Loudon County Solid Waste Disposal Commission
October 16th, 2025
6:00PM
Loudon County Annex

Roll Call

Public Comment

LCSWDC:
- September 2025 Minutes
- Invoices to be Approved
- 2025-26 Budget
- Vulture Update
- 1st Semi Annual Ground Water Monitoring Report
- 3rd Quarter 2025 LFG Monitoring Report
- Module C & D Closure Update
- Cell A Leachate Disconnect Update
- Leachate Storage Tank Update
- New Borrow Pit Update
- Storm Water Ponds Update
- 2024 & 2025 Audit Update
- Republic Fee Discrepancy
- Legal Update

Republic:
- Operations
- Engineering Report
- Airspace Utilization Report
- TDEC Inspections
- Host and Security Fee Letter
- LCSWDC Financial Information

Action Items

Adjourn

Loudon County Solid Waste Disposal Commission Meeting Minutes

Date: September 19, 2025
Meeting Type: Regular Commission Meeting
Location: Courthouse Annex Building, Loudon, Tennessee
Time: 6:00 pm EST
Chairman: Mr. Adam Waller

Attendees:

- **Commission Members Present:** Ms. Monty Ross, Mr. Gary Hendrix, Chairman Mr. Adam Waller, Mr. Andy Lawson, Dr. Steve Bartelle
- **Legal Representation:** Ms. Elizabeth Murphy, telephone
- **Republic Services:** Mr. David Hollinshead
- **Public:** Multiple residents present including Mr. Brian Viar, Mr. Richard Anklen, Ms Bonnie Coffey, Mr Jeff Kenny (Tennessee National Representative)

FINANCIAL MATTERS

Fee Calculation Discrepancy A $1,000 differential was identified between host fee and security fee calculations. The host fee was calculated at 5.5% of $517,000, while the security fee was calculated at 5% of $498,000, representing an $18,000 reduction. Mr Hollinshead committed to investigating this discrepancy and providing an explanation.

PUBLIC COMMENTS AND CONCERNS

Long-term Resolution Questions Mr. Brian Viar raised concerns about the lack of written information regarding long-term solutions discussed during the July 25th attorney meeting. He expressed frustration that discussions had shifted toward selling the landfill and permit to Republic Services rather than focusing on operational compliance issues.

Attorney Conflict of Interest Clarification Mr. Viar questioned whether Ms. Murphy should be excluded from sale discussions due to potential conflicts with the Murphysboro lawsuit. Ms. Murphy clarified that she formally withdrew from the Murphreesboro case months ago and stated that no conflict of interest exists, as she has consistently represented parties adverse to Republic Services and has never represented Republic in any capacity.

Opposition to Landfill Sale Mr. Viar expressed strong opposition to selling the landfill to Republic, arguing that the company has failed to comply with current permit requirements and contract obligations. He suggested that Republic's non-compliance might be intentional to force a sale, citing ongoing leachate and mud problems persisting over years.

LANDFILL SALE DISCUSSIONS

Current Status and Negotiations Ms. Murphy addressed community concerns about potential landfill sale rumors, clarifying that Republic may present a proposal that all governmental entities

must evaluate. She emphasized that any potential deal would require approval from all three governmental bodies (two cities and the county) and that her role is to negotiate the most protective terms possible.

Key Principles for Potential Sale

- Any proposal must be thoroughly evaluated for stakeholder benefit
- The deal cannot result in loss of regulatory leverage
- Terms must be protective of community interests
- No decision will be made without full governmental approval
- More information is expected by the October meeting

Regional Landfill Concerns Chairman Waller clarified that the landfill already operates under a 75-mile radius acceptance area per the 2020 contract, so regional status would not change. The current contract allows waste acceptance from this established geographic area.

ENGINEERING AND OPERATIONAL UPDATES

Engineering Representation Benefits Ms. Murphy highlighted the value of having independent engineering oversight through the commission's engineering consultant, Chris Cline with Canon and Canon. This representation has improved protection for stakeholders by providing expert review of complex technical documents and ensuring proper evaluation of compliance issues rather than rushed approvals.

Ongoing Infrastructure Projects

- Module C and D closure progressing on original 10 acres of 13-acre expansion
- Cell A leachate disconnect repair in progress with slip line installation
- Stainless steel perforated components being installed
- Chris Cline providing oversight for commission interests

Leachate Storage Improvements The shifted leachate storage tank has been repositioned and is undergoing recertification. As part of permit requirements, Republic must add 250,000 gallons of additional leachate storage capacity within the next year to meet 30-day supply requirements.

MOTIONS AND APPROVALS

Tennessee National Easement

Mr. Jeff Kenny from Tennessee National explained the request for a buffer easement between their developing property and the landfill to create a sight line barrier, building on the existing 100-foot setback.

- **Motion:** Approve 50-foot permanent easement for Tennessee National to construct sight barrier berm
- **Motion by:** Dr. Steve Bartell
- **Seconded by:** Mr. Gary Hendricks
- **Result:** Approved unanimously

Meeting Minutes Approval

- **Motion:** Approve May and August meeting minutes
- **Motion by:** Mr. Gary Hendricks
- **Seconded by:** Mr. Andy Lawson
- **Result:** Approved unanimously

Methamphetamine Cleanup Material Policy

- **Motion:** Prohibit acceptance of meth lab cleanup material from outside Loudon County while continuing to accept such material from within Loudon County
- **Motion by:** Mr. Gary Hendricks
- **Seconded by:** Mr. Andy Lawson
- **Result:** Approved unanimously

Discussion revealed that the landfill accepted five tons of certified meth lab cleanup material in 2024 from Monroe County. The material must be professionally certified as cleaned and is handled under asbestos protocols with 24-hour notice, immediate burial, and proper manifesting.

