 |
| Copper, total | ug/L | MW90-4 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Lead, total | ug/L | MW90-4 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW90-4 | 04/18/2024 | ND | 4.0000 | | 7.1000 |
| Selenium, total | ug/L | MW90-4 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW90-4 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW90-4 | 04/18/2024 | ND | 2.0000 | | 4.0000 |
| Vanadium, total | ug/L | MW90-4 | 04/18/2024 | ND | 20.0000 | | 20.1000 |
| Zinc, total | ug/L | MW90-4 | 04/18/2024 | ND | 20.0000 | | 10.5000 |
| Antimony, total | ug/L | MW90-7 | 04/18/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW90-7 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW90-7 | 04/18/2024 | | 248.0000 | | 363.9328 |
| Beryllium, total | ug/L | MW90-7 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW90-7 | 04/18/2024 | ND | 0.8000 | | 1.1000 |
| Chromium, total | ug/L | MW90-7 | 04/18/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW90-7 | 04/18/2024 | | 1.9000 | *** | 0.8000 |
| Copper, total | ug/L | MW90-7 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Lead, total | ug/L | MW90-7 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW90-7 | 04/18/2024 | | 28.4000 | *** | 7.1000 |
| Selenium, total | ug/L | MW90-7 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW90-7 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW90-7 | 04/18/2024 | ND | 2.0000 | | 4.0000 |
| Vanadium, total | ug/L | MW90-7 | 04/18/2024 | ND | 20.0000 | | 20.1000 |
| Zinc, total | ug/L | MW90-7 | 04/18/2024 | ND | 20.0000 | | 10.5000 |
| Antimony, total | ug/L | MW91-19 | 04/18/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW91-19 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW91-19 | 04/18/2024 | | 303.0000 | ** | 363.9328 |
| Beryllium, total | ug/L | MW91-19 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW91-19 | 04/18/2024 | ND | 0.8000 | | 1.1000 |
| Chromium, total | ug/L | MW91-19 | 04/18/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW91-19 | 04/18/2024 | ND | 0.4000 | ** | 0.8000 |
| Copper, total | ug/L | MW91-19 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Lead, total | ug/L | MW91-19 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW91-19 | 04/18/2024 | ND | 4.0000 | | 7.1000 |
| Selenium, total | ug/L | MW91-19 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW91-19 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW91-19 | 04/18/2024 | ND | 2.0000 | | 4.0000 |
| Vanadium, total | ug/L | MW91-19 | 04/18/2024 | ND | 20.0000 | | 20.1000 |
| Zinc, total | ug/L | MW91-19 | 04/18/2024 | ND | 20.0000 | | 10.5000 |
| Antimony, total | ug/L | MW91-20 | 04/18/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW91-20 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW91-20 | 04/18/2024 | | 202.0000 | | 363.9328 |
| Beryllium, total | ug/L | MW91-20 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW91-20 | 04/18/2024 | ND | 0.8000 | | 1.1000 |
| Chromium, total | ug/L | MW91-20 | 04/18/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW91-20 | 04/18/2024 | ND | 0.4000 | | 0.8000 |
| Copper, total | ug/L | MW91-20 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Lead, total | ug/L | MW91-20 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW91-20 | 04/18/2024 | ND | 4.0000 | | 7.1000 |
| Selenium, total | ug/L | MW91-20 | 04/18/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW91-20 | 04/18/2024 | ND | 4.0000 | | 4.0000 |

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

Table 2

Most Current Downgradient Monitoring Data

| Constituent | Units | Well | Date | | Result | Pred. Limit |
|------------------|-------|---------|------------|----|----------|-------------|
| Thallium, total | ug/L | MW91-20 | 04/18/2024 | ND | 2.0000 | 4.0000 |
| Vanadium, total | ug/L | MW91-20 | 04/18/2024 | ND | 20.0000 | 20.1000 |
| Zinc, total | ug/L | MW91-20 | 04/18/2024 | ND | 20.0000 | 10.5000 |
| Antimony, total | ug/L | SW-3 | 04/18/2024 | ND | 2.0000 | 2.0000 |
| Arsenic, total | ug/L | SW-3 | 04/18/2024 | ND | 4.0000 | 4.0000 |
| Barium, total | ug/L | SW-3 | 04/18/2024 | | 198.0000 | 363.9328 |
| Beryllium, total | ug/L | SW-3 | 04/18/2024 | ND | 4.0000 | 4.0000 |
| Cadmium, total | ug/L | SW-3 | 04/18/2024 | ND | 0.8000 | 1.1000 |
| Chromium, total | ug/L | SW-3 | 04/18/2024 | ND | 8.0000 | 8.0000 |
| Cobalt, total | ug/L | SW-3 | 04/18/2024 | ND | 0.4000 | 0.8000 |
| Copper, total | ug/L | SW-3 | 04/18/2024 | ND | 4.0000 | 4.0000 |
| Lead, total | ug/L | SW-3 | 04/18/2024 | ND | 4.0000 | 4.0000 |
| Nickel, total | ug/L | SW-3 | 04/18/2024 | ND | 4.0000 | 7.1000 |
| Selenium, total | ug/L | SW-3 | 04/18/2024 | ND | 4.0000 | 4.0000 |
| Silver, total | ug/L | SW-3 | 04/18/2024 | ND | 4.0000 | 4.0000 |
| Thallium, total | ug/L | SW-3 | 04/18/2024 | ND | 2.0000 | 4.0000 |
| Vanadium, total | ug/L | SW-3 | 04/18/2024 | ND | 20.0000 | 20.1000 |
| Zinc, total | ug/L | SW-3 | 04/18/2024 | ND | 20.0000 | 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 | Upgradient | | | Downgradient | | |
|------------------|------------|----|------------|--------------|-----|------------|
| | Detect | N | Proportion | Detect | N | Proportion |
| Antimony, total | 0 | 30 | 0.000 | 0 | 199 | 0.000 |
| Arsenic, total | 0 | 30 | 0.000 | 25 | 199 | 0.126 |
| Barium, total | 30 | 30 | 1.000 | 206 | 206 | 1.000 |
| Beryllium, total | 0 | 30 | 0.000 | 1 | 199 | 0.005 |
| Cadmium, total | 1 | 30 | 0.033 | 32 | 203 | 0.158 |
| Chromium, total | 0 | 29 | 0.000 | 1 | 199 | 0.005 |
| Cobalt, total | 0 | 30 | 0.000 | 46 | 201 | 0.229 |
| Copper, total | 0 | 30 | 0.000 | 18 | 199 | 0.090 |
| Lead, total | 0 | 30 | 0.000 | 6 | 199 | 0.030 |
| Nickel, total | 4 | 30 | 0.133 | 116 | 200 | 0.580 |
| Selenium, total | 0 | 30 | 0.000 | 15 | 199 | 0.075 |
| Silver, total | 0 | 30 | 0.000 | 0 | 199 | 0.000 |
| Thallium, total | 0 | 30 | 0.000 | 0 | 199 | 0.000 |
| Vanadium, total | 1 | 30 | 0.033 | 9 | 199 | 0.045 |
| Zinc, total | 2 | 30 | 0.067 | 44 | 199 | 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 | 30 | 0.000 | | | | | | | | | nonpar |
| Arsenic, total | 0 | 30 | 0.000 | | | | | | | | | nonpar |
| Barium, total | 30 | 30 | 1.000 | 0.721 | 0.136 | | | | | 2.326 | normal | normal |
| Beryllium, total | 0 | 30 | 0.000 | | | | | | | | | nonpar |
| Cadmium, total | 1 | 30 | 0.033 | | | | | | | | | nonpar |
| Chromium, total | 0 | 29 | 0.000 | | | | | | | | | nonpar |
| Cobalt, total | 0 | 30 | 0.000 | | | | | | | | | nonpar |
| Copper, total | 0 | 30 | 0.000 | | | | | | | | | nonpar |
| Lead, total | 0 | 30 | 0.000 | | | | | | | | | nonpar |
| Nickel, total | 4 | 30 | 0.133 | 1.529 | 1.344 | | | | | 2.326 | normal | nonpar |
| Selenium, total | 0 | 30 | 0.000 | | | | | | | | | nonpar |
| Silver, total | 0 | 30 | 0.000 | | | | | | | | | nonpar |
| Thallium, total | 0 | 30 | 0.000 | | | | | | | | | nonpar |
| Vanadium, total | 1 | 30 | 0.033 | | | | | | | | | nonpar |
| Zinc, total | 2 | 30 | 0.067 | | | | | | | | | 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 | 30 | | | | | 2.0000 | nonpar | *** |
| Arsenic, total | ug/L | 0 | 30 | | | | | 4.0000 | nonpar | *** |
| Barium, total | ug/L | 30 | 30 | 249.1333 | 45.8752 | 0.0100 | 2.5024 | 363.9328 | normal | |
| Beryllium, total | ug/L | 0 | 30 | | | | | 4.0000 | nonpar | *** |
| Cadmium, total | ug/L | 1 | 30 | | | | | 1.1000 | nonpar | *** |
| Chromium, total | ug/L | 0 | 29 | | | | | 8.0000 | nonpar | *** |
| Cobalt, total | ug/L | 0 | 30 | | | | | 0.8000 | nonpar | *** |
| Copper, total | ug/L | 0 | 30 | | | | | 4.0000 | nonpar | *** |
| Lead, total | ug/L | 0 | 30 | | | | | 4.0000 | nonpar | *** |
| Nickel, total | ug/L | 4 | 30 | | | | | 7.1000 | nonpar | *** |
| Selenium, total | ug/L | 0 | 30 | | | | | 4.0000 | nonpar | *** |
| Silver, total | ug/L | 0 | 30 | | | | | 4.0000 | nonpar | *** |
| Thallium, total | ug/L | 0 | 30 | | | | | 4.0000 | nonpar | *** |
| Vanadium, total | ug/L | 1 | 30 | | | | | 20.1000 | nonpar | *** |
| Zinc, total | ug/L | 2 | 30 | | | | | 10.5000 | nonpar | *** |

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

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

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

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

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

Table 6

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

| Constituent | Units | Well | Date | Result | ND Qualifier | Date Range | N | Critical Value |
|-----------------|-------|---------|------------|---------|--------------|-----------------------|----|----------------|
| Cadmium, total | ug/L | MW90-17 | 09/07/2010 | 2.5000 | < 2.5000 | 09/30/2009-04/18/2024 | 31 | 0.4502 |
| Chromium, total | ug/L | MW90-17 | 09/07/2010 | 25.0000 | < 25.0000 | 09/30/2009-04/18/2024 | 30 | 0.4556 |

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

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

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

Table 8

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

| Constituent | Units | Well | Date | | Result | Pred. Limit |
|---------------|-------|---------|------------|----|-----------|-------------|
| Barium, total | ug/L | MW90-14 | 06/09/2008 | | 386.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 10/16/2008 | | 394.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 03/05/2009 | | 368.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 09/30/2009 | | 840.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 03/23/2010 | | 307.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 09/07/2010 | | 388.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 04/05/2011 | | 360.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 09/06/2011 | | 352.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 03/16/2012 | | 611.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 09/24/2012 | | 601.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 04/24/2013 | | 361.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 09/20/2013 | | 1150.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 10/28/2013 | | 450.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 04/08/2014 | | 482.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 09/22/2014 | | 462.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 03/20/2015 | | 332.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 09/17/2015 | | 274.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 03/17/2016 | | 314.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 08/26/2016 | | 301.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 04/11/2017 | | 300.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 09/23/2017 | | 270.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 04/10/2018 | | 264.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 09/24/2018 | | 307.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 04/16/2019 | | 199.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 08/29/2019 | | 300.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 04/10/2020 | | 321.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 10/09/2020 | | 503.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 04/09/2021 | | 272.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 10/11/2021 | | 313.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 04/07/2022 | | 255.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 10/06/2022 | | 245.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 04/05/2023 | | 134.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 10/13/2023 | | 381.0000 | * 363.9328 |
| Barium, total | ug/L | MW90-14 | 04/18/2024 | | 263.0000 | * 363.9328 |
| Cobalt, total | ug/L | MW90-14 | 06/09/2008 | ND | 20.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 10/16/2008 | ND | 20.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 03/05/2009 | ND | 20.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 09/30/2009 | | 7.0000 | * 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 03/23/2010 | ND | 4.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 09/07/2010 | ND | 4.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 04/05/2011 | ND | 4.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 09/06/2011 | ND | 4.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 03/16/2012 | ND | 4.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 09/24/2012 | ND | 4.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 04/24/2013 | ND | 4.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 09/20/2013 | | 6.0000 | * 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 10/28/2013 | ND | 4.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 04/08/2014 | ND | 4.0000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 09/22/2014 | | 2.5000 | * 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 03/20/2015 | | 2.4000 | * 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 09/17/2015 | ND | 0.8000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 03/17/2016 | | 1.0000 | * 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 08/26/2016 | ND | 0.8000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 04/11/2017 | | 0.8000 | ** 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 09/23/2017 | ND | 0.8000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 04/10/2018 | ND | 0.8000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 09/24/2018 | | 1.3000 | * 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 04/16/2019 | ND | 0.8000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 08/29/2019 | ND | 0.8000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 04/10/2020 | | 0.5000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 10/09/2020 | | 1.7000 | * 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 04/09/2021 | | 0.6000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 10/11/2021 | | 0.7000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 04/07/2022 | ND | 0.4000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 10/06/2022 | | 2.4000 | * 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 04/05/2023 | ND | 0.4000 | 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 10/13/2023 | | 0.9000 | * 0.8000 |
| Cobalt, total | ug/L | MW90-14 | 04/18/2024 | ND | 0.4000 | 0.8000 |
| 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 |

* - 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 | 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 |
| Barium, total | ug/L | MW90-4 | 06/09/2008 | | 336.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 10/16/2008 | | 469.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 03/05/2009 | | 444.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 09/30/2009 | | 512.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 03/23/2010 | | 315.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 09/07/2010 | | 420.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 04/05/2011 | | 427.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 09/06/2011 | | 499.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 03/16/2012 | | 399.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 09/24/2012 | | 322.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 04/24/2013 | | 233.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 09/20/2013 | | 679.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 10/28/2013 | | 329.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 04/08/2014 | | 379.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 09/22/2014 | | 383.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 03/20/2015 | | 434.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 09/17/2015 | | 437.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 03/17/2016 | | 381.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 08/26/2016 | | 381.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 04/11/2017 | | 332.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 09/23/2017 | | 362.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 11/15/2017 | | 339.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 04/10/2018 | | 340.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 09/24/2018 | | 306.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 04/16/2019 | | 361.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 06/25/2019 | | 433.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 08/29/2019 | | 359.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 04/10/2020 | | 377.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 10/09/2020 | | 385.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 04/09/2021 | | 298.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 10/11/2021 | | 377.0000 * | 363.9328 |
| Barium, total | ug/L | MW90-4 | 04/07/2022 | | 348.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 10/06/2022 | | 351.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 04/05/2023 | | 320.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 10/13/2023 | | 342.0000 | 363.9328 |
| Barium, total | ug/L | MW90-4 | 04/18/2024 | | 375.0000 * | 363.9328 |
| 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 |

* - 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 | 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 |
| 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 |
| Barium, total | ug/L | MW91-19 | 06/09/2008 | | 331.0000 | | 363.9328 |
| Barium, total | ug/L | MW91-19 | 10/16/2008 | | 331.0000 | | 363.9328 |
| Barium, total | ug/L | MW91-19 | 03/05/2009 | | 374.0000 | * | 363.9328 |
| Barium, total | ug/L | MW91-19 | 09/30/2009 | | 390.0000 | * | 363.9328 |
| Barium, total | ug/L | MW91-19 | 03/23/2010 | | 350.0000 | | 363.9328 |

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

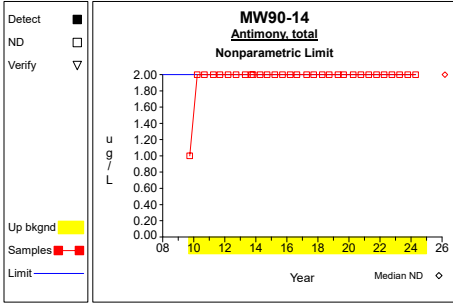
Table 8

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

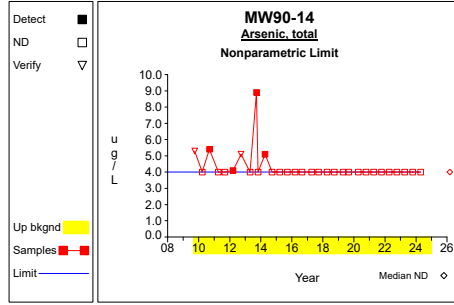
| Constituent | Units | Well | Date | | Result | Pred. Limit |
|---------------|-------|---------|------------|----|----------|-------------|
| Barium, total | ug/L | MW91-19 | 09/07/2010 | | 430.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 04/05/2011 | | 347.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 09/06/2011 | | 534.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 03/16/2012 | | 390.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 09/24/2012 | | 449.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 04/24/2013 | | 277.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 09/20/2013 | | 833.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 10/28/2013 | | 467.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 04/08/2014 | | 396.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 09/22/2014 | | 317.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 03/20/2015 | | 331.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 09/17/2015 | | 275.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 03/17/2016 | | 372.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 06/15/2016 | | 310.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 08/26/2016 | | 362.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 09/29/2016 | | 291.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 04/11/2017 | | 325.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 09/23/2017 | | 516.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 11/15/2017 | | 296.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 04/10/2018 | | 339.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 09/24/2018 | | 281.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 04/16/2019 | | 342.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 08/29/2019 | | 335.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 04/10/2020 | | 373.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 06/09/2020 | | 327.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 10/09/2020 | | 495.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 04/09/2021 | | 328.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 10/11/2021 | | 321.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 04/07/2022 | | 343.0000 | 363.9328 |
| Barium, total | ug/L | MW91-19 | 10/06/2022 | | 504.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 01/04/2023 | | 434.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 04/05/2023 | | 380.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 10/13/2023 | | 482.0000 | * 363.9328 |
| Barium, total | ug/L | MW91-19 | 04/18/2024 | | 303.0000 | 363.9328 |
| 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 |