WILDLIFE CONTROL UPDATE

Vulture Management Program Justin is implementing trap-based vulture control using roadkill and cattle carcasses as bait rather than shooting due to safety concerns with stray bullets. The program focuses on trapping and euthanizing vultures, with ongoing coordination with surrounding property owners for additional access permissions. An update presentation is scheduled for the October meeting.

AUDIT AND ADMINISTRATIVE ISSUES

2024 Audit Status Chairman Waller reported communication issues with Vance CPA, the contracted audit firm. Despite having contracts for 2024 and 2025 audits at $10,000 each, there has been no contact from the firm for several months. The state finance department will be consulted in October to determine next steps for completing the required audit.

Engineering Report Recognition The commission acknowledged Stoddard's comprehensive engineering reports as valuable resources for understanding ongoing operations and technical issues.

September 2025 Action Items

Item	Responsible Party	Target Date	Status
Investigate fee calculation discrepancy	Staff/Republic	October	Pending
Complete Cell A leachate disconnect repair	Republic Services	Ongoing	In Progress
Recertify leachate storage tank	Republic Services	Ongoing	In Progress
Vulture control program update presentation	Justin USDA Staff	October	Scheduled
Resolve 2024 audit completion	Waller/State Finance	October	Critical
Begin 2025 audit process	New Auditor	TBD	Dependent on 2024 resolution
Engineering report inclusion in packets	Stoddard	Ongoing	Standard practice
Install additional leachate storage capacity	Republic Services	Within 1 year	Required
Complete borrow pit rezoning process	Republic/County	Ongoing	In Progress

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Next Meeting
Date: October 17, 2025
Time: 6:00 p.m.
Location: Loudon County Annex Building

Anticipated Discussion Items:

- Vulture control program effectiveness report
- 2024 audit resolution and next steps
- Engineering report on ongoing infrastructure projects
- Fee calculation discrepancy resolution
- Cell A leachate disconnect completion update

- Leachate storage tank recertification status

Meeting adjourned at approximately 6:45 p.m. by motion from Mr. Gary Hendricks, seconded by Dr. Steve Bartell. Motion approved.

Minutes respectfully submitted by Monty Ross, LCSWDC Interim Secretary
Chairman: Adam Waller, Loudon County Solid Waste Disposal Committee

Note: Full video of LCSWDC meeting available at: Loudon County Solid Waste Disposal Commission Meeting, September 19, 2025 (youtube.com)

	2024-2025 Budgeted	2024-2025 Unaudited	2025-2026 Proposed
REVENUE			
Hosting	$ 250,000.00	$ 306,441.18	$ 250,000.00
Security	$ 225,000.00	$ 277,492.01	$ 225,000.00
Investment Income	$ 25,000.00	$ 202,786.11	$ 25,000.00
	$ 500,000.00	$ 786,719.30	$ 500,000.00
EXPENSES			
Board and Membership Fees	$ 14,000.00	$ 6,425.00	$ 14,000.00
Social Security		$ 51.15	
Employer Medicare		$ 11.97	
Legal Services	$ 60,000.00	$ 56,634.93	$ 200,000.00
Legal Notices	$ 2,000.00	$ -	$ 2,000.00

*Legal Services and Notices are combined during 2024-25.

Other contracted Services			
10 Year Plan	$ 40,000.00	$ -	$ 40,000.00
Contracted Services	$ 40,000.00	$ -	$ 50,000.00
Engineering	$ 40,000.00	$ 41,425.00	$ 75,000.00
Audit	$ 10,500.00	$ 5,050.00	$ 21,000.00
Misc.	$ 400.00	$ -	$ 500.00
Office Supplies	$ 700.00	$ -	$ 1,000.00
Other Supplies and Materials	$ 1,200.00	$ -	$ 1,500.00
Travel	$ 1,500.00	$ -	$ 1,500.00
Building and Contents Insurance	$ 5,000.00	$ 5,092.00	$ 6,000.00
Trustee's Commission	$ 5,000.00	$ 5,264.62	$ 7,500.00

*represents 1% of the host fee and interest taken in...

	$ 220,300.00	$ 119,954.67	$ 420,000.00

September 29, 2025

Mr. Stoddard Pickrell
Environmental Manager
Matlock Bend Landfill
21712 Highway 72 North
Loudon, TN 37774

Dear Mr. Pickrell:

Subject: 1st Semiannual 2025 Groundwater Monitoring Report and Notification of SSIs
Matlock Bend Landfill
Permit# SNL #53-103-0203
CEC Project 313-710

Civil & Environmental Consultants, Inc. (CEC) has prepared this report for the 1st semiannual sampling event of 2025 for the Matlock Bend Landfill in general accordance with the site's Modified Groundwater Monitoring Plan (revised August 2024) and the March 14, 2025 Groundwater Quality Assessment Plan.

The Matlock Bend Landfill (MBLF) requested a 30-day extension for the submittal of this report in a phone call and follow-up e-mail correspondence to TDEC dated August 18, 2025. The TDEC approved the extension request in an e-mail also dated August 18, 2025. An extension request was made and approved on September 18, 2025; this was granted by TDEC the same day with a new deadline of September 29, 2025. The extension requests were made to allow for a verification resample event for certain preliminary SSIs noted in pertinent sections of this report, as well as the collection of additional indicator parameters to allow preparation of Piper and Stiff diagrams as an additional tool in examining groundwater and leachate quality. The additional sampling was completed on August 28, 2025.

The Matlock Bend Landfill is located on Tennessee Highway 72, approximately five miles west of Loudon, Tennessee. The site consists of 37.4 constructed acres of ridge-top and sloped hillside topography.

The groundwater monitoring network consists of eight monitoring wells: three downgradient wells associated with Phase I (MW-01, MW-1A, and MW-02), four downgradient wells associated with Phase II/IV and 2024 Expansion (MW-03, MW-05, MW-6R, and MW-7), and one upgradient well (MW-4R) used for both Phase I and Phase II/IV. The Spring location is also part of the existing

monitoring program. In accordance with the TDEC groundwater report review dated September 30, 2016, the facility is now monitored as one unit.

CEC conducted the current semiannual monitoring event on June 23-25, 2025. All routine semiannual monitoring wells, the Spring, and leachate were sampled during the event.

In addition, at the direction of TDEC in the Division's March 27, 2025 letter regarding the review of the 2nd Semiannual 2024 Groundwater Monitoring Report, an additional off-site spring to the southwest of the landfill near Route 72 was sampled. The TDEC letter requested sampling of a previous sample location referred to as "Purdy Spring". TDEC approved ceasing sampling of Purdy Spring in 2006 apparently based on the conclusion it was not needed and was too distant from the landfill. MBLF was unable to confirm the previously sampled Purdy Spring location. A spring was found during MBLF's May 2025 field reconnaissance in the general suspected vicinity. Because it could not be verified this was the Purdy Spring sampled prior to 2006, the June sample point was designated "Southwest Spring (SWS)". Note that the SWS is more than 700 feet from the landfill and is not used as a water supply.

The facility is currently monitored under both the detection and assessment monitoring portions of the TDSWM Rules. Monitoring wells MW-4R, MW-5, MW-6R, and MW-7 are in the detection monitoring program and monitoring wells MW-01, MW-1A, MW-02, MW-03, and the Spring are in the assessment monitoring program. The Groundwater Quality Assessment Plan dated March 14, 2025 summarized that Phase 1 of Assessment Monitoring has been completed for wells currently in assessment and that these wells are now in a Phase 2 Assessment Monitoring Program, as described in Section IV 1.(c) of the TDSWM Groundwater Monitoring Guidance for Solid Waste Landfill Units Policy (PN124).

The wells in detection monitoring are sampled for the list of parameters presented in Appendix I of Rule 0400-11-01-.04. The wells currently in the assessment-monitoring program are sampled for the list of parameters presented in Appendix II of Rule 0400-11-01-.04 during the 1st semiannual event of each year to fulfill the annual requirement present under Phase 2 of assessment monitoring which is in keeping with the analytical procedures described in Section 4.3 of the Modified Groundwater Monitoring Plan (revised August 2024).

In TDEC correspondence dated August 10, 2021 regarding review of the 1st 2021 Semiannual Groundwater Monitoring Report, TDEC requested that the Spring location be sampled annually for the Appendix I list of parameters and nitrate as part of the facility's Assessment monitoring program. The Spring has routinely been sampled annually during the 2nd Semiannual monitoring event since that time. However, the TDEC requested that the Spring location be sampled for the Appendix II list of parameters due to a past detection of nitrate above the GWPS). Therefore, Appendix II sampling of the Spring was completed during the June 2025 semiannual event.

Monitoring wells (MW-01, MW-1A, MW-02, MW-03, and MW-4R) are also routinely sampled for the 14 additional indicator parameters (Total Ca, Fe, Mg, K, Na, Dissolved Mn, COD, NH_3, TDS, Chloride, NO_3, SO_4, CN, and TOC) as described in Section 4.3 of the Modified Groundwater Monitoring Plan (revised August 2024) for wells monitoring the Phase I landfill unit.

The SWS was added as a screening location for this event and was sampled for the Appendix I list of parameters and the additional 14 indicator parameters described above.

The leachate sample collected as part of the routine groundwater-monitoring program meets the requirement in TDEC Rule 0400-11-01-.04(4)a(8)ii. The leachate sample is collected from a sample port on the leachate collection tank.

The samples collected from the monitoring points describe above were analyzed by Pace Laboratories in Mt. Juliet, Tennessee and reported between July 18 and 31, 2025.

Appendix A provides a potentiometric surface map (Figure 1) utilizing groundwater level data collected during the event. A field data summary table including groundwater flow directions and rates for each well is also included in Appendix A as Table 1.