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

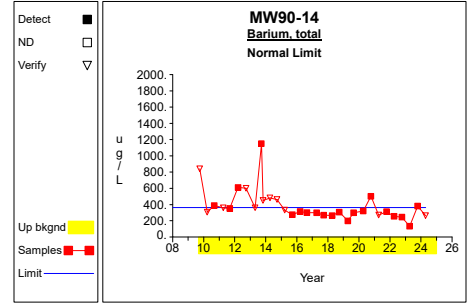
Up vs. Down Prediction Limits



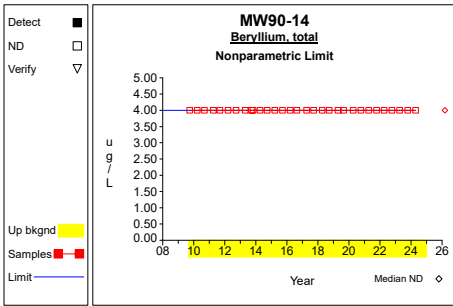
Graph 1



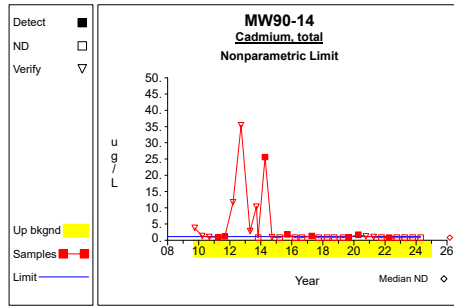
Graph 2



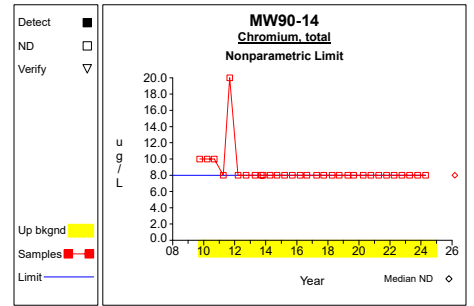
Graph 3



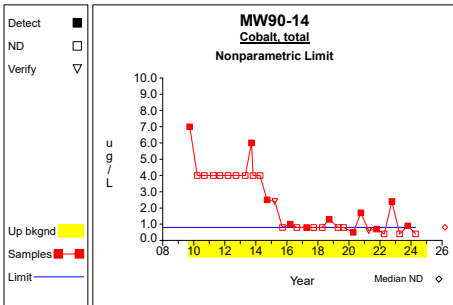
Graph 4



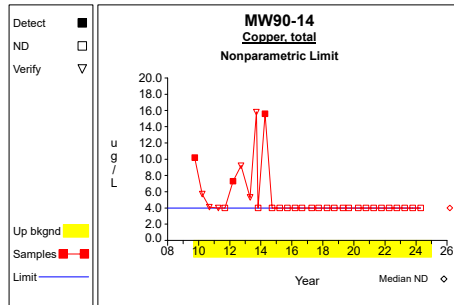
Graph 5



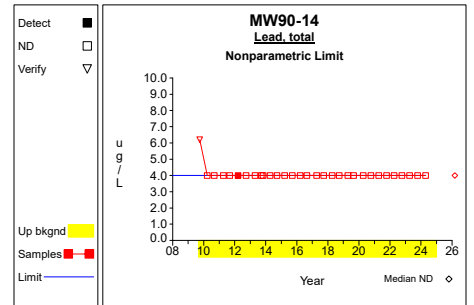
Graph 6



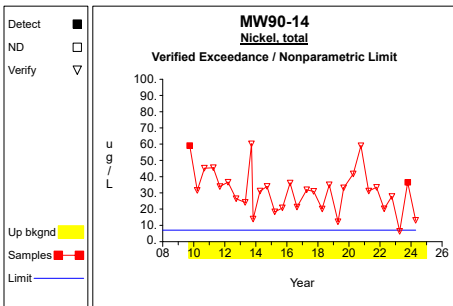
Graph 7



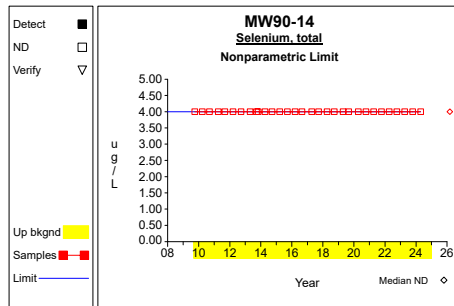
Graph 8



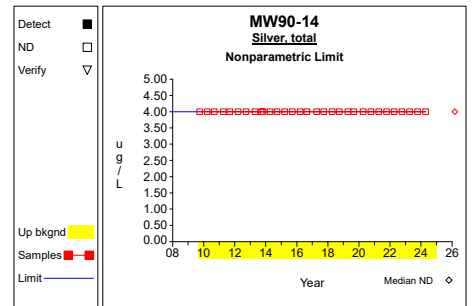
Graph 9



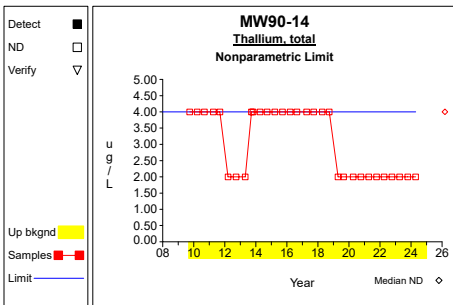
Graph 10



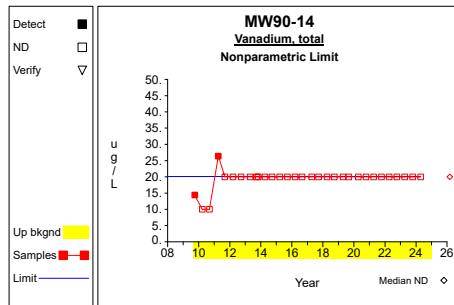
Graph 11



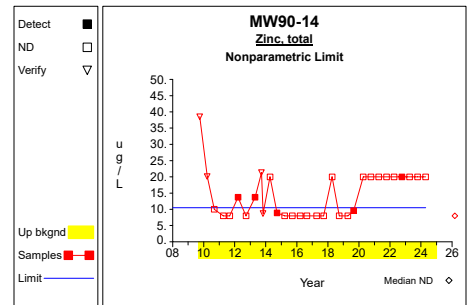
Graph 12



Graph 13

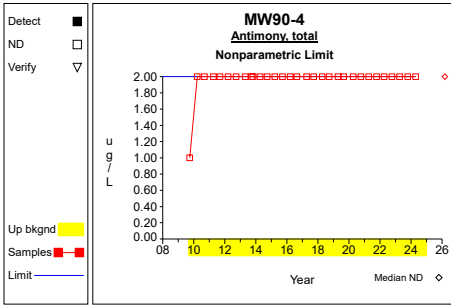


Graph 14

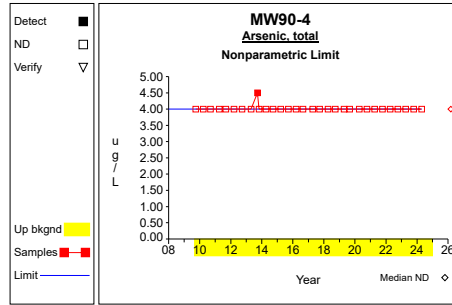


Graph 15

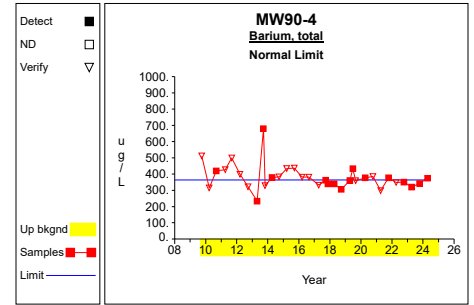
Up vs. Down Prediction Limits



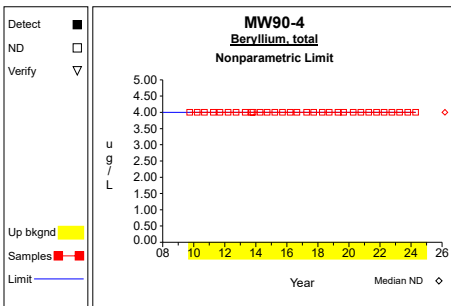
Graph 16



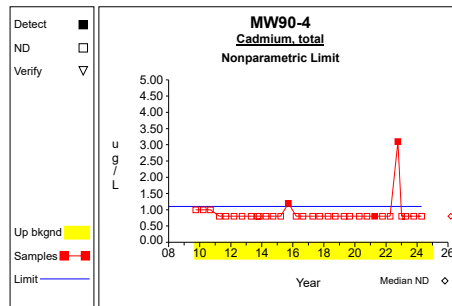
Graph 17



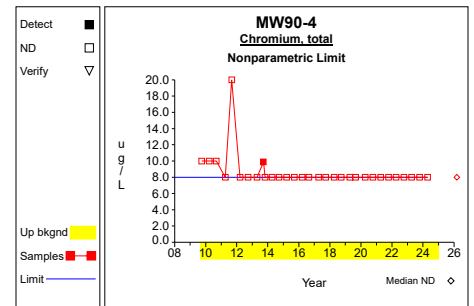
Graph 18



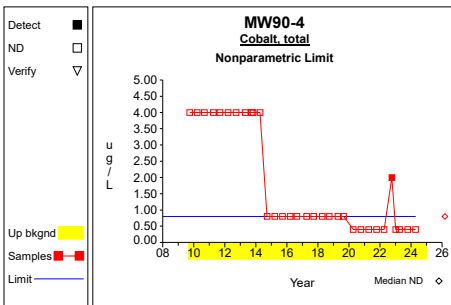
Graph 19



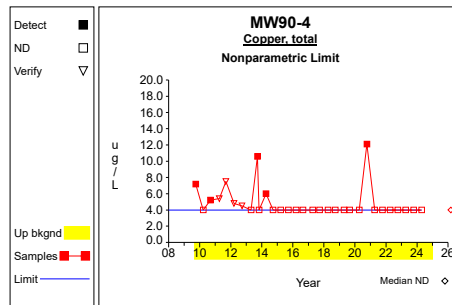
Graph 20



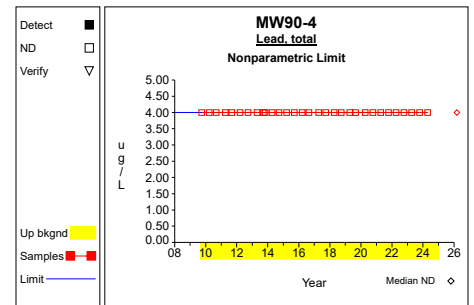
Graph 21



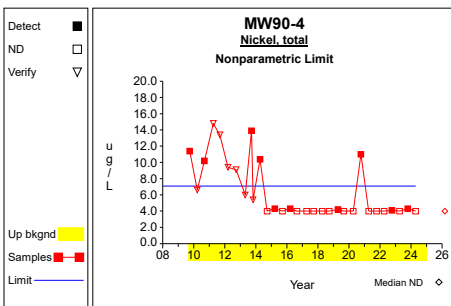
Graph 22



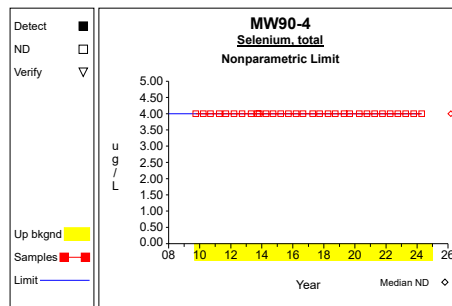
Graph 23



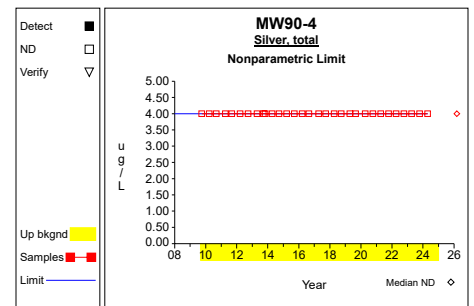
Graph 24



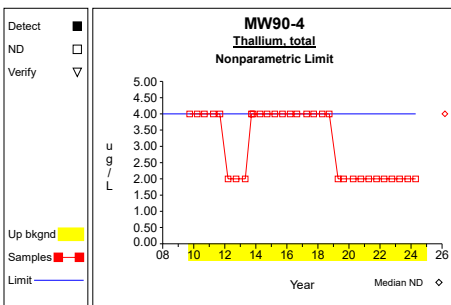
Graph 25



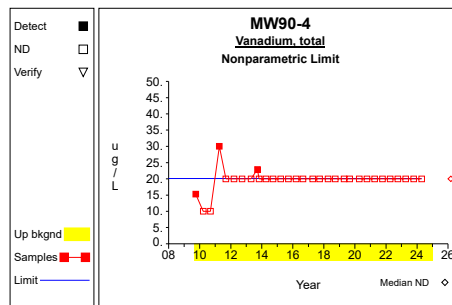
Graph 26



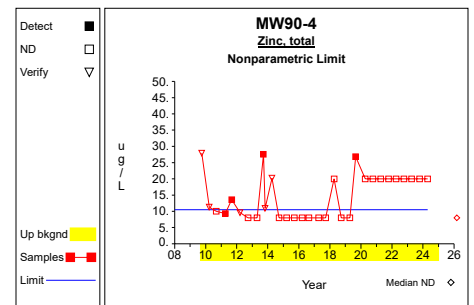
Graph 27



Graph 28

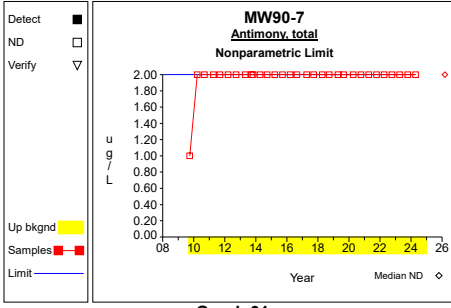


Graph 29

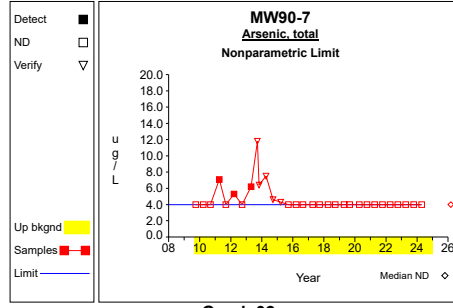


Graph 30

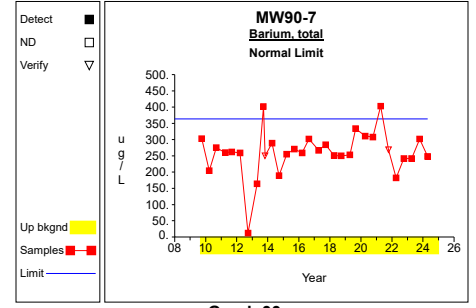
Up vs. Down Prediction Limits



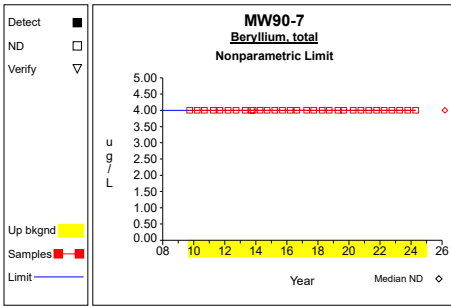
Graph 31



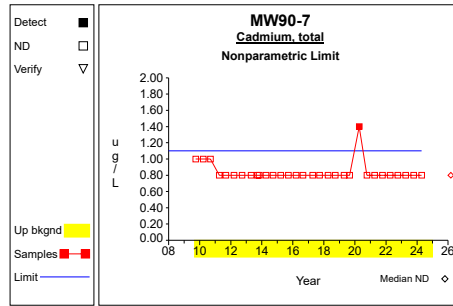
Graph 32



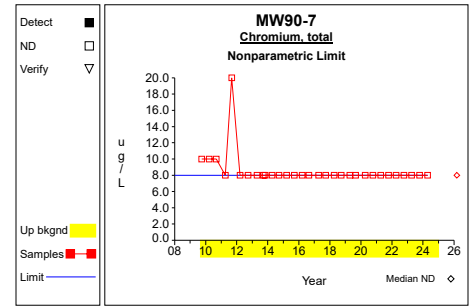
Graph 33



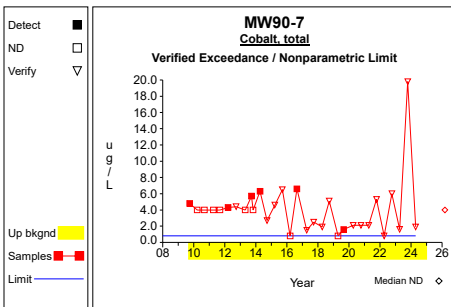
Graph 34



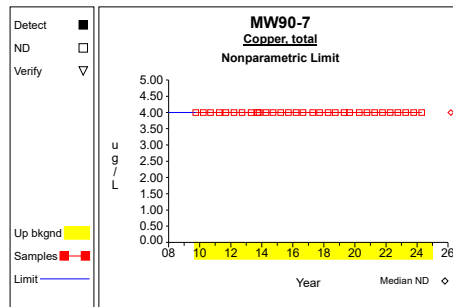
Graph 35



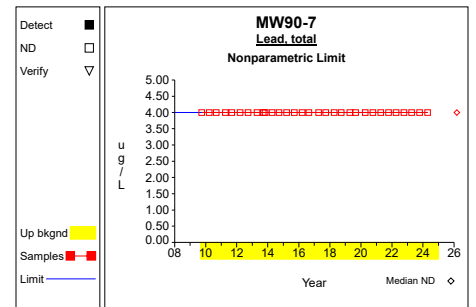
Graph 36



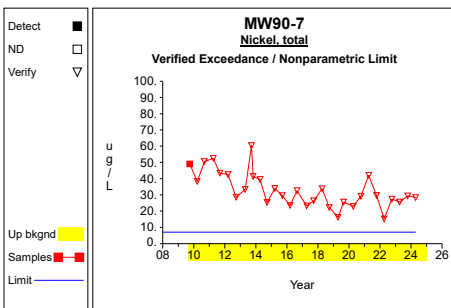
Graph 37



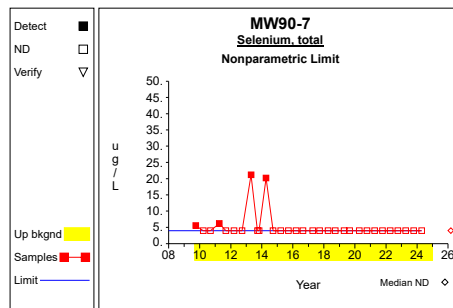
Graph 38



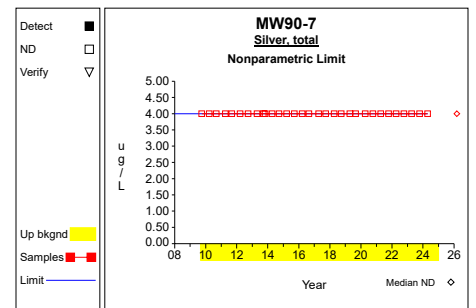
Graph 39



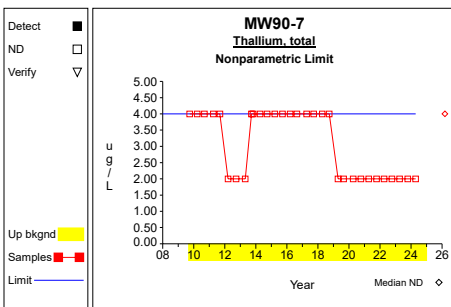
Graph 40



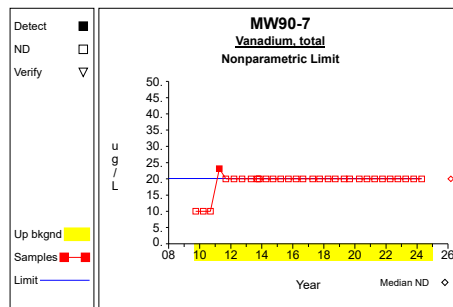
Graph 41



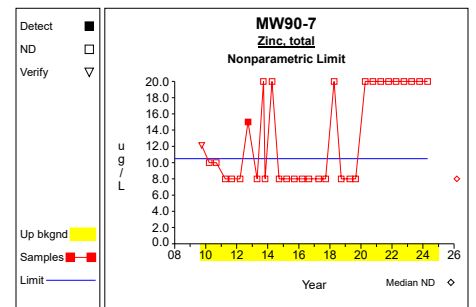
Graph 42



Graph 43

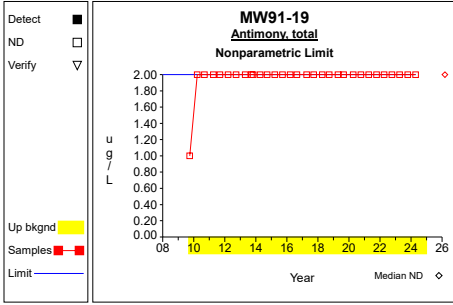


Graph 44

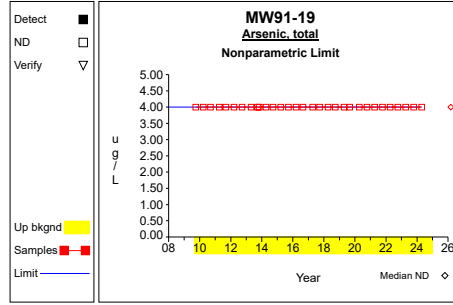


Graph 45

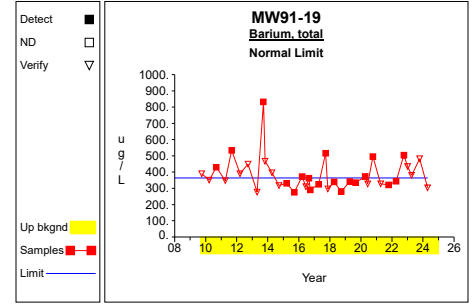
Up vs. Down Prediction Limits



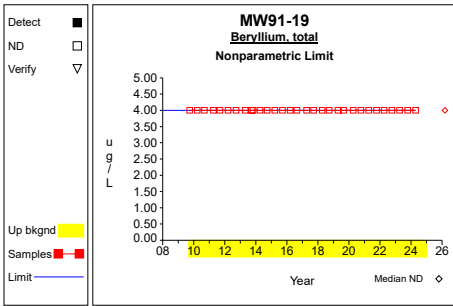
Graph 46



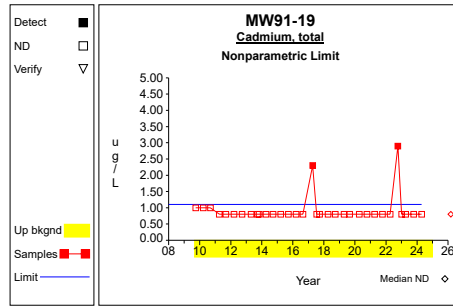
Graph 47



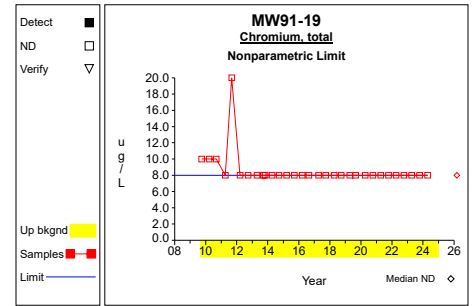
Graph 48



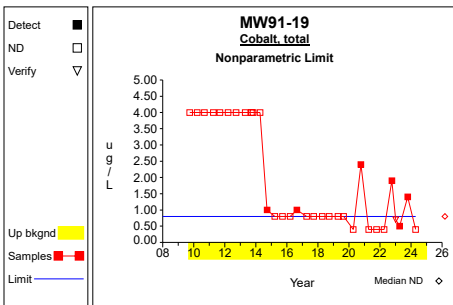
Graph 49



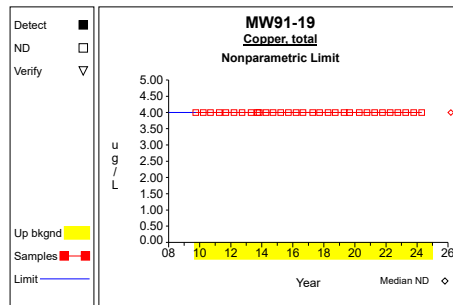
Graph 50



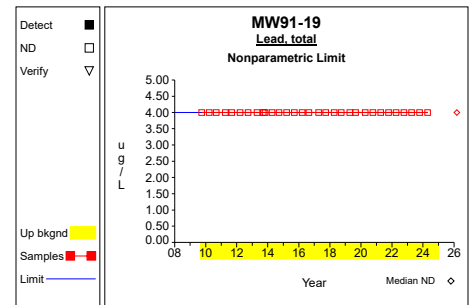
Graph 51



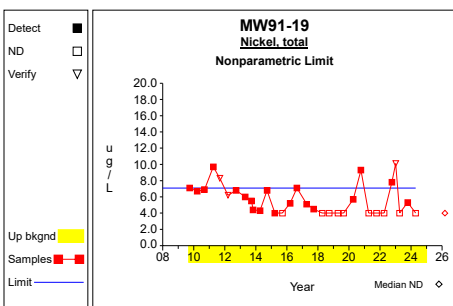
Graph 52



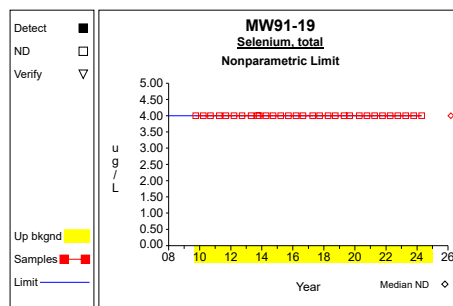
Graph 53



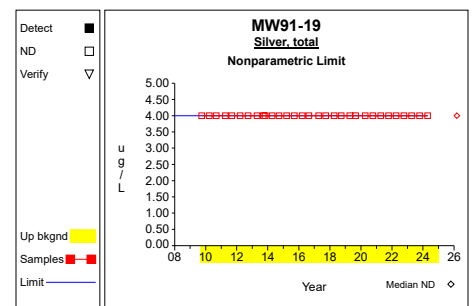
Graph 54



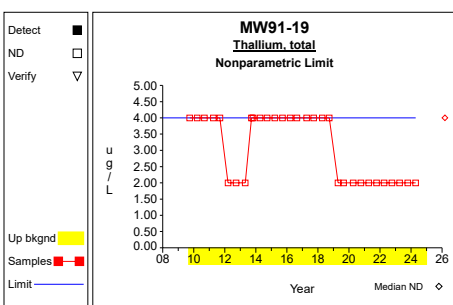
Graph 55



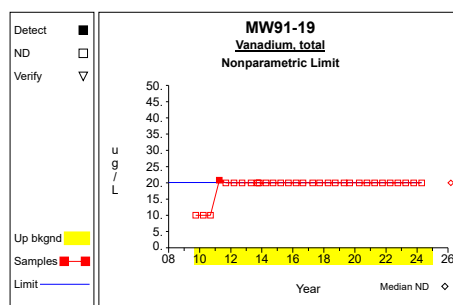
Graph 56



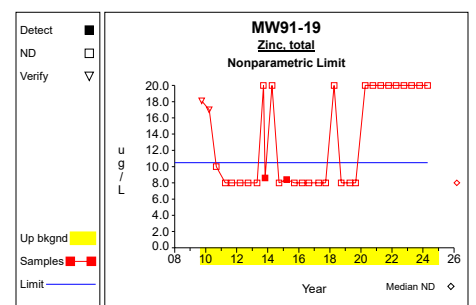
Graph 57



Graph 58

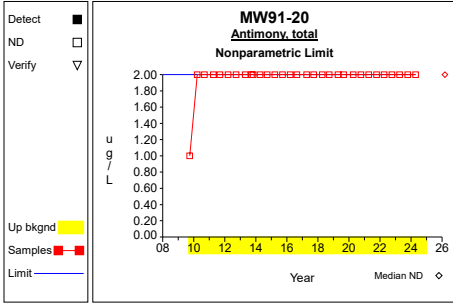


Graph 59

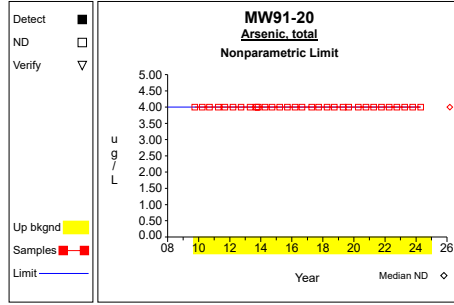


Graph 60

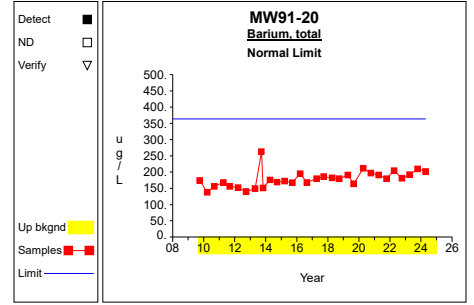
Up vs. Down Prediction Limits



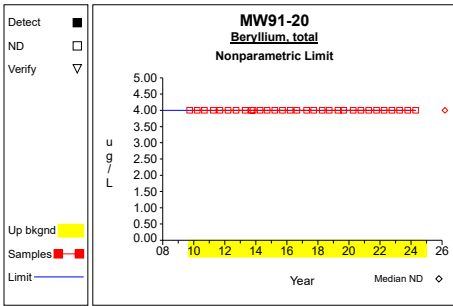
Graph 61



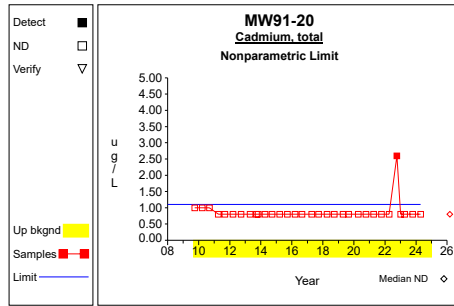
Graph 62



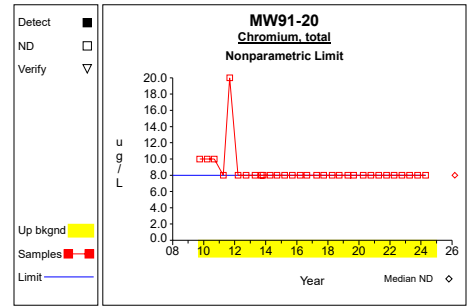
Graph 63



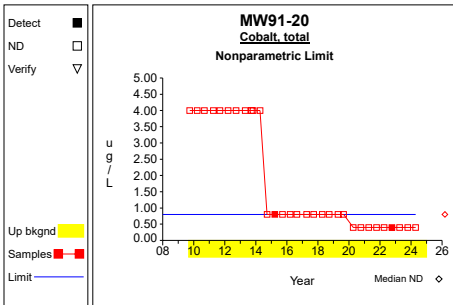
Graph 64



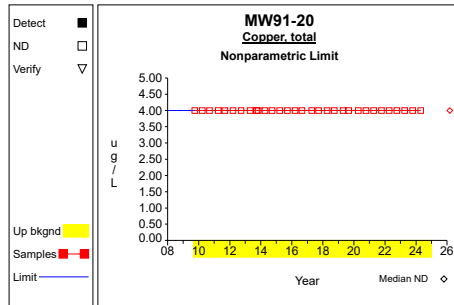
Graph 65



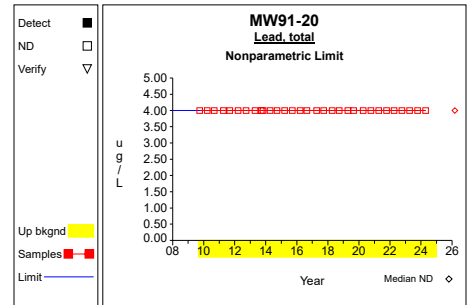
Graph 66



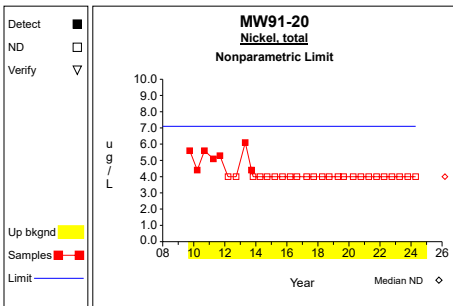
Graph 67



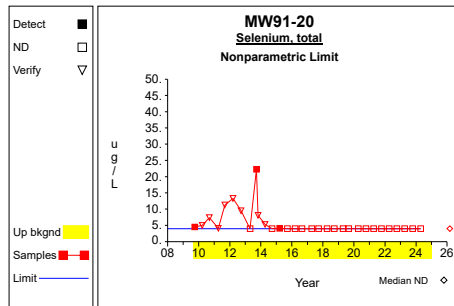
Graph 68



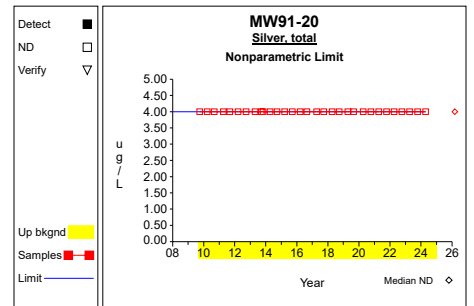
Graph 69



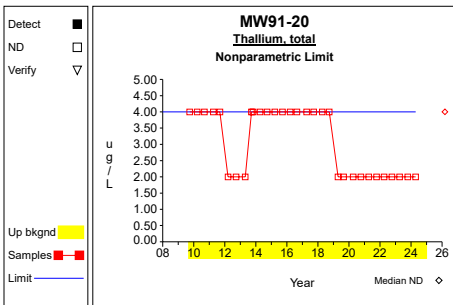
Graph 70



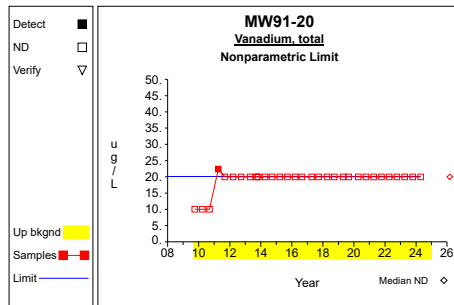
Graph 71



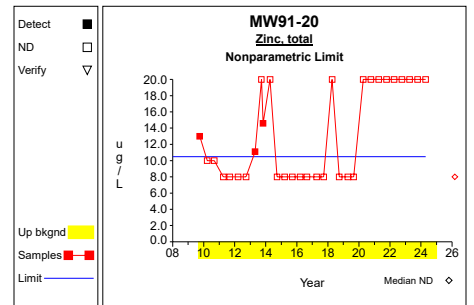
Graph 72



Graph 73

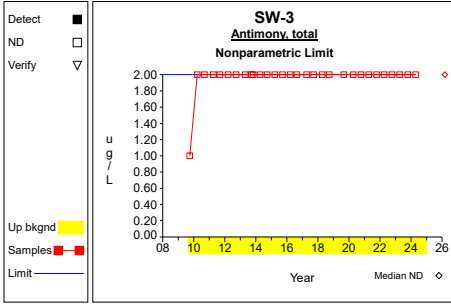


Graph 74

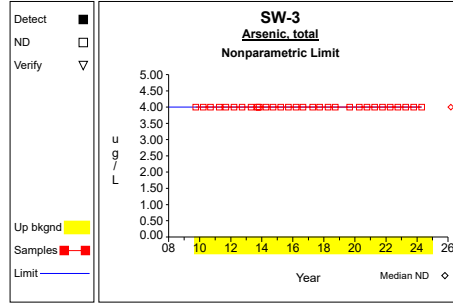


Graph 75

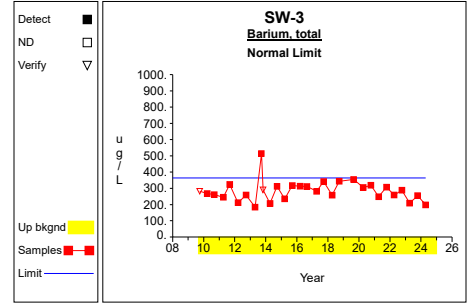
Up vs. Down Prediction Limits



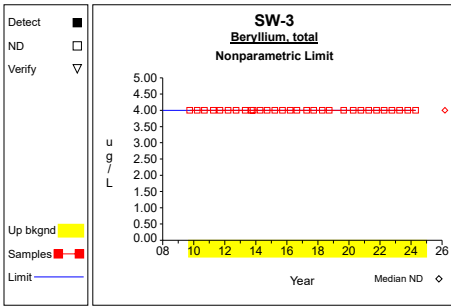
Graph 76



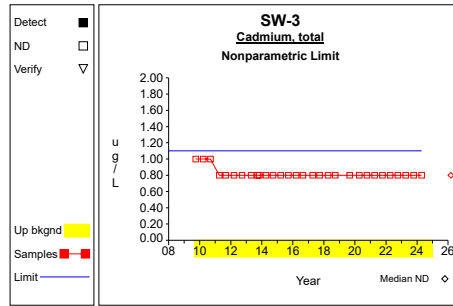
Graph 77



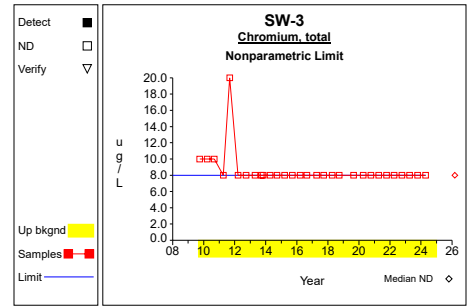
Graph 78



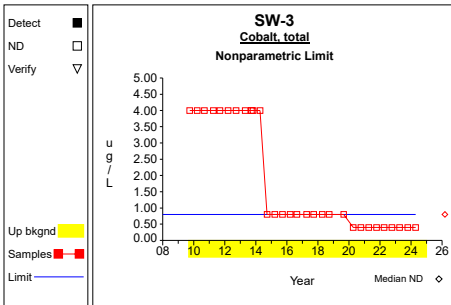
Graph 79



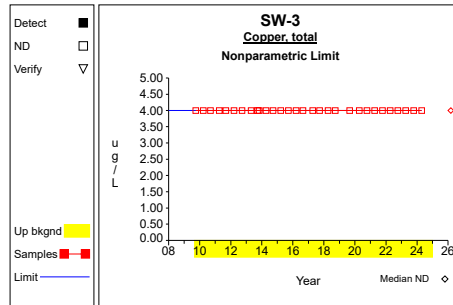
Graph 80



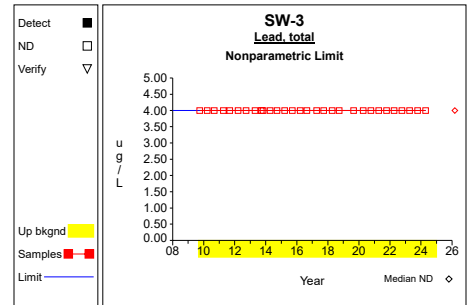
Graph 81



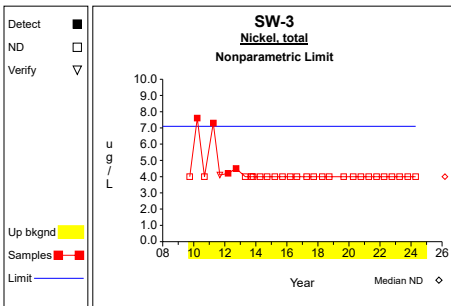
Graph 82



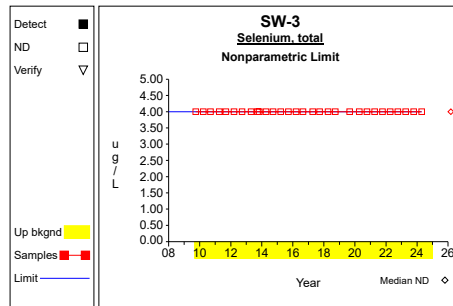
Graph 83



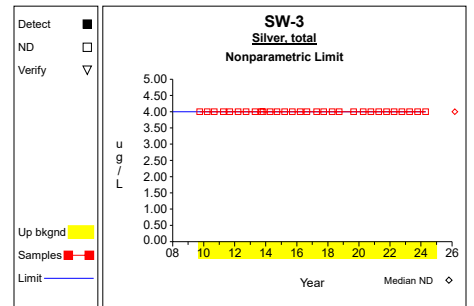
Graph 84



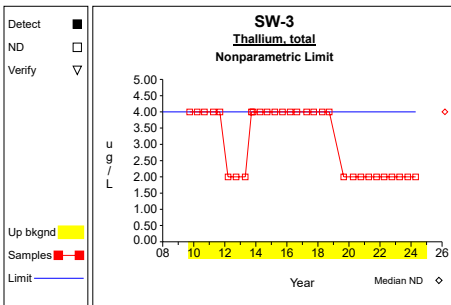
Graph 85



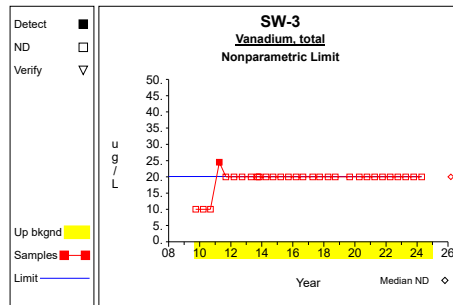
Graph 86



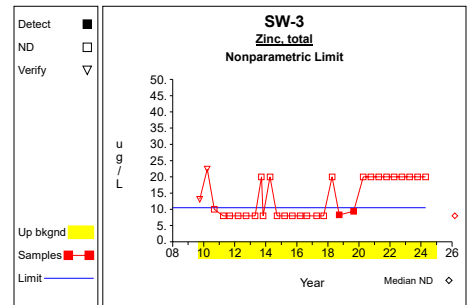
Graph 87



Graph 88

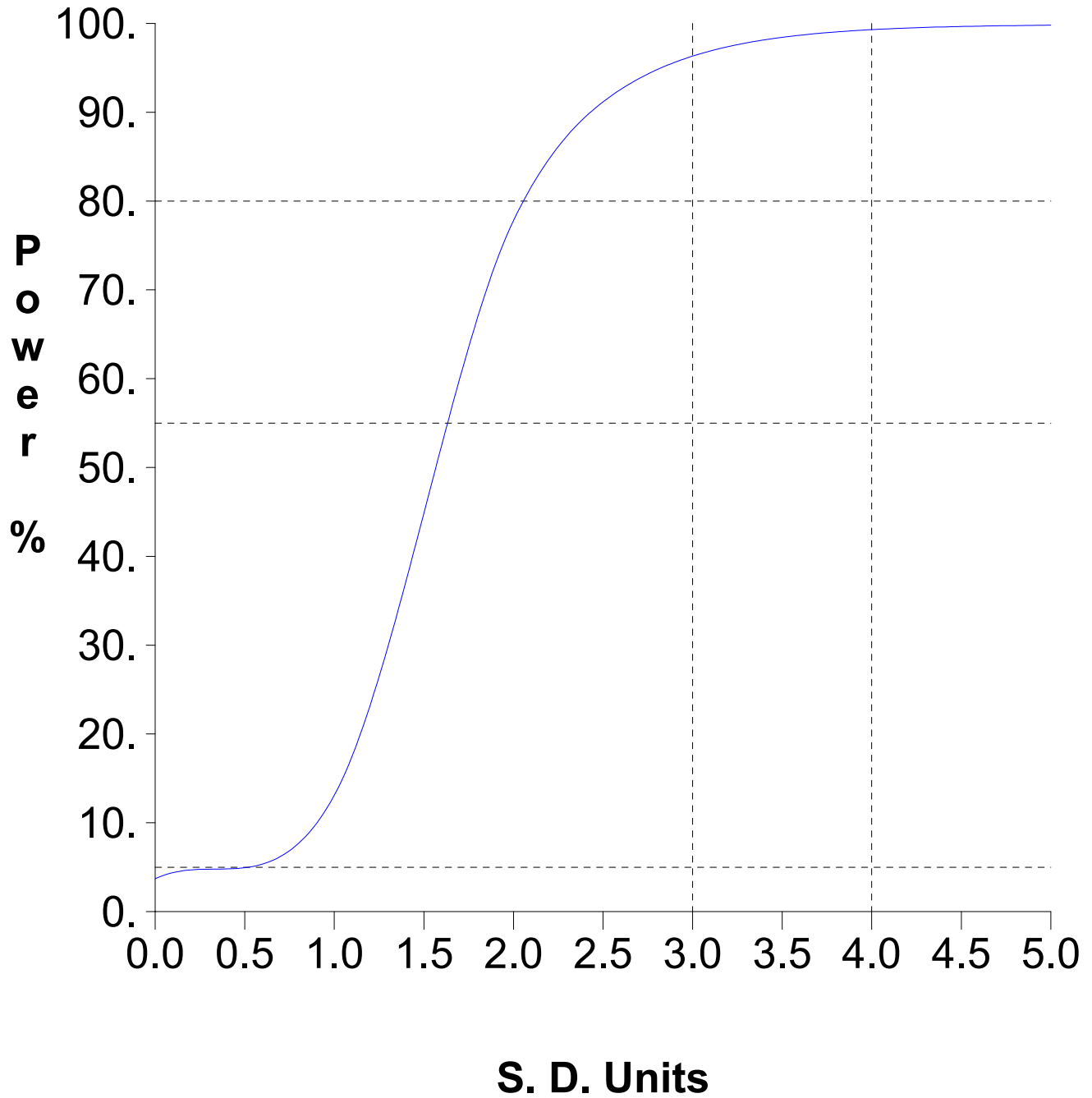


Graph 89



Graph 90

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



Attachment C

Assessment Statistics for Trace Metals

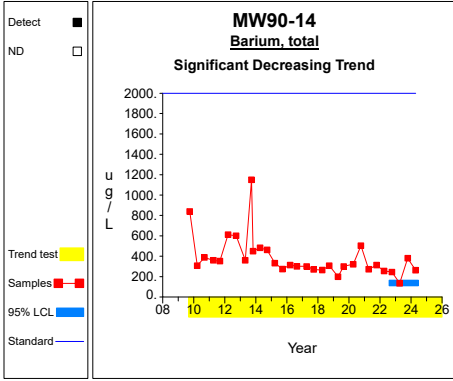
Table 1

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

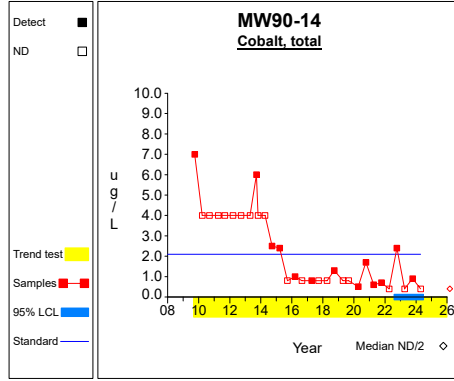
| Constituent | Units | Well | N | Mean | SD | Factor | 95% LCL | 95% UCL | Standard | Trend |
|---------------|-------|---------|---|---------|---------|--------|---------|---------|----------|-------|
| Barium, total | ug/L | MW90-14 | 4 | 255.750 | 101.125 | 1.176 | 136.798 | 374.702 | 2000.000 | dec |
| Cobalt, total | ug/L | MW90-14 | 4 | 1.025 | 0.946 | 1.176 | 0.000 | 2.138 | 2.100 | |
| Nickel, total | ug/L | MW90-14 | 4 | 20.925 | 13.723 | 1.176 | 4.783 | 37.067 | 100.000 | |
| Barium, total | ug/L | MW90-4 | 4 | 347.000 | 22.760 | 1.176 | 320.228 | 373.772 | 2000.000 | |
| 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 | 3.100 | 1.273 | 1.176 | 1.603 | 4.597 | 100.000 | |
| Barium, total | ug/L | MW90-7 | 4 | 258.500 | 29.138 | 1.176 | 224.226 | 292.774 | 2000.000 | |
| Cobalt, total | ug/L | MW90-7 | 4 | 7.325 | 8.555 | 1.176 | 0.000 | 17.389 | 2.100 | |
| Nickel, total | ug/L | MW90-7 | 4 | 27.700 | 1.621 | 1.176 | 25.794 | 29.606 | 100.000 | |
| Barium, total | ug/L | MW91-19 | 4 | 399.750 | 76.787 | 1.176 | 309.426 | 490.074 | 2000.000 | |
| Cobalt, total | ug/L | MW91-19 | 4 | 0.750 | 0.451 | 1.176 | 0.220 | 1.280 | 2.100 | |
| Nickel, total | ug/L | MW91-19 | 4 | 4.850 | 3.830 | 1.176 | 0.345 | 9.355 | 100.000 | |

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

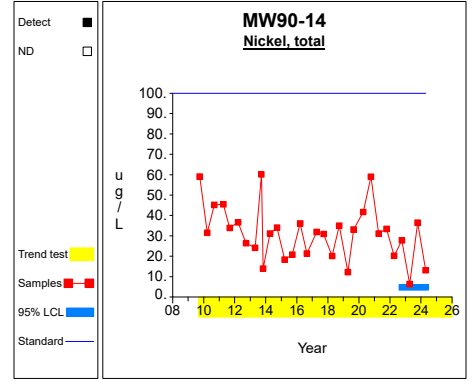
Confidence Limits (Assessment)



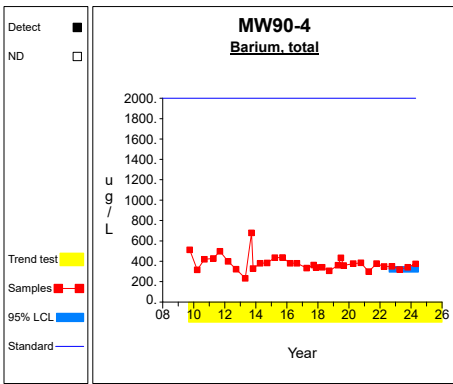
Graph 1



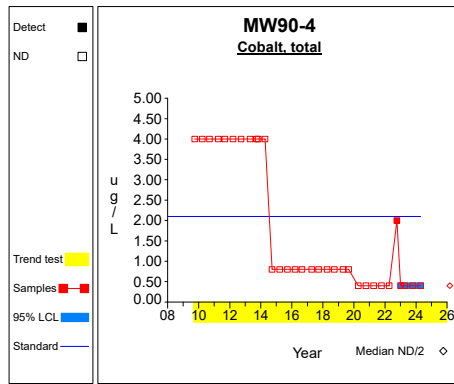
Graph 2



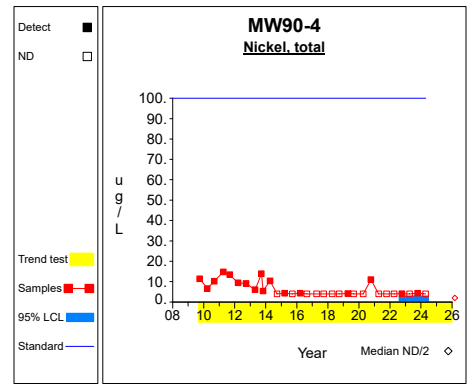
Graph 3



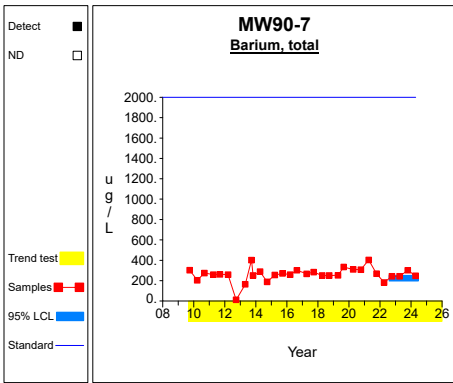
Graph 4



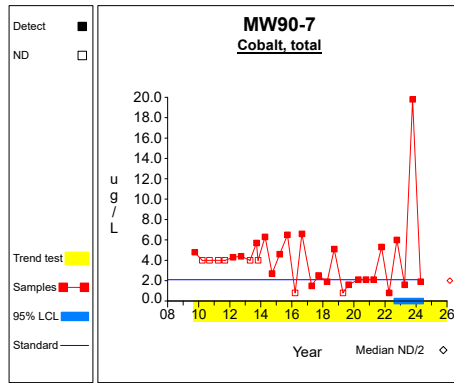
Graph 5



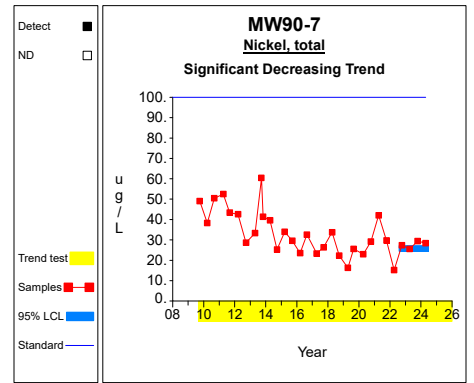
Graph 6



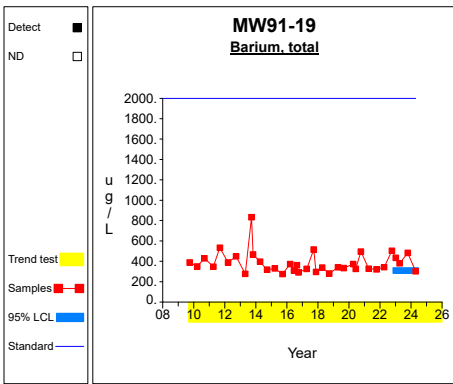
Graph 7



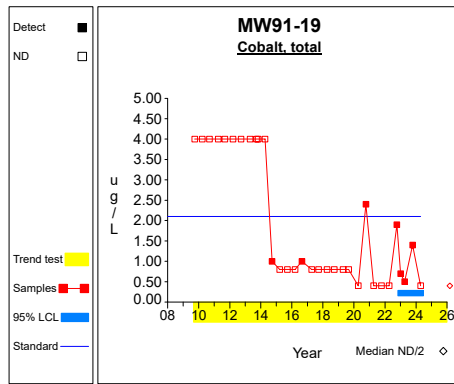
Graph 8



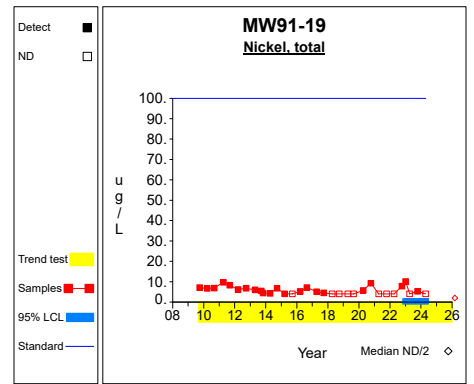
Graph 9



Graph 10



Graph 11



Graph 12

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 | 5 | 34 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | MW90-14 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 8.9000 | nonpar | .99 | ** |
| Barium, total | ug/L | MW90-14 | 26 | 5 | 34 | 409.0000 | 204.8559 | 381.0000 | 263.0000 | 409.0000 | 409.0000 | 1740.5630 | normal | | |
| Beryllium, total | ug/L | MW90-14 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW90-14 | 26 | 5 | 34 | 4.2308 | 8.3210 | 0.8000 | 0.8000 | 4.2308 | 4.2308 | 58.3173 | normal | | |
| Chromium, total | ug/L | MW90-14 | 26 | 5 | 34 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW90-14 | 26 | 5 | 34 | 3.2500 | 1.6698 | 0.9000 | 0.4000 | 3.2500 | 3.2500 | 14.1036 | normal | | |
| Copper, total | ug/L | MW90-14 | 26 | 5 | 34 | 5.5846 | 3.4028 | 4.0000 | 4.0000 | 5.5846 | 5.5846 | 27.7027 | normal | | |
| Lead, total | ug/L | MW90-14 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 6.2000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW90-14 | 26 | 5 | 34 | 33.3231 | 12.8175 | 36.5000 | 13.1000 | 33.3231 | 33.3231 | 116.6368 | normal | | |
| Selenium, total | ug/L | MW90-14 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Silver, total | ug/L | MW90-14 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW90-14 | 26 | 5 | 34 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW90-14 | 26 | 5 | 34 | | | 20.0000 | 20.0000 | | | 26.4000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW90-14 | 26 | 5 | 34 | 10.7115 | 6.7267 | 20.0000 | 20.0000 | 10.7115 | 10.7115 | 54.4354 | normal | | |
| Antimony, total | ug/L | MW90-17 | 25 | 5 | 30 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | MW90-17 | 25 | 5 | 30 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Barium, total | ug/L | MW90-17 | 25 | 5 | 30 | 238.2400 | 42.2328 | 314.0000 | 310.0000 | 366.5817 | 406.6671 | 512.7530 | normal | | |
| Beryllium, total | ug/L | MW90-17 | 25 | 5 | 30 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW90-17 | 25 | 5 | 31 | | | 0.8000 | 0.8000 | | | 1.1000 | nonpar | .99 | ** |
| Chromium, total | ug/L | MW90-17 | 24 | 5 | 30 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW90-17 | 25 | 5 | 30 | | | 0.4000 | 0.4000 | | | 0.8000 | nonpar | .99 | ** |
| Copper, total | ug/L | MW90-17 | 25 | 5 | 30 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Lead, total | ug/L | MW90-17 | 25 | 5 | 30 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW90-17 | 25 | 5 | 30 | | | 4.0000 | 4.0000 | | | 7.1000 | nonpar | .99 | ** |
| Selenium, total | ug/L | MW90-17 | 25 | 5 | 30 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Silver, total | ug/L | MW90-17 | 25 | 5 | 30 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW90-17 | 25 | 5 | 30 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW90-17 | 25 | 5 | 30 | | | 20.0000 | 20.0000 | | | 20.1000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW90-17 | 25 | 5 | 31 | | | 20.0000 | 20.0000 | | | 10.5000 | nonpar | .99 | ** |
| Antimony, total | ug/L | MW90-4 | 26 | 5 | 34 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | MW90-4 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.5000 | nonpar | .99 | ** |
| Barium, total | ug/L | MW90-4 | 28 | 5 | 36 | 385.6786 | 82.5501 | 342.0000 | 375.0000 | 385.6786 | 385.6786 | 922.2544 | normal | | |
| Beryllium, total | ug/L | MW90-4 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW90-4 | 26 | 6 | 35 | | | 0.8000 | 0.8000 | | | 1.2000 | nonpar | .99 | ** |
| Chromium, total | ug/L | MW90-4 | 26 | 5 | 34 | | | 8.0000 | 8.0000 | | | 9.9000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW90-4 | 26 | 6 | 35 | | | 0.4000 | 0.4000 | | | 0.8000 | nonpar | .99 | ** |
| Copper, total | ug/L | MW90-4 | 26 | 5 | 34 | 5.0500 | 2.1098 | 4.0000 | 4.0000 | 5.0500 | 5.0500 | 18.7639 | normal | | |
| Lead, total | ug/L | MW90-4 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW90-4 | 26 | 5 | 34 | 6.8615 | 3.6953 | 4.3000 | 4.0000 | 6.8615 | 6.8615 | 30.8810 | normal | | |
| Selenium, total | ug/L | MW90-4 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Silver, total | ug/L | MW90-4 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW90-4 | 26 | 5 | 34 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW90-4 | 26 | 5 | 34 | | | 20.0000 | 20.0000 | | | 30.0000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW90-4 | 26 | 5 | 34 | 11.2769 | 6.5059 | 20.0000 | 20.0000 | 11.2769 | 11.2769 | 53.5652 | normal | | |
| Antimony, total | ug/L | MW90-7 | 26 | 5 | 35 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
 N(tot) = All independent measurements for that constituent and well.
 For transformed data, mean and SD in transformed units and control limit in original units.
 Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
 * - Insufficient Data.
 ** - Detection Frequency < 25%.
 *** - Zero Variance.

Table 1

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

| Constituent | Units | Well | N(back) | N(mon) | N(tot) | Mean | SD | R(i-1) | R(i) | S(i-1) | S(i) | Limit | Type | Conf | |
|------------------|-------|---------|---------|--------|--------|----------|----------|----------|----------|----------|----------|-----------|--------|------|----|
| Arsenic, total | ug/L | MW90-7 | 26 | 5 | 35 | 4.8154 | 1.7681 | 4.0000 | 4.0000 | 4.8154 | 4.8154 | 16.3080 | normal | | |
| Barium, total | ug/L | MW90-7 | 25 | 5 | 35 | 274.9600 | 53.4864 | 302.0000 | 248.0000 | 274.9600 | 274.9600 | 622.6213 | normal | | |
| Beryllium, total | ug/L | MW90-7 | 26 | 5 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW90-7 | 26 | 5 | 35 | | | 0.8000 | 0.8000 | | | 1.4000 | nonpar | .99 | ** |
| Chromium, total | ug/L | MW90-7 | 26 | 5 | 35 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW90-7 | 26 | 5 | 35 | 3.9269 | 1.5019 | 19.8000 | 1.9000 | 18.6736 | 3.9269 | 13.6891 | normal | | |
| Copper, total | ug/L | MW90-7 | 26 | 5 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Lead, total | ug/L | MW90-7 | 26 | 5 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW90-7 | 26 | 5 | 35 | 34.4808 | 10.8781 | 29.4000 | 28.4000 | 34.4808 | 34.4808 | 105.1886 | normal | | |
| Selenium, total | ug/L | MW90-7 | 24 | 5 | 35 | | | 4.0000 | 4.0000 | | | 6.2000 | nonpar | .99 | ** |
| Silver, total | ug/L | MW90-7 | 26 | 5 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW90-7 | 26 | 5 | 35 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW90-7 | 26 | 5 | 35 | | | 20.0000 | 20.0000 | | | 23.1000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW90-7 | 26 | 5 | 35 | | | 20.0000 | 20.0000 | | | 15.0000 | nonpar | .99 | ** |
| Antimony, total | ug/L | MW91-19 | 26 | 5 | 34 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | MW91-19 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Barium, total | ug/L | MW91-19 | 30 | 6 | 39 | 379.9667 | 110.3613 | 482.0000 | 303.0000 | 399.2290 | 379.9667 | 1097.3152 | normal | | |
| Beryllium, total | ug/L | MW91-19 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW91-19 | 27 | 6 | 36 | | | 0.8000 | 0.8000 | | | 2.3000 | nonpar | .99 | ** |
| Chromium, total | ug/L | MW91-19 | 26 | 5 | 34 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 1.4000 | 0.4000 | | | 2.4000 | nonpar | .99 | ** |
| Copper, total | ug/L | MW91-19 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Lead, total | ug/L | MW91-19 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW91-19 | 26 | 6 | 35 | 5.6769 | 1.7168 | 5.3000 | 4.0000 | 5.6769 | 5.6769 | 16.8362 | normal | | |
| Selenium, total | ug/L | MW91-19 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Silver, total | ug/L | MW91-19 | 26 | 5 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW91-19 | 26 | 5 | 34 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW91-19 | 26 | 5 | 34 | | | 20.0000 | 20.0000 | | | 20.8000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW91-19 | 26 | 5 | 34 | | | 20.0000 | 20.0000 | | | 18.1000 | nonpar | .99 | ** |
| Antimony, total | ug/L | MW91-20 | 26 | 5 | 31 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | MW91-20 | 26 | 5 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Barium, total | ug/L | MW91-20 | 26 | 5 | 31 | 175.2692 | 25.4394 | 210.0000 | 202.0000 | 190.9204 | 198.5716 | 340.6255 | normal | | |
| Beryllium, total | ug/L | MW91-20 | 26 | 5 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 0.8000 | 0.8000 | | | 0.8000 | nonpar | .99 | ** |
| Chromium, total | ug/L | MW91-20 | 26 | 5 | 31 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW91-20 | 26 | 5 | 31 | | | 0.4000 | 0.4000 | | | 0.8000 | nonpar | .99 | ** |
| Copper, total | ug/L | MW91-20 | 26 | 5 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Lead, total | ug/L | MW91-20 | 26 | 5 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW91-20 | 26 | 5 | 31 | 4.3269 | 0.6315 | 4.0000 | 4.0000 | 4.3269 | 4.3269 | 8.4320 | normal | | |
| Selenium, total | ug/L | MW91-20 | 26 | 5 | 31 | 5.9577 | 4.1790 | 4.0000 | 4.0000 | 5.9577 | 5.9577 | 33.1213 | normal | | |
| Silver, total | ug/L | MW91-20 | 26 | 5 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW91-20 | 26 | 5 | 31 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW91-20 | 26 | 5 | 31 | | | 20.0000 | 20.0000 | | | 22.4000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW91-20 | 26 | 5 | 31 | | | 20.0000 | 20.0000 | | | 14.6000 | nonpar | .99 | ** |
| Antimony, total | ug/L | SW-3 | 25 | 5 | 31 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | SW-3 | 25 | 5 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
 N(tot) = All independent measurements for that constituent and well.
 For transformed data, mean and SD in transformed units and control limit in original units.
 Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
 * - Insufficient Data.
 ** - Detection Frequency < 25%.
 *** - Zero Variance.

Table 1

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

| Constituent | Units | Well | N(back) | N(mon) | N(tot) | Mean | SD | R(i-1) | R(i) | S(i-1) | S(i) | Limit | Type | Conf | |
|------------------|-------|------|---------|--------|--------|----------|---------|----------|----------|----------|----------|----------|--------|------|----|
| Barium, total | ug/L | SW-3 | 25 | 5 | 31 | 291.6800 | 64.2766 | 255.0000 | 198.0000 | 291.6800 | 291.6800 | 709.4777 | normal | | |
| Beryllium, total | ug/L | SW-3 | 25 | 5 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | SW-3 | 25 | 5 | 31 | | | 0.8000 | 0.8000 | | | 0.8000 | nonpar | .99 | ** |
| Chromium, total | ug/L | SW-3 | 25 | 5 | 31 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | SW-3 | 25 | 5 | 31 | | | 0.4000 | 0.4000 | | | 0.8000 | nonpar | .99 | ** |
| Copper, total | ug/L | SW-3 | 25 | 5 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Lead, total | ug/L | SW-3 | 25 | 5 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | SW-3 | 25 | 5 | 31 | | | 4.0000 | 4.0000 | | | 7.6000 | nonpar | .99 | ** |
| Selenium, total | ug/L | SW-3 | 25 | 5 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Silver, total | ug/L | SW-3 | 25 | 5 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | SW-3 | 25 | 5 | 31 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | SW-3 | 25 | 5 | 31 | | | 20.0000 | 20.0000 | | | 24.5000 | nonpar | .99 | ** |
| Zinc, total | ug/L | SW-3 | 25 | 5 | 31 | | | 20.0000 | 20.0000 | | | 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**

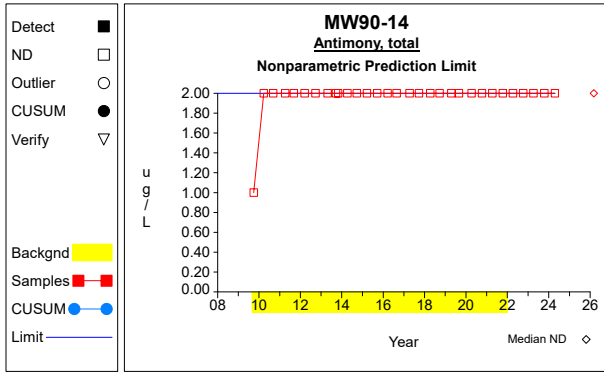
| Constituent | Units | Well | Date | Result | ND Qualifier | Date Range | N | Critical Value |
|-----------------|-------|---------|------------|---------|--------------|-----------------------|----|----------------|
| Cadmium, total | ug/L | MW90-17 | 09/07/2010 | 2.5000 | < 2.5000 | 09/30/2009-10/11/2021 | 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.

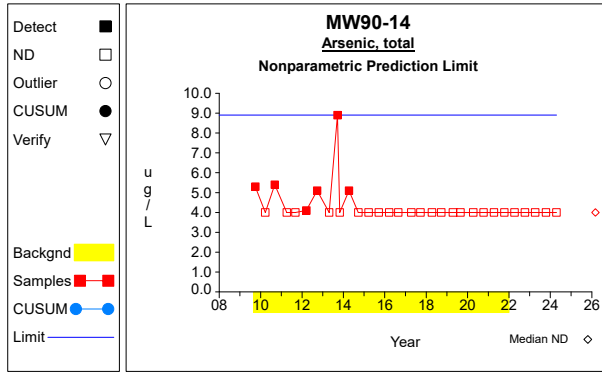
Date Range = Dates of the first and last measurements included in background at each well.

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.

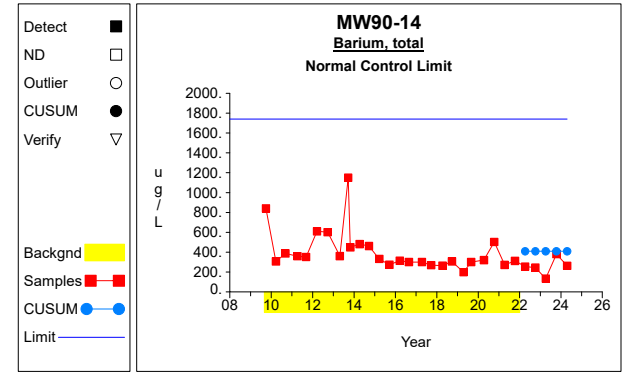
Intra-Well Control Charts / Prediction Limits



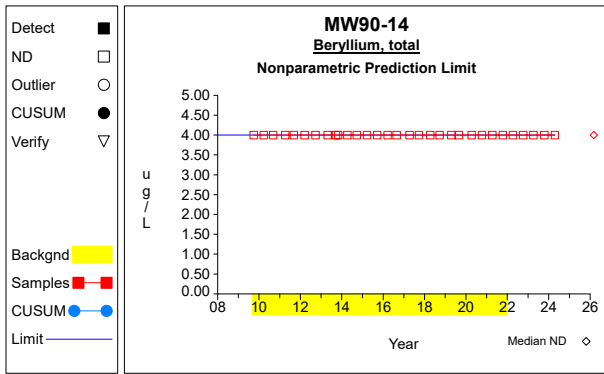
Graph 1



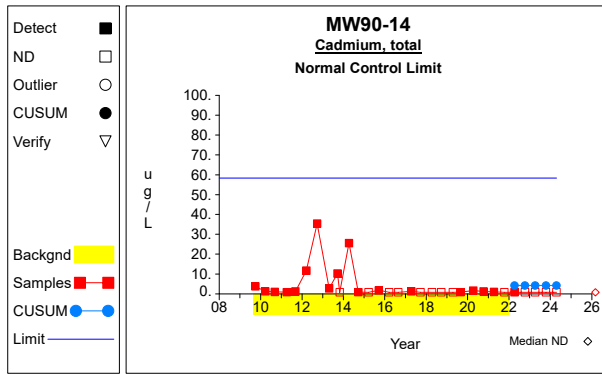
Graph 2



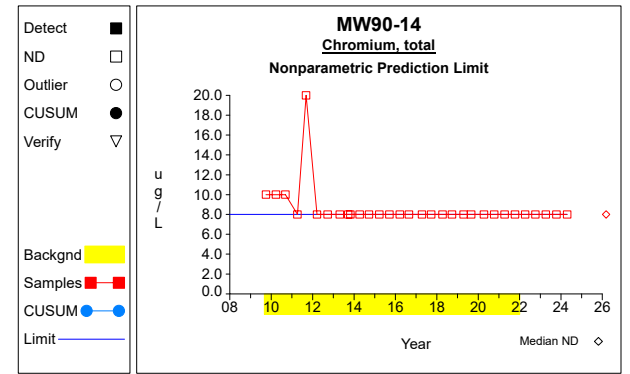
Graph 3



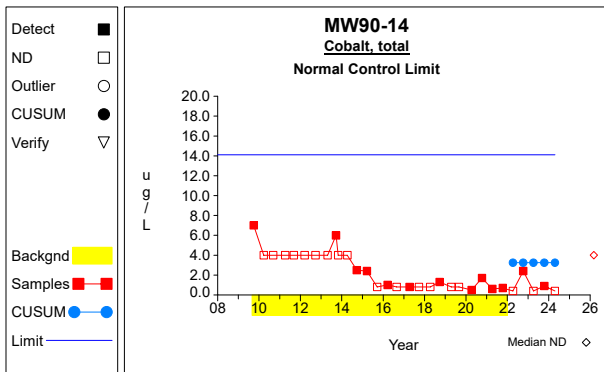
Graph 4



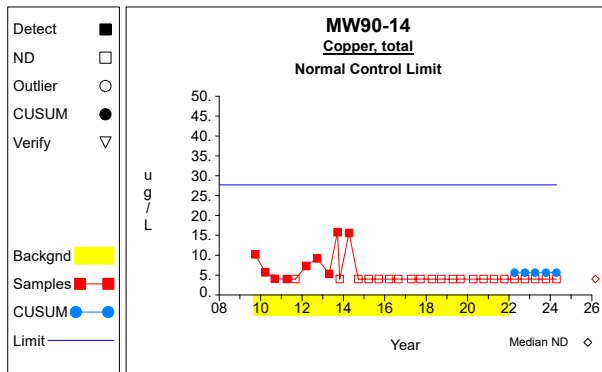
Graph 5



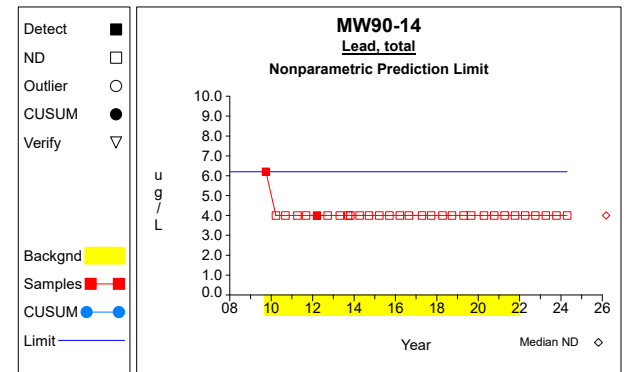
Graph 6



Graph 7

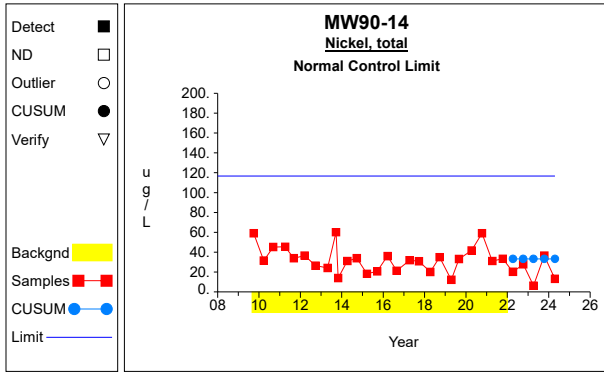


Graph 8

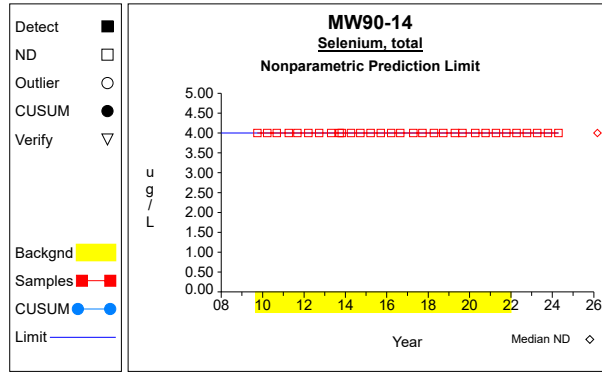


Graph 9

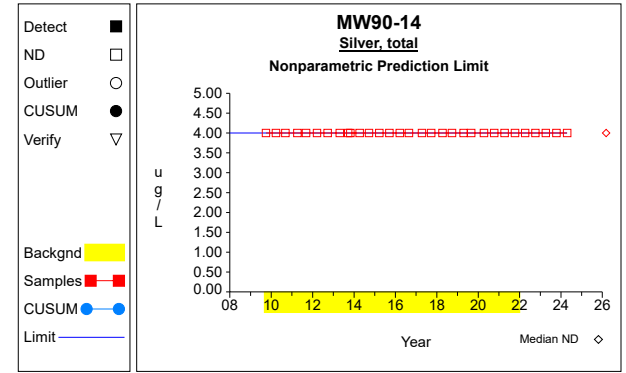
Intra-Well Control Charts / Prediction Limits



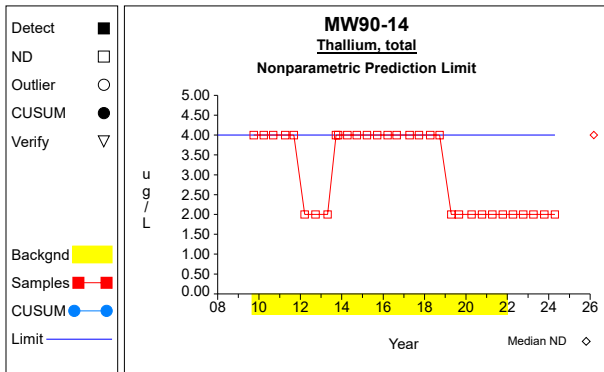
Graph 10



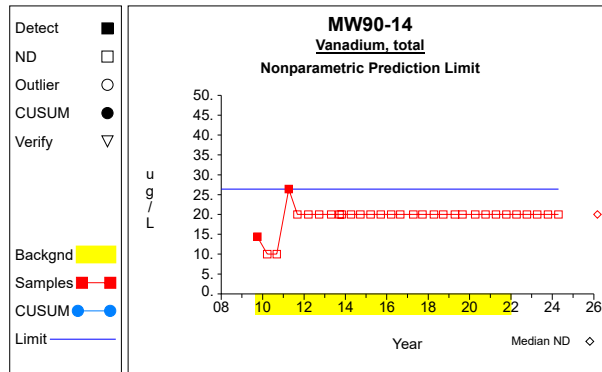
Graph 11



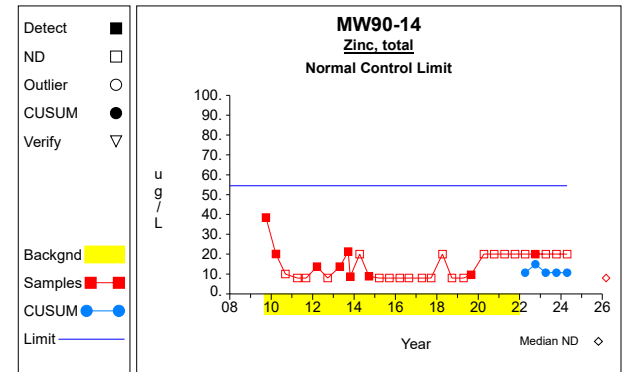
Graph 12



Graph 13

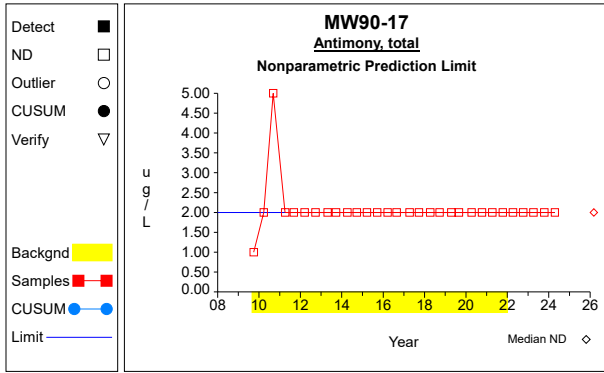


Graph 14

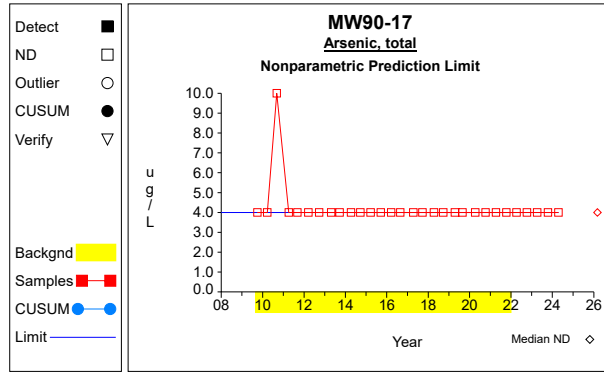


Graph 15

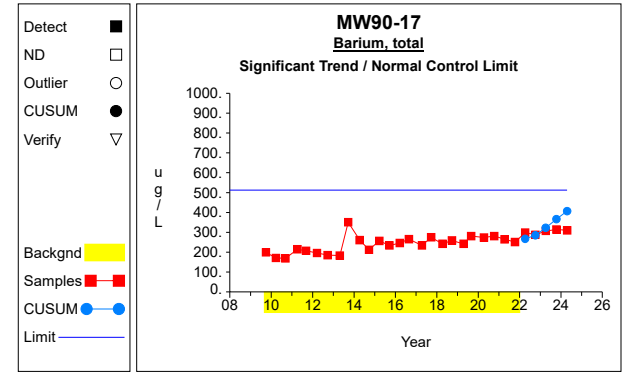
Intra-Well Control Charts / Prediction Limits