In accordance with the TDEC comment letter dated April 8, 2019, the groundwater statistical analysis method has been modified for the facility from interwell to intrawell statistical evaluations for the Appendix I parameters. Data evaluations also include trend analysis for the 14 additional parameters required for the Phase I landfill unit. Historical data prior to 2017 had higher reporting limits and are no longer used for statistical analysis. In general, the first N=8 data collected between April 2017 and April 2020 are considered the established background data set and the current results are compared to the established background. The detections for barium at MW-05 (November 2019) and zinc at MW-02 (April 2020) have been considered outliers/anomalous high concentrations in the background data set in past reports and have been removed from the background data set to allow for more conservative statistical exceedance threshold criteria. In addition, as presented in a December 13, 2024 response to TDEC's 10/15/2024 Letter prepared by Eagon and Associates, Inc., the historical database file provided when CEC began preparing the routine semiannual reports in 2022 showed mostly non-detect values for beryllium, cadmium, and nickel at MW-02. However, reviews in late 2024 determined the actual laboratory reports contained in the semiannual reports show mostly low-level detections for these parameters. The files also showed lower background values for zinc than the actual lab data. The background data for MW-02 were corrected and are used starting with the 2nd 2024 semiannual event submittal.

Review of the background population for each analyte shall determine the percentage of non-detects.

If the analyte background contains less than 50% non-detects, and the background data are normally distributed, an intrawell Shewart-CUSUM Control Chart will be produced and used to determine if a there is a Statistically Significant Increase (SSI) over background. If the background data are determined to not be normally distributed, a non-parametric prediction limit analysis will be used. During non-parametric prediction limit analysis, the highest value from the background data is used to set the upper limit of the prediction interval.

If the analyte background contains greater than 50% non-detects, an intrawell prediction limit method shall be used to compare the populations. Once the percent background has been determined to be greater than 50% non-detect, the data set shall be tested for normality. If the data set is determined to be normally distributed, a parametric prediction limit analysis will be used. If the data set is determined to not be normally distributed, a non-parametric prediction limit analysis will be used. During parametric prediction limit analysis, the mean and the standard deviation are calculated for the raw or transformed background data. The number of comparison observations, K, is defined to be included in the interval. During non-parametric prediction limit analysis, the highest value from the background data is used to set the upper limit of the prediction interval.

The Double Quantification Rule is used to determine SSIs for volatile organic compounds as recommended in the US EPA Unified Guidance (March 2009). For wells with confirmed, repeated detections for a given VOC for two or more consecutive sampling events, the SSI is declared. For wells with an initial detection for a given VOC, a confirmatory resample is performed. If the initial detection is confirmed through resample (two successive quantified detections above the laboratory-reporting limit) or if a resample is not collected, the detected VOC is considered an SSI. If the result of the resample indicates that the VOC is not detected above the laboratory-reporting limit, the initial detection is not confirmed, so there is no SSI for the VOC in question. However, both laboratory results (the initial concentration and follow-up confirmatory concentration (i.e., ND)) will be kept in the data record unless there is substantiated evidence that the initial detection is an artifact due to field error, laboratory error, or other extrinsic influences.

A complete Appendix I analytical data summary for the event (Table 2) and the associated statistical charts and data outputs are included in Appendix B. The laboratory analytical data reports and associated field information logs are included as Appendix C.

The results of the current event analysis are summarized as follows:

Routine Detection Monitoring

Initial, unverified SSIs were determined as described below. Also described below are attempts made to verify the SSIs, and recommendations for further verification sampling.

Upgradient Well MW-04R

An initial (unconfirmed) SSI was indicated for the detected concentration of zinc at upgradient well MW-4R. Zinc was detected at a concentration of 0.096 mg/L at MW-4R. Zinc does not have a primary drinking water maximum contaminant level (MCL). However, the detected concentration is well below the 5.0 mg/L EPA secondary drinking water standard for zinc. The field information log for MW-4R indicated that the well purged dry after one well volume was evacuated and turbidity was elevated during the purging process. The well was left overnight to recharge and sampled the following day. The turbidity at time of sampling was also elevated at 201 NTU. A verification resample event was conducted on August 28, 2025 for certain well/constituent pairs detailed in this report; however, MW-4R was found dry at the time of the sampling. Therefore, the initial SSI could not be verified. It is planned that the detection of zinc at upgradient well MW-4R be verified during the next semiannual event.

Should the 2nd semiannual result reveal a verified SSI for zinc at MW-04R, appropriate notice will be made and the data evaluated as per Rule 0400-11-01-.04(7)(a)5(iii)(III).

Downgradient Well MW-01

An initial (unconfirmed) SSI was indicted for the detected concentration of lead at MW-01. Lead was detected at a concentration of 0.00261 mg/L at MW-01 just above the current reporting limit of 0.002 mg/L but below the 0.015 mg/L MCL for lead.

A redevelopment was performed at MW-01 in conjunction with the current monitoring event to reduce turbidity prior to sampling the well. The well redevelopment was performed over a period of two days with over 400 gallons of water purged from the well. However, turbidity values remained elevated throughout the redevelopment process. MW-01 was sampled the day after well development procedures were completed. The final turbidity at time of sampling was recorded at 77.7 NTU.

MW-01 was resampled on August 28, 2025. Lead was not detected (<0.002 mg/L); therefore, the SSI was not confirmed. The final turbidity value recorded at the time of sampling was 30.0 NTU which is lower than what was observed during the semiannual event indicating that the redevelopment may have had a positive effect.

Downgradient Well MW-02

A previously confirmed SSI occurred for the detected concentration of nickel at MW-02. Nickel was detected at a concentration of 0.04535 mg/L, slightly higher than the previous (December 2024) event result of 0.0383 mg/L. ASD information presented in the December 13, 2024 submittal indicated a lack of landfill influence on water quality and that the SSI for nickel is due to natural

variation, low pH, and possible variability associated with the change in recent years on the laboratory and samplers.

MW-02 was resampled for total and dissolved nickel on August 28, 2025. The concentration of total nickel reported for the resample (0.0435 mg/L) is generally consistent with recent observations at the well and confirms the statistical exceedance which has occurred in the past. The dissolved nickel concentration was reported at 0.0440 mg/L indicating that nickel is primarily in the dissolved phase in the sample collected from MW-02.

Downgradient Well MW-03

Initial (unconfirmed) SSIs were indicated for the detected concentrations of arsenic and lead at MW-03. Arsenic was detected at a concentration of 0.128 mg/L and slightly exceeded the 0.010 mg/l MCL. Lead was detected at a concentration of 0.00439 mg/L and does not exceed the 0.015 mg/L MCL/GWPS.

A previously confirmed SSI occurred for the detected concentration of cobalt at MW-03. Cobalt was detected at a concentration of 0.0575 mg/L. The detected concentration of cobalt is higher than the previous event and is above the 0.006 mg/L EPA Regional Screening Level (RSL), which is generally considered the default groundwater protection standard in the absence of a promulgated MCL. However, an ASD for cobalt was included as Appendix F of the 2nd Semiannual 2020 report indicating that cobalt is found at significant concentrations in borrow area soils used at the site for cover material. TDEC concurred with the findings of the ASD in the February 5, 2021 letter and indicated that SSIs or exceedances of the GWPS for cobalt shall continue to be noted in reports, but will not require further action, unless site conditions change. TDEC requested additional ASD information for cobalt at MW-03 in their October 15, 2024 letter regarding review of the 1st 2024 Semiannual Report. The detections of cobalt at MW-03 were addressed as part of the December 13, 2024 submittal where it was again concluded that the SSI for cobalt is due to natural variability and/or turbidity effects with a recommendation to examine the well for possible development to reduce turbidity (which was attempted during the current event – discussed below). That submittal is under TDEC review.

A redevelopment was attempted at MW-03 in conjunction with the current monitoring event to reduce turbidity prior to sampling the well. However, the low recharge rate and volume of water available at the well limited the ability to reduce turbidity throughout the redevelopment process. Turbidity values recorded during the redevelopment ranged from 188-454 NTU. MW-03 was purged and sampled the day after the redevelopment activities with a lower final turbidity value of 33.8 NTU.

MW-03 was resampled for total and dissolved arsenic, cobalt, and lead on August 28, 2025. The final turbidity value recorded at the time of sampling was 2.88 NTU indicating that the

redevelopment appeared to have a positive effect. Arsenic was non-detect (<0.002 mg/L) and the initial SSI was not confirmed. Total lead was also reported as non-detect (<0.002 mg/L) and the initial SSI was not confirmed. Total cobalt was reported at a much lower concentration of 0.0117 mg/L, which is below the 0.0183 mg/L site-specific background based GWPS proposed for use in the March 14, 2025 Groundwater Quality Assessment Plan currently under review by the Division. An SSI for cobalt is still being declared based on the control chart evaluation.

Routine Phase I Landfill Additional Parameter Trend Analysis

The results of the additional water quality parameters (Ca, Fe, Mg, K, Na, Dissolved Mn, COD, NH_3, TDS, Chloride, NO_3, SO_4, CN, and TOC) required for the Phase I landfill unit wells (MW-01, MW-1A, MW-02, and MW-03) are evaluated for statistically significant trends using the Sen's Slope Test. Upgradient well MW-4R is also sampled for these parameters to establish upgradient/background concentrations for these parameters.

Nearly all of the parameter/well combinations show no trend or a downward trend. Statistically significant increasing trends were identified in the available data at MW-1A (potassium), MW-02 (chloride, dissolved manganese and sodium), and MW-03 (dissolved manganese). These statistically significant increasing trends are consistent with recent events. A new statistically increasing trend in calcium is noted for upgradient well MW-4R but the concentrations are considered low for natural water (<50 mg/L).

As previously discussed, the field information log for MW-4R indicated that the well purged dry after one well volume was evacuated and turbidity was elevated during the purging and sampling process. It is likely that the conditions at the well contributed to the increased detection of calcium at MW-4R. The well was found dry during the August 28, 2025 resample event which prevented sample collection for confirmation purposes. It is planned that the detection and trend for calcium will be verified during the next semiannual event.

Although potassium at MW-1A exhibits an increasing trend when considering all data collected from April 2017 to the current event, the time series graph indicates that more recent event results remain generally lower than or consistent with what was observed during the 2019 and 2020 semiannual monitoring events. The trend in concentrations of potassium at MW-1A were further evaluated as part of the December 13, 2024 submittal which indicated that there was some undefined, short-term influence on groundwater quality at MW-1A in 2019-2020 which is no longer occurring.

The reported concentrations of chloride, dissolved manganese, and sodium at MW-02 are generally the lowest concentrations routinely reported for these parameters identified in site monitoring wells. These trends in concentrations were also further evaluated as part of the

December 13, 2024 submittal which concluded that the results and trends are not an indication of landfill or other influences on groundwater quality.