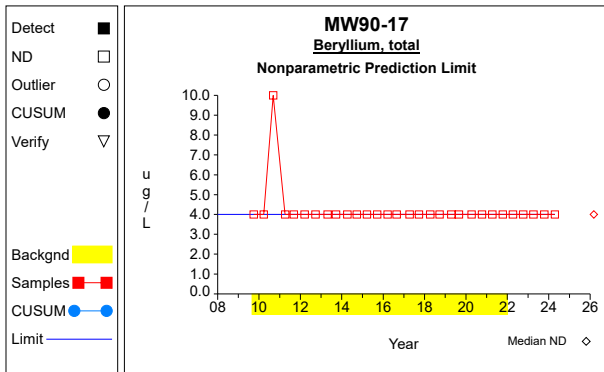
Graph 16



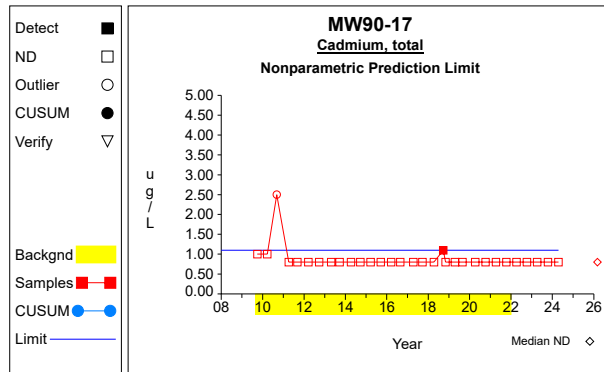
Graph 17



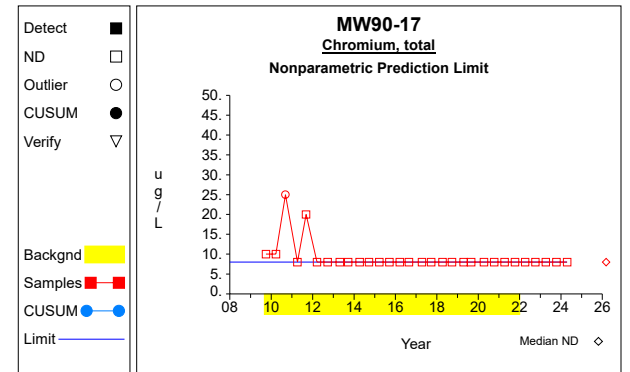
Graph 18



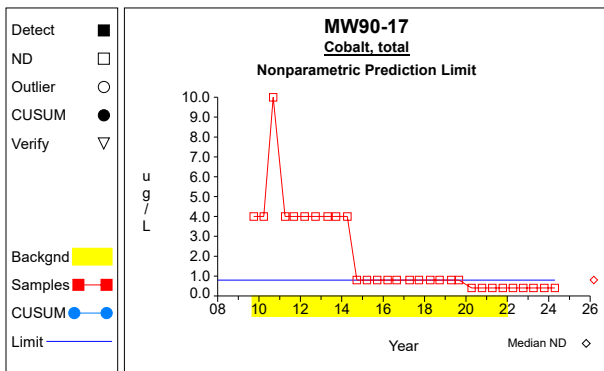
Graph 19



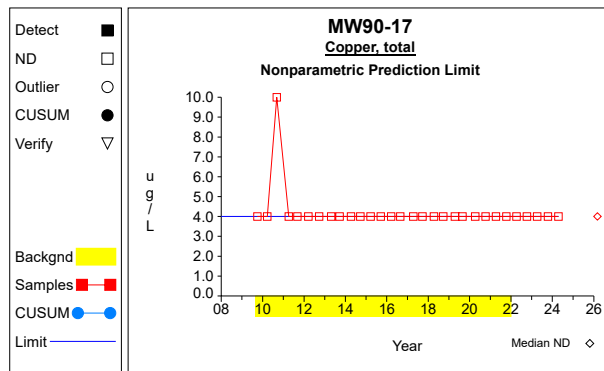
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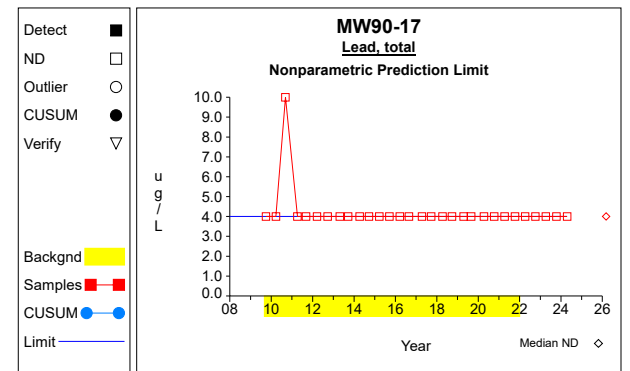
Graph 21



Graph 22

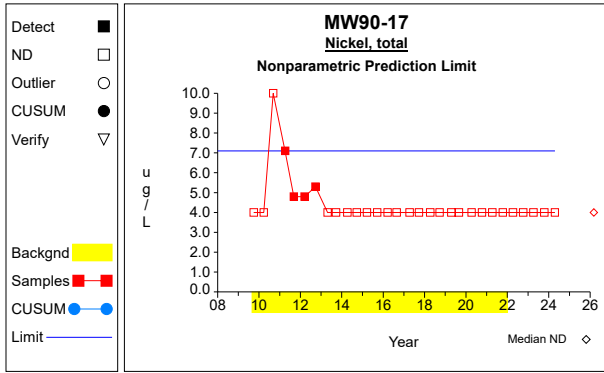


Graph 23

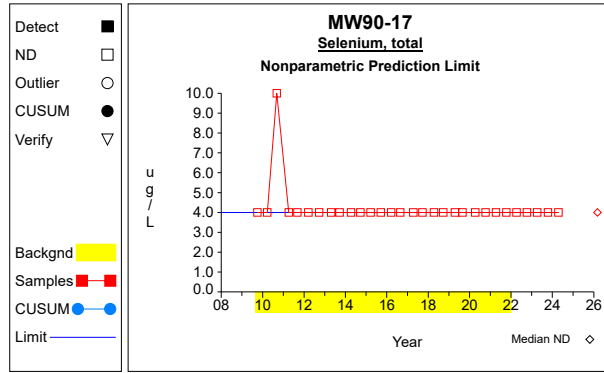


Graph 24

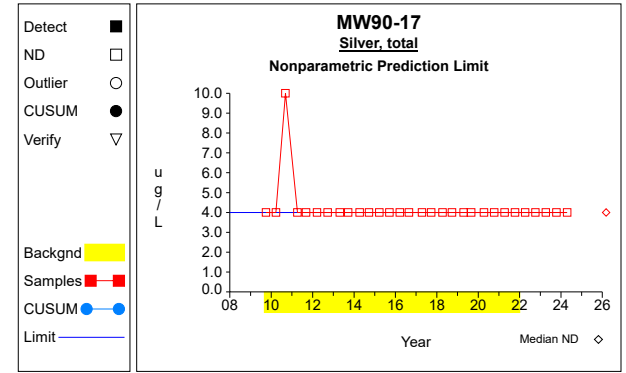
Intra-Well Control Charts / Prediction Limits



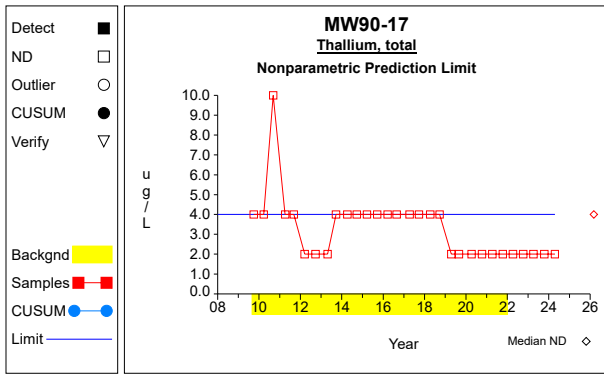
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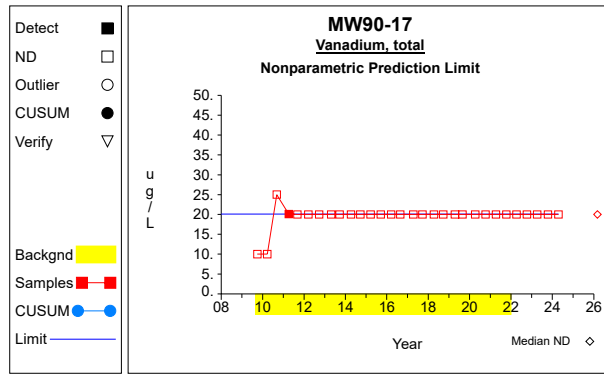
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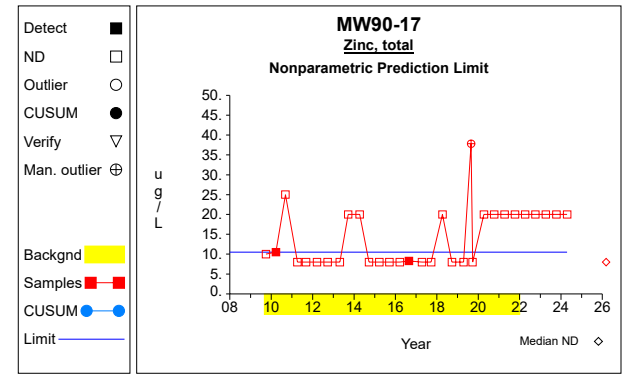
Graph 27



Graph 28

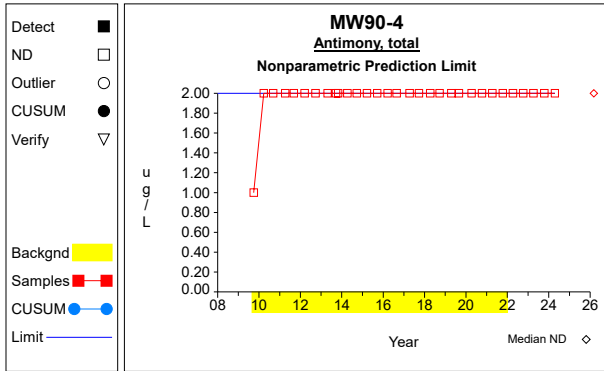


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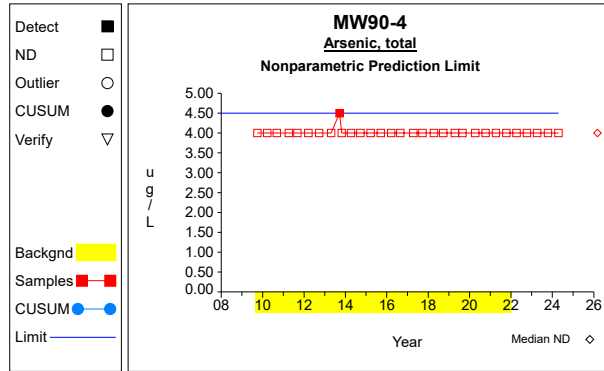


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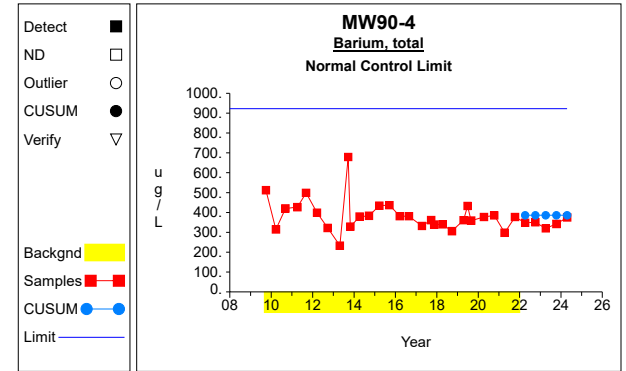
Intra-Well Control Charts / Prediction Limits



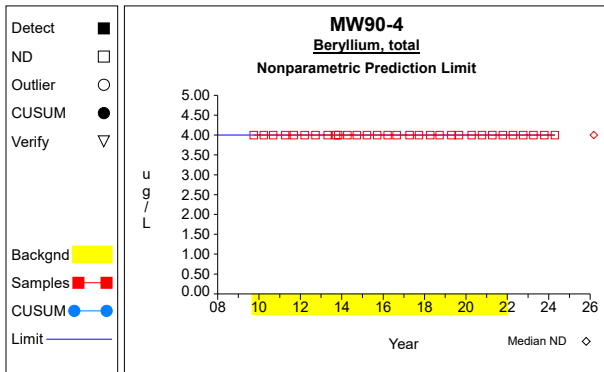
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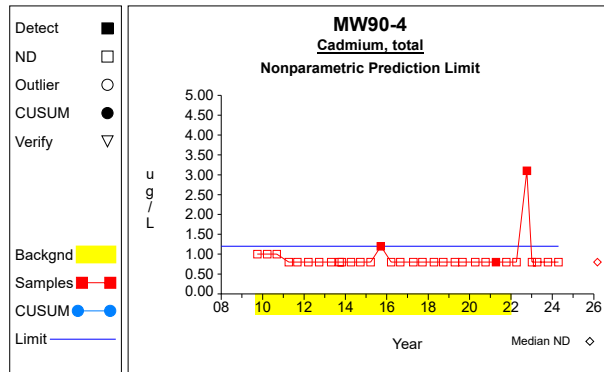
Graph 32



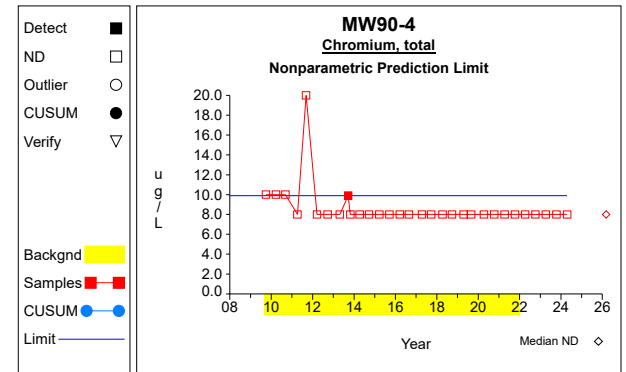
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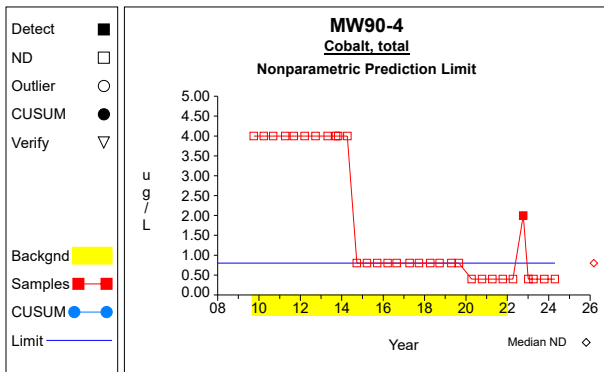
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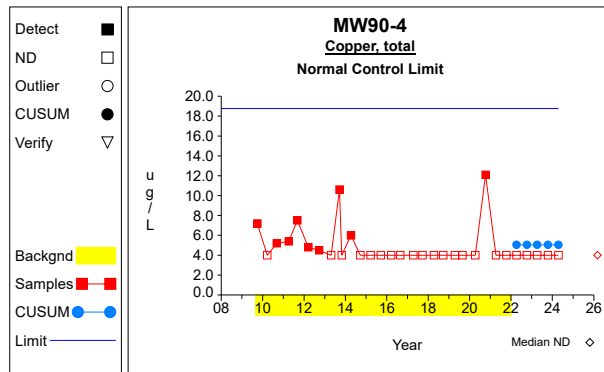
Graph 35



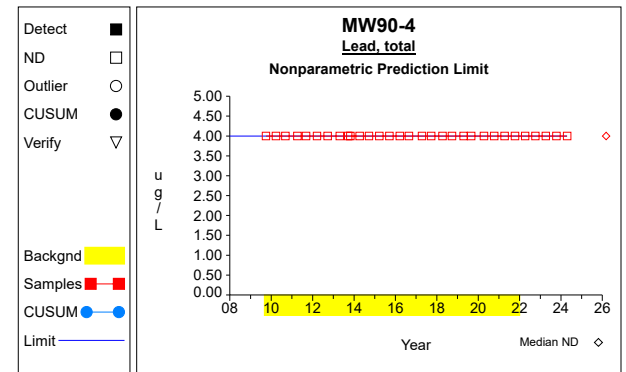
Graph 36



Graph 37

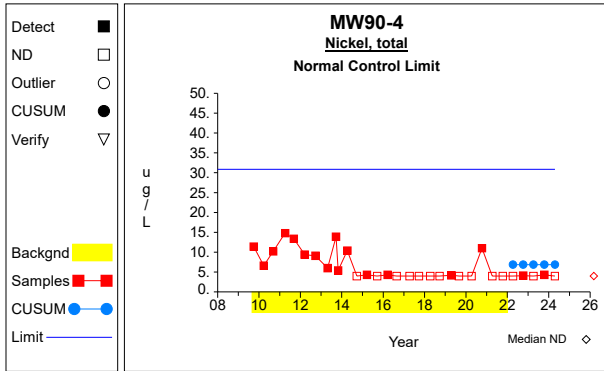


Graph 38

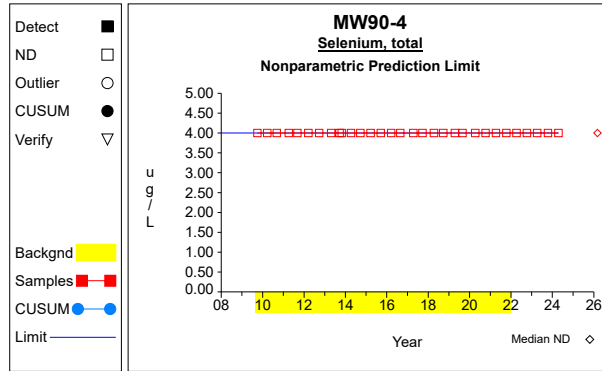


Graph 39

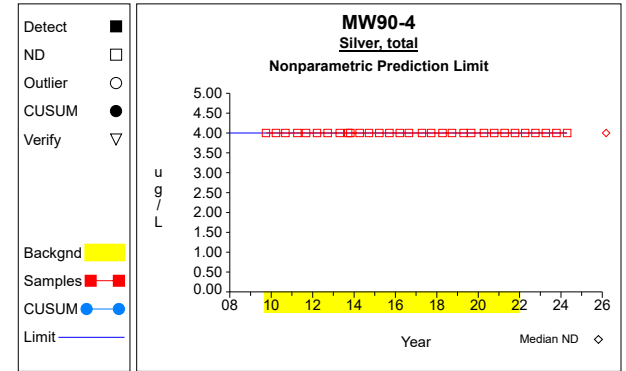
Intra-Well Control Charts / Prediction Limits



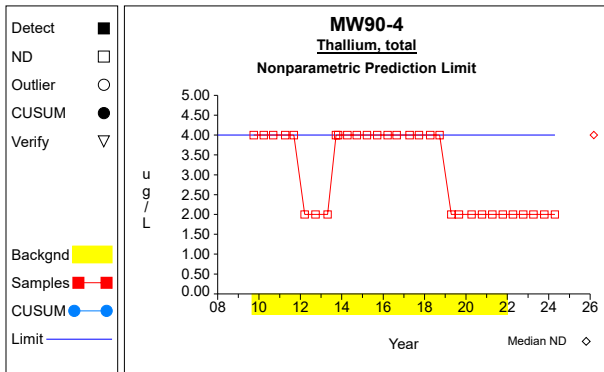
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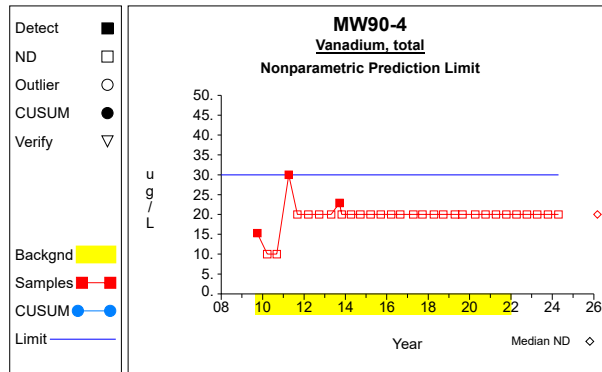
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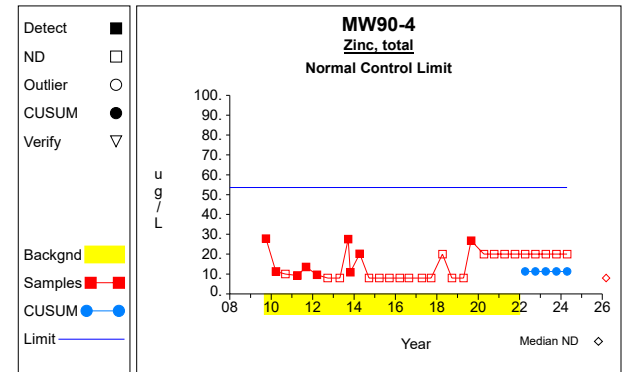
Graph 42



Graph 43

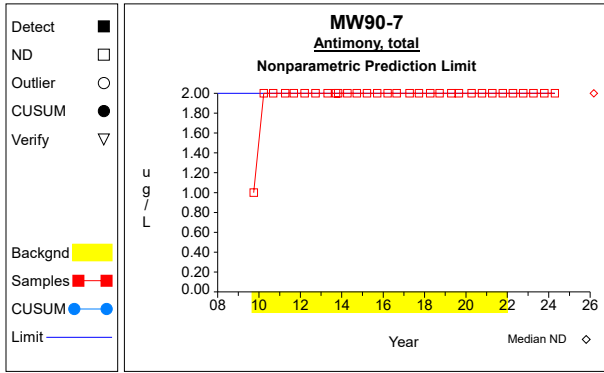


Graph 44

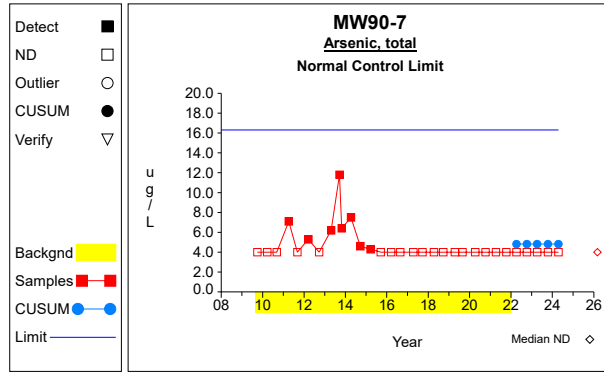


Graph 45

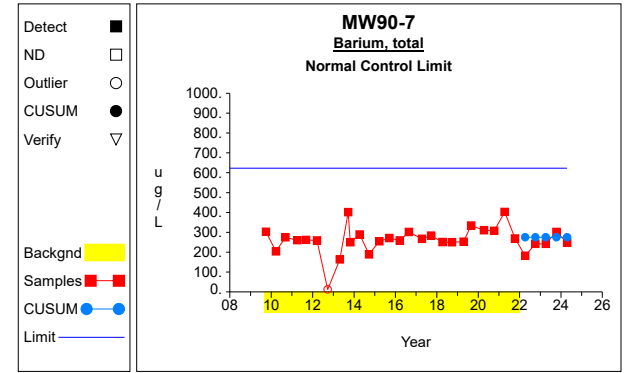
Intra-Well Control Charts / Prediction Limits



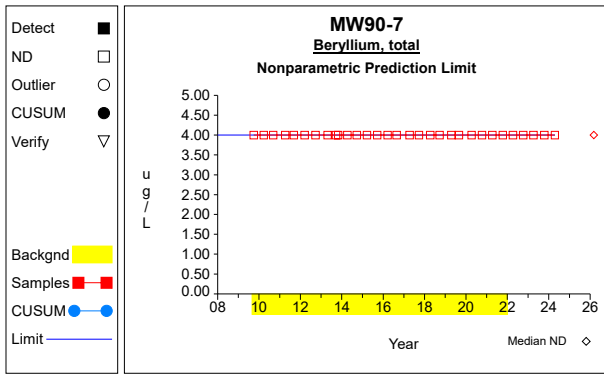
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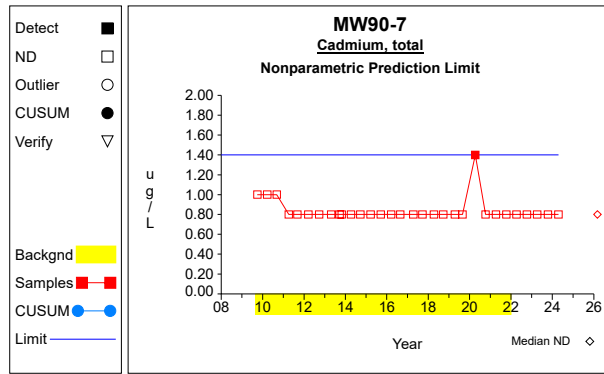
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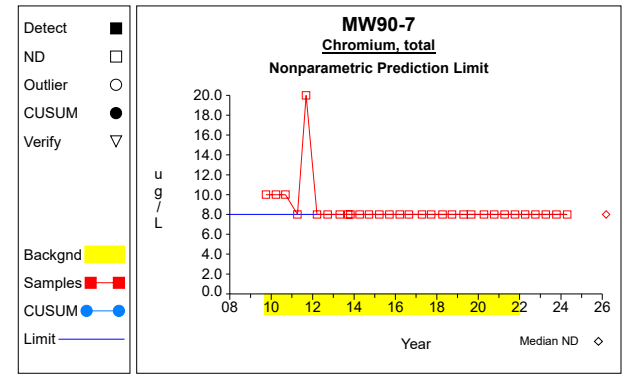
Graph 48



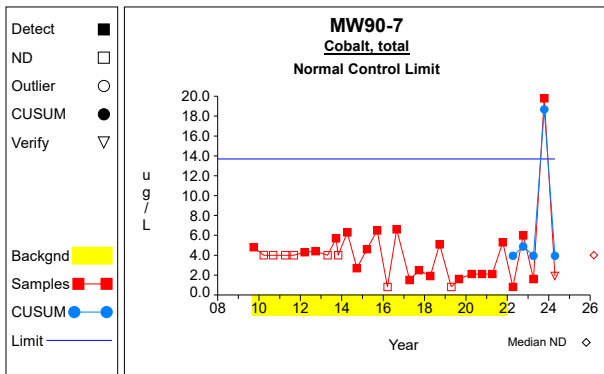
Graph 49



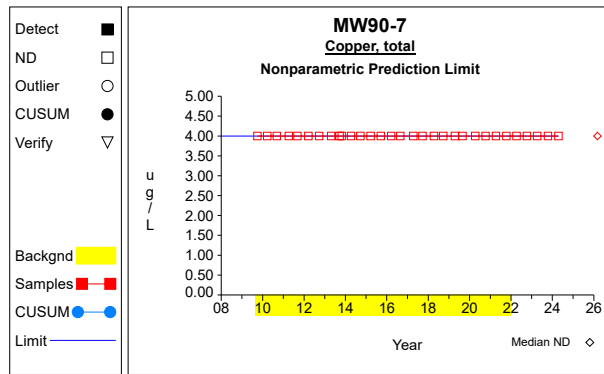
Graph 50



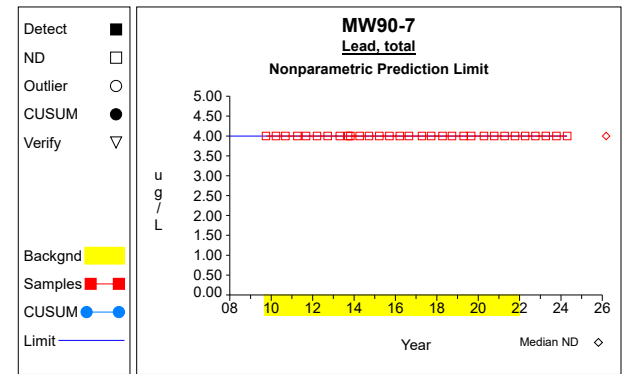
Graph 51



Graph 52

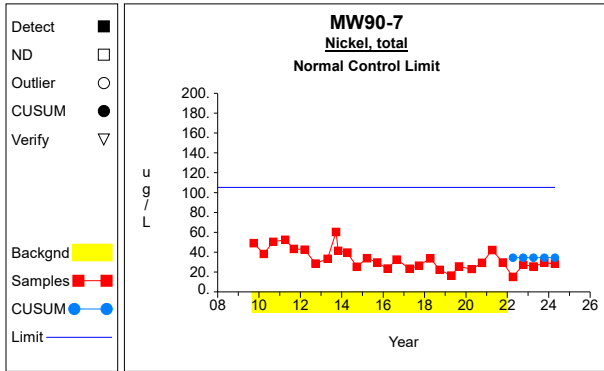


Graph 53

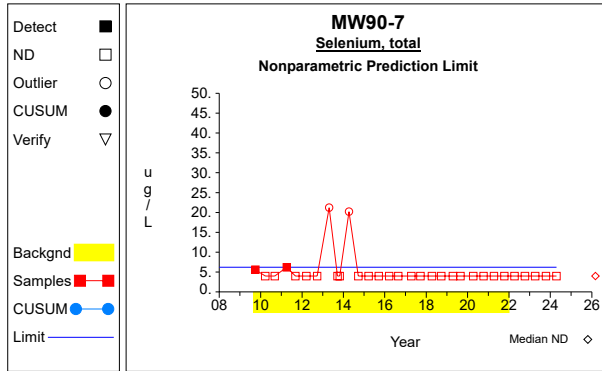


Graph 54

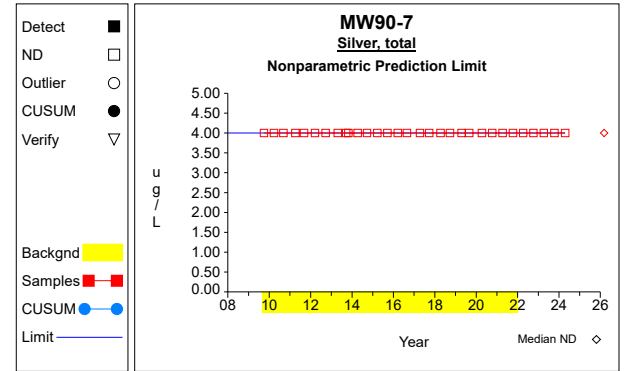
Intra-Well Control Charts / Prediction Limits



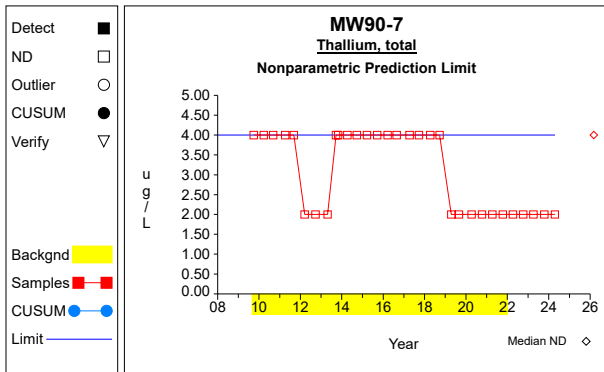
Graph 55



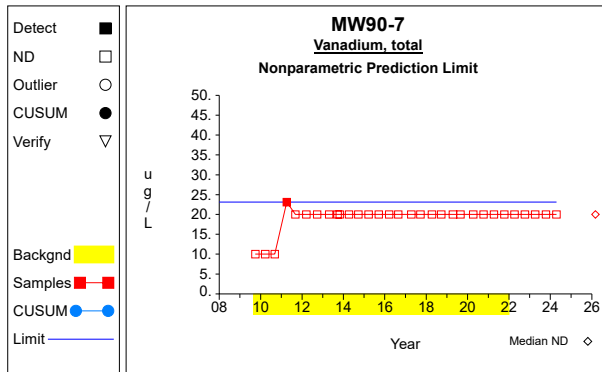
Graph 56



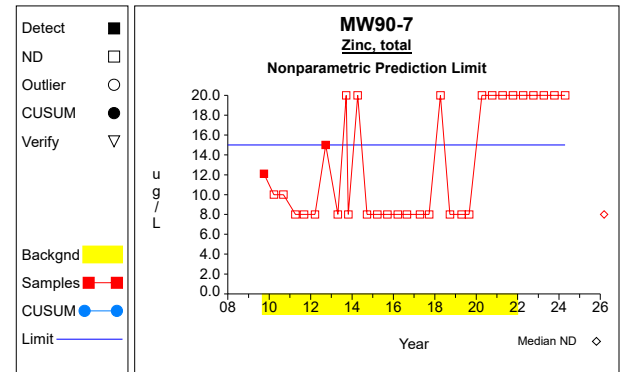
Graph 57



Graph 58

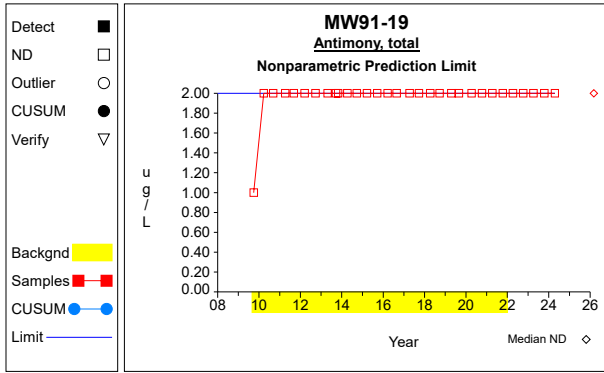


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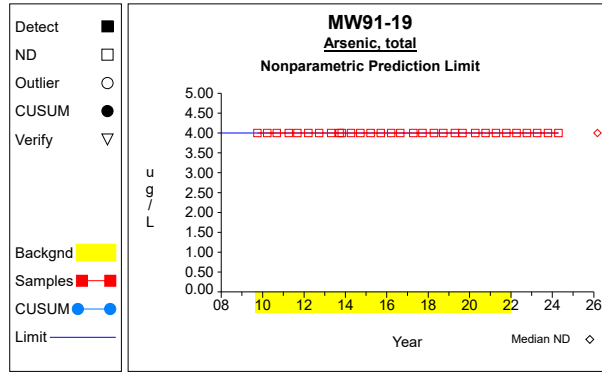


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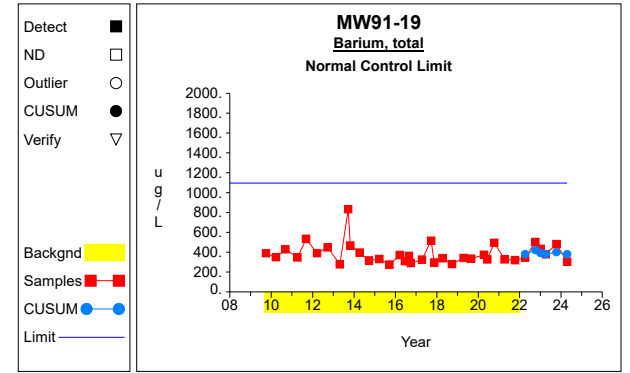
Intra-Well Control Charts / Prediction Limits



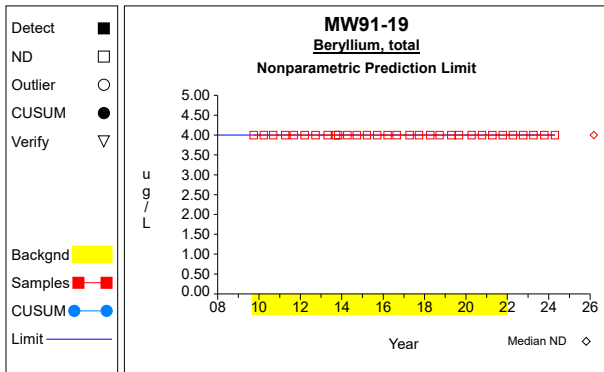
Graph 61



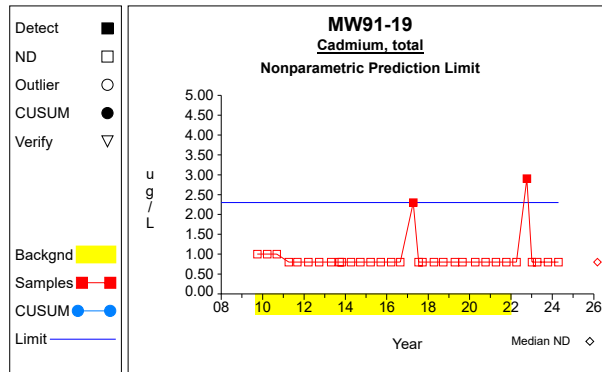
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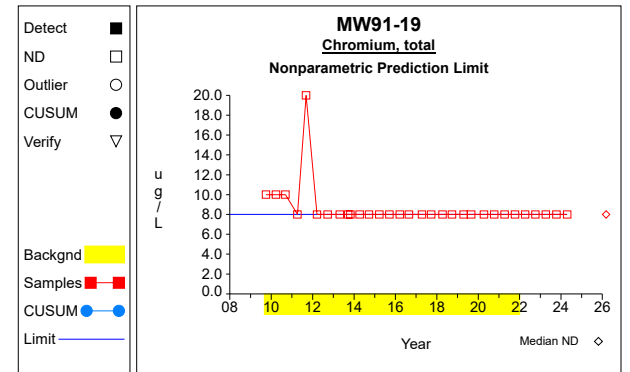
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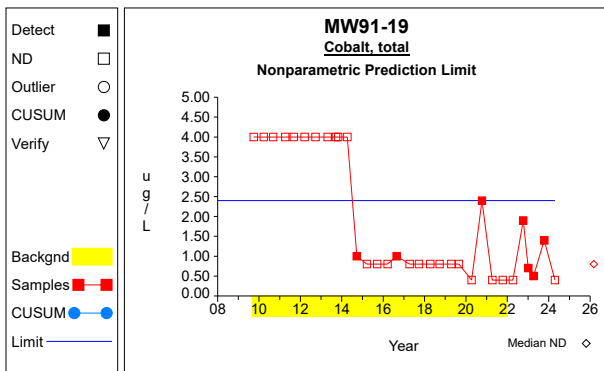
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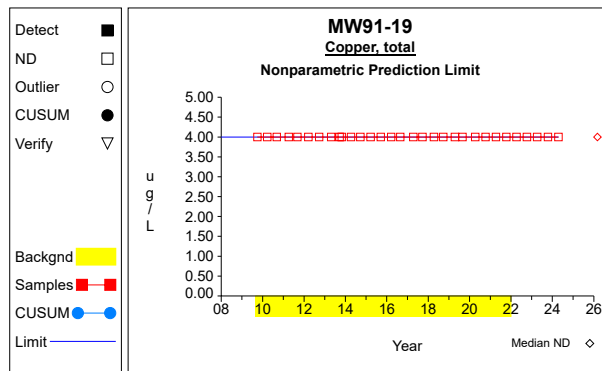
Graph 65



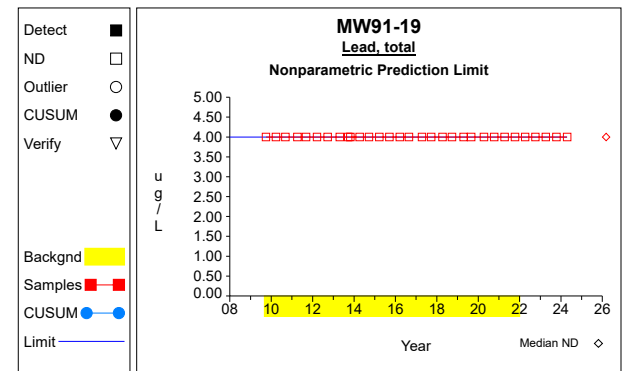
Graph 66



Graph 67

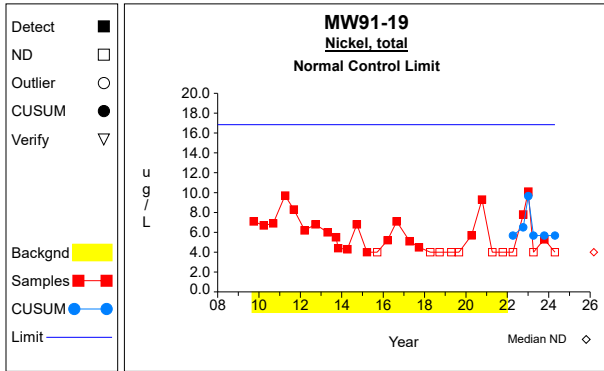


Graph 68

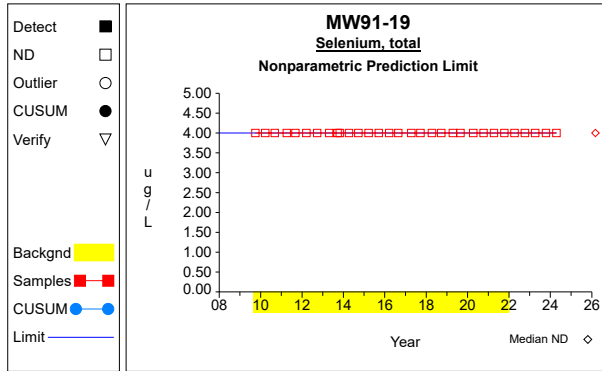


Graph 69

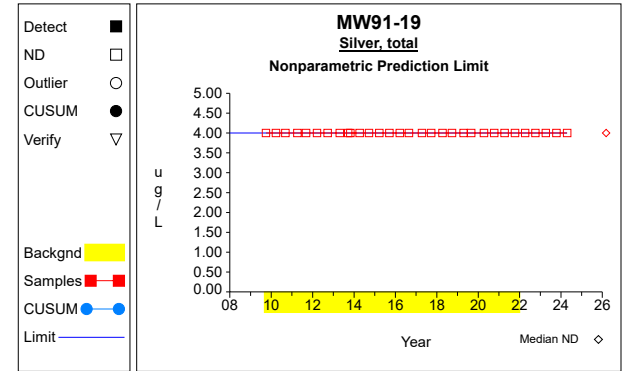
Intra-Well Control Charts / Prediction Limits



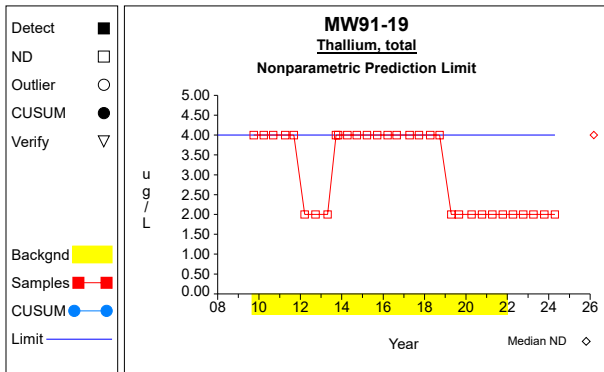
Graph 70



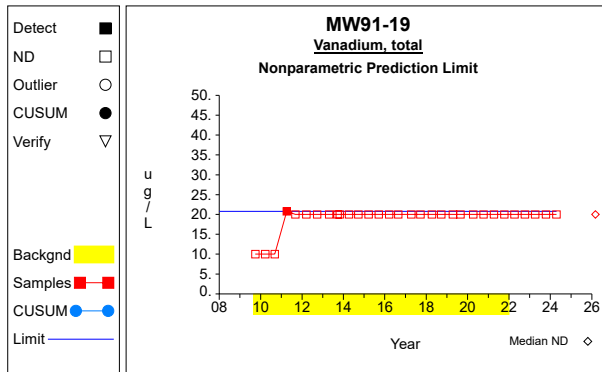
Graph 71



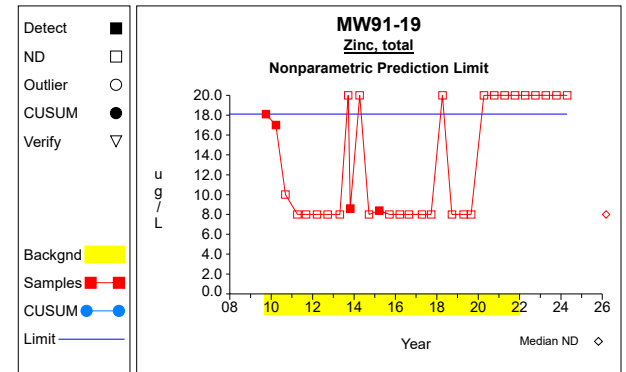
Graph 72



Graph 73

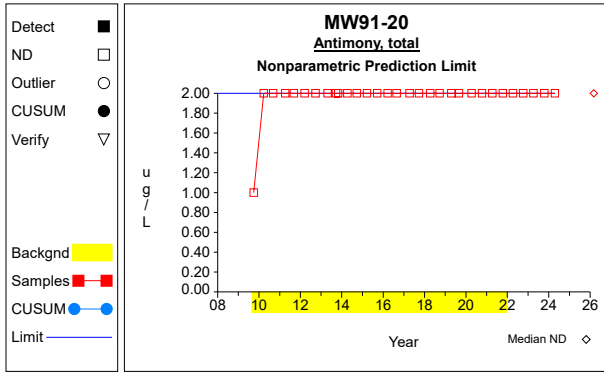


Graph 74

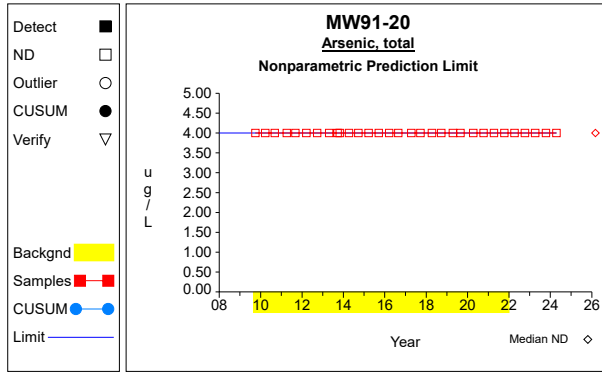


Graph 75

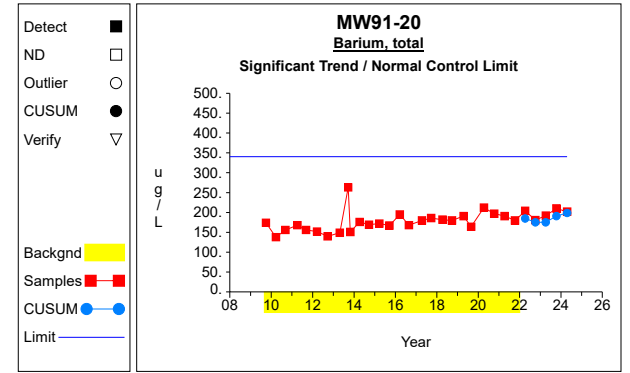
Intra-Well Control Charts / Prediction Limits



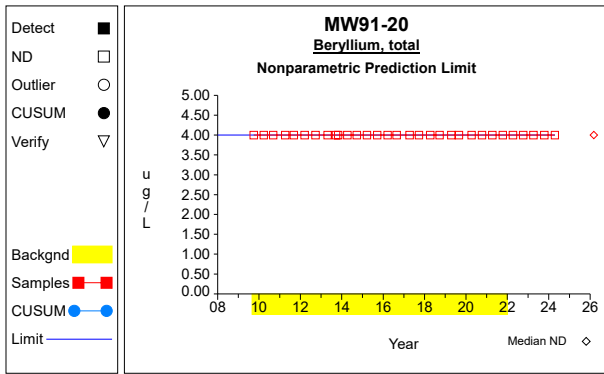
Graph 76



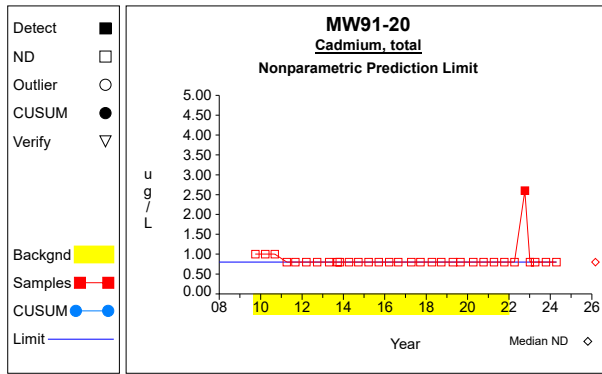
Graph 77



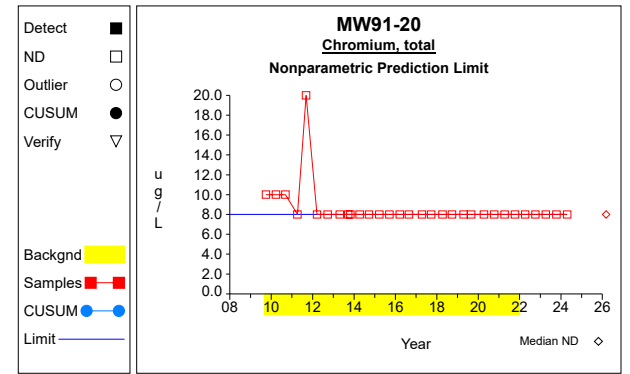
Graph 78



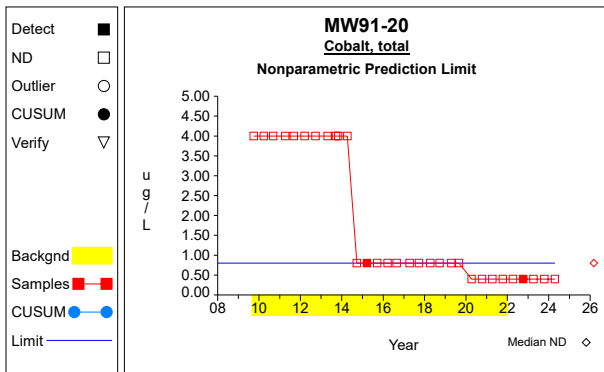
Graph 79



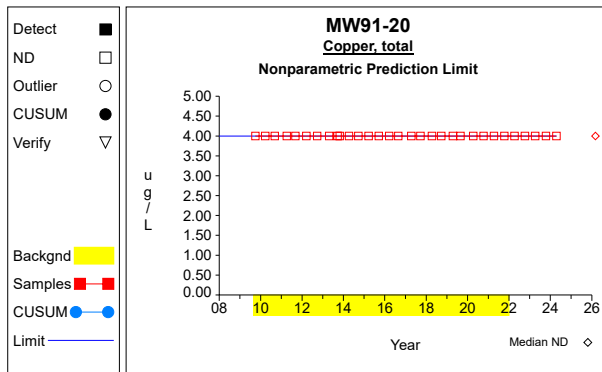
Graph 80



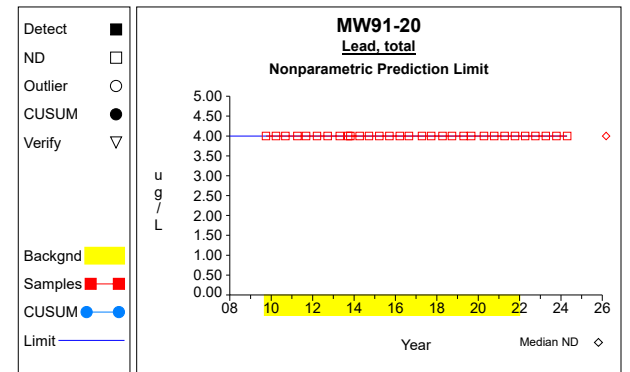
Graph 81



Graph 82

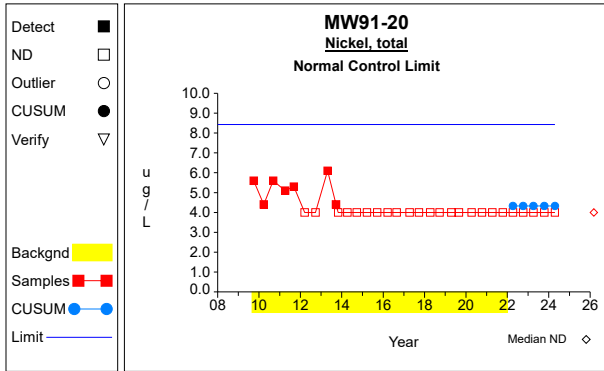


Graph 83

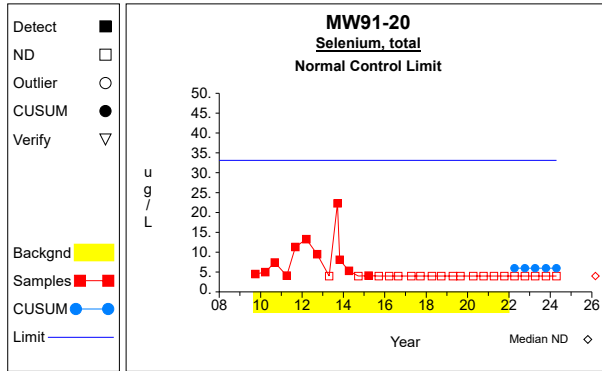


Graph 84

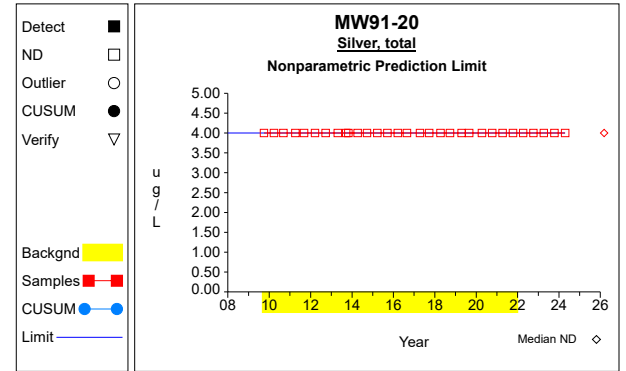
Intra-Well Control Charts / Prediction Limits