As documented in the December 13, 2024 submittal, dissolved manganese concentrations at MW-03 during the background period ranged from about 2 to 4 mg/L. More recent data have been higher, mostly between 4 and 9 mg/L since 2021 and variability coincided with a change in laboratory, which may be a factor. However, upgradient well MW-4R has similar detections of manganese as MW-03 indicating that manganese occurs naturally in groundwater at these levels. It should be noted that the two most recent event results for manganese at MW-03 (2.15 mg/L and 2.93 mg/L) are lower and more consistent with what was observed in the background period established for MW-03.

A complete analytical data summary for the additional 14 parameters collected during the event (Table 3a) and the associated time series graphs and trend analyses are included in Appendix B. The laboratory analytical data reports are included as Appendix C.

Assessment Monitoring Program Update

In accordance with TDEC correspondence dated February 5, 2021 regarding the Division's review of the 2nd 2020 semiannual report, Matlock Bend initiated assessment monitoring for the confirmed detection of NO_3 (nitrate-nitrogen or NO3 (as N)) at MW-1A above the 10 mg/L MCL/GWPS. Nitrate-nitrogen is included in the analysis of the 14 additional parameters routinely collected at the Phase I landfill monitoring wells as described in the previous section of this report. Nitrate-nitrogen declined in recent years and has been below MCL at MW-1A since 2021.

As documented in the 1st Semiannual 2021 Groundwater Monitoring Report dated July 21, 2021, a subset of monitoring points (MW-01, MW-1A, MW-02, MW-03, and MW-4R) were sampled for the full Appendix II list of parameters in June 2021 to fulfill the initial assessment-monitoring for the confirmed detection of nitrate-nitrogen at MW-1A above the established 10 mg/L US EPA Drinking Water MCL during both semiannual events of 2020. The results of the initial assessment-monitoring event as documented in the July 21, 2021 report indicated that no Appendix II inorganics (outside of what is also included in the Appendix I list) and no Appendix II VOCs, SVOCs, herbicides, or pesticides were detected at any location. Nitrate-nitrogen was detected at MW-1A, MW-01, and MW-02 during the initial assessment-monitoring event (June 2021), which was consistent with past events; however, the concentrations were all below the 10 mg/L MCL. Therefore, in accordance with TDEC Rule 0400-11-01-.04(7)6 (iii), after obtaining the results from the initial Appendix II sampling event, the facility resampled all wells within 90 days (i.e., 3rd Quarter 2021) and conducted analyses for the Appendix I list of parameters and for those constituents in Appendix II that are detected in response to the initial assessment-monitoring event. Because no Appendix II parameters were detected during the initial Appendix II event, the wells needed to be sampled strictly for the Appendix I list of parameters. The results of the 3rd Quarter

2021 assessment-monitoring event were submitted to TDEC on November 15, 2021. Nitrate-nitrogen was not detected above the 10 mg/L MCL at any location during the 3rd Quarter 2021 assessment-monitoring event.

As indicated in TDEC correspondence dated December 1, 2021, regarding the Division's review of the 3rd Quarter 2021 assessment-monitoring event report, MW-1A, MW-01, and MW-02 were entered into Phase 2 of assessment monitoring for detections of nitrate above background since the upgradient MW-04R has not had any detections of nitrate at the reporting limits of 0.25 mg/L and 0.1 mg/L. Phase 2 of assessment monitoring requires semiannual sampling, with one event consisting of sampling for the full Appendix II list of parameters, and one event consisting of sampling for the Appendix I list of parameters and any Appendix II parameters previously detected. Since assessment monitoring for the Appendix II list of parameters was initiated at the site during the 1st Semiannual Event of 2021, it was proposed that the future Phase 2 assessment-monitoring schedule consist of sampling MW-1A, MW-01, and MW-02 for the Appendix II list of parameters during the 1st semiannual event of each year, and the 2nd semiannual event to consist of the Appendix I list plus any previously detected Appendix II parameters. The TDEC accepted the Phase 2 assessment-monitoring schedule in their April 11, 2022 letter regarding review of the 2nd 2021 Semiannual Groundwater Report submittal. MW-03 was added to the assessment-monitoring program after the 1st Semiannual 2023 monitoring event for the confirmed SSI of nitrate above background based on results for upgradient MW-04R.

In TDEC correspondence dated August 10, 2021 regarding review of the 1st 2021 Semiannual Groundwater Monitoring Report, the Division requested that the Spring location be sampled annually for the Appendix I list of parameters and nitrate as part of the facility's assessment monitoring program. The Spring has routinely been sampled annually during the 2nd Semiannual monitoring event since that time. However, the TDEC requested that the Spring location be sampled for the Appendix II list of parameters while the facility is in assessment beginning with the current monitoring event.

No Appendix II parameters (outside of which are also included in the Appendix I detection monitoring parameter list) were detected at MW-1A, MW-01, MW-02, MW-03, and the Spring during the current annual Appendix II monitoring event.

Nitrate was detected at assessment wells MW-01 (1.28 mg/L), MW-1A (3.99 mg/L), MW-02 (5.37 mg/L), MW-03 (3.39 mg/L), and the Spring (6.69 mg/L) during the current event. The detected concentrations of nitrate reported for the event continue to be below the 10 mg/L MCL. The occurrence of nitrate in groundwater at the facility was also evaluated as part of the December 13, 2024 submittal which concluded that the elevated detections do not appear to be due to leachate migration because nitrate is not a leachate indicator parameter. However, potential sources include fertilizer, wastewater, and offsite adjacent operations, and further information is planned to be gathered on the nitrate source.