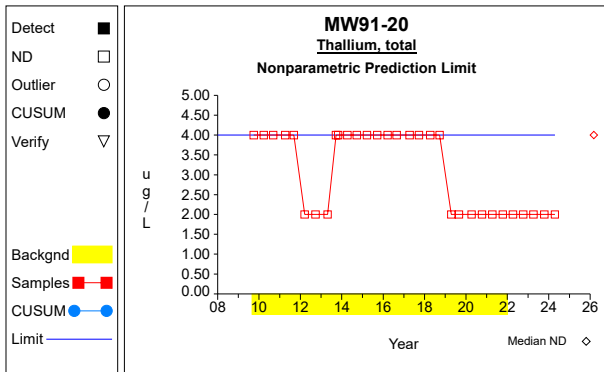
Graph 85



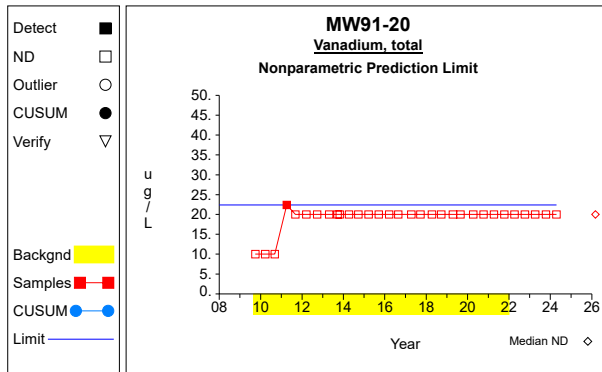
Graph 86



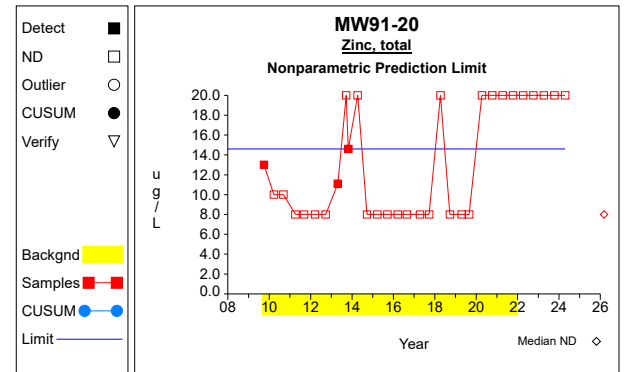
Graph 87



Graph 88

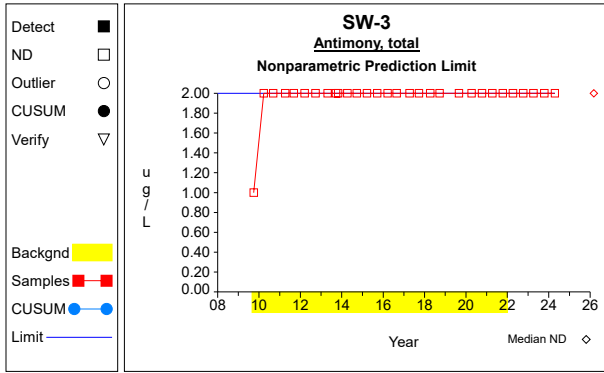


Graph 89

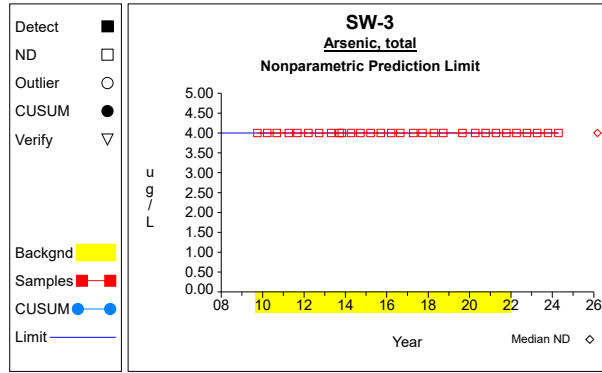


Graph 90

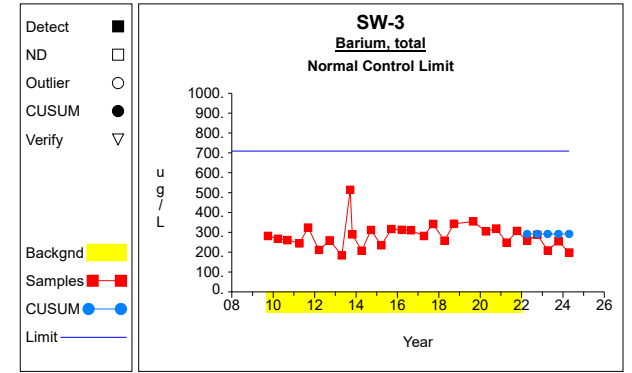
Intra-Well Control Charts / Prediction Limits



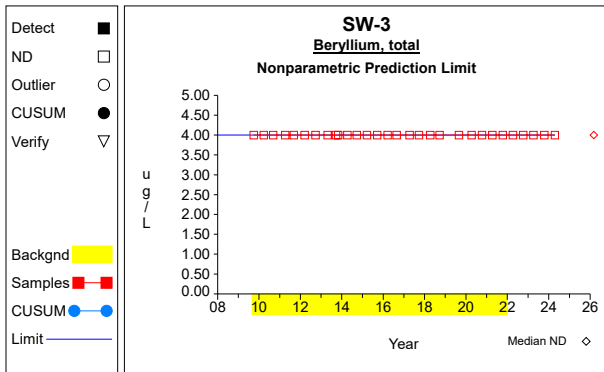
Graph 91



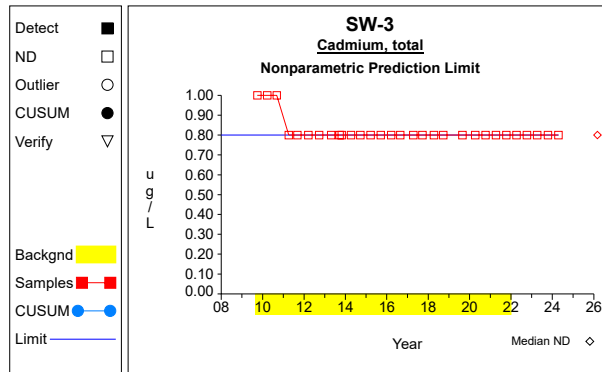
Graph 92



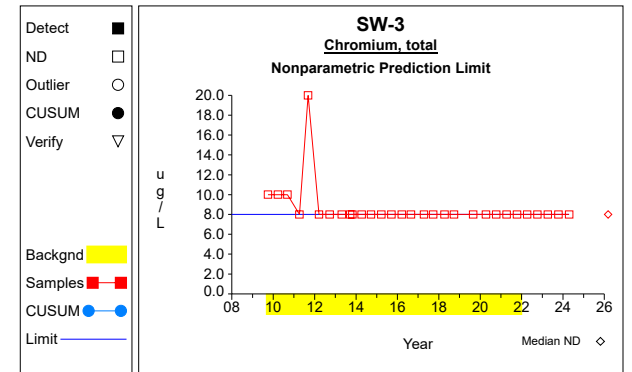
Graph 93



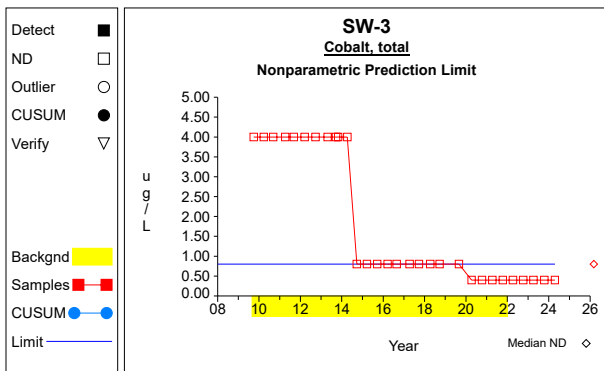
Graph 94



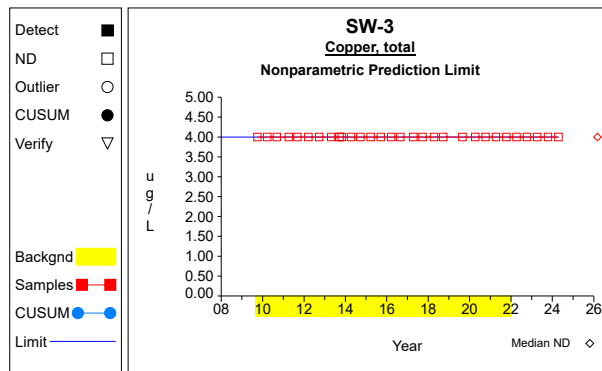
Graph 95



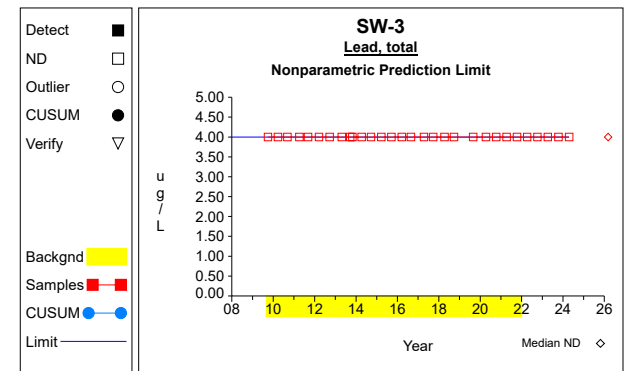
Graph 96



Graph 97

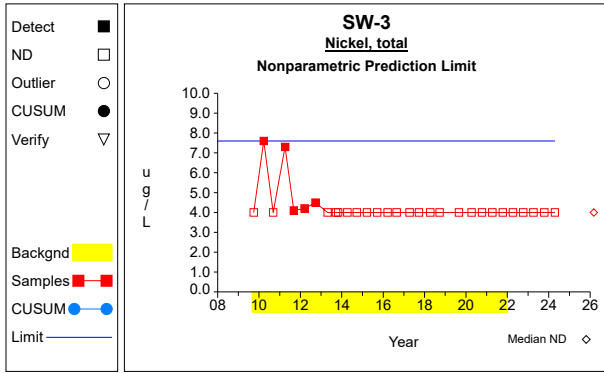


Graph 98

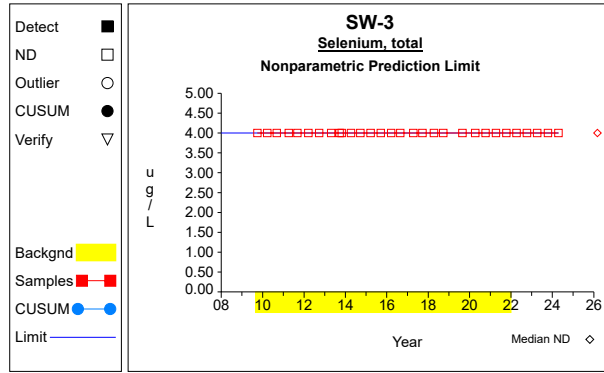


Graph 99

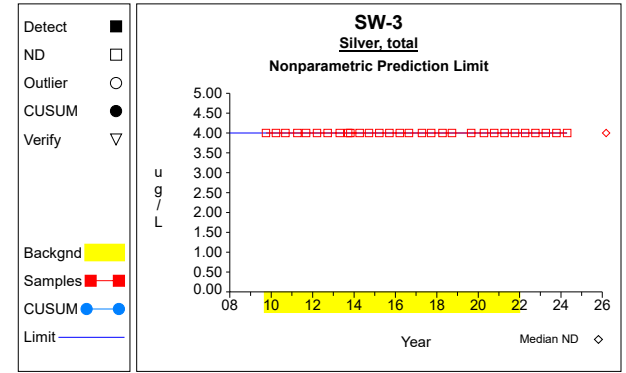
Intra-Well Control Charts / Prediction Limits



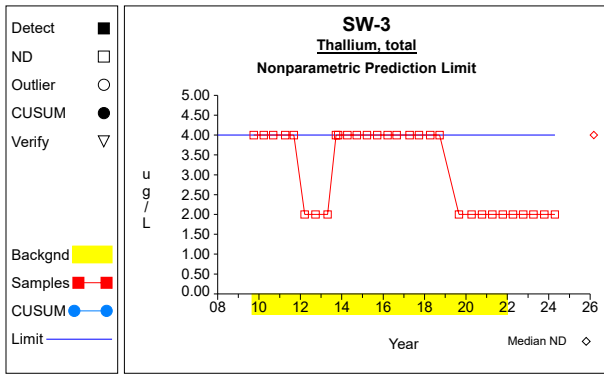
Graph 100



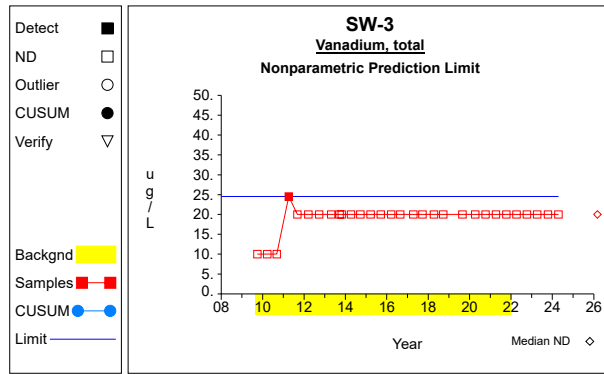
Graph 101



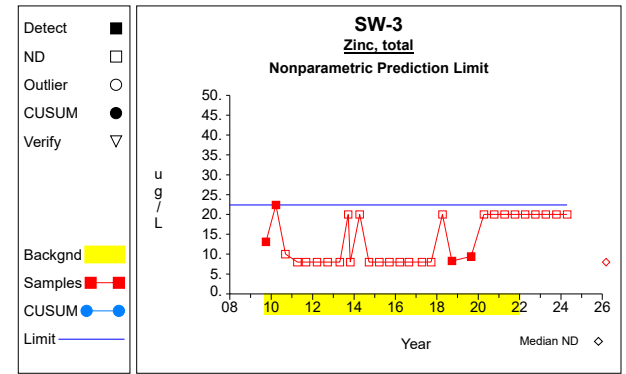
Graph 102



Graph 103

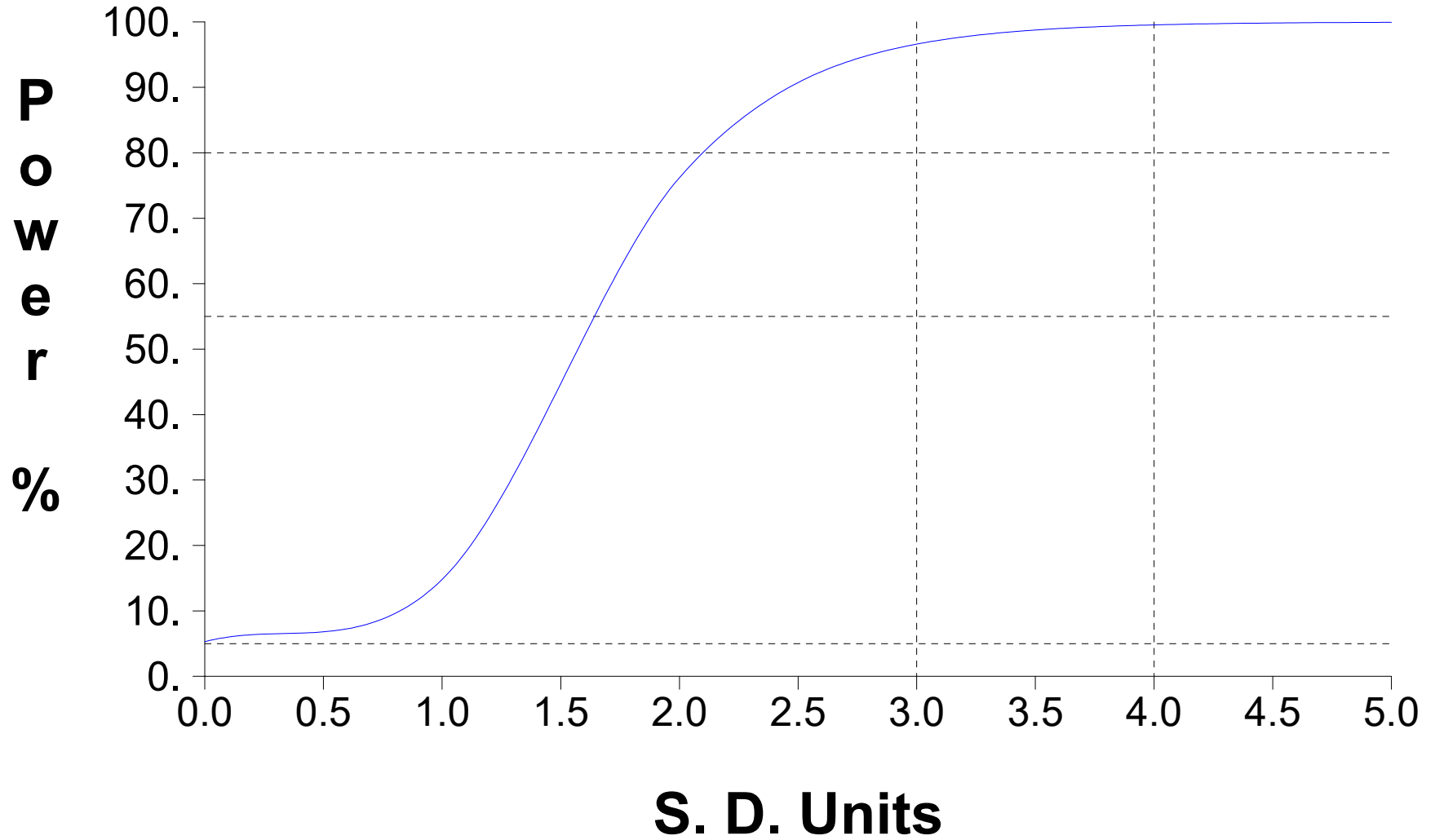


Graph 104



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 |
| 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

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 |
|----------------------------|-------|---------|---|-------|-------|--------|---------|---------|----------|-------|
| Bis(2-ethylhexyl)phthalate | ug/L | MW90-14 | 4 | 3.000 | 0.000 | 1.176 | 3.000 | 3.000 | 6.000 | |
| Bis(2-ethylhexyl)phthalate | ug/L | MW90-4 | 4 | 5.750 | 5.500 | 1.176 | 0.000 | 12.220 | 6.000 | |
| Bis(2-ethylhexyl)phthalate | ug/L | MW90-7 | 4 | 6.750 | 7.500 | 1.176 | 0.000 | 15.572 | 6.000 | |
| Bis(2-ethylhexyl)phthalate | ug/L | MW91-19 | 4 | 6.250 | 4.500 | 1.176 | 0.957 | 11.543 | 6.000 | |

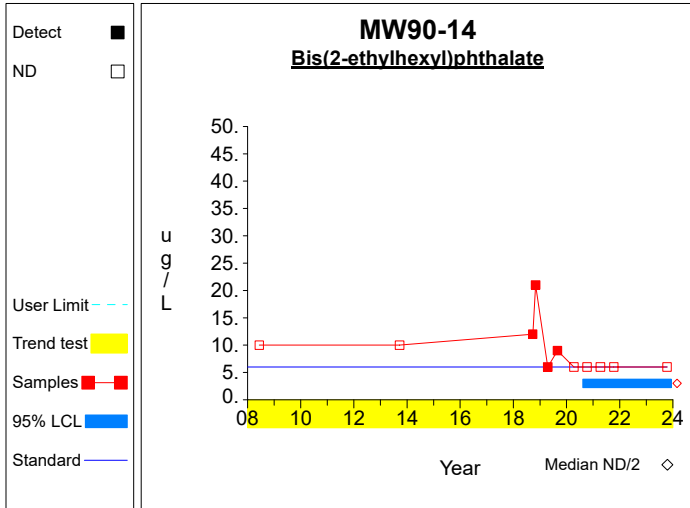
* - Insufficient Data

** - Significant Exceedance

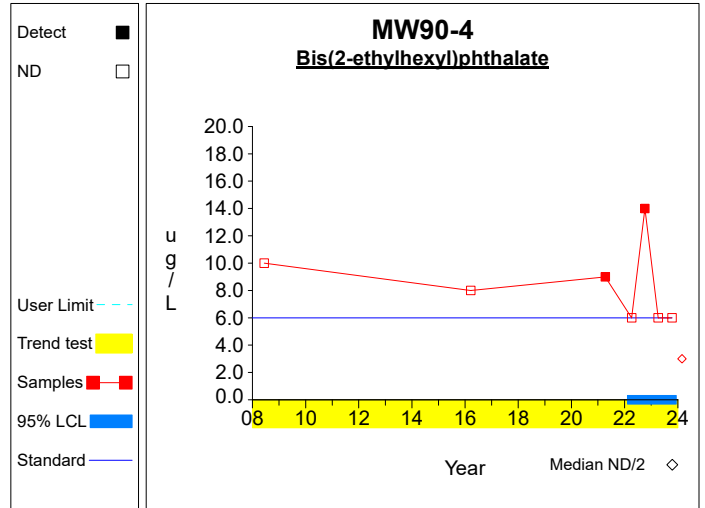
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

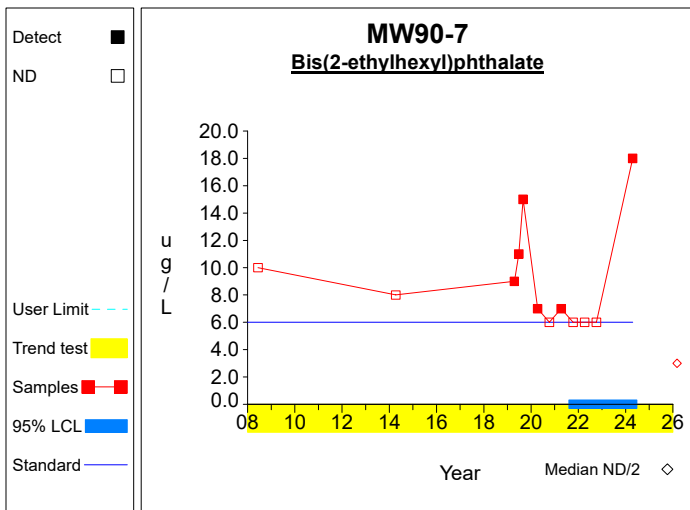
Confidence Limits (Assessment)



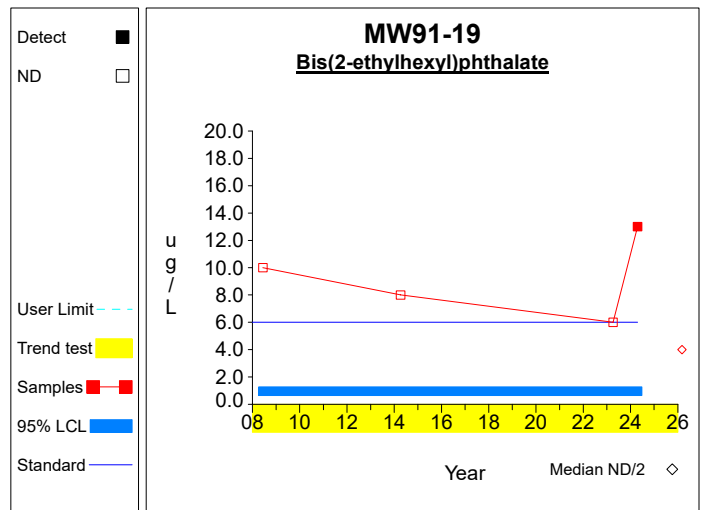
Graph 1



Graph 2



Graph 3



Graph 4

Appendix C.2 – 2nd Semester Statistical Report

**Results of the Ground Water Statistics
for Audubon County Sanitary Landfill**

Second Semi-Annual Monitoring Event in 2024

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November 2024

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 2024 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 15, 2024 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 | trans-1,4-Dichloro-2-butene | Iodomethane |
| Acrylonitrile | 1,1-Dichloroethane | 4-Methyl-2-pentanone |
| Benzene | 1,2-Dichloroethane | Styrene |
| Bromochloromethane | 1,1-Dichloroethene | 1,1,1,2-Tetrachloroethane |
| Bromodichloromethane | cis-1,2-Dichloroethene | 1,1,2,2-Tetrachloroethane |
| Bromoform | trans-1,2-Dichloroethene | Tetrachloroethene |
| Carbon disulfide | 1,2-Dichloropropane | Toluene |
| Carbon tetrachloride | cis-1,3-Dichloropropene | 1,1,1-Trichloroethane |
| Chlorobenzene | trans-1,3-Dichloropropene | 1,1,2-Trichloroethane |
| Chloroethane | Ethylbenzene | Trichloroethene |
| Chloroform | 2-Hexanone | Trichlorofluoromethane |
| Dibromochloromethane | Bromomethane | 1,2,3-Trichloropropane |
| 1,2-Dibromo-3-chloropropane | Chloromethane | Vinyl acetate |
| 1,2-Dibromoethane | Dibromomethane | Vinyl chloride |
| 1,2-Dichlorobenzene | Methylene chloride | Xylenes (Total) |
| 1,4-Dichlorobenzene | 2-Butanone | |

Inorganic constituents:

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

The ground water data obtained during the second semi-annual monitoring event in 2024 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. 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 2024**

| Well | Trace Metal Detected | Result, µg/L | Prediction Limit, µg/L | Prediction Limit Type | Verified/ Awaiting verification |
|---------|----------------------|--------------|------------------------|-----------------------|------------------------------------|
| MW90-14 | Cadmium | 1.3 | 1.1000 | Nonparametric | Awaiting verification |
| | Nickel | 12.9 | 7.1000 | Nonparametric | Verified |
| MW90-4 | Barium | 381 | 363.5707 | Normal | Verified |
| | Cadmium | 1.3 | 1.1000 | Nonparametric | Awaiting verification |
| MW90-7 | Cobalt | 7.6 | 0.8000 | Nonparametric | Verified |
| | Nickel | 23.3 | 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 Second Semi-Annual Monitoring Event in 2024

| Well | Parameter | Result | CUSUM Value | Control Limit | Control Limit Type | Verified or Awaiting Verification |
|--------|---------------|--------|-------------|---------------|--------------------|-----------------------------------|
| MW90-4 | Cadmium, µg/L | 1.3 | -- | 1.2000 | 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 3 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 and the previous detections of bis(2-ethylhexyl)phthalate at MW90-7 and bis(2-ethylhexyl)phthalate at MW91-19 were not confirmed by the current data.

The previous bis(2-ethylhexyl)phthalate detections were evaluated against the ground water protection standards (GWPS) using confidence limits. 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 95% LCLs for bis(2-ethylhexyl)phthalate do not exceed the USEPA MCL of 6 µg/L.

Historical VOC detections are summarized in Attachment E.

Attachment A

Ground Water Data obtained during the Second Semi-Annual Monitoring Event in 2024

Table 1

Analytical Data Summary for 10/15/2024

| 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 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Arsenic, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Barium, total | ug/L | 237 | 280 | 381 | 271 | 276 | 161 | 287 |
| Benzene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Beryllium, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Bis(2-ethylhexyl)phthalate | ug/L | | | | <6 | <6 | | |
| 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 | 1.3 | <.8 | 1.3 | <.8 | <.8 | <.8 | <.8 |
| Carbon disulfide | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon tetrachloride | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloromethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chromium, total | ug/L | <8 | <8 | <8 | <8 | <8 | <8 | <8 |
| 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 | .4 | <.4 | <.4 | 7.6 | <.4 | <.4 | <.4 |
| Copper, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Dibromochloromethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Dibromomethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Iodomethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Lead, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Methylene chloride | ug/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Nickel, total | ug/L | 12.9 | <4.0 | <4.0 | 23.3 | <4.0 | <4.0 | <4.0 |
| Selenium, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Silver, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Styrene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Tetrachloroethene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thallium, total | ug/L | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 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 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| Vinyl acetate | ug/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Xylenes, total | ug/L | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Zinc, total | ug/L | <20 | <20 | <20 | <20 | <20 | <20 | <20 |

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons

Table 1

Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|-----------------|-------|---------|------------|----|----------|----------|----|
| Antimony, total | ug/L | 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 | | |
| 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 | | |
| 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 | | |
| Barium, total | ug/L | MW90-17 | 09/22/2014 | | 212.0000 | | |
| Barium, total | ug/L | MW90-17 | 03/20/2015 | | 257.0000 | | |

* - 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 | 09/17/2015 | | 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 | | |
| Beryllium, total | ug/L | MW90-17 | 09/30/2009 | ND | 4.0000 | | |
| Beryllium, total | ug/L | MW90-17 | 03/23/2010 | ND | 4.0000 | 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 | | |
| 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 | | |
| 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 | | |

* - 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 | 04/09/2021 | 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 | | |
| 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 | | |
| 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 | ** |
| 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 | ** |
| 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 | | |

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

Table 1

Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---------------|-------|---------|------------|----|---------|----------|----|
| Copper, total | ug/L | 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 | | |
| 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 | | |
| 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 | | |

* - 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 | 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 | | |
| 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 | | |
| 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 | | |
| 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 | | |

* - 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 | 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 | | |
| Thallium, total | ug/L | MW90-17 | 09/30/2009 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 03/23/2010 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 09/07/2010 | ND | 10.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 04/05/2011 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 09/06/2011 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 03/16/2012 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 09/24/2012 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 04/24/2013 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 09/20/2013 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 04/08/2014 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 09/22/2014 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 03/20/2015 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 09/17/2015 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 03/17/2016 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 08/26/2016 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 04/11/2017 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 09/23/2017 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 04/10/2018 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 09/24/2018 | ND | 4.0000 | | |
| Thallium, total | ug/L | MW90-17 | 04/16/2019 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 08/29/2019 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 04/10/2020 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 10/09/2020 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 04/09/2021 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 10/11/2021 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 04/07/2022 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 10/06/2022 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 04/05/2023 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 10/13/2023 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 04/18/2024 | ND | 2.0000 | 4.0000 | ** |
| Thallium, total | ug/L | MW90-17 | 10/15/2024 | ND | 2.0000 | 4.0000 | ** |
| 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 | | |
| 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 | | |
| Zinc, total | ug/L | MW90-17 | 09/30/2009 | ND | 10.0000 | | |
| Zinc, total | ug/L | MW90-17 | 03/23/2010 | | 10.5000 | | |
| Zinc, total | ug/L | MW90-17 | 09/07/2010 | ND | 25.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 04/05/2011 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 09/06/2011 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 03/16/2012 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 09/24/2012 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 04/24/2013 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 09/20/2013 | ND | 20.0000 | 10.0000 | ** |

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

Table 1

Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|-------------|-------|---------|------------|----|---------|----------|----|
| Zinc, total | ug/L | MW90-17 | 04/08/2014 | ND | 20.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 09/22/2014 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 03/20/2015 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 09/17/2015 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 03/17/2016 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 08/26/2016 | | 8.3000 | | |
| Zinc, total | ug/L | MW90-17 | 04/11/2017 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 09/23/2017 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 04/10/2018 | ND | 20.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 09/24/2018 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 04/16/2019 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 08/29/2019 | | 37.8000 | | * |
| Zinc, total | ug/L | MW90-17 | 09/23/2019 | ND | 8.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 04/10/2020 | ND | 20.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 10/09/2020 | ND | 20.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 04/09/2021 | ND | 20.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 10/11/2021 | ND | 20.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 04/07/2022 | ND | 20.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 10/06/2022 | ND | 20.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 04/05/2023 | ND | 20.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 10/13/2023 | ND | 20.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 04/18/2024 | ND | 20.0000 | 10.0000 | ** |
| Zinc, total | ug/L | MW90-17 | 10/15/2024 | ND | 20.0000 | 10.0000 | ** |

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

Table 2

Most Current Downgradient Monitoring Data

| Constituent | Units | Well | Date | | Result | | Pred. Limit |
|------------------|-------|---------|------------|----|----------|-----|-------------|
| Antimony, total | ug/L | MW90-14 | 10/15/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW90-14 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW90-14 | 10/15/2024 | | 237.0000 | | 363.5707 |
| Beryllium, total | ug/L | MW90-14 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW90-14 | 10/15/2024 | | 1.3000 | * | 1.1000 |
| Chromium, total | ug/L | MW90-14 | 10/15/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW90-14 | 10/15/2024 | | 0.4000 | | 0.8000 |
| Copper, total | ug/L | MW90-14 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Lead, total | ug/L | MW90-14 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW90-14 | 10/15/2024 | | 12.9000 | *** | 7.1000 |
| Selenium, total | ug/L | MW90-14 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW90-14 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW90-14 | 10/15/2024 | ND | 2.0000 | | 4.0000 |
| Vanadium, total | ug/L | MW90-14 | 10/15/2024 | ND | 20.0000 | | 20.1000 |
| Zinc, total | ug/L | MW90-14 | 10/15/2024 | ND | 20.0000 | | 10.5000 |
| Antimony, total | ug/L | MW90-4 | 10/15/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW90-4 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW90-4 | 10/15/2024 | | 381.0000 | *** | 363.5707 |
| Beryllium, total | ug/L | MW90-4 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW90-4 | 10/15/2024 | | 1.3000 | * | 1.1000 |
| Chromium, total | ug/L | MW90-4 | 10/15/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW90-4 | 10/15/2024 | ND | 0.4000 | | 0.8000 |
| Copper, total | ug/L | MW90-4 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Lead, total | ug/L | MW90-4 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW90-4 | 10/15/2024 | ND | 4.0000 | | 7.1000 |
| Selenium, total | ug/L | MW90-4 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW90-4 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW90-4 | 10/15/2024 | ND | 2.0000 | | 4.0000 |
| Vanadium, total | ug/L | MW90-4 | 10/15/2024 | ND | 20.0000 | | 20.1000 |
| Zinc, total | ug/L | MW90-4 | 10/15/2024 | ND | 20.0000 | | 10.5000 |
| Antimony, total | ug/L | MW90-7 | 10/15/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW90-7 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW90-7 | 10/15/2024 | | 271.0000 | | 363.5707 |
| Beryllium, total | ug/L | MW90-7 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW90-7 | 10/15/2024 | ND | 0.8000 | | 1.1000 |
| Chromium, total | ug/L | MW90-7 | 10/15/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW90-7 | 10/15/2024 | | 7.6000 | *** | 0.8000 |
| Copper, total | ug/L | MW90-7 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Lead, total | ug/L | MW90-7 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW90-7 | 10/15/2024 | | 23.3000 | *** | 7.1000 |
| Selenium, total | ug/L | MW90-7 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW90-7 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW90-7 | 10/15/2024 | ND | 2.0000 | | 4.0000 |
| Vanadium, total | ug/L | MW90-7 | 10/15/2024 | ND | 20.0000 | | 20.1000 |
| Zinc, total | ug/L | MW90-7 | 10/15/2024 | ND | 20.0000 | | 10.5000 |
| Antimony, total | ug/L | MW91-19 | 10/15/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW91-19 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW91-19 | 10/15/2024 | | 276.0000 | | 363.5707 |
| Beryllium, total | ug/L | MW91-19 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW91-19 | 10/15/2024 | ND | 0.8000 | | 1.1000 |
| Chromium, total | ug/L | MW91-19 | 10/15/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW91-19 | 10/15/2024 | ND | 0.4000 | | 0.8000 |
| Copper, total | ug/L | MW91-19 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Lead, total | ug/L | MW91-19 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW91-19 | 10/15/2024 | ND | 4.0000 | | 7.1000 |
| Selenium, total | ug/L | MW91-19 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW91-19 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW91-19 | 10/15/2024 | ND | 2.0000 | | 4.0000 |
| Vanadium, total | ug/L | MW91-19 | 10/15/2024 | ND | 20.0000 | | 20.1000 |
| Zinc, total | ug/L | MW91-19 | 10/15/2024 | ND | 20.0000 | | 10.5000 |
| Antimony, total | ug/L | MW91-20 | 10/15/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW91-20 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW91-20 | 10/15/2024 | | 161.0000 | | 363.5707 |
| Beryllium, total | ug/L | MW91-20 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW91-20 | 10/15/2024 | ND | 0.8000 | | 1.1000 |
| Chromium, total | ug/L | MW91-20 | 10/15/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW91-20 | 10/15/2024 | ND | 0.4000 | | 0.8000 |
| Copper, total | ug/L | MW91-20 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Lead, total | ug/L | MW91-20 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW91-20 | 10/15/2024 | ND | 4.0000 | | 7.1000 |
| Selenium, total | ug/L | MW91-20 | 10/15/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW91-20 | 10/15/2024 | ND | 4.0000 | | 4.0000 |

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

Table 2

Most Current Downgradient Monitoring Data

| Constituent | Units | Well | Date | | Result | Pred. Limit |
|------------------|-------|---------|------------|----|----------|-------------|
| Thallium, total | ug/L | MW91-20 | 10/15/2024 | ND | 2.0000 | 4.0000 |
| Vanadium, total | ug/L | MW91-20 | 10/15/2024 | ND | 20.0000 | 20.1000 |
| Zinc, total | ug/L | MW91-20 | 10/15/2024 | ND | 20.0000 | 10.5000 |
| Antimony, total | ug/L | SW-3 | 10/15/2024 | ND | 2.0000 | 2.0000 |
| Arsenic, total | ug/L | SW-3 | 10/15/2024 | ND | 4.0000 | 4.0000 |
| Barium, total | ug/L | SW-3 | 10/15/2024 | | 287.0000 | 363.5707 |
| Beryllium, total | ug/L | SW-3 | 10/15/2024 | ND | 4.0000 | 4.0000 |
| Cadmium, total | ug/L | SW-3 | 10/15/2024 | ND | 0.8000 | 1.1000 |
| Chromium, total | ug/L | SW-3 | 10/15/2024 | ND | 8.0000 | 8.0000 |
| Cobalt, total | ug/L | SW-3 | 10/15/2024 | ND | 0.4000 | 0.8000 |
| Copper, total | ug/L | SW-3 | 10/15/2024 | ND | 4.0000 | 4.0000 |
| Lead, total | ug/L | SW-3 | 10/15/2024 | ND | 4.0000 | 4.0000 |
| Nickel, total | ug/L | SW-3 | 10/15/2024 | ND | 4.0000 | 7.1000 |
| Selenium, total | ug/L | SW-3 | 10/15/2024 | ND | 4.0000 | 4.0000 |
| Silver, total | ug/L | SW-3 | 10/15/2024 | ND | 4.0000 | 4.0000 |
| Thallium, total | ug/L | SW-3 | 10/15/2024 | ND | 2.0000 | 4.0000 |
| Vanadium, total | ug/L | SW-3 | 10/15/2024 | ND | 20.0000 | 20.1000 |
| Zinc, total | ug/L | SW-3 | 10/15/2024 | ND | 20.0000 | 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 | Upgradient | | | Downgradient | | |
|------------------|------------|----|------------|--------------|-----|------------|
| | Detect | N | Proportion | Detect | N | Proportion |
| Antimony, total | 0 | 31 | 0.000 | 0 | 205 | 0.000 |
| Arsenic, total | 0 | 31 | 0.000 | 25 | 205 | 0.122 |
| Barium, total | 31 | 31 | 1.000 | 212 | 212 | 1.000 |
| Beryllium, total | 0 | 31 | 0.000 | 1 | 205 | 0.005 |
| Cadmium, total | 1 | 31 | 0.032 | 34 | 209 | 0.163 |
| Chromium, total | 0 | 30 | 0.000 | 1 | 205 | 0.005 |
| Cobalt, total | 0 | 31 | 0.000 | 48 | 207 | 0.232 |
| Copper, total | 0 | 31 | 0.000 | 18 | 205 | 0.088 |
| Lead, total | 0 | 31 | 0.000 | 6 | 205 | 0.029 |
| Nickel, total | 4 | 31 | 0.129 | 118 | 206 | 0.573 |
| Selenium, total | 0 | 31 | 0.000 | 15 | 205 | 0.073 |
| Silver, total | 0 | 31 | 0.000 | 0 | 205 | 0.000 |
| Thallium, total | 0 | 31 | 0.000 | 0 | 205 | 0.000 |
| Vanadium, total | 1 | 31 | 0.032 | 9 | 205 | 0.044 |
| Zinc, total | 2 | 31 | 0.065 | 44 | 205 | 0.215 |

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 | 31 | 0.000 | | | | | | | | | nonpar |
| Arsenic, total | 0 | 31 | 0.000 | | | | | | | | | nonpar |
| Barium, total | 31 | 31 | 1.000 | 0.549 | 0.418 | | | | | 2.326 | normal | normal |
| Beryllium, total | 0 | 31 | 0.000 | | | | | | | | | nonpar |
| Cadmium, total | 1 | 31 | 0.032 | | | | | | | | | nonpar |
| Chromium, total | 0 | 30 | 0.000 | | | | | | | | | nonpar |
| Cobalt, total | 0 | 31 | 0.000 | | | | | | | | | nonpar |
| Copper, total | 0 | 31 | 0.000 | | | | | | | | | nonpar |
| Lead, total | 0 | 31 | 0.000 | | | | | | | | | nonpar |
| Nickel, total | 4 | 31 | 0.129 | 1.529 | 1.344 | | | | | 2.326 | normal | nonpar |
| Selenium, total | 0 | 31 | 0.000 | | | | | | | | | nonpar |
| Silver, total | 0 | 31 | 0.000 | | | | | | | | | nonpar |
| Thallium, total | 0 | 31 | 0.000 | | | | | | | | | nonpar |
| Vanadium, total | 1 | 31 | 0.032 | | | | | | | | | nonpar |
| Zinc, total | 2 | 31 | 0.065 | | | | | | | | | 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 | 31 | | | | | 2.0000 | nonpar | *** |
| Arsenic, total | ug/L | 0 | 31 | | | | | 4.0000 | nonpar | *** |
| Barium, total | ug/L | 31 | 31 | 250.1290 | 45.4435 | 0.0100 | 2.4963 | 363.5707 | normal | |
| Beryllium, total | ug/L | 0 | 31 | | | | | 4.0000 | nonpar | *** |
| Cadmium, total | ug/L | 1 | 31 | | | | | 1.1000 | nonpar | 0.99 |
| Chromium, total | ug/L | 0 | 30 | | | | | 8.0000 | nonpar | *** |
| Cobalt, total | ug/L | 0 | 31 | | | | | 0.8000 | nonpar | *** |
| Copper, total | ug/L | 0 | 31 | | | | | 4.0000 | nonpar | *** |
| Lead, total | ug/L | 0 | 31 | | | | | 4.0000 | nonpar | *** |
| Nickel, total | ug/L | 4 | 31 | | | | | 7.1000 | nonpar | 0.99 |
| Selenium, total | ug/L | 0 | 31 | | | | | 4.0000 | nonpar | *** |
| Silver, total | ug/L | 0 | 31 | | | | | 4.0000 | nonpar | *** |
| Thallium, total | ug/L | 0 | 31 | | | | | 4.0000 | nonpar | *** |
| Vanadium, total | ug/L | 1 | 31 | | | | | 20.1000 | nonpar | 0.99 |
| Zinc, total | ug/L | 2 | 31 | | | | | 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 |
|-----------------|-------|---------|------------|---------|--------------|-----------------------|----|----------------|
| Cadmium, total | ug/L | MW90-17 | 09/07/2010 | 2.5000 | < 2.5000 | 09/30/2009-10/15/2024 | 32 | 0.4448 |
| Chromium, total | ug/L | MW90-17 | 09/07/2010 | 25.0000 | < 25.0000 | 09/30/2009-10/15/2024 | 31 | 0.4502 |

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 |
| 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 |
| Nickel, total | ug/L | MW90-14 | 10/15/2024 | | 12.9000 * | 7.1000 |
| Barium, total | ug/L | MW90-4 | 06/09/2008 | | 336.0000 | 363.5707 |

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

Table 8

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

| Constituent | Units | Well | Date | | Result | Pred. Limit |
|----------------|-------|--------|------------|----|------------|-------------|
| Barium, total | ug/L | MW90-4 | 10/16/2008 | | 469.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 03/05/2009 | | 444.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 09/30/2009 | | 512.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 03/23/2010 | | 315.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 09/07/2010 | | 420.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 04/05/2011 | | 427.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 09/06/2011 | | 499.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 03/16/2012 | | 399.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 09/24/2012 | | 322.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 04/24/2013 | | 233.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 09/20/2013 | | 679.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 10/28/2013 | | 329.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 04/08/2014 | | 379.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 09/22/2014 | | 383.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 03/20/2015 | | 434.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 09/17/2015 | | 437.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 03/17/2016 | | 381.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 08/26/2016 | | 381.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 04/11/2017 | | 332.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 09/23/2017 | | 362.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 11/15/2017 | | 339.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 04/10/2018 | | 340.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 09/24/2018 | | 306.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 04/16/2019 | | 361.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 06/25/2019 | | 433.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 08/29/2019 | | 359.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 04/10/2020 | | 377.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 10/09/2020 | | 385.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 04/09/2021 | | 298.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 10/11/2021 | | 377.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 04/07/2022 | | 348.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 10/06/2022 | | 351.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 04/05/2023 | | 320.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 10/13/2023 | | 342.0000 | 363.5707 |
| Barium, total | ug/L | MW90-4 | 04/18/2024 | | 375.0000 * | 363.5707 |
| Barium, total | ug/L | MW90-4 | 10/15/2024 | | 381.0000 * | 363.5707 |
| 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 |
| 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 |

* - 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 | 10/15/2024 | | 1.3000 * | 1.1000 |
| 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 |
| 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 |

* - 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 | 04/18/2024 | | 28.4000 * | 7.1000 |
| Nickel, total | ug/L | MW90-7 | 10/15/2024 | | 23.3000 * | 7.1000 |

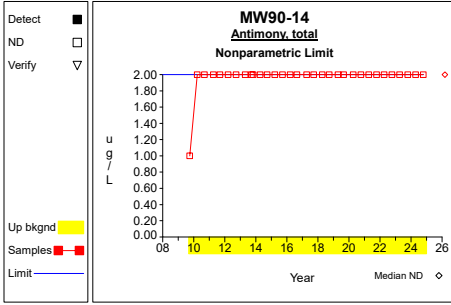
* - Significantly increased over background.