Initial Monitoring of the Southwest Spring

As discussed above, a screening sample was collected at the SWS during the semiannual event to fulfill the TDEC request. The results showed a very low-level detection for the VOC 1,4-dichlorobenzene (1.09 ug/L) just above the 1 ug/L detection limit. The MCL for 1,4-Dichlorobenzene is 75 ug/L. A resample was collected on August 28 which showed 1,4-dichlorobenzene was not detected (< 1 ug/L). There were no other VOC detections. Nitrate was not detected in the June 2025 sample or August 2025 resample. Results for other Appendix I parameters were generally similar to the Spring location. Note that, given the location of the SWS about 700 feet from the landfill limits and close to State Route 72, there are other possible influences on water quality at this location. MBLF will discuss the sample results and the need for further sampling with TDEC.

Supplemental Indicator Parameter Evaluation

As indicated previously, additional anion and cation data were collected to allow preparation of Piper and Stiff diagrams as an additional tool in examining groundwater and leachate quality. This evaluation is an established method that shows the general chemistry of water samples and the variability between sample points in relative concentrations of major cations and anions. To perform the evaluation, additional parameters were collected for the wells in assessment, the Spring location, and site leachate for both the December 2024 semiannual event and August 2025 resample event. Detection monitoring well MW-05 was included in December 2024 and the SWS was included in August 2025. The Piper and Stiff diagrams and a data summary (Table 4) for the additional indicator data collected August 28, 2025 are included in Appendix D.

The Piper diagrams show the leachate plots near the bottom of the diamond figure (sodium and bicarbonate dominant) and the wells and springs plot in the central area with a more balanced mix of cations and anions. This illustrates the general contrast in major ion chemistry of the groundwater versus leachate.

The shapes of the Stiff diagrams show the magnitude of concentrations in addition to the relative percentages of cations and anions. The leachate shows an elongated, flattened diamond shape due to the sodium and bicarbonate dominance. The groundwater data produce much smaller figures due to lower overall concentrations and more even shapes reflecting the more even relative distribution of cations and anions.

The December and August Piper and Stiff diagrams for the well and Spring results are also similar indicating the groundwater is not trending over time to more closely resemble leachate.

The above observations further support the conclusion in the December 2024 submittal that the statistical exceedances and increasing trends noted in recent semiannual reports are not due to leachate migration.

Conclusion

There were no new, confirmed statistical or GWPS exceedances for the 2025 first semiannual event. All of the wells with exceedances are in the assessment program. Therefore, there is no need for immediate follow up action based on these results before the next semiannual sampling event. The 14-day notification requirement of Rule 0400-11-01-.04(7)(a)5(iii)(I) for previously confirmed SSIs for nickel at MW-02 and cobalt at MW-03 was submitted separately on September 24, 2025. MBLF will discuss any comments or questions TDEC may have on the December 2024 submittal or March 2025 Assessment Plan after TDEC completes its review.

Should you have any questions or concerns, please do not hesitate to contact us at (615) 333-7797.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Michael Johnson, P.G.
Senior Project Manager

Kevin B. Wolfe, P.E.
Vice President

Enclosures: Appendix A - Potentiometric Surface Map & Field Data Summary
Appendix B - Analytical Data Summaries and Statistical Results
Appendix C - Laboratory Analytical Reports & Field Information Logs
Appendix D - Piper and Stiff Diagrams

cc: Jessica Preston, Senior Manager, Environmental Liability Management, Republic Services (Electronic)
Matlock Bend Landfill (Hard Copy)

Civil & Environmental Consultants, Inc.

1st Semiannual Groundwater Monitoring Report 2025

Matlock Bend Landfill
Loudon County, Tennessee
Permit No. SNL #53-103-0203

For Submittal to:
Tennessee Department of Environment and Conservation

Prepared by:
Civil & Environmental Consultants, Inc.
117 Seaboard Lane
Suite E-100
Franklin, TN 37067

Certification

I certify that I am a qualified groundwater professional who has received a baccalaureate or post-graduate degree in the natural sciences and am licensed as a Professional Geologist in the State of Tennessee. I have sufficient training and experience in groundwater hydrology that enables me to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective-action.

I further certify that this report was prepared by me or by a subordinate working under my direction.

Michael Johnson, P.G.

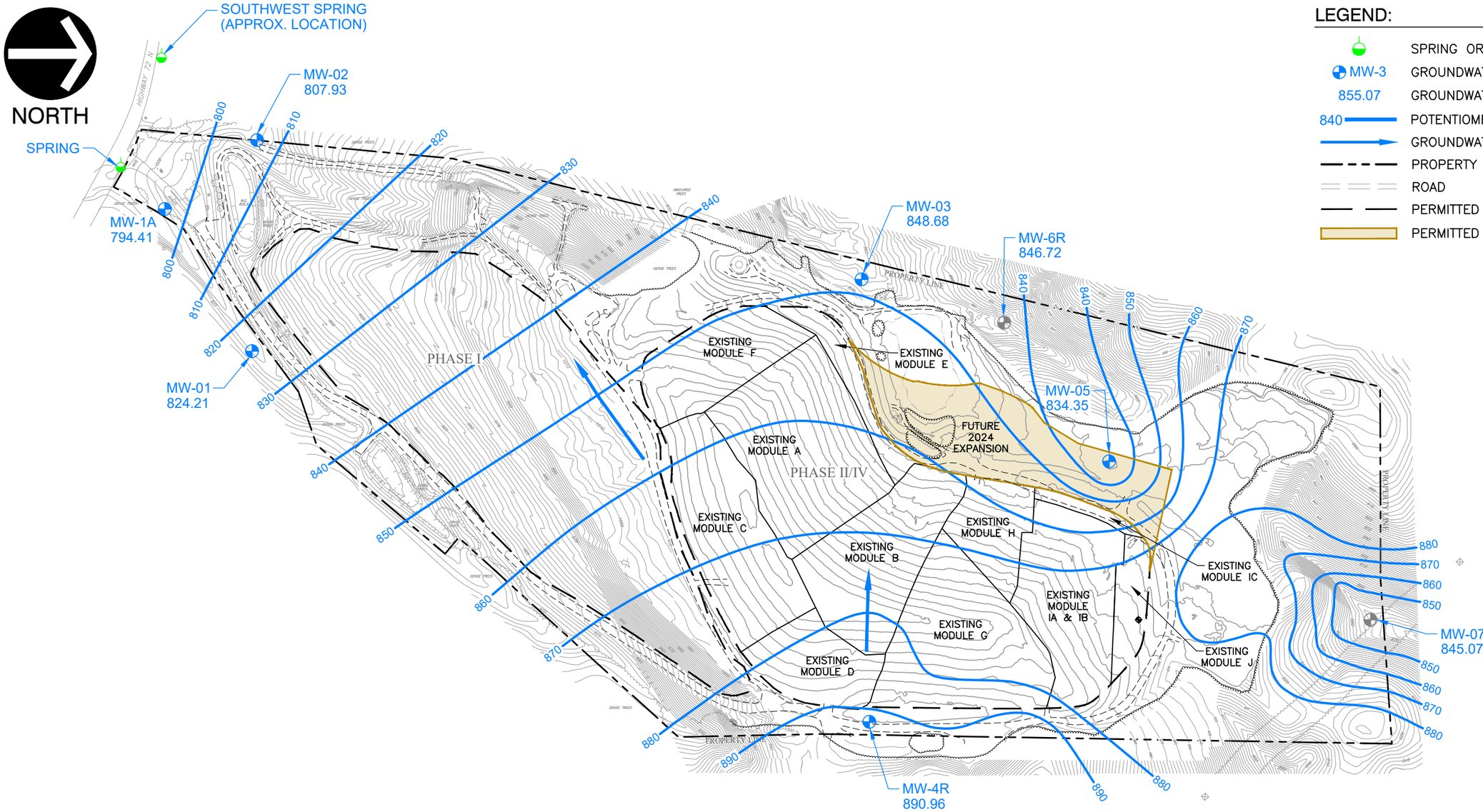
September 29, 2025
Date

APPENDIX A
POTENTIOMETRIC SURFACE MAP & FIELD DATA SUMMARY

Table 1
Field Data Summary
Matlock Bend Landfill
1st Semiannual 2025 Monitoring Event (June 23-25, 2025)

Well No.	Elevation TOC	Depth to GW (ft below TOC)	Water Elevation (fmsl)	Temperature (^{o}C)	pH (S.U.)	Cond. (umhos) uS/cm	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)	Contour Elevation [(a)] (fmsl)	Distance (ft)	Hydraulic Conductivity (ft/min) (k)	Effective Porosity (unitless) (n)	Hydraulic Gradient (ft/ft) (i)	Average Linear Velocity (ft/day)	Direction
MW-01	830.87	6.66	824.21	15.10	6.81	337.6	77.7	2.12	4	820	100	4.70E-06	0.18	4.21E-02	1.58E-03	SW
MW-1A*	805.13	10.72	794.41	15.20	7.28	9	6.74	5.72	-9.7	800	90	3.93E-06	0.18	6.21E-02	1.95E-03	S
MW-02	825.20	17.27	807.93	15.40	5.38	61.3	8.97	8.31	135	800	160	5.90E-06	0.18	4.96E-02	2.34E-03	S
MW-03	867.86	19.18	848.68	17.10	6.10	227	33.8	7.38	59.2	850	75	1.20E-05	0.18	1.76E-02	1.69E-03	SW
MW-4R**	992.32	101.36	890.96	25.20	-	150.20	201	3.9	-165.2	890	50	1.90E-05	0.18	1.92E-02	2.92E-03	W
MW-05	936.84	102.49	834.35	17.70	-	238.9	13.1	9.74	-72.5	840	100	2.20E-05	0.18	5.65E-02	9.94E-03	SW
MW-6R*	895.52	48.8	846.72	19.00	4.64	21.8	36	9.81	68.7	840	80	3.93E-06	0.18	8.40E-02	2.64E-03	N
MW-07*	874.18	29.11	845.07	14.70	5.69	19.2	2.55	8.19	50.4	850	150	3.93E-06	0.18	3.29E-02	1.03E-03	N
SW Spring	--	--	--	17.90	6.72	2555	6.32	9.05	104	--	--	--	--	--	--	--
Spring	--	--	--	18.70	6.96	1271	22.3	14.57	31.4	--	--	--	--	--	--	--
Leachate	--	--	--	30.60	7.76	13316	OR	1.53	0.1	--	--	--	