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

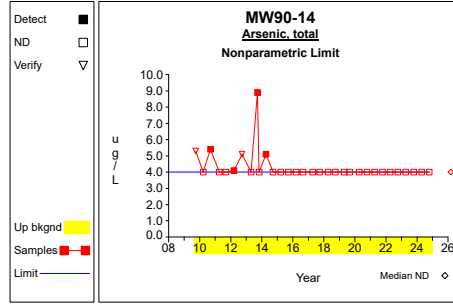
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

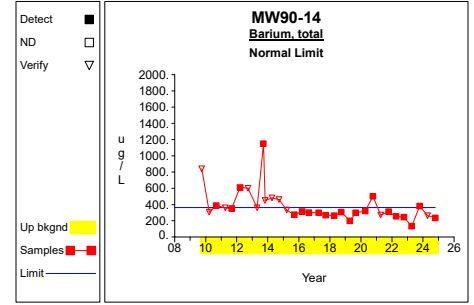
Up vs. Down Prediction Limits



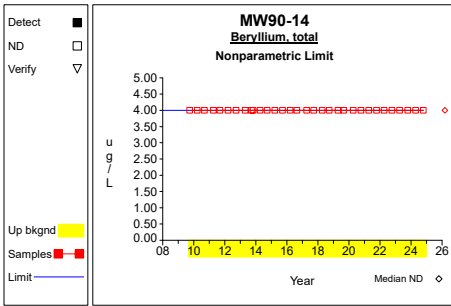
Graph 1



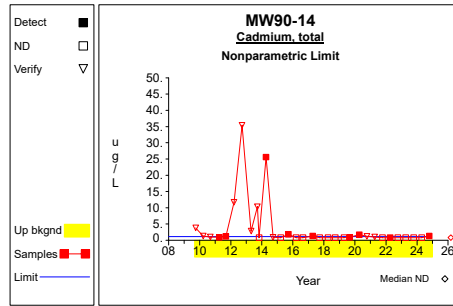
Graph 2



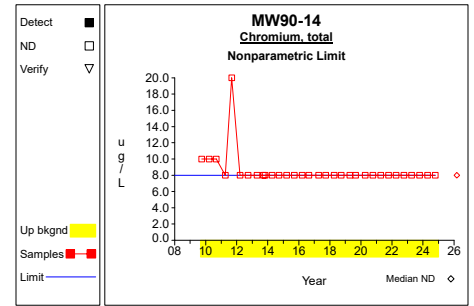
Graph 3



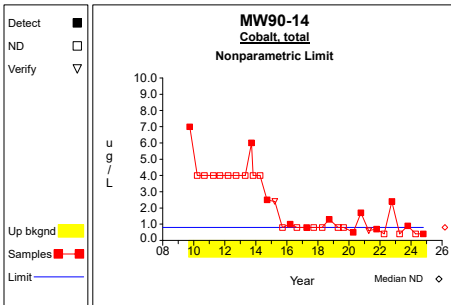
Graph 4



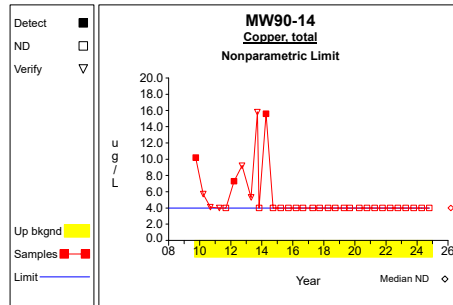
Graph 5



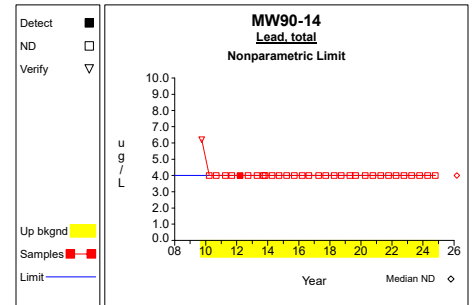
Graph 6



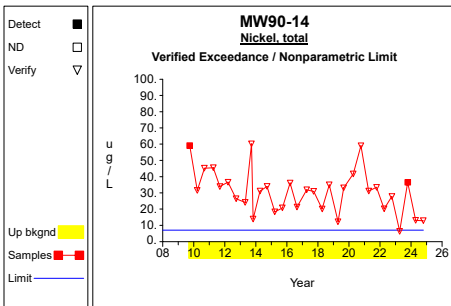
Graph 7



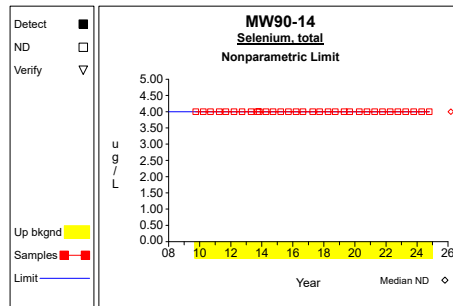
Graph 8



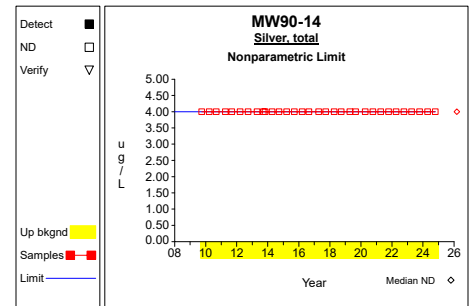
Graph 9



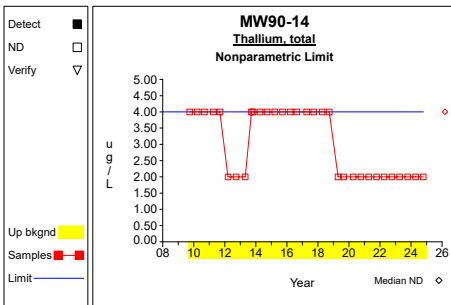
Graph 10



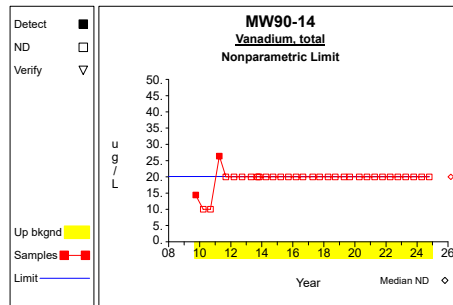
Graph 11



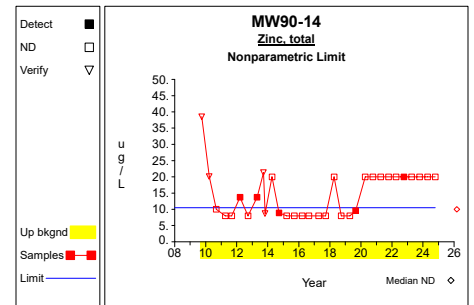
Graph 12



Graph 13

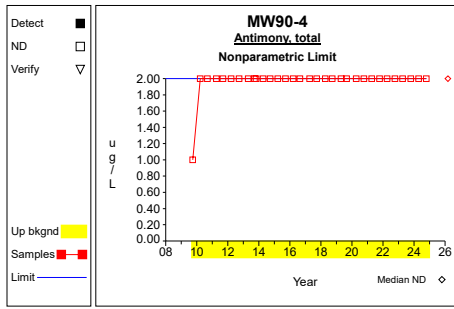


Graph 14

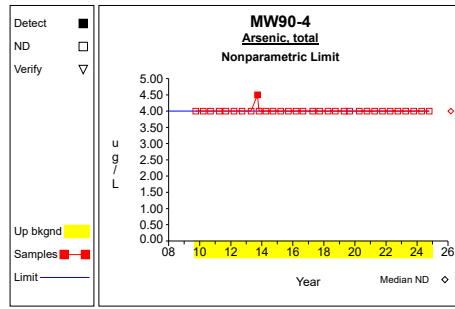


Graph 15

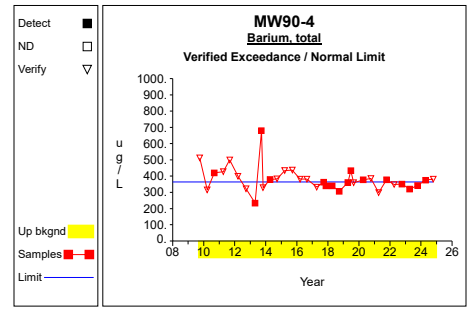
Up vs. Down Prediction Limits



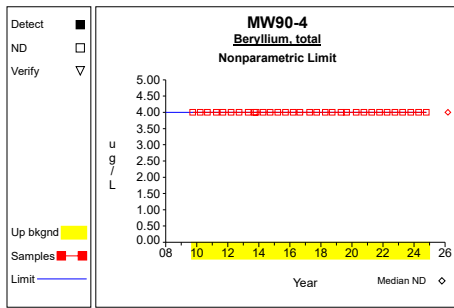
Graph 16



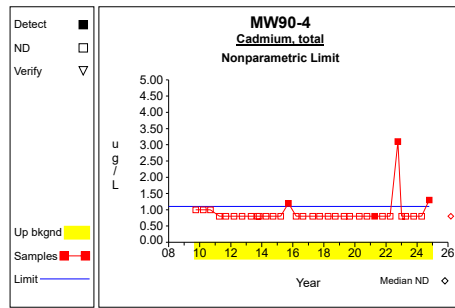
Graph 17



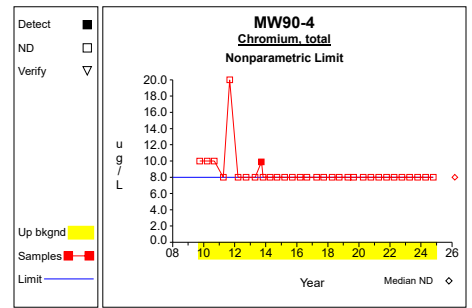
Graph 18



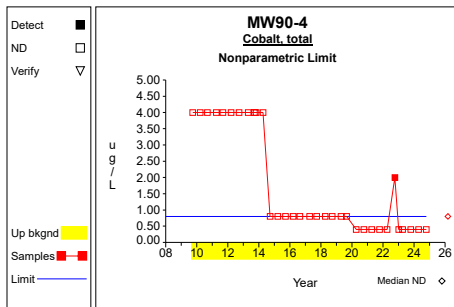
Graph 19



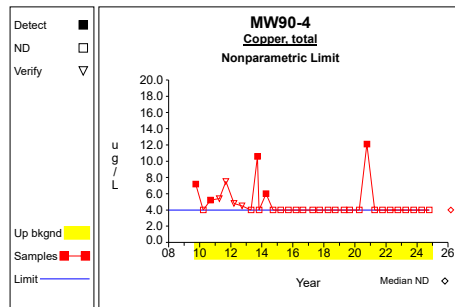
Graph 20



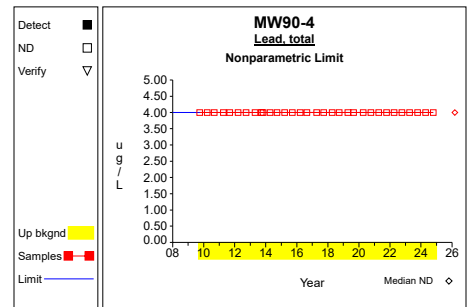
Graph 21



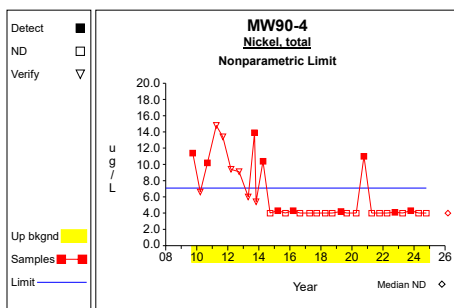
Graph 22



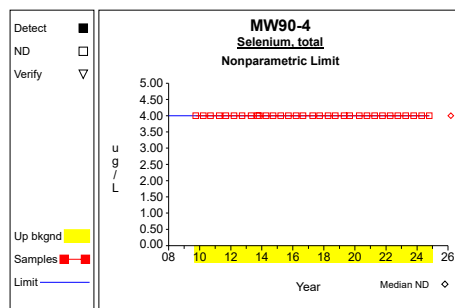
Graph 23



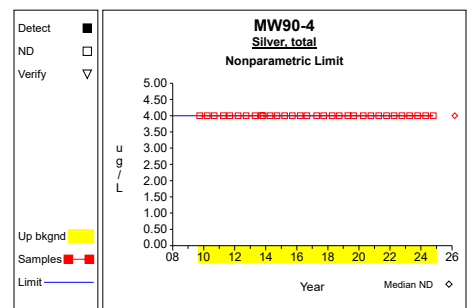
Graph 24



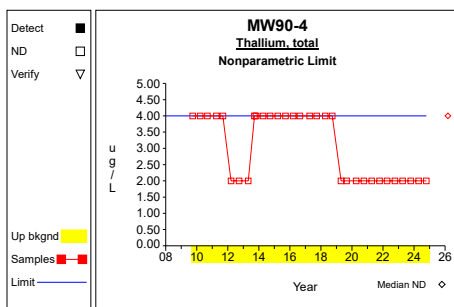
Graph 25



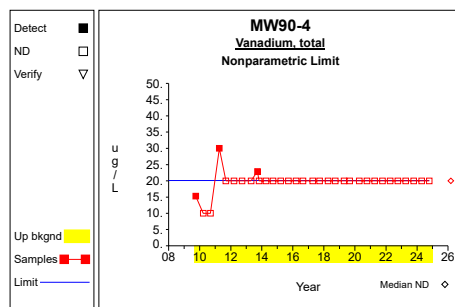
Graph 26



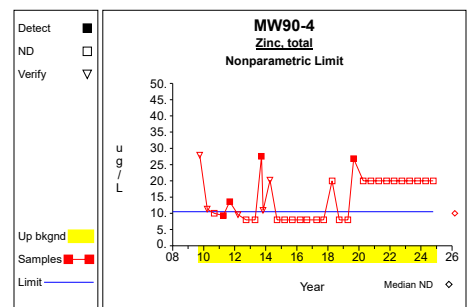
Graph 27



Graph 28

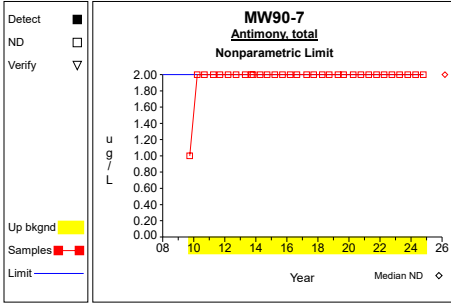


Graph 29

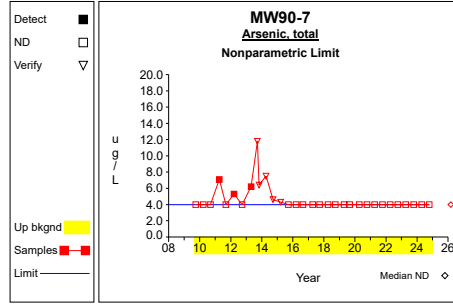


Graph 30

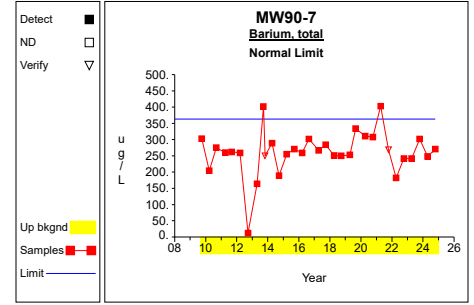
Up vs. Down Prediction Limits



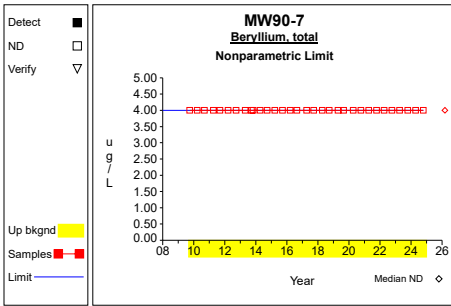
Graph 31



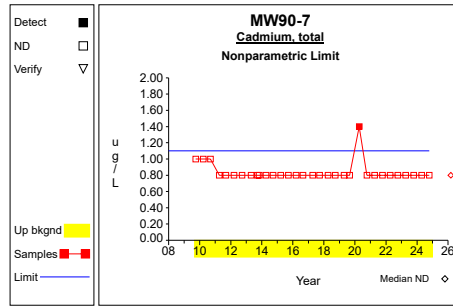
Graph 32



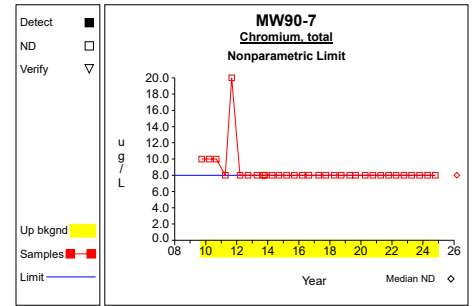
Graph 33



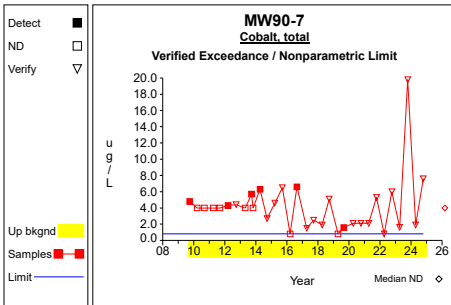
Graph 34



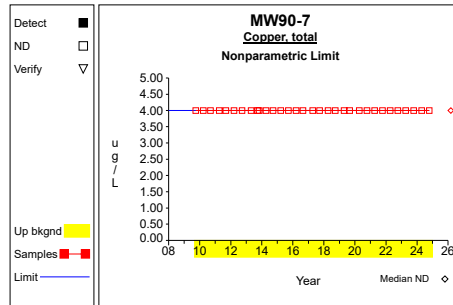
Graph 35



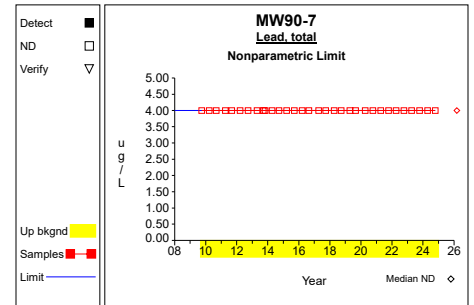
Graph 36



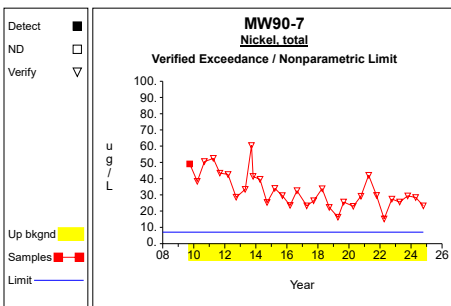
Graph 37



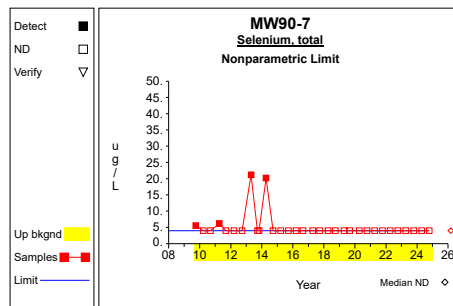
Graph 38



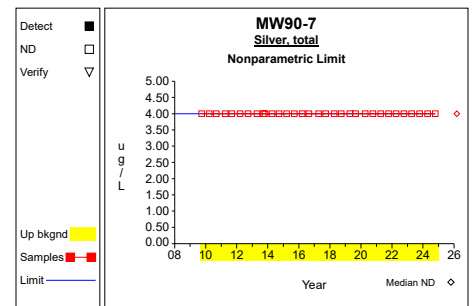
Graph 39



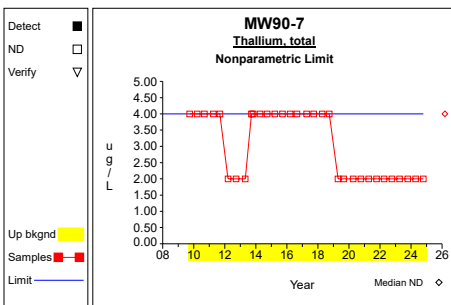
Graph 40



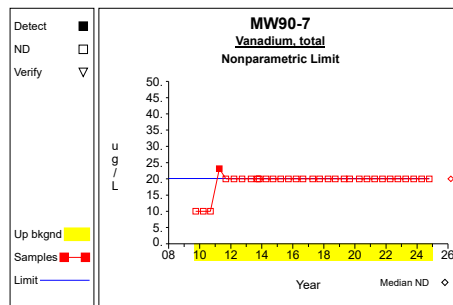
Graph 41



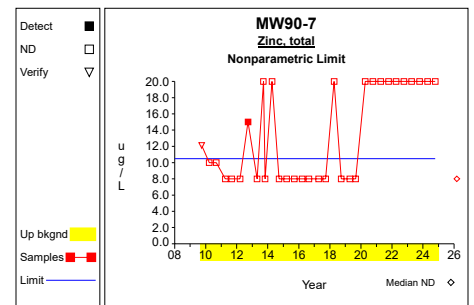
Graph 42



Graph 43

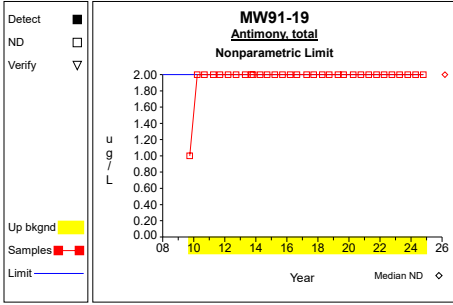


Graph 44

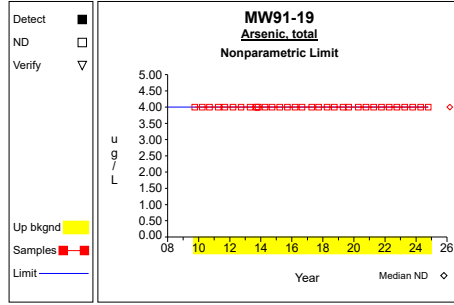


Graph 45

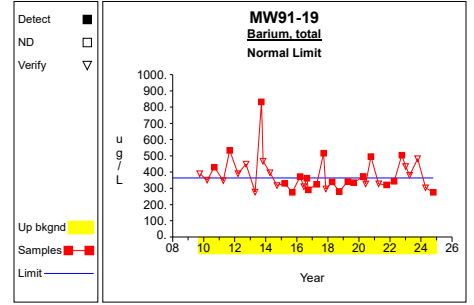
Up vs. Down Prediction Limits



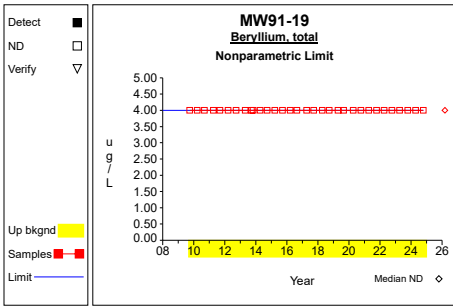
Graph 46



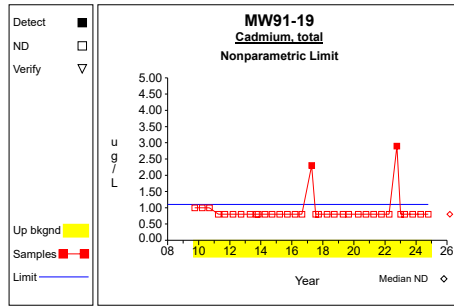
Graph 47



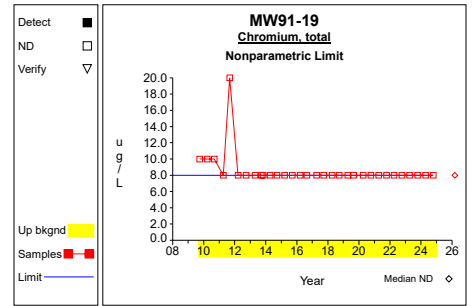
Graph 48



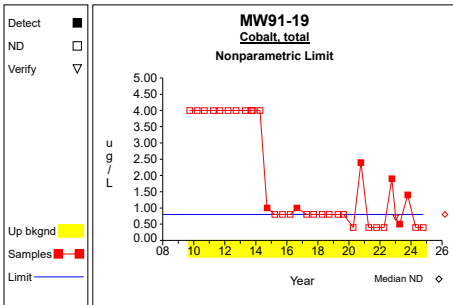
Graph 49



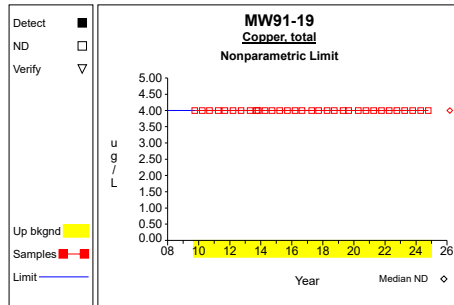
Graph 50



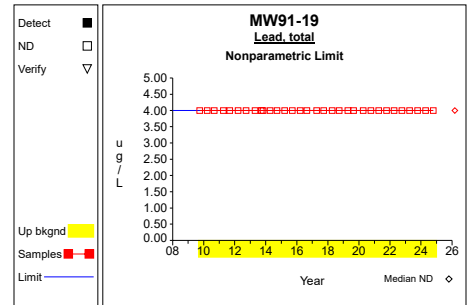
Graph 51



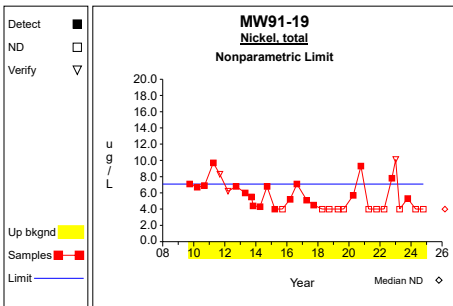
Graph 52



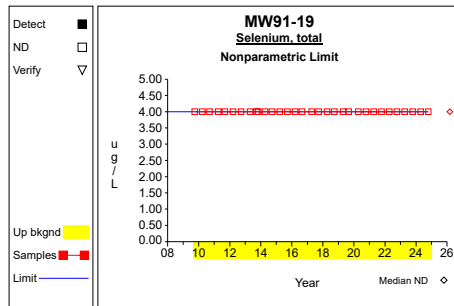
Graph 53



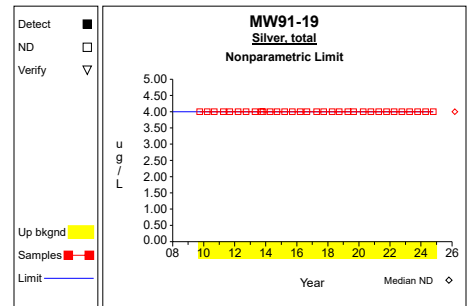
Graph 54



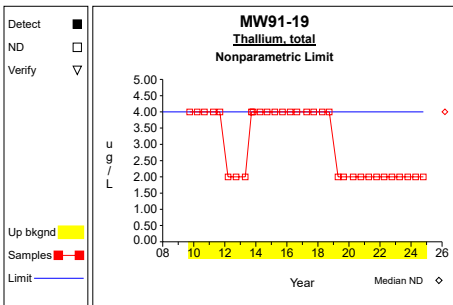
Graph 55



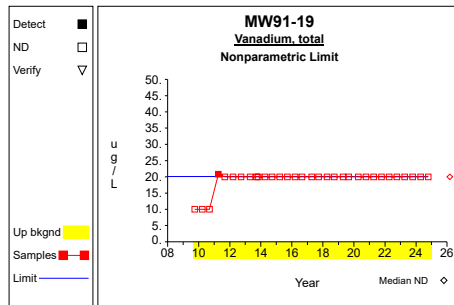
Graph 56



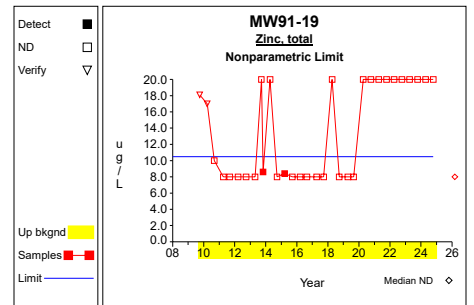
Graph 57



Graph 58

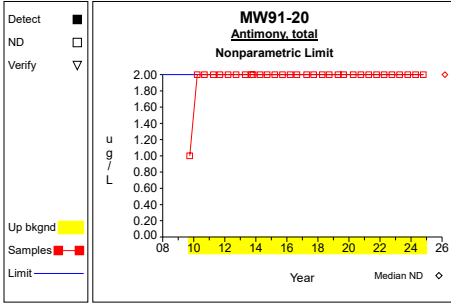


Graph 59

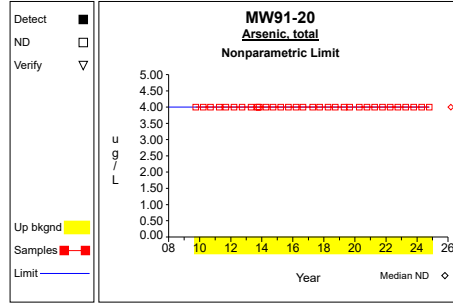


Graph 60

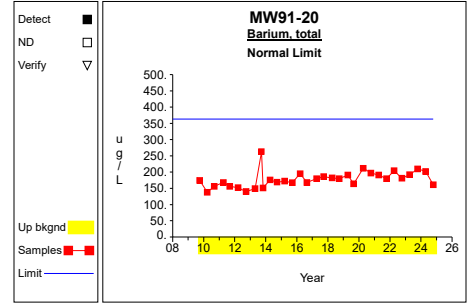
Up vs. Down Prediction Limits



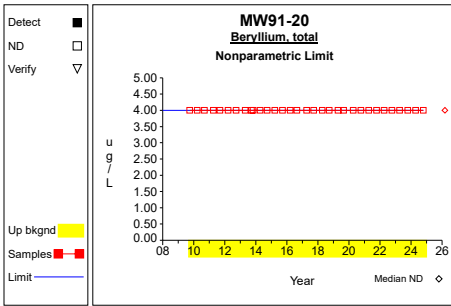
Graph 61



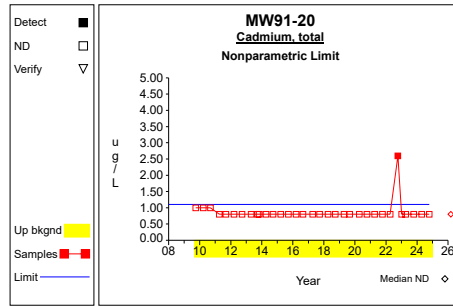
Graph 62



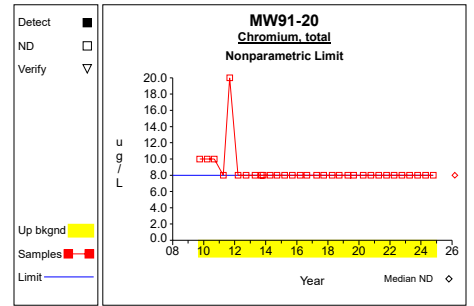
Graph 63



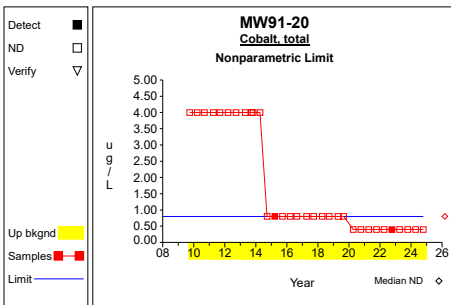
Graph 64



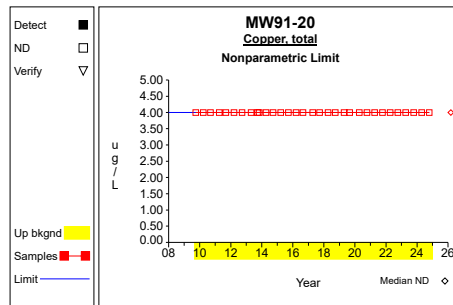
Graph 65



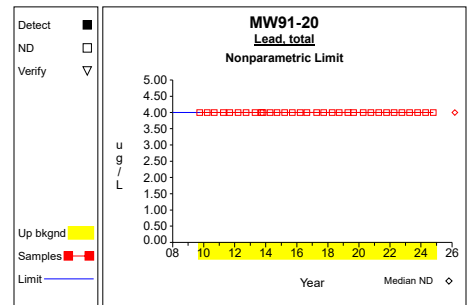
Graph 66



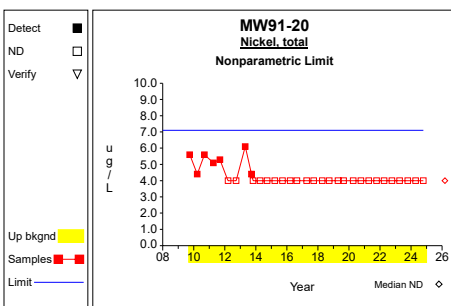
Graph 67



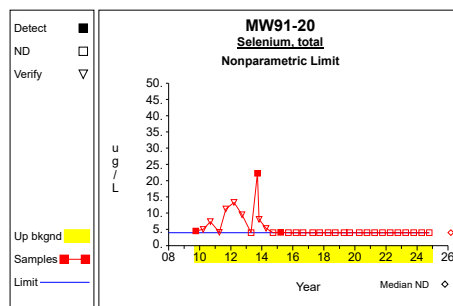
Graph 68



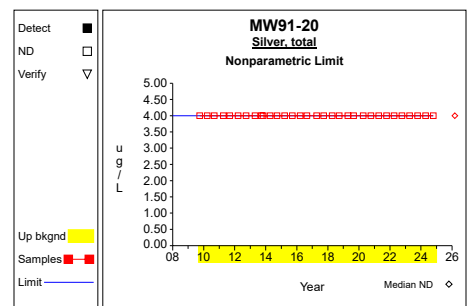
Graph 69



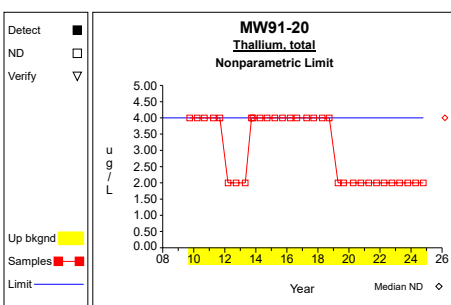
Graph 70



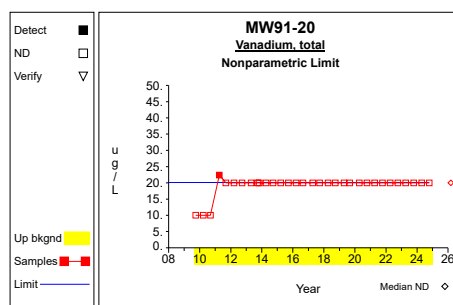
Graph 71



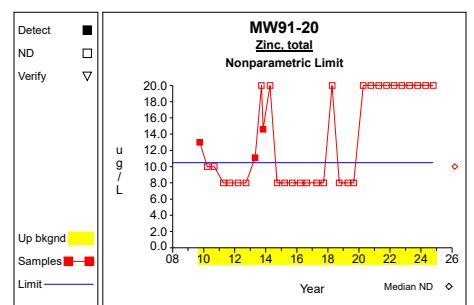
Graph 72



Graph 73

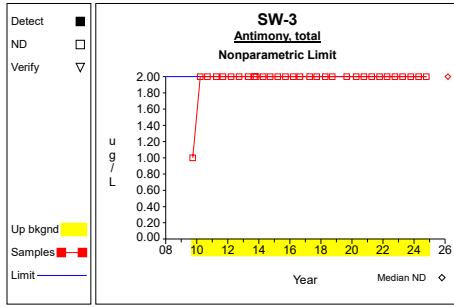


Graph 74

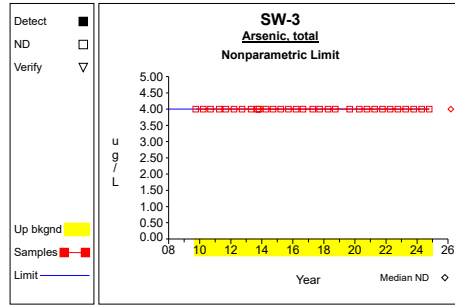


Graph 75

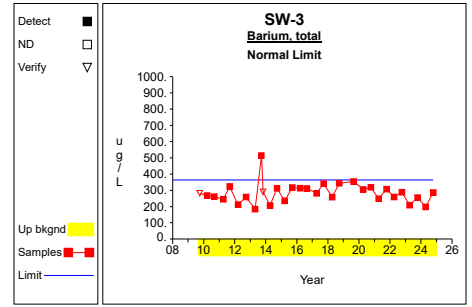
Up vs. Down Prediction Limits



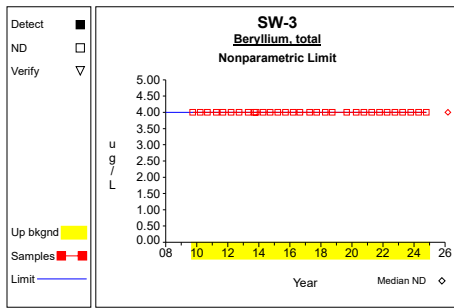
Graph 76



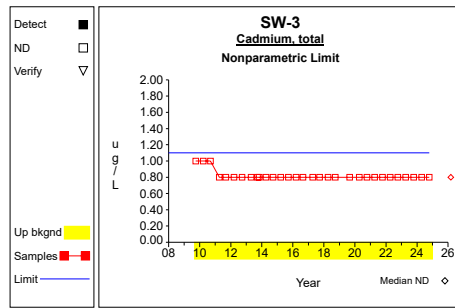
Graph 77



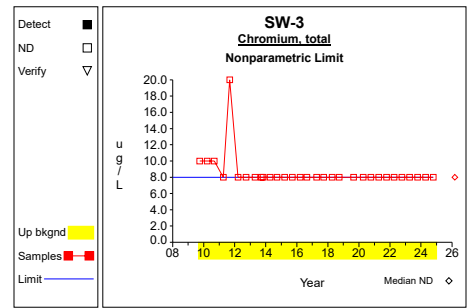
Graph 78



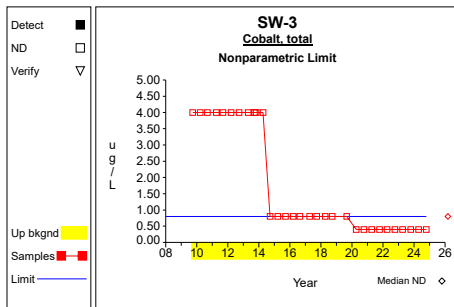
Graph 79



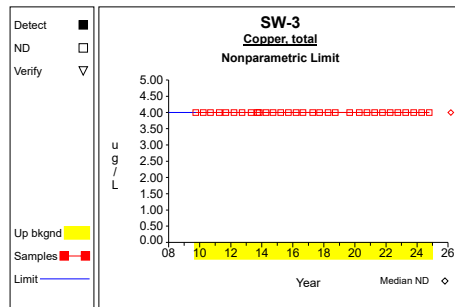
Graph 80



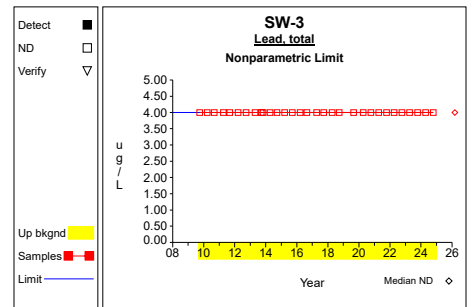
Graph 81



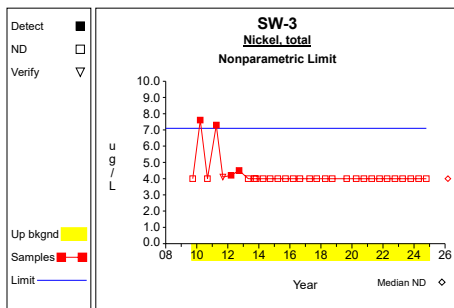
Graph 82



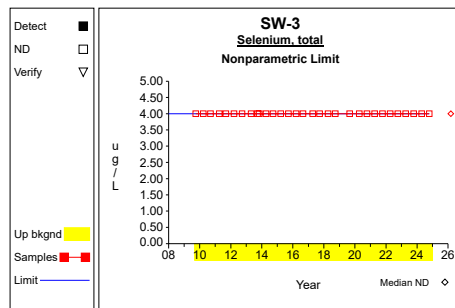
Graph 83



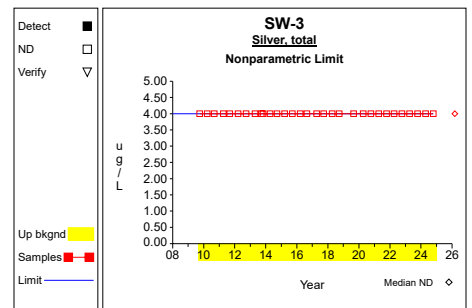
Graph 84



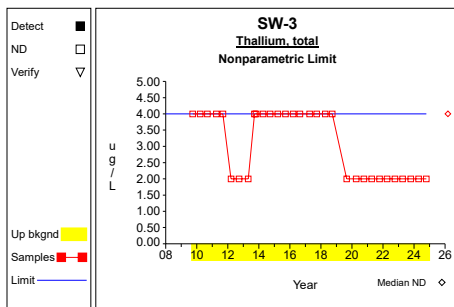
Graph 85



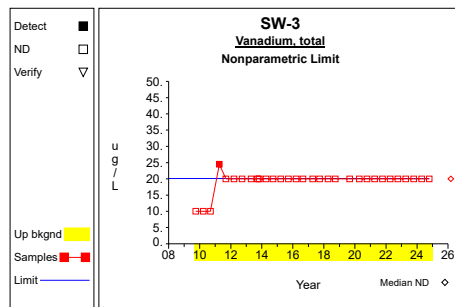
Graph 86



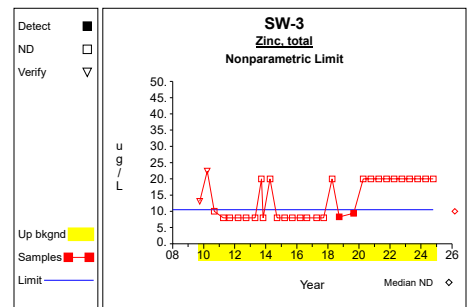
Graph 87



Graph 88

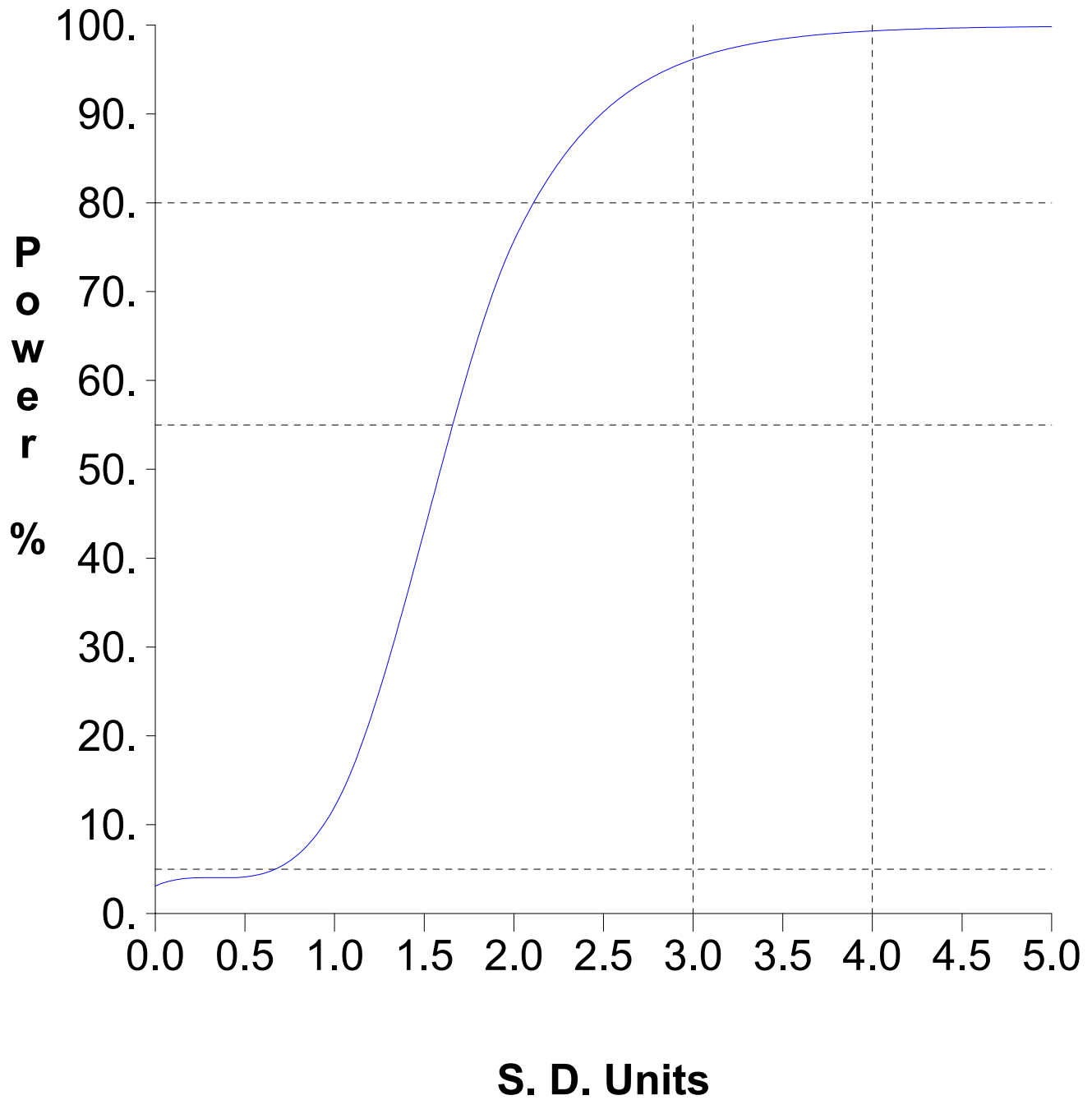


Graph 89



Graph 90

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



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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|-------------------------|---|
| 1 | PL = median(X) = 2.0 | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|-------------------------|---|
| 1 | PL = median(X) = 4.0 | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ = 7754.0 / 31 = 250.129 | Compute upgradient mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ = $((2.00 \times 10^6 - 6.01 \times 10^7/31) / (31-1))^{1/2}$ = 45.444 | Compute upgradient sd. |
| 3 | alpha = min[$(1-.95^{1/K})^{1/2}$, .01] = min[$(1-.95^{1/90})^{1/2}$, .01] = 0.01 | Adjusted per comparison false positive rate. Pass initial or 1 resample. |
| 4 | PL = $\bar{X} + tS(1+1/N)^{1/2}$ = 250.129 + $(2.457 \times 45.444)(1+1/31)^{1/2}$ = 363.571 | One-sided normal prediction limit (t is Student's t on N-1 degrees of freedom and 1-alpha confidence level). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|-------------------------|---|
| 1 | PL = median(X) = 4.0 | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 1.1 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|-------------------------|---|
| 1 | PL = median(X) = 8.0 | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.988 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|-------------------------|---|
| 1 | PL = median(X) = 0.8 | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|-------------------------|---|
| 1 | PL = median(X) = 4.0 | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|-------------------------|---|
| 1 | PL = median(X) = 4.0 | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 7.1 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|-------------------------|---|
| 1 | PL = median(X) = 4.0 | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|-------------------------|---|
| 1 | PL = median(X) = 4.0 | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|-------------------------|---|
| 1 | PL = median(X) = 4.0 | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 20.1 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 10.5 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.989 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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 |
|----------------|-------|---------|---|---------|---------|--------|---------|---------|----------|-------|
| Barium, total | ug/L | MW90-14 | 4 | 253.750 | 101.487 | 1.176 | 134.372 | 373.128 | 2000.000 | dec |
| Cadmium, total | ug/L | MW90-14 | 4 | 0.625 | 0.450 | 1.176 | 0.096 | 1.154 | 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 | 17.200 | 13.249 | 1.176 | 1.615 | 32.785 | 100.000 | |
| Barium, total | ug/L | MW90-4 | 4 | 354.500 | 28.688 | 1.176 | 320.755 | 388.245 | 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 | |
| Barium, total | ug/L | MW90-7 | 4 | 265.750 | 27.208 | 1.176 | 233.746 | 297.754 | 2000.000 | |
| Cadmium, total | ug/L | MW90-7 | 4 | 0.400 | 0.000 | 1.176 | 0.400 | 0.400 | 5.000 | |
| Cobalt, total | ug/L | MW90-7 | 4 | 7.725 | 8.510 | 1.176 | 0.000 | 17.735 | 2.100 | |
| Nickel, total | ug/L | MW90-7 | 4 | 26.675 | 2.766 | 1.176 | 23.422 | 29.928 | 100.000 | dec |
| Barium, total | ug/L | MW91-19 | 4 | 360.250 | 92.356 | 1.176 | 251.613 | 468.887 | 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 | 0.675 | 0.486 | 1.176 | 0.104 | 1.246 | 2.100 | |
| Nickel, total | ug/L | MW91-19 | 4 | 2.825 | 1.650 | 1.176 | 0.884 | 4.766 | 100.000 | |

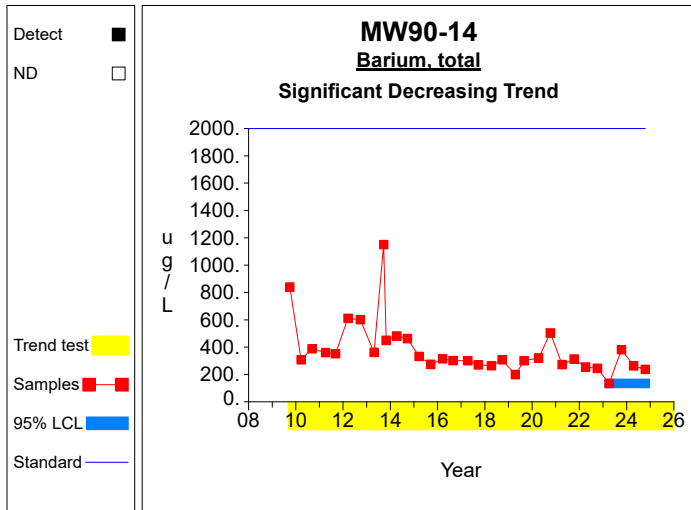
* - Insufficient Data

** - Significant Exceedance

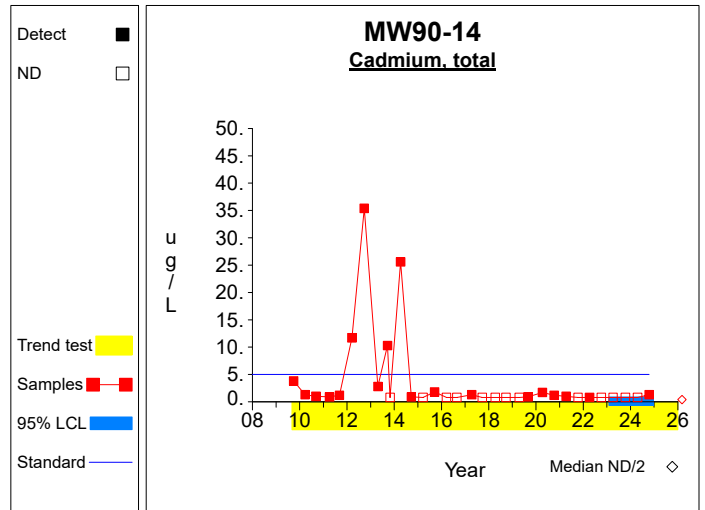
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

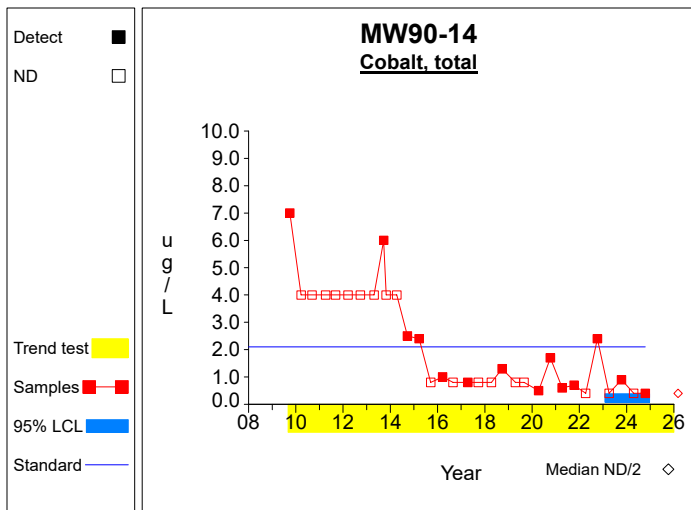
Confidence Limits (Assessment)



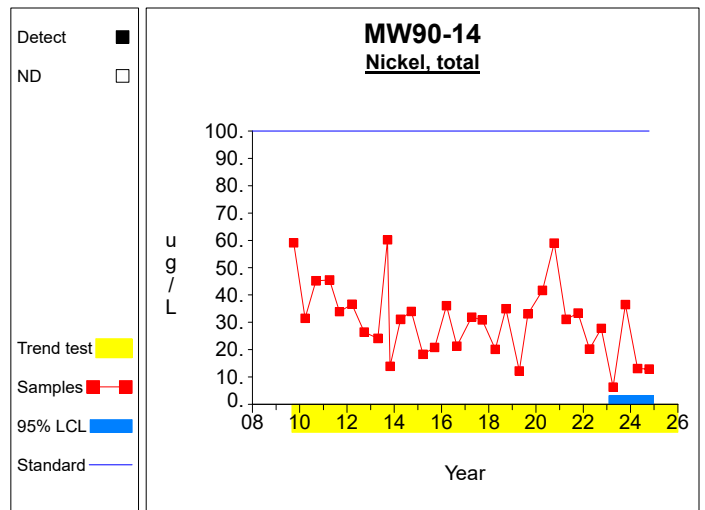
Graph 1



Graph 2

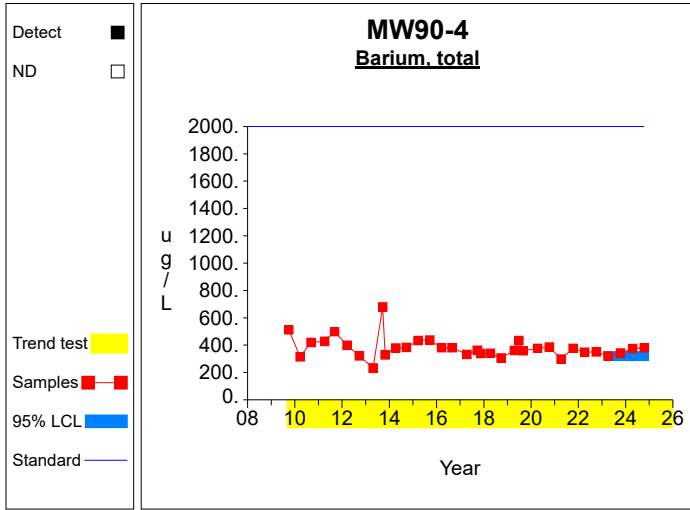


Graph 3

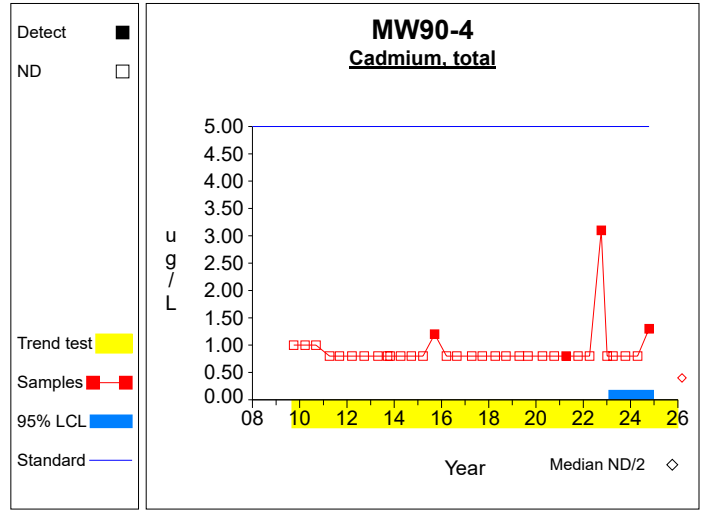


Graph 4

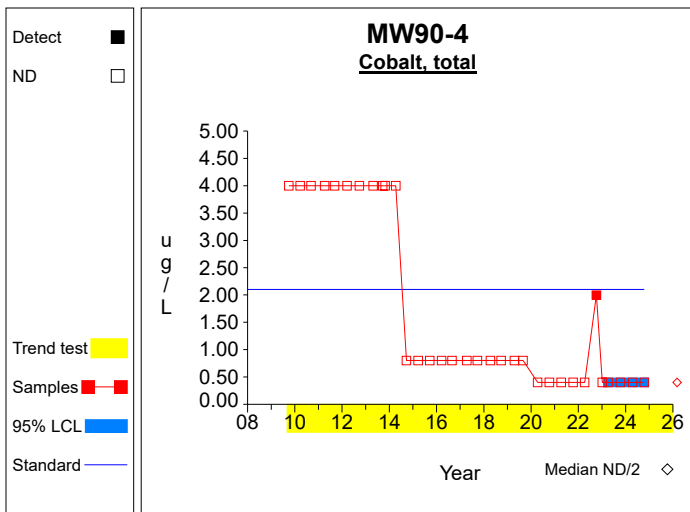
Confidence Limits (Assessment)



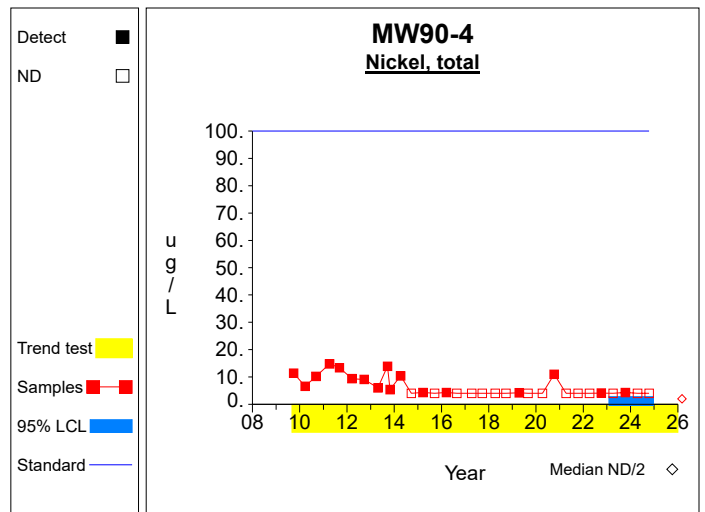
Graph 5



Graph 6

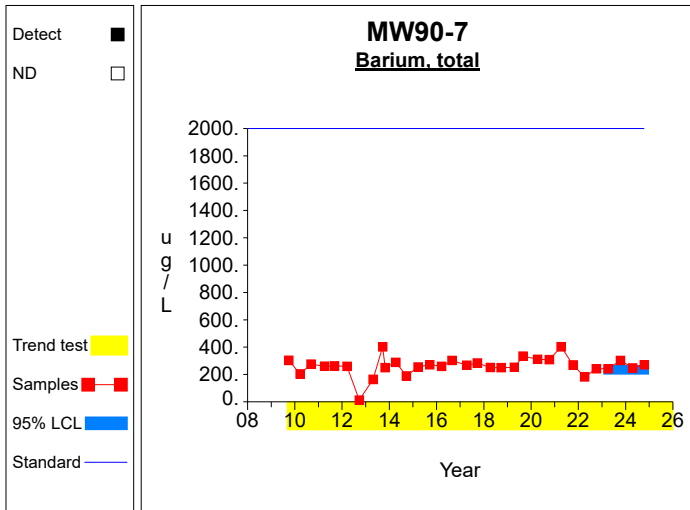


Graph 7

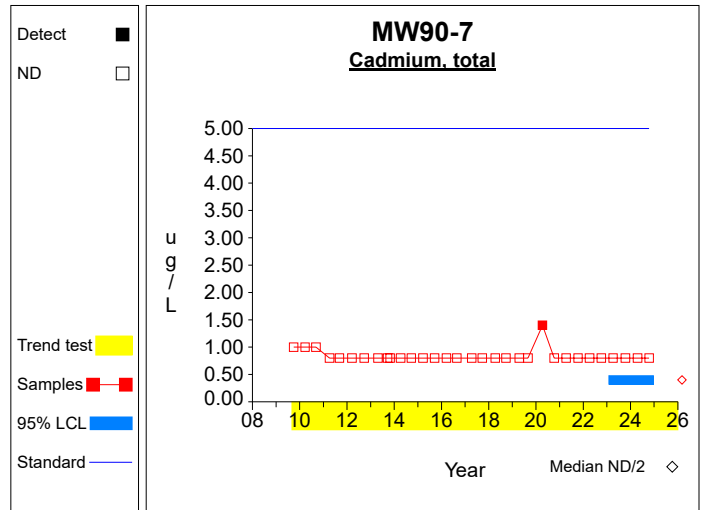


Graph 8

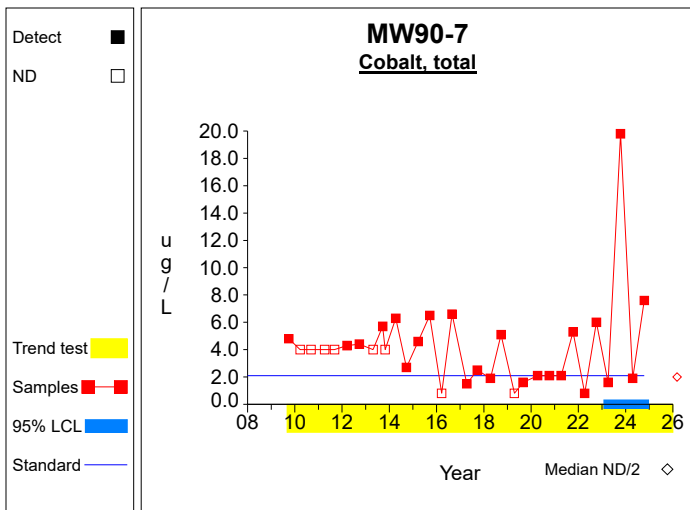
Confidence Limits (Assessment)



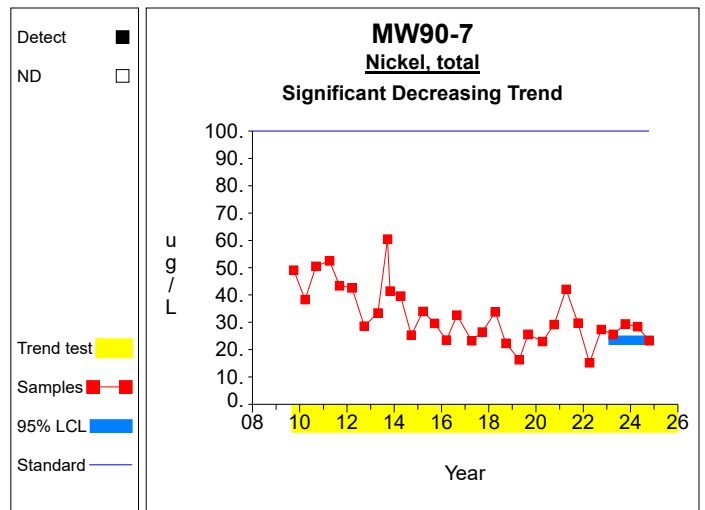
Graph 9



Graph 10

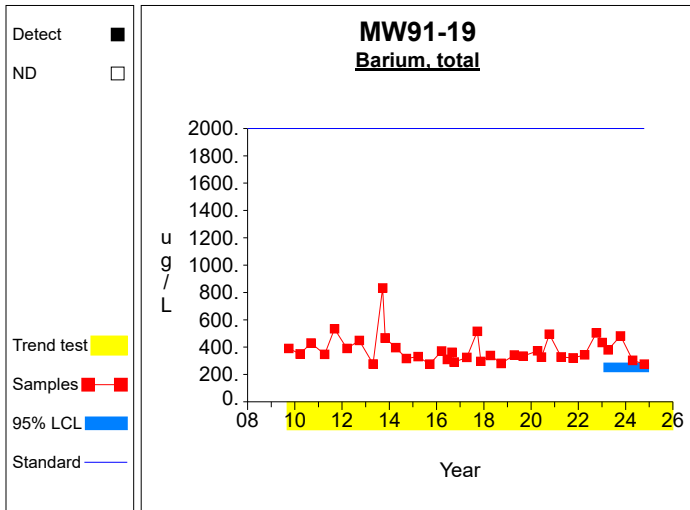


Graph 11

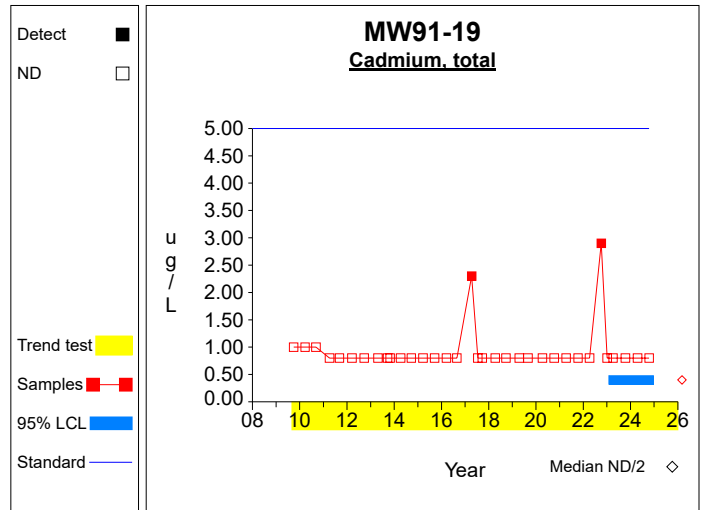


Graph 12

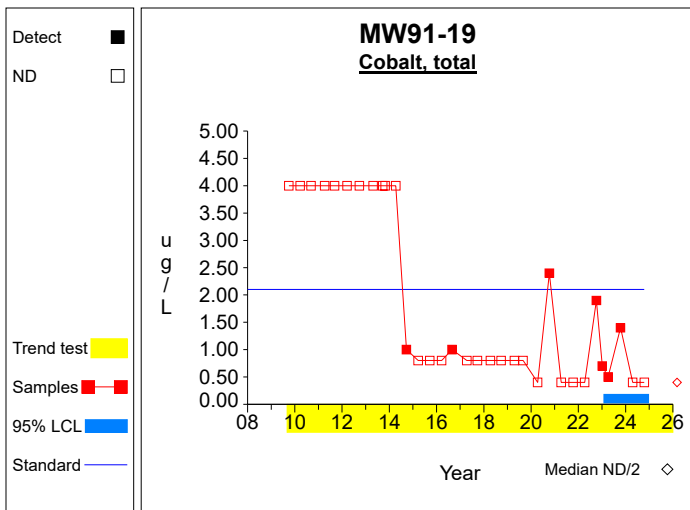
Confidence Limits (Assessment)



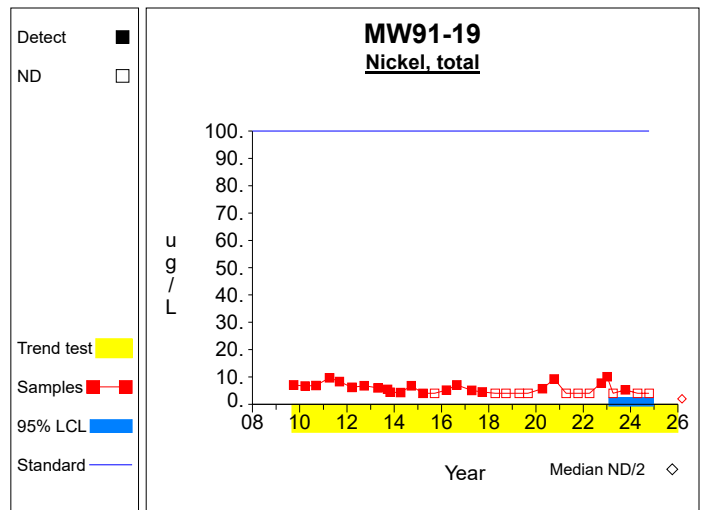
Graph 13



Graph 14



Graph 15



Graph 16

Worksheet 6 - Assessment Monitoring
Barium, total (ug/L) at MW90-14

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|---|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 1015.0 / 4$ $= 253.75$ | Compute the mean of the last 4 measurements. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{(N-1)} \right)^{1/2}$ $= \left(\frac{288455.0 - 1.03 \times 10^6 / 4}{(4-1)} \right)^{1/2}$ $= 101.487$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 253.75 - 2.353 * 101.487/4^{1/2}$ $= 134.372$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 253.75 + 2.353 * 101.487/4^{1/2}$ $= 373.128$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 32 * (32-1) / 2$ $= 496$ | Number of sample pairs during trend detection period. |
| 6 | $S = -13.371$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 3800.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (496 \pm 2.576 * 3800.667^{1/2}) / 2$ $= [168.595, 327.405]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-28.999, -5.714]$ | Two-sided confidence interval for slope. |
| 10 | $\text{UCL}(S) < 0$ | Significant decreasing trend. |

Worksheet 6 - Assessment Monitoring
Cadmium, total (ug/L) at MW90-14

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 2.5 / 4$ $= 0.625$ | Compute the mean of the last 4 measurements. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((2.17 - 6.25/4) / (4-1))^{1/2}$ $= 0.45$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.625 - 2.353 * 0.45/4^{1/2}$ $= 0.096$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.625 + 2.353 * 0.45/4^{1/2}$ $= 1.154$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 32 * (32-1) / 2$ $= 496$ | Number of sample pairs during trend detection period. |
| 6 | $S = -0.069$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 3524.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (496 \pm 2.576 * 3524.667^{1/2}) / 2$ $= [171.533, 324.467]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-0.235, 0.0]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at MW90-14

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 2.1 / 4$ $= 0.525$ | Compute the mean of the last 4 measurements. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{1.29 - 4.41/4}{4-1} \right)^{1/2}$ $= 0.25$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.525 - 2.353 * 0.25/4^{1/2}$ $= 0.231$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.525 + 2.353 * 0.25/4^{1/2}$ $= 0.819$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 32 * (32-1) / 2$ $= 496$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.0$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 2984.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (496 \pm 2.576 * 2984.667^{1/2}) / 2$ $= [177.634, 318.366]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [0.0, 0.0]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Nickel, total (ug/L) at MW90-14

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 68.8 / 4$ $= 17.2$ | Compute the mean of the last 4 measurements. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{1709.96 - 4733.44/4}{4-1} \right)^{1/2}$ $= 13.249$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 17.2 - 2.353 * 13.249/4^{1/2}$ $= 1.615$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 17.2 + 2.353 * 13.249/4^{1/2}$ $= 32.785$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 32 * (32-1) / 2$ $= 496$ | Number of sample pairs during trend detection period. |
| 6 | $S = -1.112$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 3801.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (496 \pm 2.576 * 3801.667^{1/2}) / 2$ $= [168.585, 327.415]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-2.541, 0.174]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Barium, total (ug/L) at MW90-4

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 1418.0 / 4$ $= 354.5$ | Compute the mean of the last 4 measurements. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{505150.0 - 2.01 \times 10^6/4}{4-1} \right)^{1/2}$ $= 28.688$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 354.5 - 2.353 * 28.688/4^{1/2}$ $= 320.755$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 354.5 + 2.353 * 28.688/4^{1/2}$ $= 388.245$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 34 * (34-1) / 2$ $= 561$ | Number of sample pairs during trend detection period. |
| 6 | $S = -4.049$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 4545.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (561 \pm 2.576 * 4545.667^{1/2}) / 2$ $= [193.661, 367.339]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-10.64, 2.305]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Cadmium, total (ug/L) at MW90-4

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 2.5 / 4$ $= 0.625$ | Compute the mean of the last 4 measurements. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((2.17 - 6.25/4) / (4-1))^{1/2}$ $= 0.45$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.625 - 2.353 * 0.45/4^{1/2}$ $= 0.096$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.625 + 2.353 * 0.45/4^{1/2}$ $= 1.154$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 33 * (33-1) / 2$ $= 528$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.0$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 1323.333$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (528 \pm 2.576 * 1323.333^{1/2}) / 2$ $= [217.146, 310.854]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [0.0, 0.0]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at MW90-4

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|---|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 1.6 / 4$ $= 0.4$ | Compute the mean of the last 4 measurements. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{0.64 - 2.56/4}{4-1} \right)^{1/2}$ $= 4.21 \times 10^{-9}$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.4 - 2.353 * 4.21 \times 10^{-9} / 4^{1/2}$ $= 0.4$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.4 + 2.353 * 4.21 \times 10^{-9} / 4^{1/2}$ $= 0.4$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 33 * (33-1) / 2$ $= 528$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.0$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 362.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (528 \pm 2.576 * 362.667^{1/2}) / 2$ $= [239.472, 288.528]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [0.0, 0.0]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Nickel, total (ug/L) at MW90-4

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|---|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 10.3 / 4$ $= 2.575$ | Compute the mean of the last 4 measurements. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{30.49 - 106.09/4}{4-1} \right)^{1/2}$ $= 1.15$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 2.575 - 2.353 * 1.15/4^{1/2}$ $= 1.222$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 2.575 + 2.353 * 1.15/4^{1/2}$ $= 3.928$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 32 * (32-1) / 2$ $= 496$ | Number of sample pairs during trend detection period. |
| 6 | $S = -0.493$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 3390.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (496 \pm 2.576 * 3390.667^{1/2}) / 2$ $= [173.0, 323.0]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-0.904, 0.0]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Barium, total (ug/L) at MW90-7

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 1063.0 / 4$ $= 265.75$ | Compute the mean of the last 4 measurements. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{284713.0 - 1.13 \times 10^6/4}{4-1} \right)^{1/2}$ $= 27.208$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 265.75 - 2.353 * 27.208/4^{1/2}$ $= 233.746$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 265.75 + 2.353 * 27.208/4^{1/2}$ $= 297.754$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 32 * (32-1) / 2$ $= 496$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.727$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 3797.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (496 \pm 2.576 * 3797.667^{1/2}) / 2$ $= [168.627, 327.373]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-2.669, 7.259]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Cadmium, total (ug/L) at MW90-7

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|---|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 1.6 / 4$ $= 0.4$ | Compute the mean of the last 4 measurements. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((0.64 - 2.56/4) / (4-1))^{1/2}$ $= 4.21 \times 10^{-9}$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.4 - 2.353 * 4.21 \times 10^{-9} / 4^{1/2}$ $= 0.4$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.4 + 2.353 * 4.21 \times 10^{-9} / 4^{1/2}$ $= 0.4$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 32 * (32-1) / 2$ $= 496$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.0$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 341.0$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (496 \pm 2.576 * 341.0^{1/2}) / 2$ $= [224.216, 271.784]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [0.0, 0.0]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at MW90-7

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 30.9 / 4$ $= 7.725$ | Compute the mean of the last 4 measurements. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{455.97 - 954.81/4}{4-1} \right)^{1/2}$ $= 8.51$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 7.725 - 2.353 * 8.51/4^{1/2}$ $= 0.0$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 7.725 + 2.353 * 8.51/4^{1/2}$ $= 17.735$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 32 * (32-1) / 2$ $= 496$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.0$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 3731.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (496 \pm 2.576 * 3731.667^{1/2}) / 2$ $= [169.319, 326.681]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-0.119, 0.225]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Nickel, total (ug/L) at MW90-7

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 106.7 / 4$ $= 26.675$ | Compute the mean of the last 4 measurements. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{2869.17 - 11384.89/4}{4-1} \right)^{1/2}$ $= 2.766$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 26.675 - 2.353 * 2.766/4^{1/2}$ $= 23.422$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 26.675 + 2.353 * 2.766/4^{1/2}$ $= 29.928$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 32 * (32-1) / 2$ $= 496$ | Number of sample pairs during trend detection period. |
| 6 | $S = -1.513$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 3800.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (496 \pm 2.576 * 3800.667^{1/2}) / 2$ $= [168.595, 327.405]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-2.475, -0.555]$ | Two-sided confidence interval for slope. |
| 10 | $\text{UCL}(S) < 0$ | Significant decreasing trend. |

Worksheet 6 - Assessment Monitoring
Barium, total (ug/L) at MW91-19

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 1441.0 / 4$ $= 360.25$ | Compute the mean of the last 4 measurements. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((544709.0 - 2.08 \times 10^6 / 4) / (4-1))^{1/2}$ $= 92.356$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 360.25 - 2.353 * 92.356/4^{1/2}$ $= 251.613$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 360.25 + 2.353 * 92.356/4^{1/2}$ $= 468.887$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 37 * (37-1) / 2$ $= 666$ | Number of sample pairs during trend detection period. |
| 6 | $S = -2.945$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 5845.0$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (666 \pm 2.576 * 5845.0^{1/2}) / 2$ $= [234.529, 431.471]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-10.028, 5.48]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Cadmium, total (ug/L) at MW91-19

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|---|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 1.6 / 4$ $= 0.4$ | Compute the mean of the last 4 measurements. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((0.64 - 2.56/4) / (4-1))^{1/2}$ $= 4.21 \times 10^{-9}$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.4 - 2.353 * 4.21 \times 10^{-9} / 4^{1/2}$ $= 0.4$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.4 + 2.353 * 4.21 \times 10^{-9} / 4^{1/2}$ $= 0.4$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 34 * (34-1) / 2$ $= 561$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.0$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 747.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (561 \pm 2.576 * 747.667^{1/2}) / 2$ $= [245.282, 315.718]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [0.0, 0.0]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at MW91-19

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|---|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 2.7 / 4$ $= 0.675$ | Compute the mean of the last 4 measurements. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{2.53 - 7.29/4}{4-1} \right)^{1/2}$ $= 0.486$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.675 - 2.353 * 0.486/4^{1/2}$ $= 0.104$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.675 + 2.353 * 0.486/4^{1/2}$ $= 1.246$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 33 * (33-1) / 2$ $= 528$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.0$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 2106.0$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (528 \pm 2.576 * 2106.0^{1/2}) / 2$ $= [204.892, 323.108]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [0.0, 0.0]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Nickel, total (ug/L) at MW91-19

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|---|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 11.3 / 4$ $= 2.825$ | Compute the mean of the last 4 measurements. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{40.09 - 127.69/4}{4-1} \right)^{1/2}$ $= 1.65$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 2.825 - 2.353 * 1.65/4^{1/2}$ $= 0.884$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 2.825 + 2.353 * 1.65/4^{1/2}$ $= 4.766$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 33 * (33-1) / 2$ $= 528$ | Number of sample pairs during trend detection period. |
| 6 | $S = -0.319$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 3998.333$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (528 \pm 2.576 * 3998.333^{1/2}) / 2$ $= [182.557, 345.443]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-0.515, 0.0]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

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 | 6 | 35 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | MW90-14 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 8.9000 | nonpar | .99 | ** |
| Barium, total | ug/L | MW90-14 | 26 | 6 | 35 | 409.0000 | 204.8559 | 263.0000 | 237.0000 | 409.0000 | 409.0000 | 1740.5630 | normal | | |
| Beryllium, total | ug/L | MW90-14 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW90-14 | 26 | 6 | 35 | 4.2308 | 8.3210 | 0.8000 | 1.3000 | 4.2308 | 4.2308 | 58.3173 | normal | | |
| Chromium, total | ug/L | MW90-14 | 26 | 6 | 35 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW90-14 | 26 | 6 | 35 | 3.2500 | 1.6698 | 0.4000 | 0.4000 | 3.2500 | 3.2500 | 14.1036 | normal | | |
| Copper, total | ug/L | MW90-14 | 26 | 6 | 35 | 5.5846 | 3.4028 | 4.0000 | 4.0000 | 5.5846 | 5.5846 | 27.7027 | normal | | |
| Lead, total | ug/L | MW90-14 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 6.2000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW90-14 | 26 | 6 | 35 | 33.3231 | 12.8175 | 13.1000 | 12.9000 | 33.3231 | 33.3231 | 116.6368 | normal | | |
| Selenium, total | ug/L | MW90-14 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Silver, total | ug/L | MW90-14 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW90-14 | 26 | 6 | 35 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW90-14 | 26 | 6 | 35 | | | 20.0000 | 20.0000 | | | 26.4000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW90-14 | 26 | 6 | 35 | 10.7115 | 6.7267 | 20.0000 | 20.0000 | 10.7115 | 10.7115 | 54.4354 | normal | | |
| Antimony, total | ug/L | MW90-17 | 25 | 6 | 31 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | MW90-17 | 25 | 6 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Barium, total | ug/L | MW90-17 | 25 | 6 | 31 | 238.2400 | 42.2328 | 310.0000 | 280.0000 | 406.6671 | 416.7525 | 512.7530 | normal | | |
| Beryllium, total | ug/L | MW90-17 | 25 | 6 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW90-17 | 25 | 6 | 32 | | | 0.8000 | 0.8000 | | | 1.1000 | nonpar | .99 | ** |
| Chromium, total | ug/L | MW90-17 | 24 | 6 | 31 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW90-17 | 25 | 6 | 31 | | | 0.4000 | 0.4000 | | | 0.8000 | nonpar | .99 | ** |
| Copper, total | ug/L | MW90-17 | 25 | 6 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Lead, total | ug/L | MW90-17 | 25 | 6 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW90-17 | 25 | 6 | 31 | | | 4.0000 | 4.0000 | | | 7.1000 | nonpar | .99 | ** |
| Selenium, total | ug/L | MW90-17 | 25 | 6 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Silver, total | ug/L | MW90-17 | 25 | 6 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW90-17 | 25 | 6 | 31 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW90-17 | 25 | 6 | 31 | | | 20.0000 | 20.0000 | | | 20.1000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW90-17 | 25 | 6 | 32 | | | 20.0000 | 20.0000 | | | 10.5000 | nonpar | .99 | ** |
| Antimony, total | ug/L | MW90-4 | 26 | 6 | 35 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | MW90-4 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.5000 | nonpar | .99 | ** |
| Barium, total | ug/L | MW90-4 | 28 | 6 | 37 | 385.6786 | 82.5501 | 375.0000 | 381.0000 | 385.6786 | 385.6786 | 922.2544 | normal | | |
| Beryllium, total | ug/L | MW90-4 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW90-4 | 26 | 7 | 36 | | | 0.8000 | 1.3000 | | | 1.2000 | nonpar | .99 | ** |
| Chromium, total | ug/L | MW90-4 | 26 | 6 | 35 | | | 8.0000 | 8.0000 | | | 9.9000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW90-4 | 26 | 7 | 36 | | | 0.4000 | 0.4000 | | | 0.8000 | nonpar | .99 | ** |
| Copper, total | ug/L | MW90-4 | 26 | 6 | 35 | 5.0500 | 2.1098 | 4.0000 | 4.0000 | 5.0500 | 5.0500 | 18.7639 | normal | | |
| Lead, total | ug/L | MW90-4 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW90-4 | 26 | 6 | 35 | 6.8615 | 3.6953 | 4.0000 | 4.0000 | 6.8615 | 6.8615 | 30.8810 | normal | | |
| Selenium, total | ug/L | MW90-4 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Silver, total | ug/L | MW90-4 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW90-4 | 26 | 6 | 35 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW90-4 | 26 | 6 | 35 | | | 20.0000 | 20.0000 | | | 30.0000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW90-4 | 26 | 6 | 35 | 11.2769 | 6.5059 | 20.0000 | 20.0000 | 11.2769 | 11.2769 | 53.5652 | normal | | |
| Antimony, total | ug/L | MW90-7 | 26 | 6 | 36 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
 N(tot) = All independent measurements for that constituent and well.
 For transformed data, mean and SD in transformed units and control limit in original units.
 Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
 * - Insufficient Data.
 ** - Detection Frequency < 25%.
 *** - Zero Variance.

Table 1

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

| Constituent | Units | Well | N(back) | N(mon) | N(tot) | Mean | SD | R(i-1) | R(i) | S(i-1) | S(i) | Limit | Type | Conf | |
|------------------|-------|---------|---------|--------|--------|----------|----------|----------|----------|----------|----------|-----------|--------|------|----|
| Arsenic, total | ug/L | MW90-7 | 26 | 6 | 36 | 4.8154 | 1.7681 | 4.0000 | 4.0000 | 4.8154 | 4.8154 | 16.3080 | normal | | |
| Barium, total | ug/L | MW90-7 | 25 | 6 | 36 | 274.9600 | 53.4864 | 248.0000 | 271.0000 | 274.9600 | 274.9600 | 622.6213 | normal | | |
| Beryllium, total | ug/L | MW90-7 | 26 | 6 | 36 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW90-7 | 26 | 6 | 36 | | | 0.8000 | 0.8000 | | | 1.4000 | nonpar | .99 | ** |
| Chromium, total | ug/L | MW90-7 | 26 | 6 | 36 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW90-7 | 26 | 6 | 36 | 3.9269 | 1.5019 | 1.9000 | 7.6000 | 3.9269 | 6.4736 | 13.6891 | normal | | |
| Copper, total | ug/L | MW90-7 | 26 | 6 | 36 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Lead, total | ug/L | MW90-7 | 26 | 6 | 36 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW90-7 | 26 | 6 | 36 | 34.4808 | 10.8781 | 28.4000 | 23.3000 | 34.4808 | 34.4808 | 105.1886 | normal | | |
| Selenium, total | ug/L | MW90-7 | 24 | 6 | 36 | | | 4.0000 | 4.0000 | | | 6.2000 | nonpar | .99 | ** |
| Silver, total | ug/L | MW90-7 | 26 | 6 | 36 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW90-7 | 26 | 6 | 36 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW90-7 | 26 | 6 | 36 | | | 20.0000 | 20.0000 | | | 23.1000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW90-7 | 26 | 6 | 36 | | | 20.0000 | 20.0000 | | | 15.0000 | nonpar | .99 | ** |
| Antimony, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Barium, total | ug/L | MW91-19 | 30 | 7 | 40 | 379.9667 | 110.3613 | 303.0000 | 276.0000 | 379.9667 | 379.9667 | 1097.3152 | normal | | |
| Beryllium, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW91-19 | 27 | 7 | 37 | | | 0.8000 | 0.8000 | | | 2.3000 | nonpar | .99 | ** |
| Chromium, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW91-19 | 26 | 7 | 36 | | | 0.4000 | 0.4000 | | | 2.4000 | nonpar | .99 | ** |
| Copper, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Lead, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW91-19 | 26 | 7 | 36 | 5.6769 | 1.7168 | 4.0000 | 4.0000 | 5.6769 | 5.6769 | 16.8362 | normal | | |
| Selenium, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Silver, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 20.0000 | 20.0000 | | | 20.8000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW91-19 | 26 | 6 | 35 | | | 20.0000 | 20.0000 | | | 18.1000 | nonpar | .99 | ** |
| Antimony, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Barium, total | ug/L | MW91-20 | 26 | 6 | 32 | 175.2692 | 25.4394 | 202.0000 | 161.0000 | 198.5716 | 175.2692 | 340.6255 | normal | | |
| Beryllium, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | MW91-20 | 26 | 7 | 33 | | | 0.8000 | 0.8000 | | | 0.8000 | nonpar | .99 | ** |
| Chromium, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 0.4000 | 0.4000 | | | 0.8000 | nonpar | .99 | ** |
| Copper, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Lead, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | MW91-20 | 26 | 6 | 32 | 4.3269 | 0.6315 | 4.0000 | 4.0000 | 4.3269 | 4.3269 | 8.4320 | normal | | |
| Selenium, total | ug/L | MW91-20 | 26 | 6 | 32 | 5.9577 | 4.1790 | 4.0000 | 4.0000 | 5.9577 | 5.9577 | 33.1213 | normal | | |
| Silver, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 20.0000 | 20.0000 | | | 22.4000 | nonpar | .99 | ** |
| Zinc, total | ug/L | MW91-20 | 26 | 6 | 32 | | | 20.0000 | 20.0000 | | | 14.6000 | nonpar | .99 | ** |
| Antimony, total | ug/L | SW-3 | 25 | 6 | 32 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Arsenic, total | ug/L | SW-3 | 25 | 6 | 32 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |

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

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

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

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

* - Insufficient Data.

** - Detection Frequency < 25%.

*** - Zero Variance.

Table 1

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

| Constituent | Units | Well | N(back) | N(mon) | N(tot) | Mean | SD | R(i-1) | R(i) | S(i-1) | S(i) | Limit | Type | Conf | |
|------------------|-------|------|---------|--------|--------|----------|---------|----------|----------|----------|----------|----------|--------|------|----|
| Barium, total | ug/L | SW-3 | 25 | 6 | 32 | 291.6800 | 64.2766 | 198.0000 | 287.0000 | 291.6800 | 291.6800 | 709.4777 | normal | .99 | ** |
| Beryllium, total | ug/L | SW-3 | 25 | 6 | 32 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, total | ug/L | SW-3 | 25 | 6 | 32 | | | 0.8000 | 0.8000 | | | 0.8000 | nonpar | .99 | ** |
| Chromium, total | ug/L | SW-3 | 25 | 6 | 32 | | | 8.0000 | 8.0000 | | | 8.0000 | nonpar | .99 | ** |
| Cobalt, total | ug/L | SW-3 | 25 | 6 | 32 | | | 0.4000 | 0.4000 | | | 0.8000 | nonpar | .99 | ** |
| Copper, total | ug/L | SW-3 | 25 | 6 | 32 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Lead, total | ug/L | SW-3 | 25 | 6 | 32 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Nickel, total | ug/L | SW-3 | 25 | 6 | 32 | | | 4.0000 | 4.0000 | | | 7.6000 | nonpar | .99 | ** |
| Selenium, total | ug/L | SW-3 | 25 | 6 | 32 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Silver, total | ug/L | SW-3 | 25 | 6 | 32 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Thallium, total | ug/L | SW-3 | 25 | 6 | 32 | | | 2.0000 | 2.0000 | | | 4.0000 | nonpar | .99 | ** |
| Vanadium, total | ug/L | SW-3 | 25 | 6 | 32 | | | 20.0000 | 20.0000 | | | 24.5000 | nonpar | .99 | ** |
| Zinc, total | ug/L | SW-3 | 25 | 6 | 32 | | | 20.0000 | 20.0000 | | | 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**

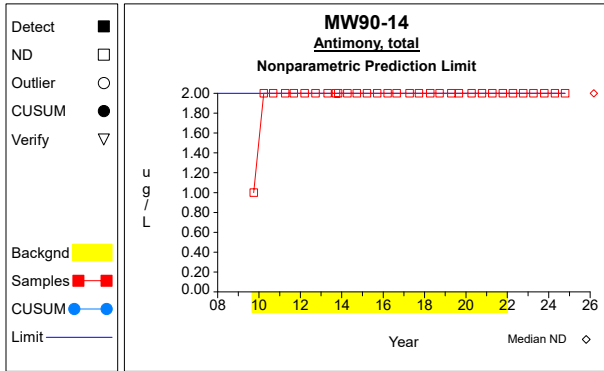
| Constituent | Units | Well | Date | Result | ND Qualifier | Date Range | N | Critical Value |
|-----------------|-------|---------|------------|---------|--------------|-----------------------|----|----------------|
| Cadmium, total | ug/L | MW90-17 | 09/07/2010 | 2.5000 | < 2.5000 | 09/30/2009-10/11/2021 | 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.

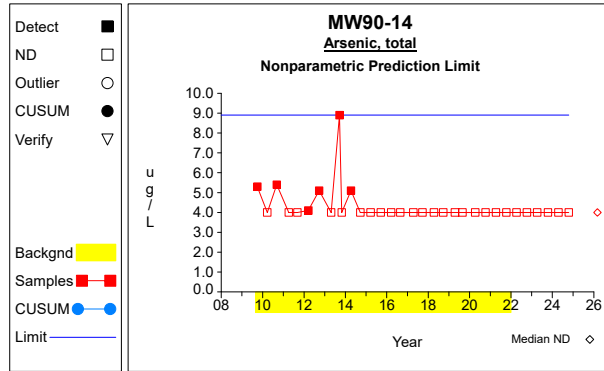
Date Range = Dates of the first and last measurements included in background at each well.

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.

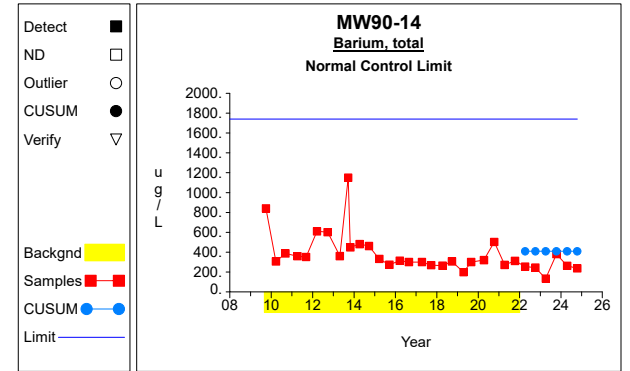
Intra-Well Control Charts / Prediction Limits



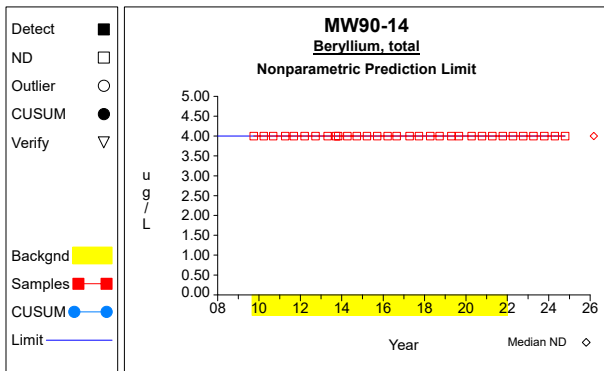
Graph 1



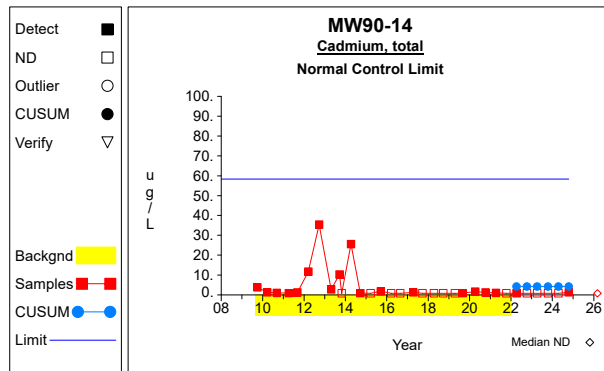
Graph 2



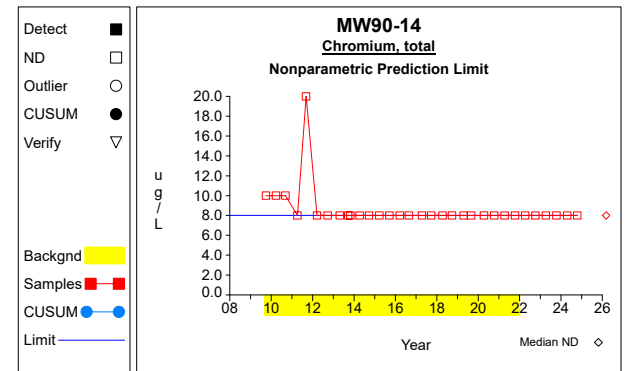
Graph 3



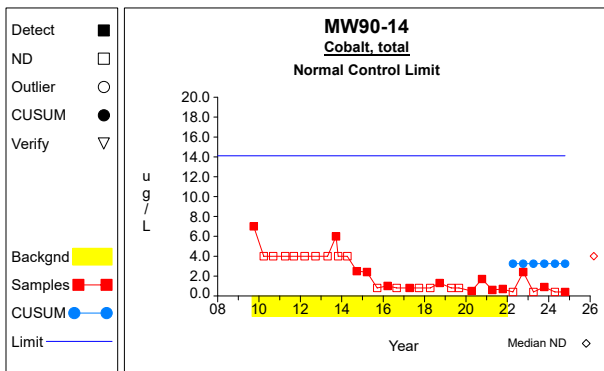
Graph 4



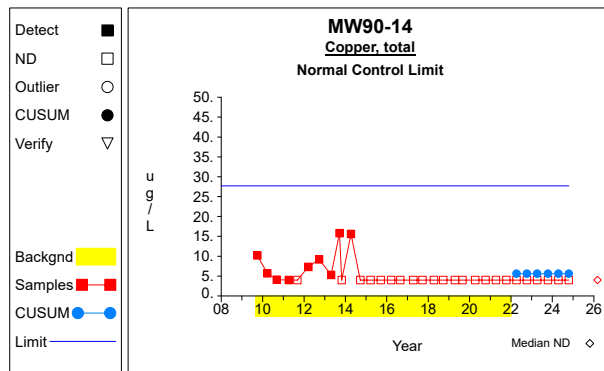
Graph 5



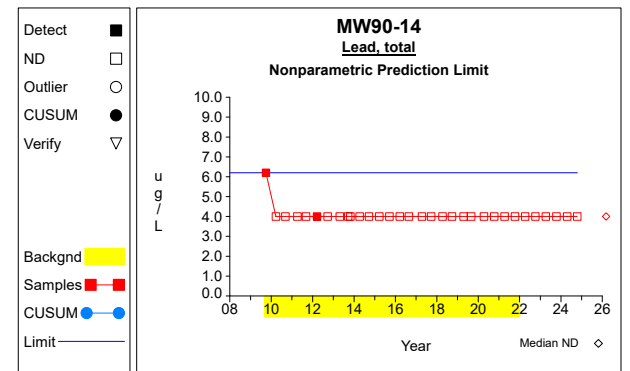
Graph 6



Graph 7

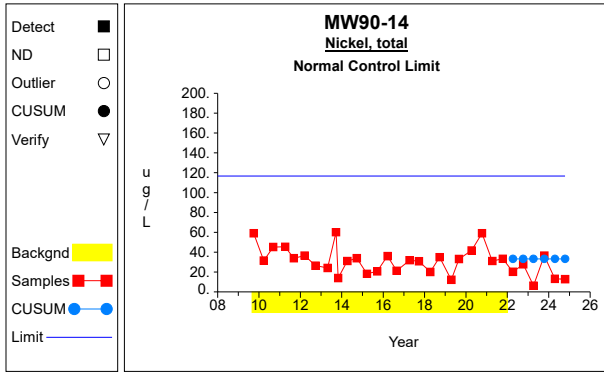


Graph 8

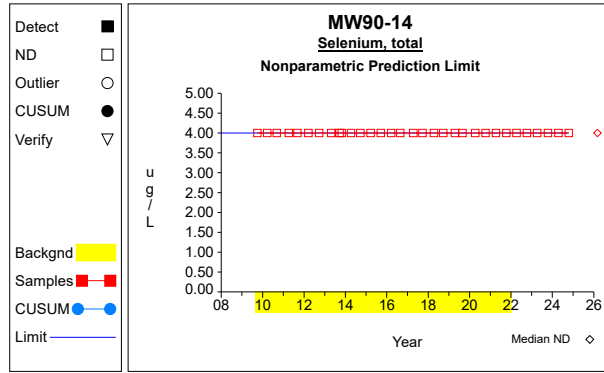


Graph 9

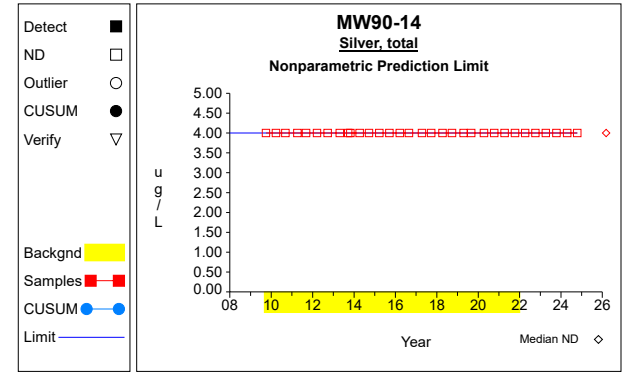
Intra-Well Control Charts / Prediction Limits



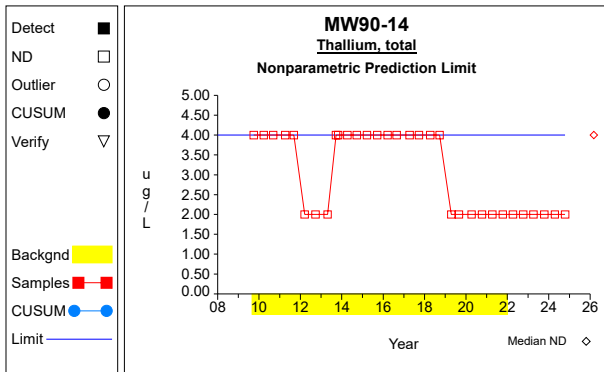
Graph 10



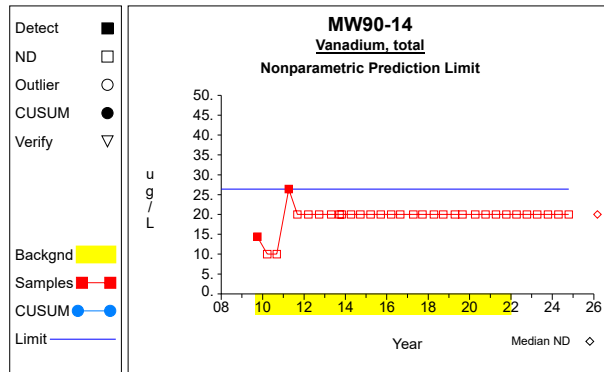
Graph 11



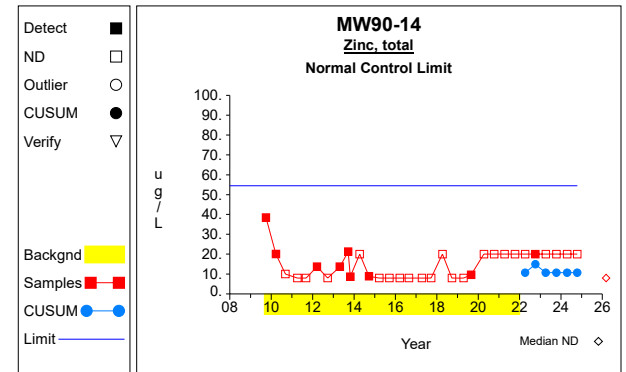
Graph 12



Graph 13

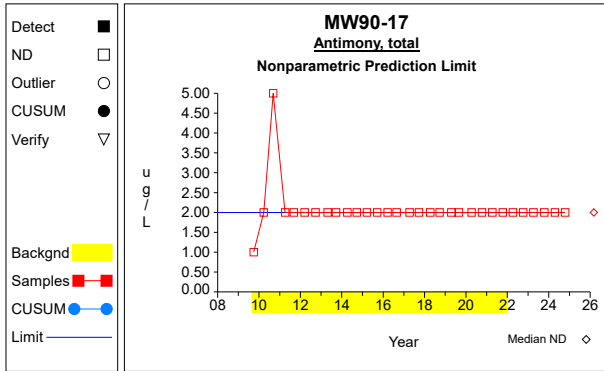


Graph 14

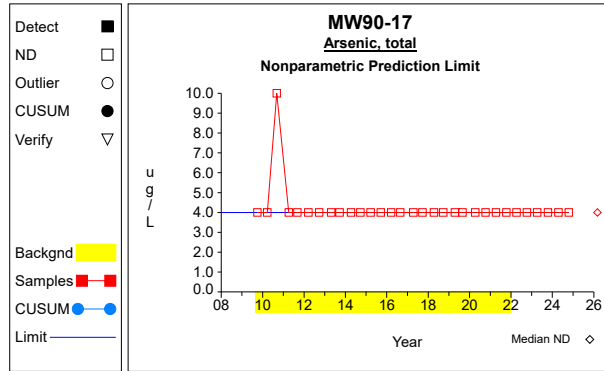


Graph 15

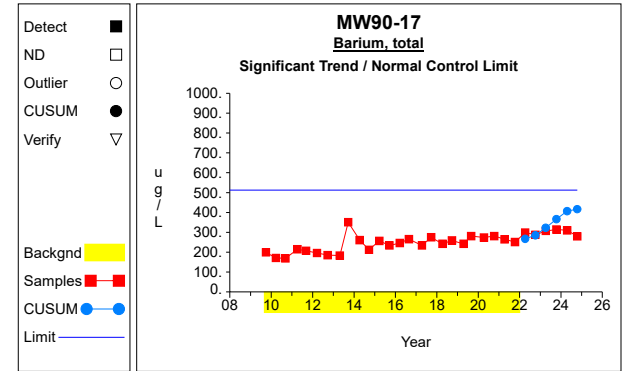
Intra-Well Control Charts / Prediction Limits



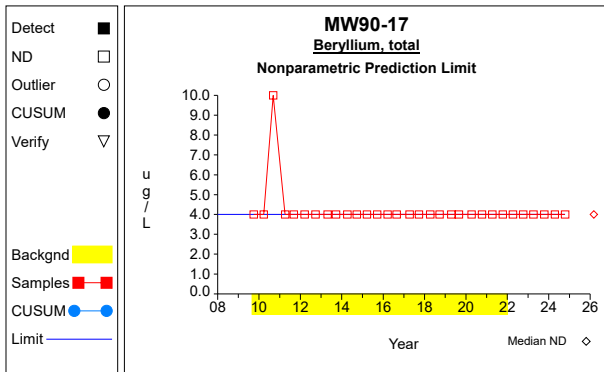
Graph 16



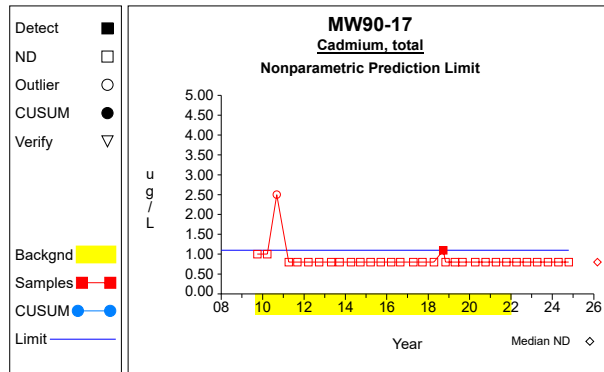
Graph 17



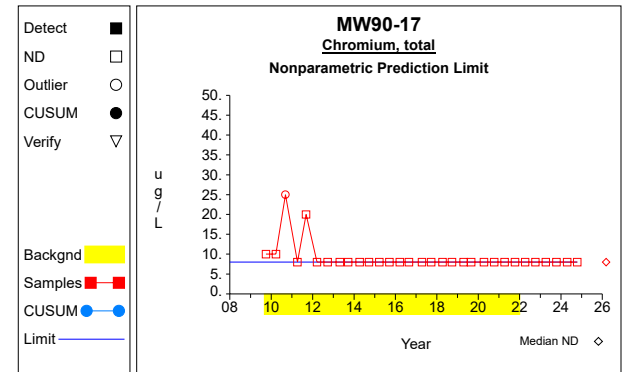
Graph 18



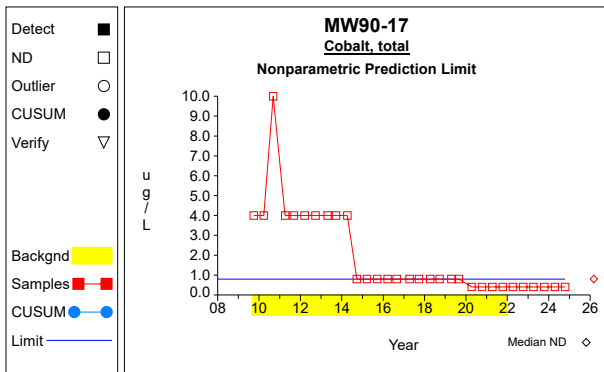
Graph 19



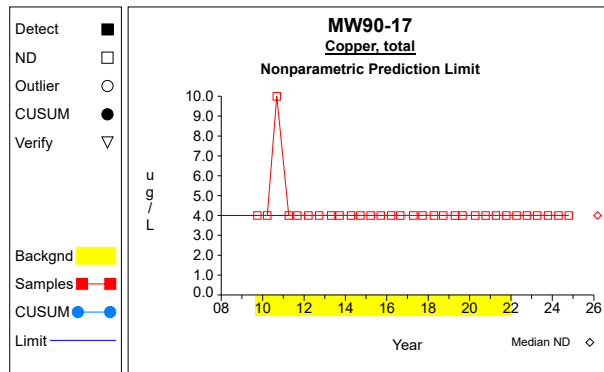
Graph 20



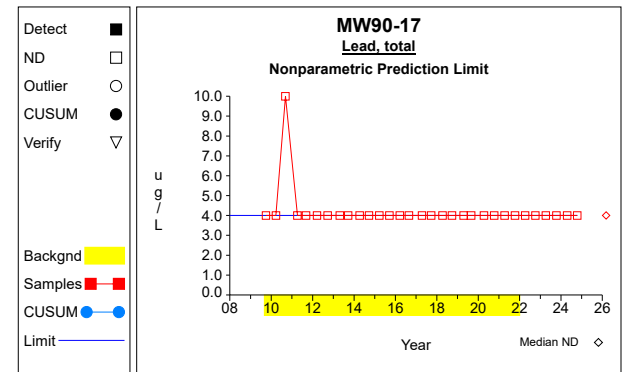
Graph 21



Graph 22

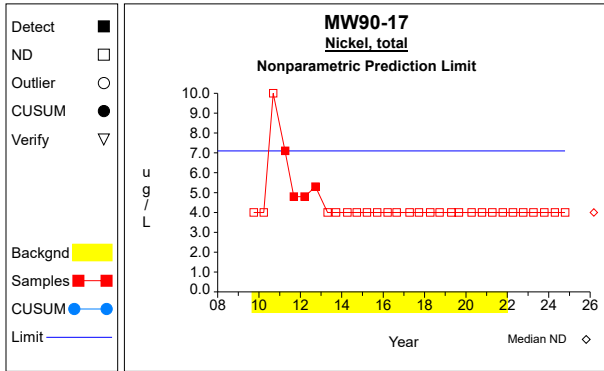


Graph 23

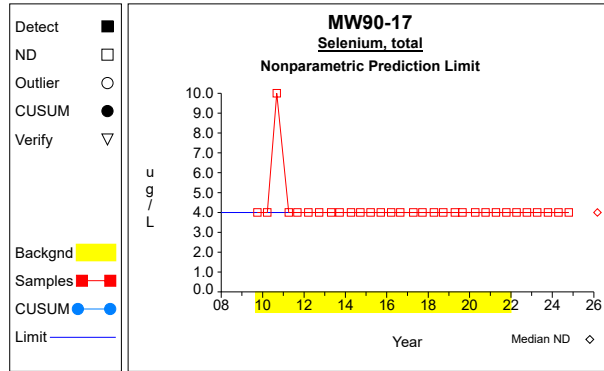


Graph 24

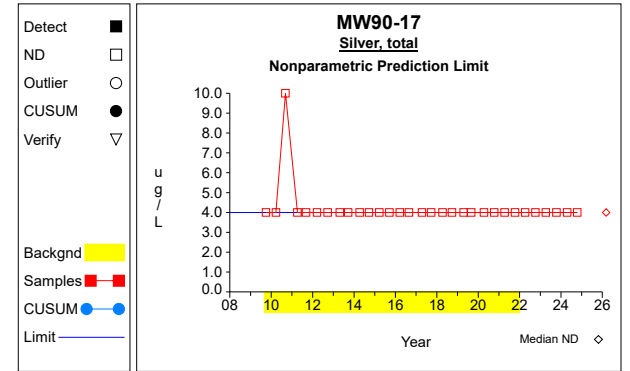
Intra-Well Control Charts / Prediction Limits



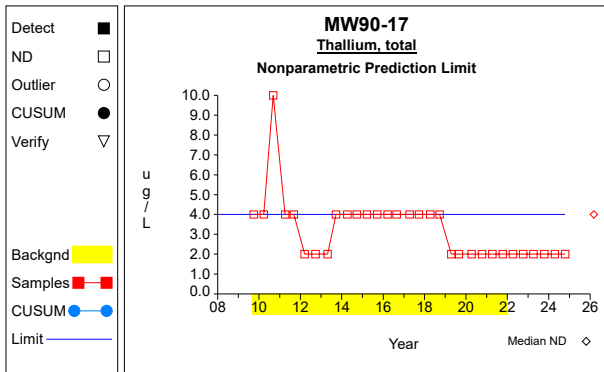
Graph 25



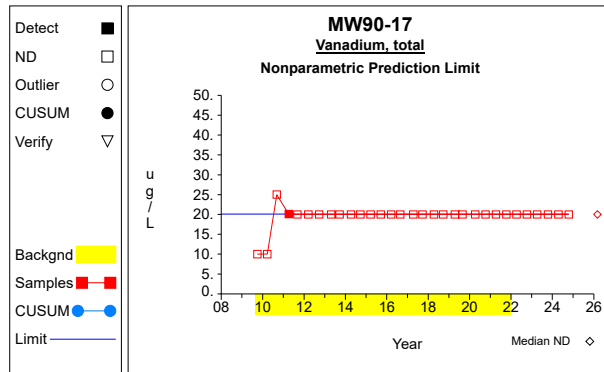
Graph 26



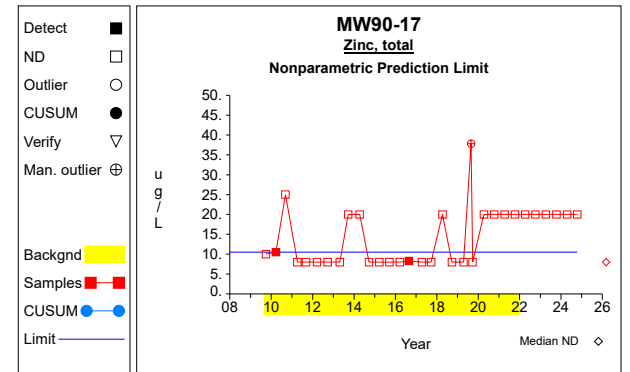
Graph 27



Graph 28

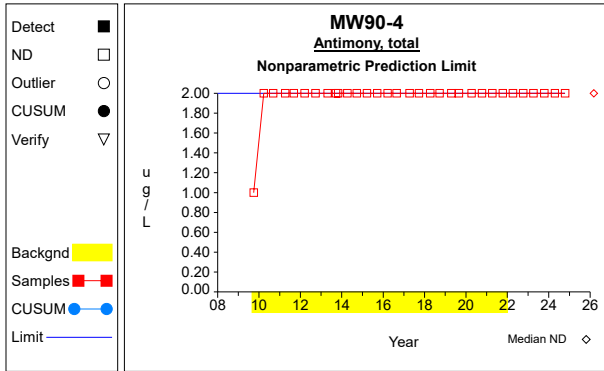


Graph 29

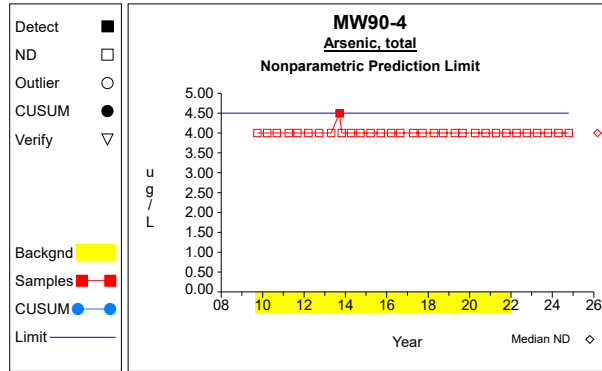


Graph 30

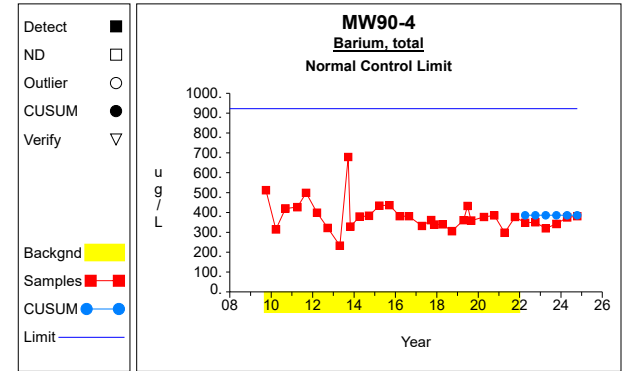
Intra-Well Control Charts / Prediction Limits



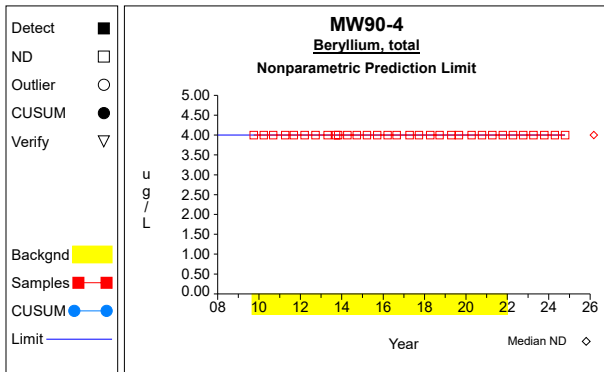
Graph 31



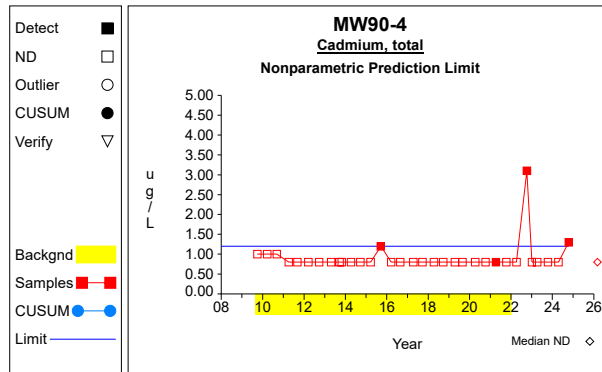
Graph 32



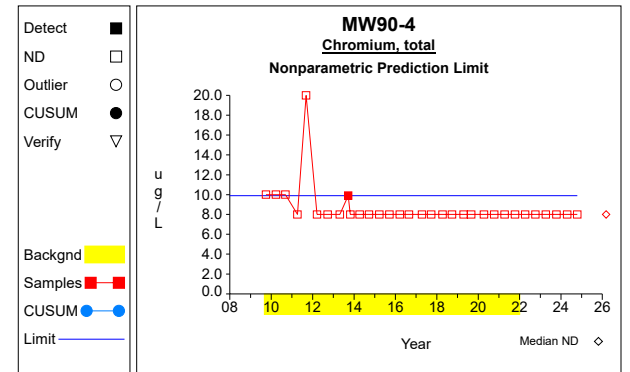
Graph 33



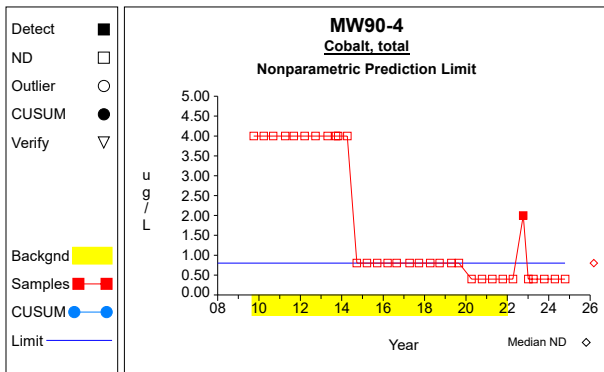
Graph 34



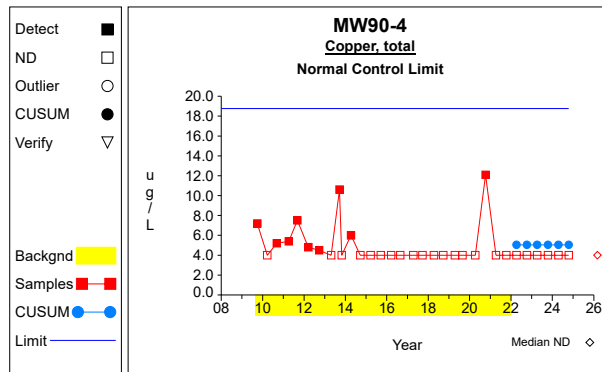
Graph 35



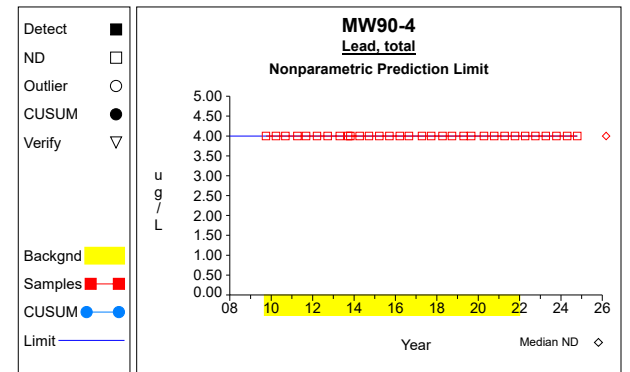
Graph 36



Graph 37

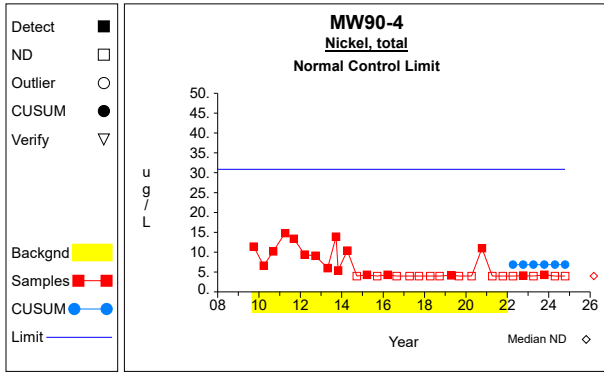


Graph 38

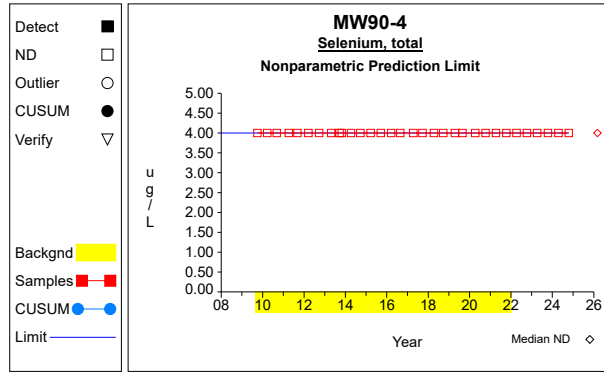


Graph 39

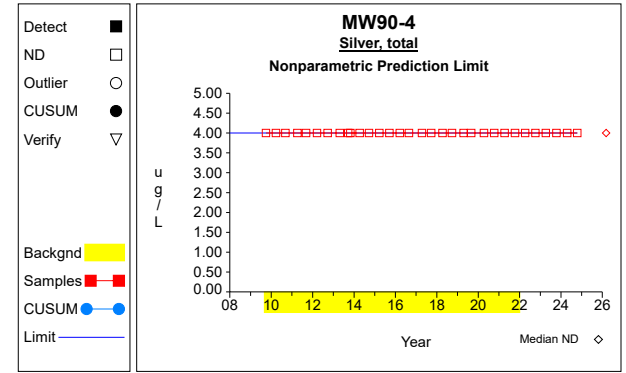
Intra-Well Control Charts / Prediction Limits



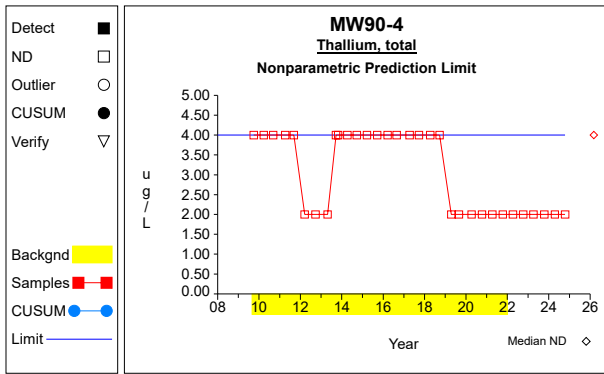
Graph 40



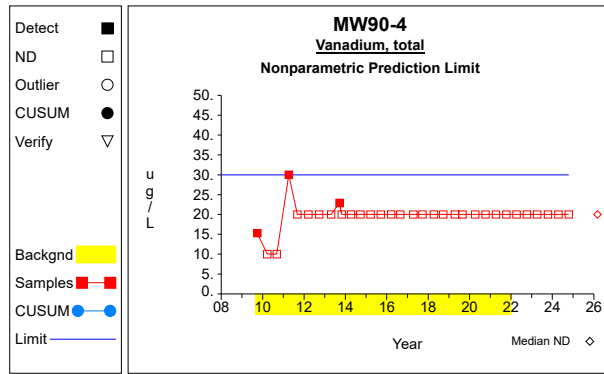
Graph 41



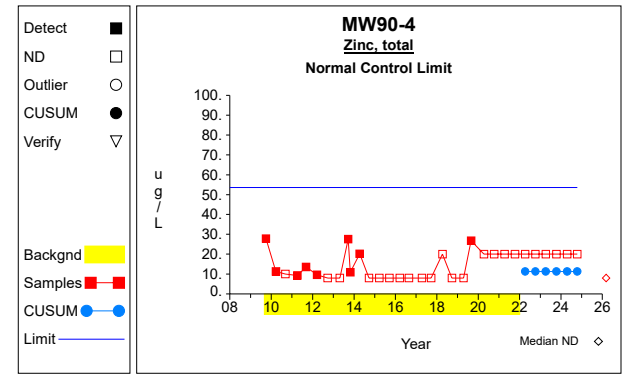
Graph 42



Graph 43

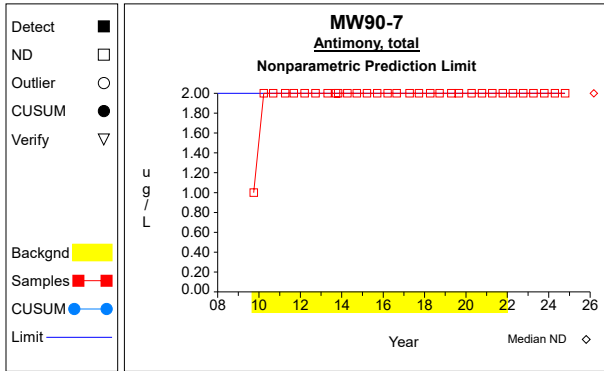


Graph 44

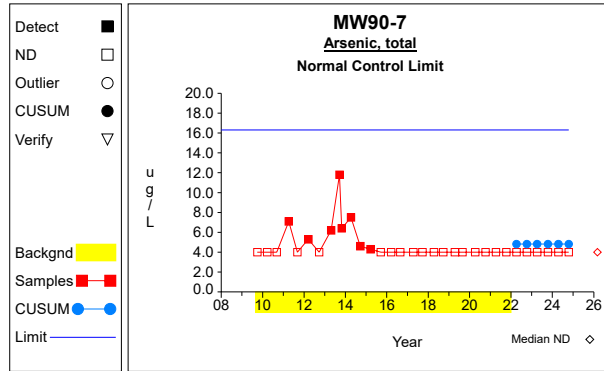


Graph 45

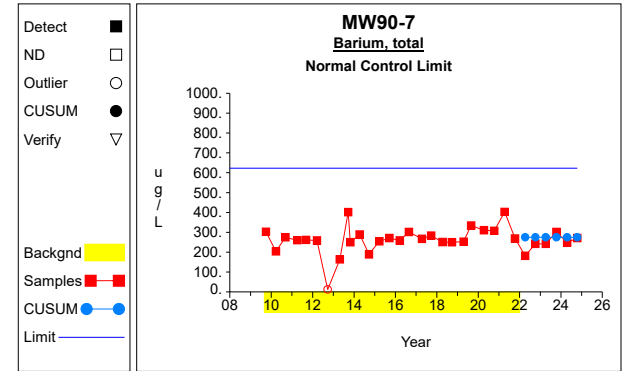
Intra-Well Control Charts / Prediction Limits



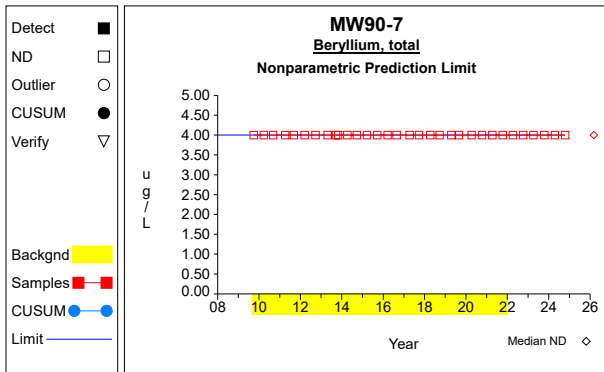
Graph 46



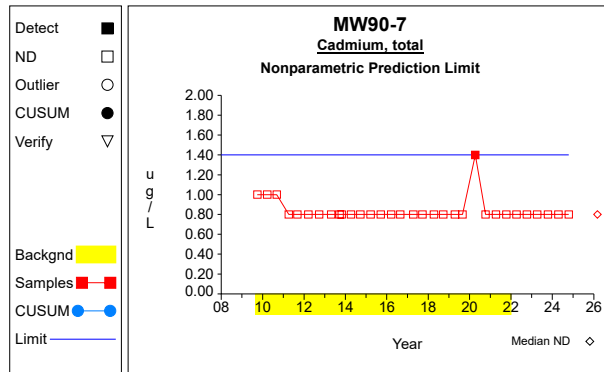
Graph 47



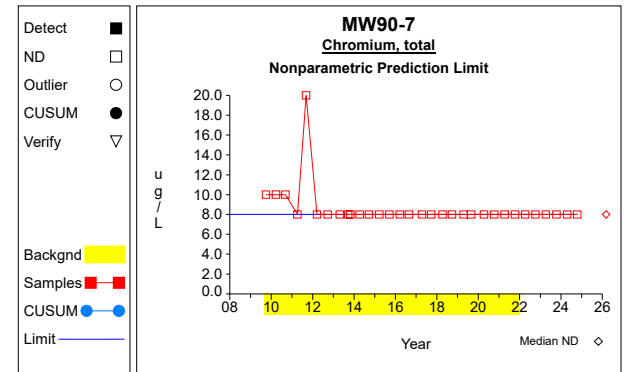
Graph 48



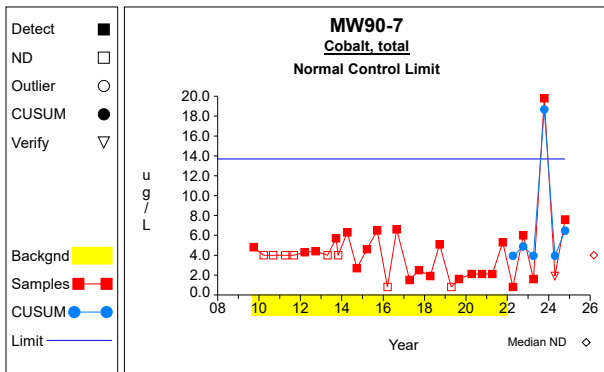
Graph 49



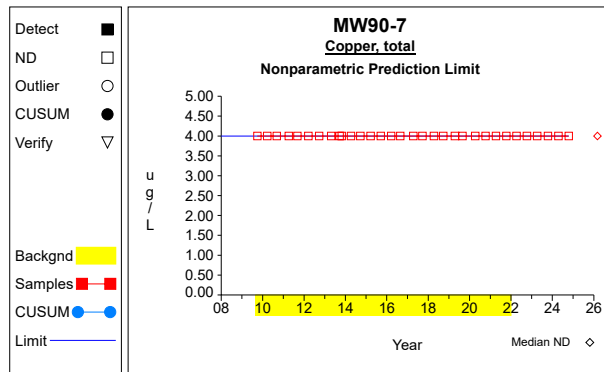
Graph 50



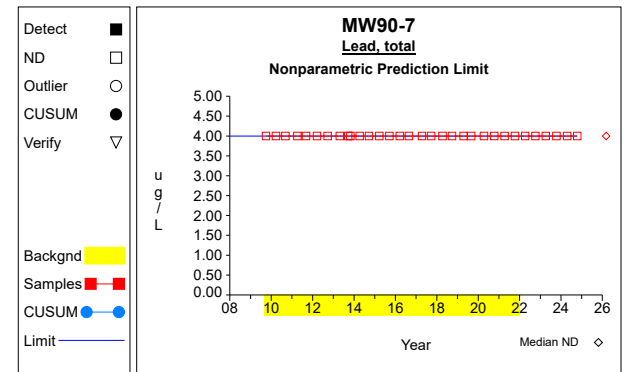
Graph 51



Graph 52

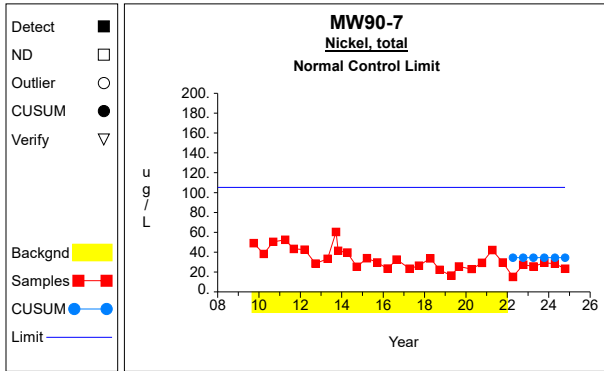


Graph 53

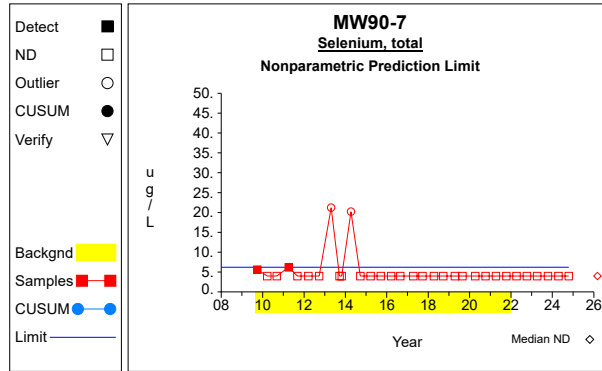


Graph 54

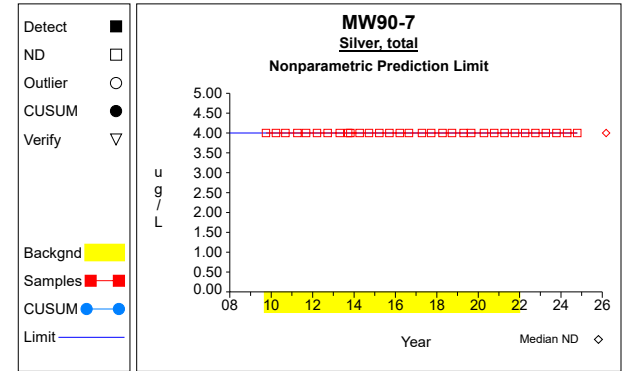
Intra-Well Control Charts / Prediction Limits



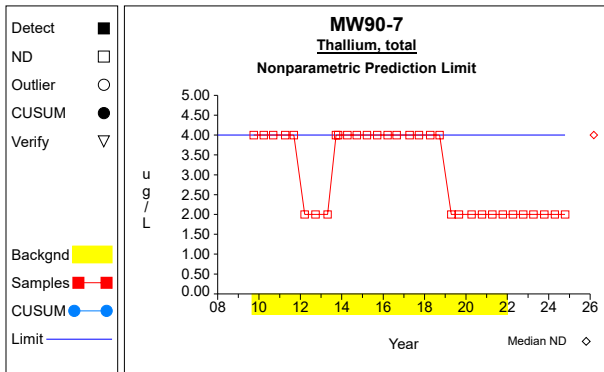
Graph 55



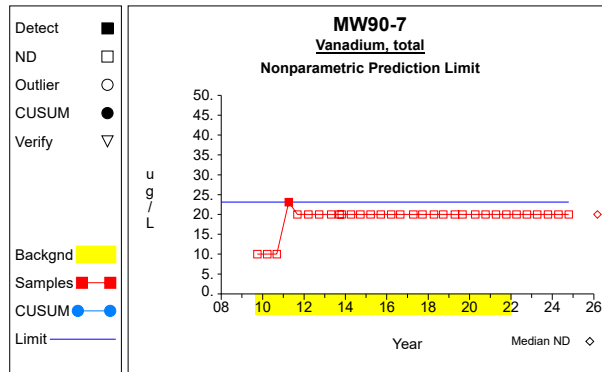
Graph 56



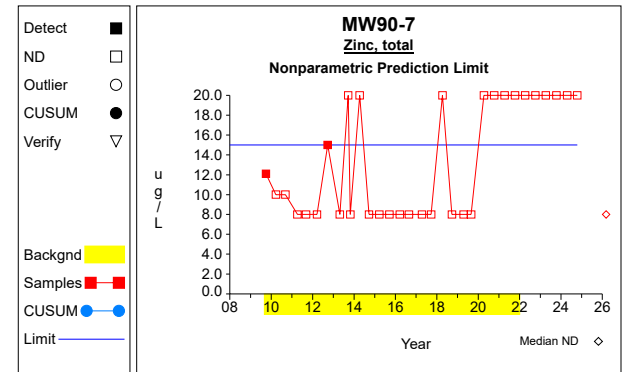
Graph 57



Graph 58

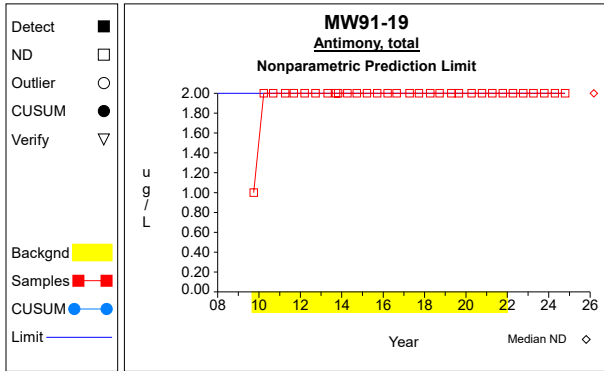


Graph 59

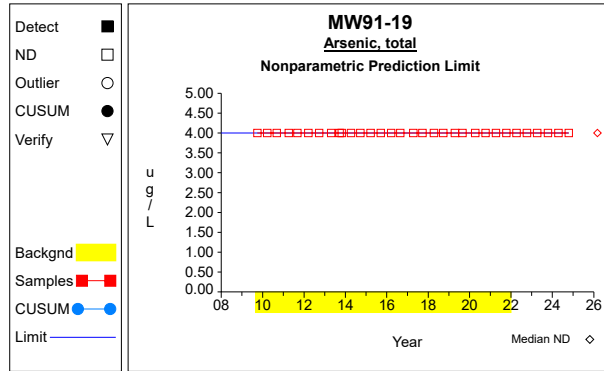


Graph 60

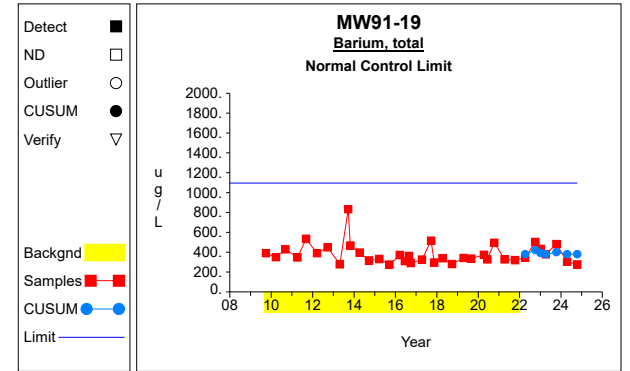
Intra-Well Control Charts / Prediction Limits



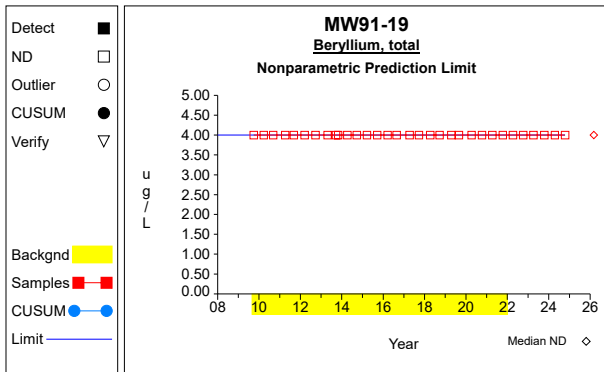
Graph 61



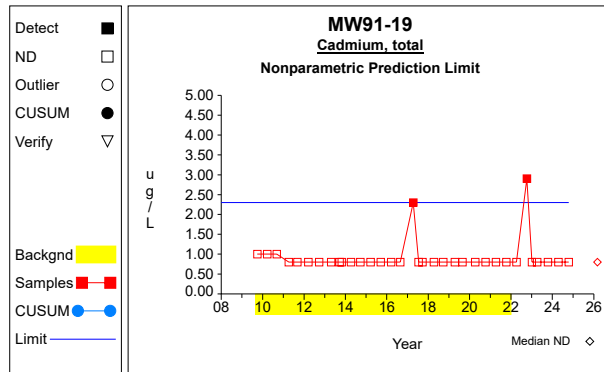
Graph 62



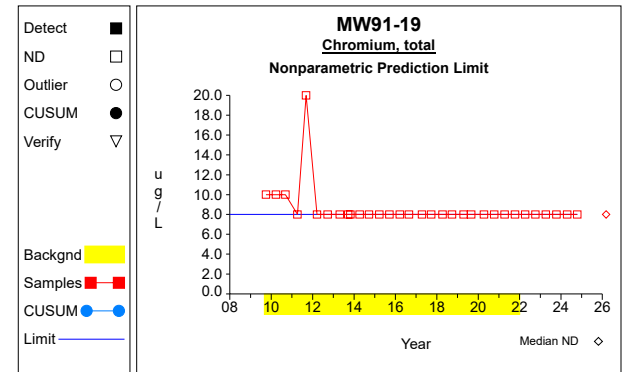
Graph 63



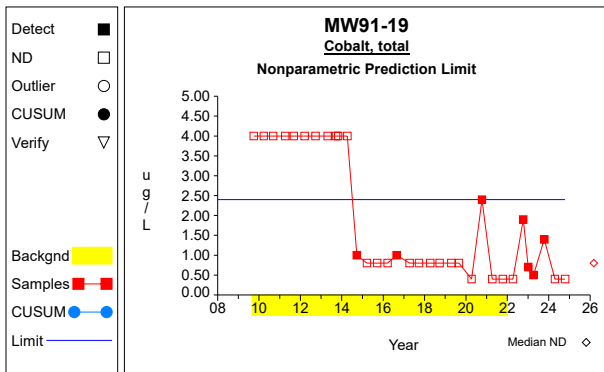
Graph 64



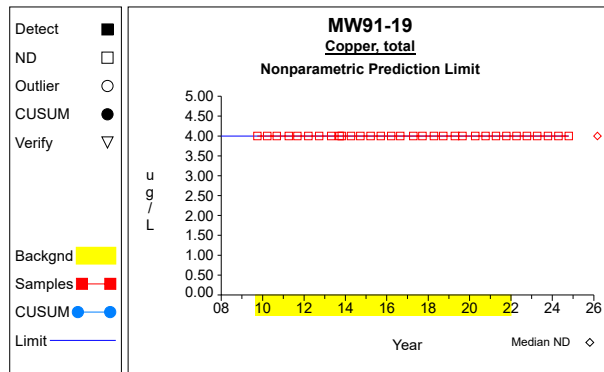
Graph 65



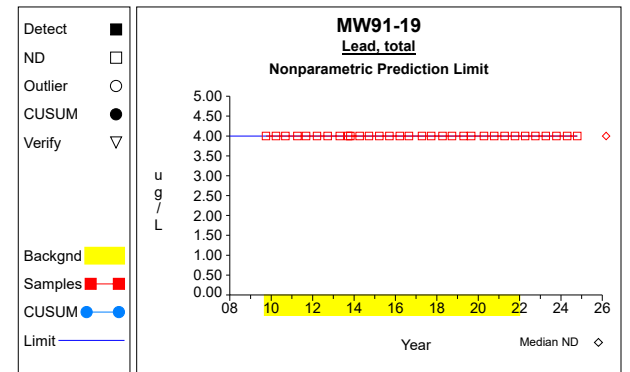
Graph 66



Graph 67

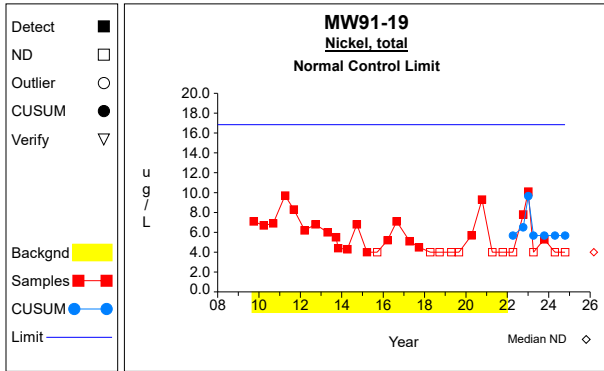


Graph 68

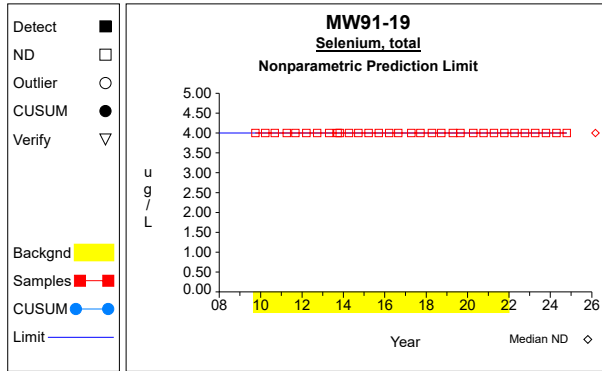


Graph 69

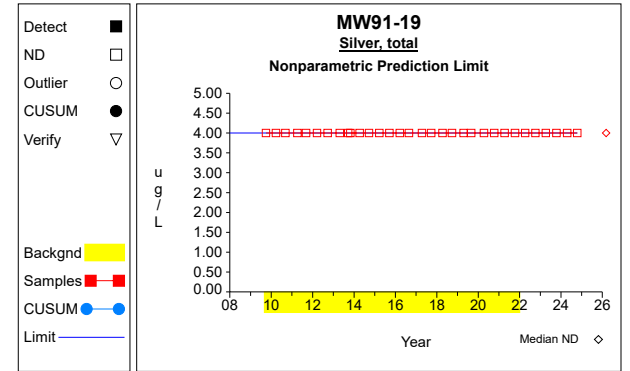
Intra-Well Control Charts / Prediction Limits



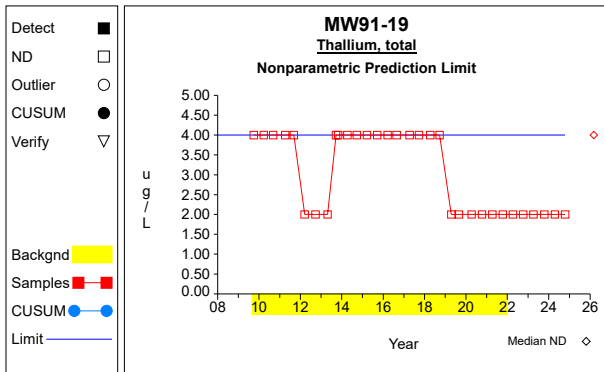
Graph 70



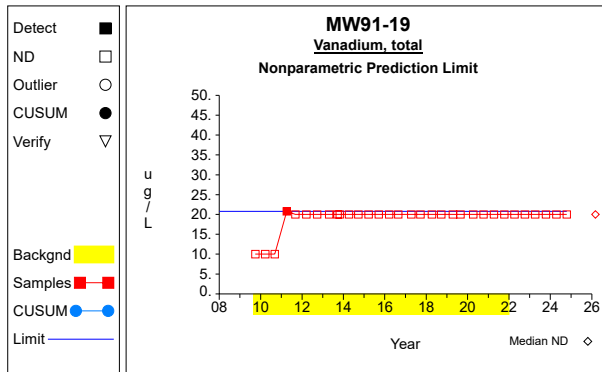
Graph 71



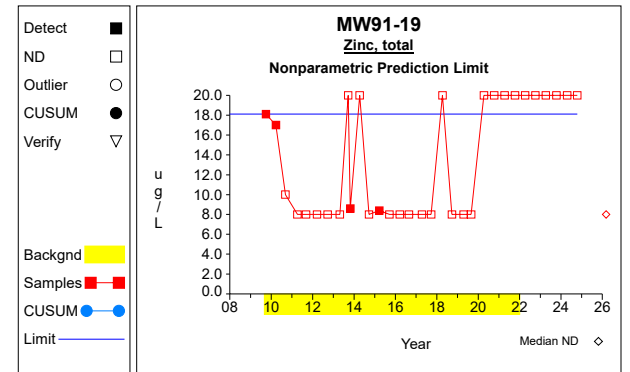
Graph 72



Graph 73

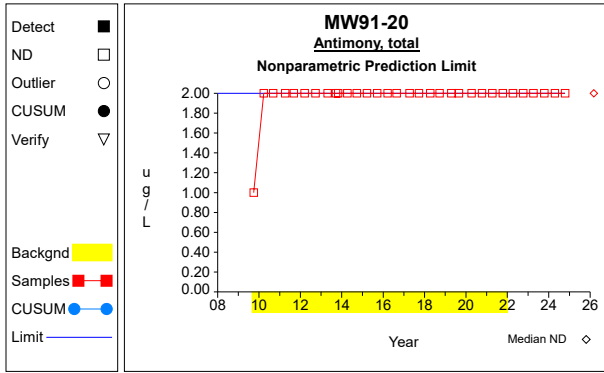


Graph 74

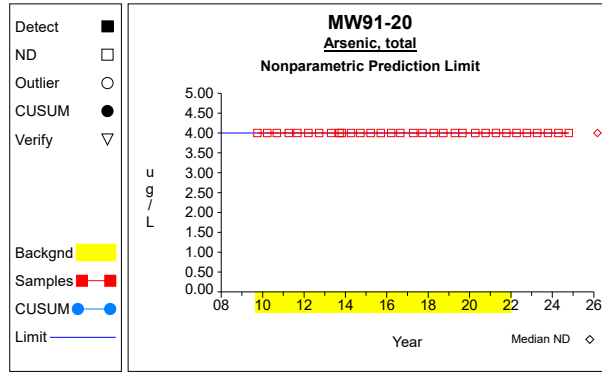


Graph 75

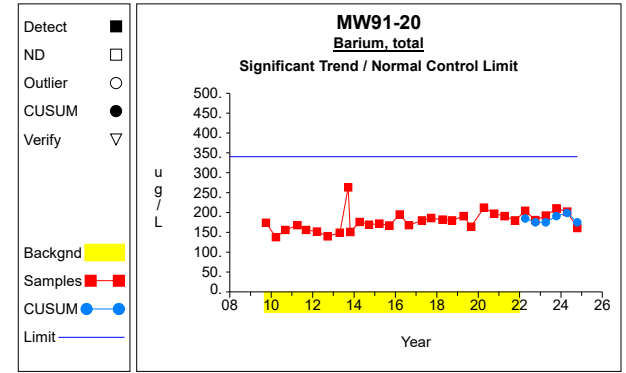
Intra-Well Control Charts / Prediction Limits



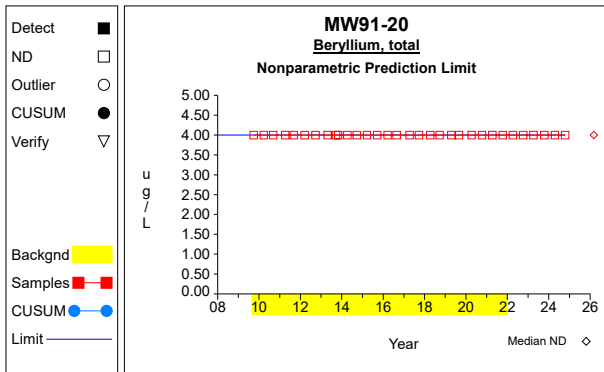
Graph 76



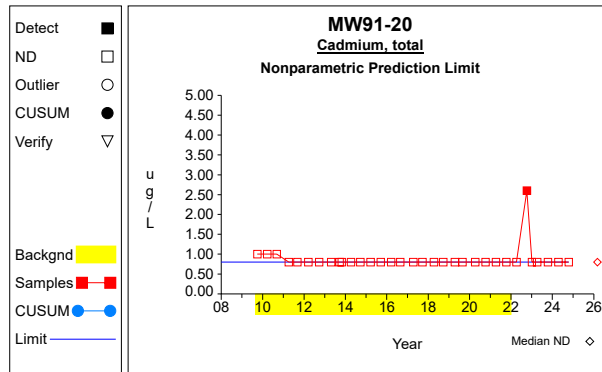
Graph 77



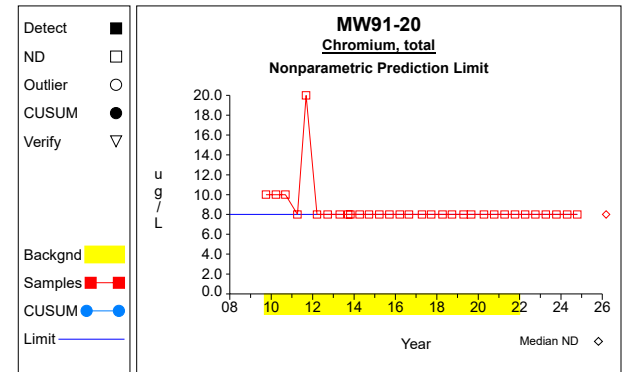
Graph 78



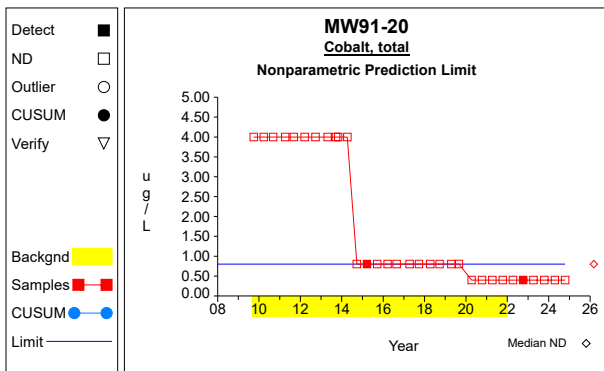
Graph 79



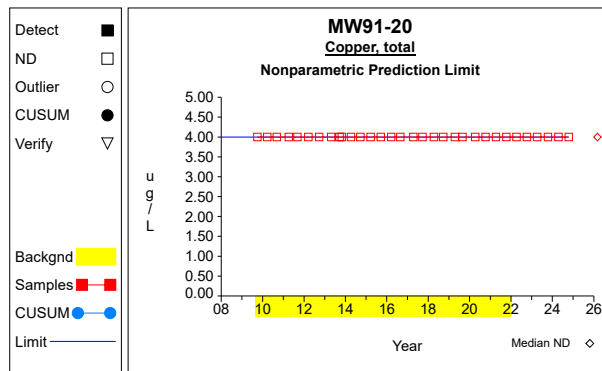
Graph 80



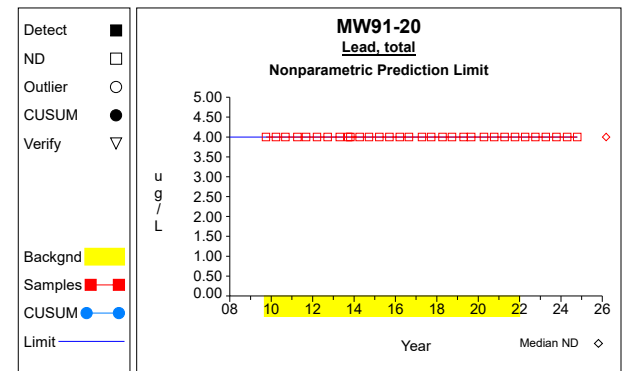
Graph 81



Graph 82

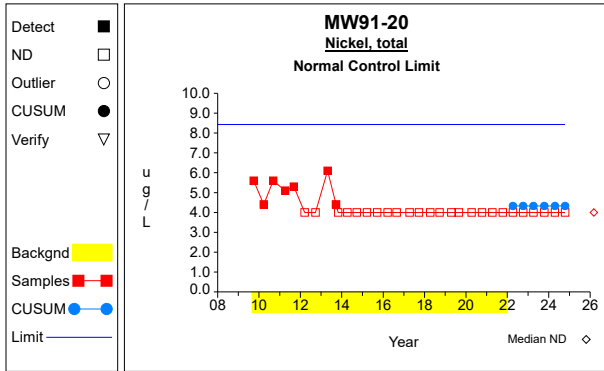


Graph 83

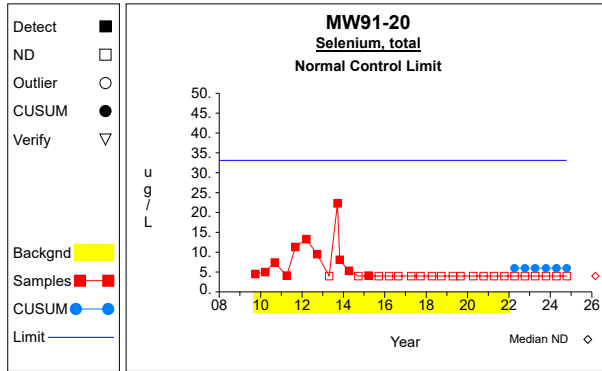


Graph 84

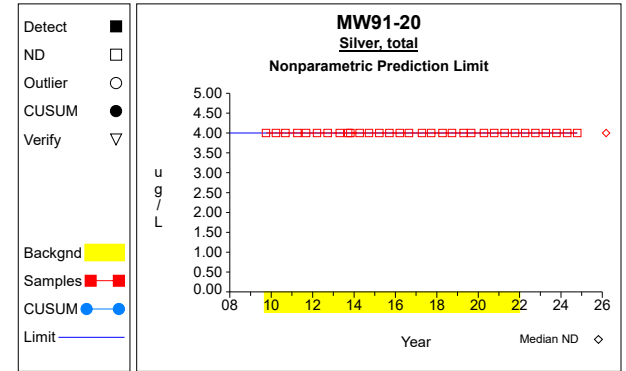
Intra-Well Control Charts / Prediction Limits



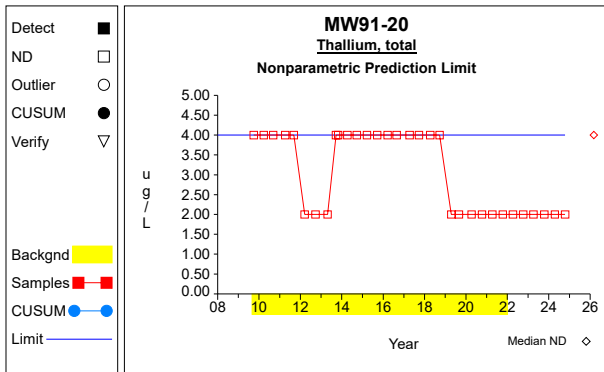
Graph 85



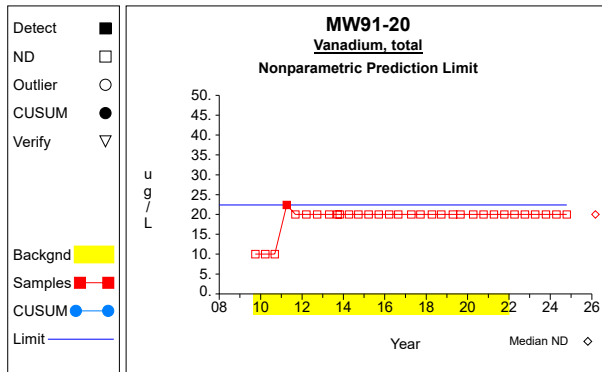
Graph 86



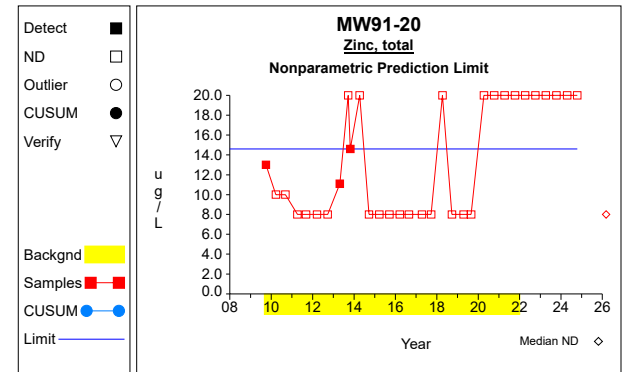
Graph 87



Graph 88

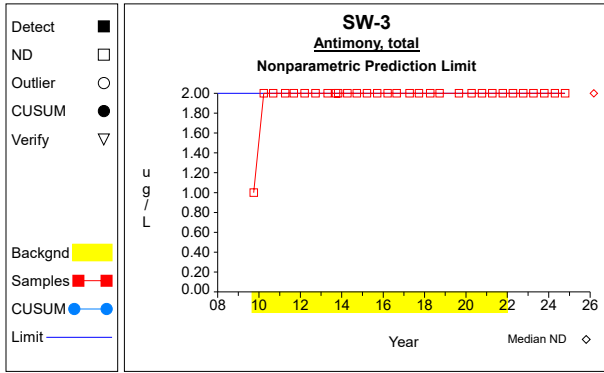


Graph 89

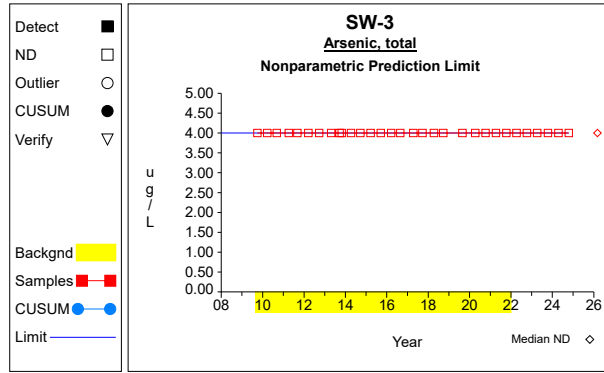


Graph 90

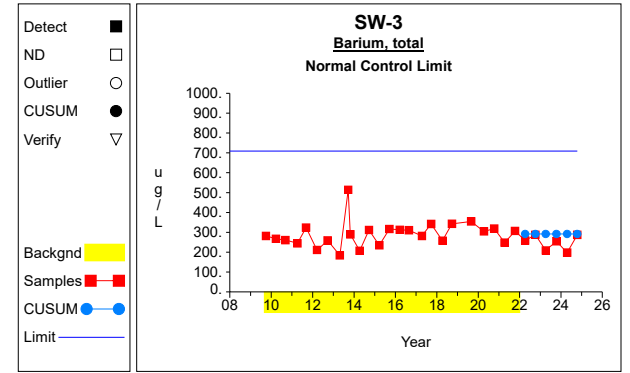
Intra-Well Control Charts / Prediction Limits



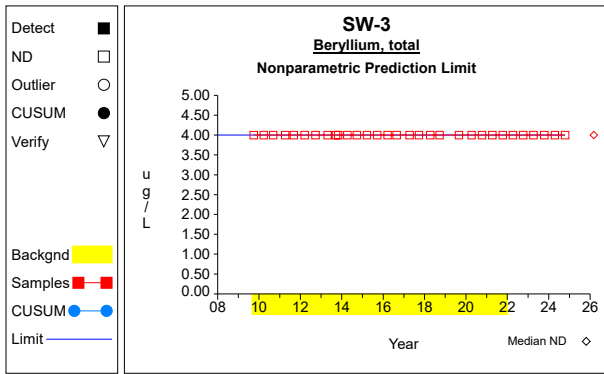
Graph 91



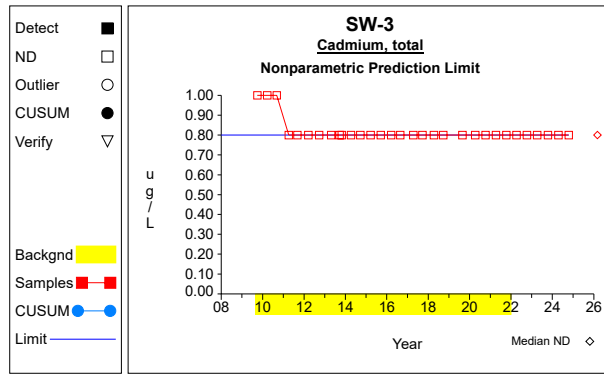
Graph 92



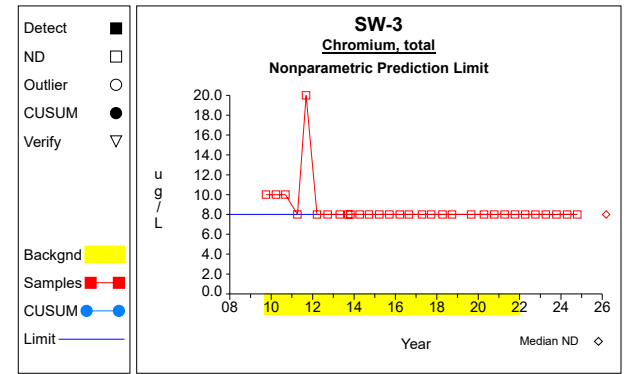
Graph 93



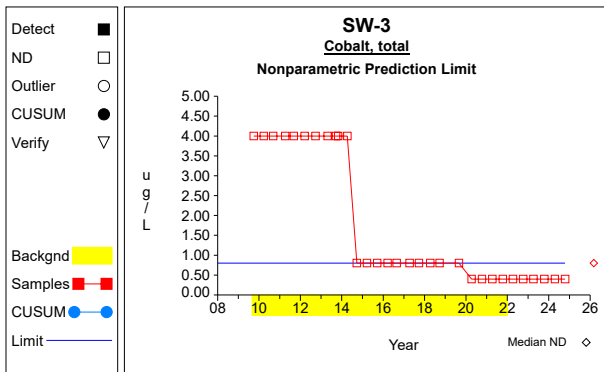
Graph 94



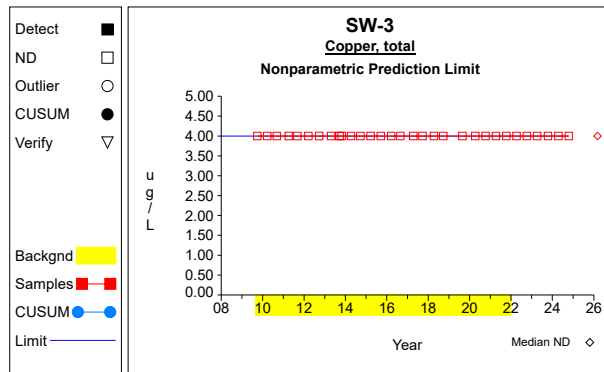
Graph 95



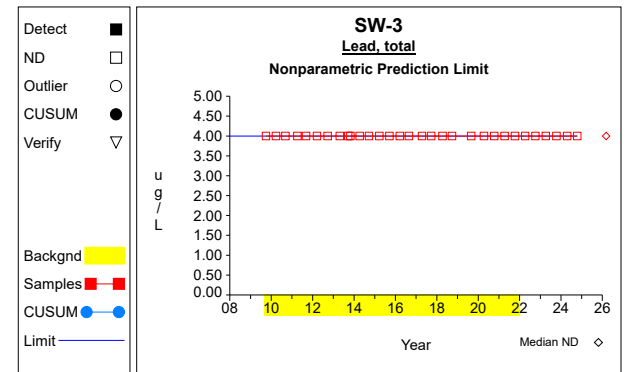
Graph 96



Graph 97

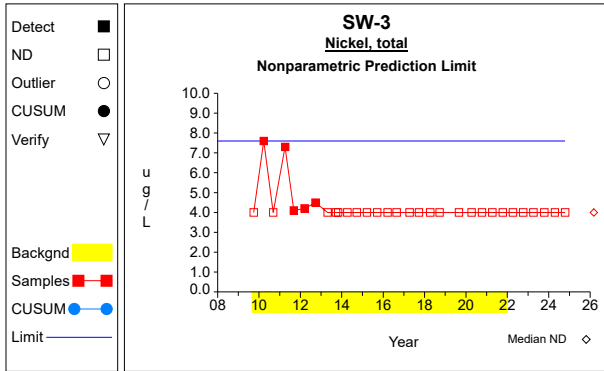


Graph 98

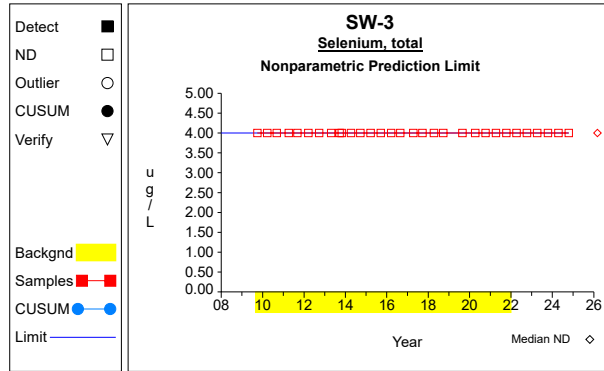


Graph 99

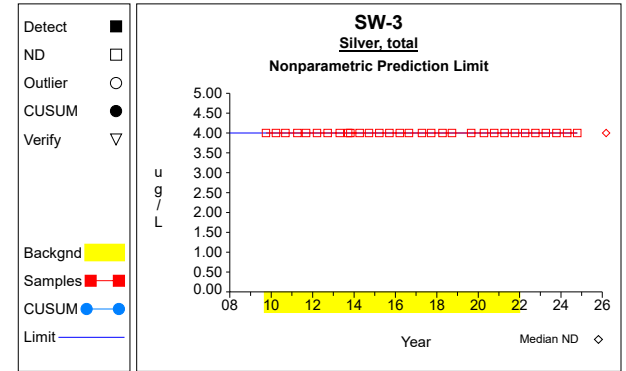
Intra-Well Control Charts / Prediction Limits



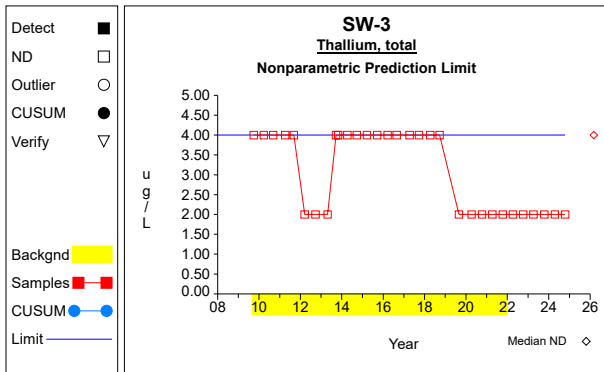
Graph 100



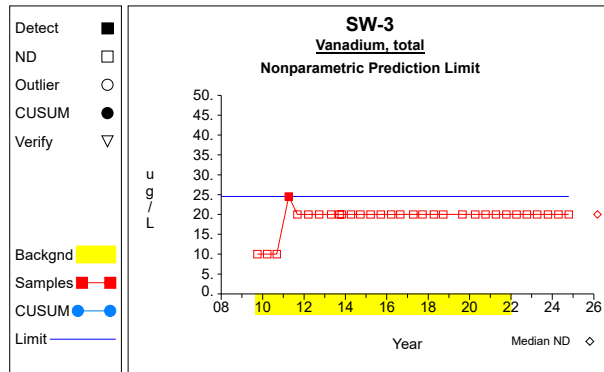
Graph 101



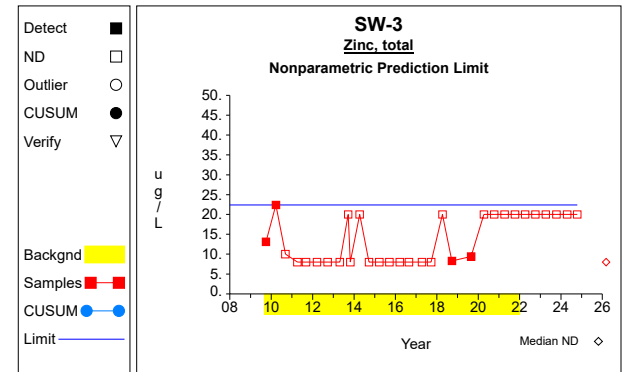
Graph 102



Graph 103

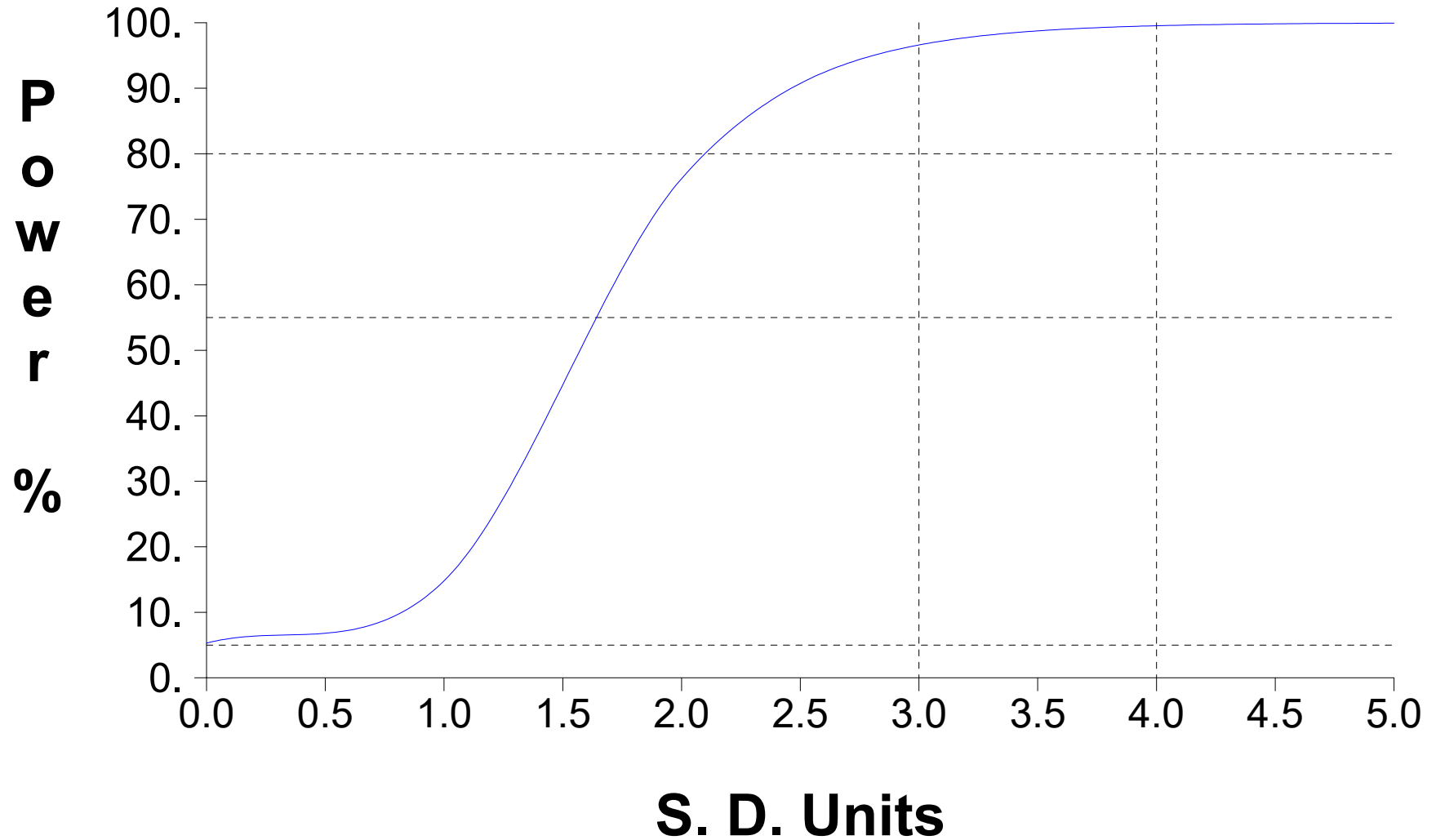


Graph 104



Graph 105

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



Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Antimony, total (ug/L) at MW90-14****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Arsenic, total (ug/L) at MW90-14****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 8.9 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Barium, total (ug/L) at MW90-14
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 10634.0 / 26$ $= 409.0$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((5.40 \times 10^6 - 1.13 \times 10^8 / 26) / (26-1))^{1/2}$ $= 204.856$ | Compute background sd. |
| 3 | $SCL = \bar{X} + F * S$ $= 409.0 + 6.5 * 204.856$ $= 1740.563$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = -13.781$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 2056.333$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 2056.333^{1/2}) / 2$ $= 109.762$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $LCL(S) = -37.17$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Beryllium, total (ug/L) at MW90-14
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---------------------------------|---|
| 1 | $PL = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Cadmium, total (ug/L) at MW90-14
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 110.0 / 26$ $= 4.231$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((2196.36 - 12100.0/26) / (26-1))^{1/2}$ $= 8.321$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 4.231 + 6.5 * 8.321$ $= 58.317$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = -0.036$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 1959.667$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 1959.667^{1/2}) / 2$ $= 111.016$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -0.314$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Chromium, total (ug/L) at MW90-14
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|---|
| 1 | $\text{PL} = \text{median}(X)$ $= 8.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Cobalt, total (ug/L) at MW90-14
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 84.5 / 26$ $= 3.25$ | Compute background mean. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{344.33 - 7140.25/26}{26-1} \right)^{1/2}$ $= 1.67$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 3.25 + 6.5 * 1.67$ $= 14.104$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = -0.269$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 1650.0$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 1650.0^{1/2}) / 2$ $= 115.259$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -0.434$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Copper, total (ug/L) at MW90-14
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 145.2 / 26$ $= 5.585$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((1100.36 - 21083.04/26) / (26-1))^{1/2}$ $= 3.403$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 5.585 + 6.5 * 3.403$ $= 27.703$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = 0.0$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 1361.333$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 1361.333^{1/2}) / 2$ $= 119.59$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -0.171$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Lead, total (ug/L) at MW90-14
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|-------------------------------|---|
| 1 | $\text{PL} = \max(X)$ $= 6.2$ | Compute nonparametric prediction limit as largest background measurement. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Nickel, total (ug/L) at MW90-14
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 866.4 / 26$ $= 33.323$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((32978.32 - 750648.96/26) / (26-1))^{1/2}$ $= 12.817$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 33.323 + 6.5 * 12.817$ $= 116.637$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = -0.436$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 2057.333$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 2057.333^{1/2}) / 2$ $= 109.749$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -2.456$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Selenium, total (ug/L) at MW90-14
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|---|
| 1 | $\text{PL} = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Silver, total (ug/L) at MW90-14**
Nonparametric Prediction Limit

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Thallium, total (ug/L) at MW90-14**
Nonparametric Prediction Limit

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Vanadium, total (ug/L) at MW90-14**
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 26.4 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Zinc, total (ug/L) at MW90-14****Normal Control Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 278.5 / 26$ $= 10.712$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((4114.39 - 77562.25/26) / (26-1))^{1/2}$ $= 6.727$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 10.712 + 6.5 * 6.727$ $= 54.435$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = 0.0$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 1360.333$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 1360.333^{1/2}) / 2$ $= 119.605$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -0.186$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Antimony, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|---|
| 1 | $\text{PL} = \text{median}(X)$ $= 2.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Arsenic, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---------------------------------|---|
| 1 | $PL = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Barium, total (ug/L) at MW90-17****Normal Control Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 5956.0 / 25$ $= 238.24$ | Compute background mean. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{N-1} \right)^{1/2}$ $= \left(\frac{(1.46 \times 10^6 - 3.55 \times 10^7/25)}{25-1} \right)^{1/2}$ $= 42.233$ | Compute background sd. |
| 3 | $SCL = \bar{X} + F * S$ $= 238.24 + 6.5 * 42.233$ $= 512.753$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 25 * (25-1) / 2$ $= 300$ | Number of sample pairs during trend detection period. |
| 5 | S = 7.598 | Sen's estimator of trend. |
| 6 | var(S) = 1830.333 | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (300 - 2.326 * 1830.333^{1/2}) / 2$ $= 100.244$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | LCL(S) = 3.72 | One-sided lower confidence limit for slope. |
| 9 | LCL(S) > 0 | Significant increasing trend. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Beryllium, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Cadmium, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 1.1 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Chromium, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Cobalt, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Copper, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Lead, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Nickel, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 7.1 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Selenium, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Silver, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Thallium, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Vanadium, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 20.1 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Zinc, total (ug/L) at MW90-17****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 10.5 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Antimony, total (ug/L) at MW90-4****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Arsenic, total (ug/L) at MW90-4****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 4.5 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Barium, total (ug/L) at MW90-4****Normal Control Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 10799.0 / 28$ $= 385.679$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((4.35 \times 10^6 - 1.17 \times 10^8/28) / (28-1))^{1/2}$ $= 82.55$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 385.679 + 6.5 * 82.55$ $= 922.254$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 28 * (28-1) / 2$ $= 378$ | Number of sample pairs during trend detection period. |
| 5 | $S = -5.139$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 2560.0$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (378 - 2.326 * 2560.0^{1/2}) / 2$ $= 130.156$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -13.343$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Beryllium, total (ug/L) at MW90-4****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|---|
| 1 | $\text{PL} = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Cadmium, total (ug/L) at MW90-4****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 1.2 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Chromium, total (ug/L) at MW90-4****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 9.9 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Cobalt, total (ug/L) at MW90-4****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Copper, total (ug/L) at MW90-4
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 131.3 / 26$ $= 5.05$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((774.35 - 17239.69/26) / (26-1))^{1/2}$ $= 2.11$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 5.05 + 6.5 * 2.11$ $= 18.764$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = 0.0$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 1469.0$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 1469.0^{1/2}) / 2$ $= 117.925$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -0.144$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Lead, total (ug/L) at MW90-4
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|---|
| 1 | $\text{PL} = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Nickel, total (ug/L) at MW90-4
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 178.4 / 26$ $= 6.862$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((1565.48 - 31826.56/26) / (26-1))^{1/2}$ $= 3.695$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 6.862 + 6.5 * 3.695$ $= 30.881$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = -0.406$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 1892.333$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 1892.333^{1/2}) / 2$ $= 111.908$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -0.895$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Selenium, total (ug/L) at MW90-4
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|---|
| 1 | $\text{PL} = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Silver, total (ug/L) at MW90-4**
Nonparametric Prediction Limit

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Thallium, total (ug/L) at MW90-4**
Nonparametric Prediction Limit

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Vanadium, total (ug/L) at MW90-4**
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 30.0 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Zinc, total (ug/L) at MW90-4
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 293.2 / 26$ $= 11.277$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((4364.56 - 85966.24/26) / (26-1))^{1/2}$ $= 6.506$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 11.277 + 6.5 * 6.506$ $= 53.565$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = 0.0$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 1469.0$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 1469.0^{1/2}) / 2$ $= 117.925$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -0.313$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Antimony, total (ug/L) at MW90-7
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|---|
| 1 | $\text{PL} = \text{median}(X)$ $= 2.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Arsenic, total (ug/L) at MW90-7
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 125.2 / 26$ $= 4.815$ | Compute background mean. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2/N}{(N-1)} \right)^{1/2}$ $= \left(\frac{681.04 - 15675.04/26}{(26-1)} \right)^{1/2}$ $= 1.768$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 4.815 + 6.5 * 1.768$ $= 16.308$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = 0.0$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 1361.333$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 1361.333^{1/2}) / 2$ $= 119.59$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -0.078$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Barium, total (ug/L) at MW90-7
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 6874.0 / 25$ $= 274.96$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((1.96 \times 10^6 - 4.73 \times 10^7/25) / (25-1))^{1/2}$ $= 53.486$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 274.96 + 6.5 * 53.486$ $= 622.621$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 25 * (25-1) / 2$ $= 300$ | Number of sample pairs during trend detection period. |
| 5 | $S = 3.686$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 1831.333$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (300 - 2.326 * 1831.333^{1/2}) / 2$ $= 100.23$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -1.44$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Beryllium, total (ug/L) at MW90-7
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|---|
| 1 | $\text{PL} = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Cadmium, total (ug/L) at MW90-7****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 1.4 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Chromium, total (ug/L) at MW90-7****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Cobalt, total (ug/L) at MW90-7
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 102.1 / 26$ $= 3.927$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((457.33 - 10424.41/26) / (26-1))^{1/2}$ $= 1.502$ | Compute background sd. |
| 3 | $SCL = \bar{X} + F * S$ $= 3.927 + 6.5 * 1.502$ $= 13.689$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = -0.131$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 1989.333$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 1989.333^{1/2}) / 2$ $= 110.628$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = -0.296$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Copper, total (ug/L) at MW90-7
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|---|
| 1 | $\text{PL} = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Lead, total (ug/L) at MW90-7****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---------------------------------|---|
| 1 | $PL = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Nickel, total (ug/L) at MW90-7****Normal Control Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 896.5 / 26$ $= 34.481$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((33870.35 - 803712.25/26) / (26-1))^{1/2}$ $= 10.878$ | Compute background sd. |
| 3 | $SCL = \bar{X} + F * S$ $= 34.481 + 6.5 * 10.878$ $= 105.189$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | S = -1.889 | Sen's estimator of trend. |
| 6 | var(S) = 2058.333 | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 2058.333^{1/2}) / 2$ $= 109.736$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | LCL(S) = -3.136 | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Selenium, total (ug/L) at MW90-7****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 6.2 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Silver, total (ug/L) at MW90-7****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Thallium, total (ug/L) at MW90-7****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Vanadium, total (ug/L) at MW90-7****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 23.1 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Zinc, total (ug/L) at MW90-7
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 15.0 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Antimony, total (ug/L) at MW91-19
Nonparametric Prediction Limit

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Arsenic, total (ug/L) at MW91-19
Nonparametric Prediction Limit

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Barium, total (ug/L) at MW91-19
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 11399.0 / 30$ $= 379.967$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((4.68 \times 10^6 - 1.30 \times 10^8 / 30) / (30-1))^{1/2}$ $= 110.361$ | Compute background sd. |
| 3 | $SCL = \bar{X} + F * S$ $= 379.967 + 6.5 * 110.361$ $= 1097.315$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 30 * (30-1) / 2$ $= 435$ | Number of sample pairs during trend detection period. |
| 5 | $S = -5.982$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 3140.667$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (435 - 2.326 * 3140.667^{1/2}) / 2$ $= 152.324$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $LCL(S) = -14.164$ | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Beryllium, total (ug/L) at MW91-19
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---------------------------------|---|
| 1 | $PL = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Cadmium, total (ug/L) at MW91-19****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 2.3 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Chromium, total (ug/L) at MW91-19****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Cobalt, total (ug/L) at MW91-19****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 2.4 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Copper, total (ug/L) at MW91-19****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Lead, total (ug/L) at MW91-19****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---------------------------------|---|
| 1 | $PL = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Nickel, total (ug/L) at MW91-19****Normal Control Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 147.6 / 26$ $= 5.677$ | Compute background mean. |
| 2 | $S = \left(\frac{\text{sum}[X^2] - \text{sum}[X]^2 / N}{N-1} \right)^{1/2}$ $= \left(\frac{911.6 - 21785.76/26}{26-1} \right)^{1/2}$ $= 1.717$ | Compute background sd. |
| 3 | $SCL = \bar{X} + F * S$ $= 5.677 + 6.5 * 1.717$ $= 16.836$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | S = -0.269 | Sen's estimator of trend. |
| 6 | var(S) = 1991.0 | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 1991.0^{1/2}) / 2$ $= 110.606$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | LCL(S) = -0.426 | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Selenium, total (ug/L) at MW91-19****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Silver, total (ug/L) at MW91-19****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Thallium, total (ug/L) at MW91-19****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Vanadium, total (ug/L) at MW91-19****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Zinc, total (ug/L) at MW91-19****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 18.1 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Antimony, total (ug/L) at MW91-20****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Arsenic, total (ug/L) at MW91-20****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Barium, total (ug/L) at MW91-20****Normal Control Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 4557.0 / 26$ $= 175.269$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((814881.0 - 2.08 \times 10^7 / 26) / (26-1))^{1/2}$ $= 25.439$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 175.269 + 6.5 * 25.439$ $= 340.626$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | $S = 3.611$ | Sen's estimator of trend. |
| 6 | $\text{var}(S) = 2051.667$ | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 2051.667^{1/2}) / 2$ $= 109.822$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | $\text{LCL}(S) = 1.31$ | One-sided lower confidence limit for slope. |
| 9 | $\text{LCL}(S) > 0$ | Significant increasing trend. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Beryllium, total (ug/L) at MW91-20****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|---|
| 1 | $\text{PL} = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | $\text{Conf} = 0.99$ | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Cadmium, total (ug/L) at MW91-20****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Chromium, total (ug/L) at MW91-20****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Cobalt, total (ug/L) at MW91-20****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Copper, total (ug/L) at MW91-20****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Lead, total (ug/L) at MW91-20****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Nickel, total (ug/L) at MW91-20****Normal Control Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ = 112.5 / 26 = 4.327 | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ = ((496.75 - 12656.25/26) / (26-1)) ^{1/2} = 0.632 | Compute background sd. |
| 3 | SCL = $\bar{X} + F * S$ = 4.327 + 6.5 * 0.632 = 8.432 | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ = 26 * (26-1) / 2 = 325 | Number of sample pairs during trend detection period. |
| 5 | S = 0.0 | Sen's estimator of trend. |
| 6 | var(S) = 1239.333 | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ = (325 - 2.326 * 1239.333 ^{1/2}) / 2 = 121.558 | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M ₁ th largest slope estimate. When M ₁ is not an integer, interpolation is used. |
| 8 | LCL(S) = -0.072 | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Selenium, total (ug/L) at MW91-20
Normal Control Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 154.9 / 26$ $= 5.958$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((1359.45 - 23994.01/26) / (26-1))^{1/2}$ $= 4.179$ | Compute background sd. |
| 3 | $\text{SCL} = \bar{X} + F * S$ $= 5.958 + 6.5 * 4.179$ $= 33.121$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$ | Number of sample pairs during trend detection period. |
| 5 | S = -0.033 | Sen's estimator of trend. |
| 6 | var(S) = 1649.0 | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (325 - 2.326 * 1649.0^{1/2}) / 2$ $= 115.273$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | LCL(S) = -0.323 | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Silver, total (ug/L) at MW91-20
Nonparametric Prediction Limit

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|---|
| 1 | $\text{PL} = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Thallium, total (ug/L) at MW91-20****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Vanadium, total (ug/L) at MW91-20****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 22.4 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Zinc, total (ug/L) at MW91-20****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 14.6 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Antimony, total (ug/L) at SW-3****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Arsenic, total (ug/L) at SW-3****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|---------------------------------|---|
| 1 | $PL = \text{median}(X)$ $= 4.0$ | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Barium, total (ug/L) at SW-3****Normal Control Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|--|--|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 7292.0 / 25$ $= 291.68$ | Compute background mean. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((2.23 \times 10^6 - 5.32 \times 10^7/25) / (25-1))^{1/2}$ $= 64.277$ | Compute background sd. |
| 3 | $SCL = \bar{X} + F * S$ $= 291.68 + 6.5 * 64.277$ $= 709.478$ | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | $N' = N * (N-1) / 2$ $= 25 * (25-1) / 2$ $= 300$ | Number of sample pairs during trend detection period. |
| 5 | S = 4.948 | Sen's estimator of trend. |
| 6 | var(S) = 1832.333 | Variance estimate for slope. |
| 7 | $M_1(S) = (N' - Z_{.99} * \text{var}(S)^{1/2}) / 2$ $= (300 - 2.326 * 1832.333^{1/2}) / 2$ $= 100.217$ | Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used. |
| 8 | LCL(S) = -2.158 | One-sided lower confidence limit for slope. |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Beryllium, total (ug/L) at SW-3****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Cadmium, total (ug/L) at SW-3****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Chromium, total (ug/L) at SW-3****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Cobalt, total (ug/L) at SW-3****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Copper, total (ug/L) at SW-3****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Lead, total (ug/L) at SW-3****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Nickel, total (ug/L) at SW-3****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 7.6 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Selenium, total (ug/L) at SW-3****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Silver, total (ug/L) at SW-3****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Thallium, total (ug/L) at SW-3****Nonparametric Prediction Limit**

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Vanadium, total (ug/L) at SW-3****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 24.5 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Worksheet 2 - Intra-Well Control Charts / Prediction Limits**Zinc, total (ug/L) at SW-3****Nonparametric Prediction Limit**

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|--------------------|------------------------|---|
| 1 | PL = max(X) = 22.4 | Compute nonparametric prediction limit as largest background measurement. |
| 2 | Conf = 0.99 | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

Attachment 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

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 |
|----------------------------|-------|---------|---|-------|-------|--------|---------|---------|----------|-------|
| Bis(2-ethylhexyl)phthalate | ug/L | MW90-14 | 4 | 3.000 | 0.000 | 1.176 | 3.000 | 3.000 | 6.000 | |
| Bis(2-ethylhexyl)phthalate | ug/L | MW90-4 | 4 | 5.750 | 5.500 | 1.176 | 0.000 | 12.220 | 6.000 | |
| Bis(2-ethylhexyl)phthalate | ug/L | MW90-7 | 4 | 6.750 | 7.500 | 1.176 | 0.000 | 15.572 | 6.000 | |
| Bis(2-ethylhexyl)phthalate | ug/L | MW91-19 | 4 | 5.500 | 5.000 | 1.176 | 0.000 | 11.381 | 6.000 | |

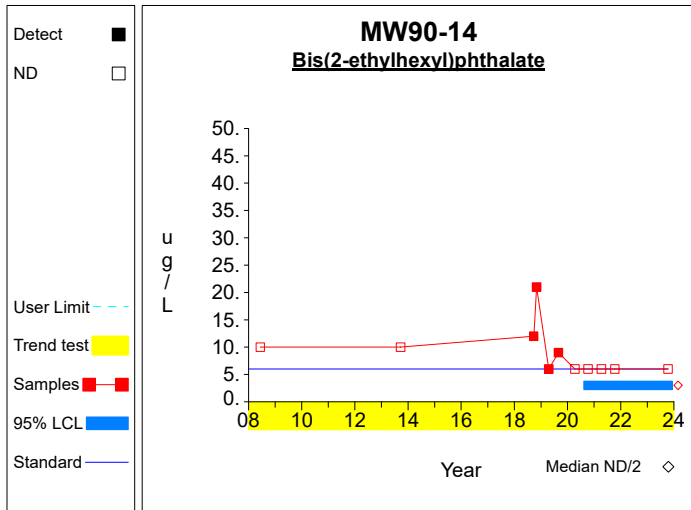
* - Insufficient Data

** - Significant Exceedance

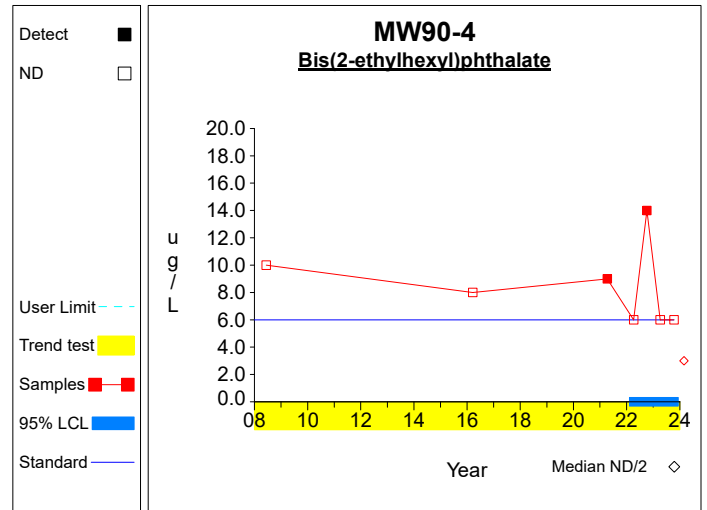
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

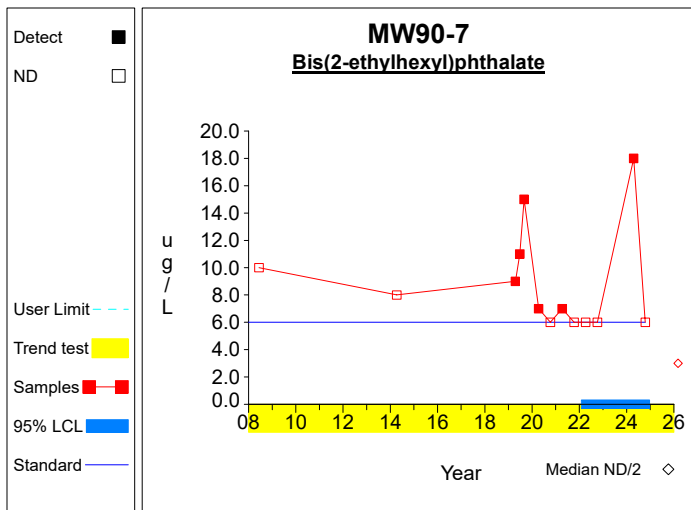
Confidence Limits (Assessment)



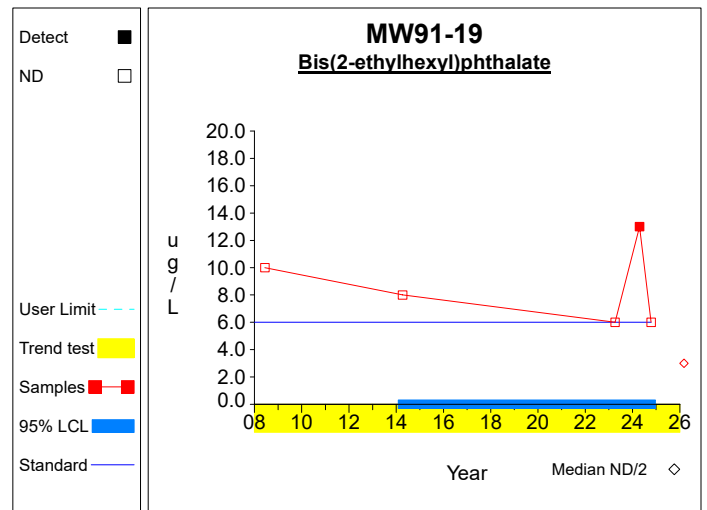
Graph 1



Graph 2



Graph 3



Graph 4

Worksheet 6 - Assessment Monitoring
Bis(2-ethylhexyl)phthalate (ug/L) at MW90-14

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 12.0 / 4$ $= 3.0$ | Compute the mean of the last 4 measurements. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((36.0 - 144.0/4) / (4-1))^{1/2}$ $= 0.0$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 3.0 - 2.353 * 0.0/4^{1/2}$ $= 3.0$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 3.0 + 2.353 * 0.0/4^{1/2}$ $= 3.0$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 11 * (11-1) / 2$ $= 55$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.0$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 120.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (55 \pm 2.576 * 120.667^{1/2}) / 2$ $= [13.352, 41.648]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-3.605, 0.0]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Bis(2-ethylhexyl)phthalate (ug/L) at MW90-4

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 23.0 / 4$ $= 5.75$ | Compute the mean of the last 4 measurements. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((223.0 - 529.0/4) / (4-1))^{1/2}$ $= 5.5$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 5.75 - 2.353 * 5.5/4^{1/2}$ $= 0.0$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 5.75 + 2.353 * 5.5/4^{1/2}$ $= 12.22$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 7 * (7-1) / 2$ $= 21$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.0$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 27.667$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (21 \pm 2.576 * 27.667^{1/2}) / 2$ $= [3.725, 17.275]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-3.845, 0.883]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Bis(2-ethylhexyl)phthalate (ug/L) at MW90-7

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 27.0 / 4$ $= 6.75$ | Compute the mean of the last 4 measurements. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((351.0 - 729.0/4) / (4-1))^{1/2}$ $= 7.5$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 6.75 - 2.353 * 7.5/4^{1/2}$ $= 0.0$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 6.75 + 2.353 * 7.5/4^{1/2}$ $= 15.572$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 13 * (13-1) / 2$ $= 78$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.0$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 223.333$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (78 \pm 2.576 * 223.333^{1/2}) / 2$ $= [19.752, 58.248]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-2.357, 0.652]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

Worksheet 6 - Assessment Monitoring
Bis(2-ethylhexyl)phthalate (ug/L) at MW91-19

| <u>Step</u> | <u>Equation</u> | <u>Description</u> |
|-------------|--|---|
| 1 | $\bar{X} = \text{sum}[X] / N$ $= 22.0 / 4$ $= 5.5$ | Compute the mean of the last 4 measurements. |
| 2 | $S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((196.0 - 484.0/4) / (4-1))^{1/2}$ $= 5.0$ | Compute sd of the last 4 measurements. |
| 3 | $\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 5.5 - 2.353 * 5.0/4^{1/2}$ $= 0.0$ | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | $\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 5.5 + 2.353 * 5.0/4^{1/2}$ $= 11.381$ | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | $N' = N * (N-1) / 2$ $= 5 * (5-1) / 2$ $= 10$ | Number of sample pairs during trend detection period. |
| 6 | $S = 0.0$ | Sen's estimator of trend. |
| 7 | $\text{var}(S) = 8.0$ | Variance estimate for slope. |
| 8 | $M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (10 \pm 2.576 * 8.0^{1/2}) / 2$ $= [1.357, 8.643]$ | Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used. |
| 9 | $\text{CL}(S) = [-13.075, 0.866]$ | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

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 |

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 |

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 | |

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

| 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
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

| 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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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 | |

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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 |

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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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Work Order: 1FJ0440

Determination of Conventional Chemistry Parameters - Quality Control
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| 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) | | Source: 1FJ0861-02 | | 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) | | Source: 1FJ0861-02 | | 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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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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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 | " | 8.800000 | 0.199 | 103 | 80-120 |
| Magnesium, total | 30.7 | " | 8.800000 | 21.0 | 110 | 80-120 |

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

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Audubon County Landfill
1881 215th St
Audubon, IA 50025

October 19, 2022
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Work Order: 1FJ0440

Certified Analyses Included In This Report

| Method/Matrix | Analyte | Certifications |
|--------------------------------|-------------------------|----------------|
| <i>300.0 in Water</i> | Chloride | KS-NT,SIA1X |
| <i>EPA 410.4 in Water</i> | COD, total | KS-NT,SIA1X |
| <i>EPA 6010B in Water</i> | Boron, total | KS-NT,SIA1X |
| | Iron, total | KS-NT,SIA1X |
| | Magnesium, total | KS-NT,SIA1X |
| <i>EPA 6020A in Water</i> | 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 |
| <i>EPA 7470A in Water</i> | Mercury, total | KS-NT,SIA1X |
| <i>EPA 8260B in Water</i> | 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 |
| <i>EPA 9010B in Water</i> | Cyanide, total | KS-NT,SIA1X |
| <i>SM 5210 B in Water</i> | BOD (5 day) | SIA1X |
| <i>USGS I-1750-85 in Water</i> | Solids, total dissolved | KS-NT,SIA1X |
| <i>USGS I-3765-85 in Water</i> | Solids, total suspended | SIA1X,KS-NT |

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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



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



1 F J 0 4 4 0

Audubon County Landfill
 PM: Sue Thompson

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 1FJ0440

Temperature 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@ice 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 hg-t-7470 mo-t-6020 pb-t-6020 tds-t-1750-85 zn-t-6020 | <u>01</u> |

Relinquished By Jamie Anderson Date/Time 10-5-22 9:00am

Relinquished By Amy Hochstetler Date/Time 10-6-22 8:10
 Received for Lab By _____ Date/Time _____

Received By _____ Date/Time _____

Remarks: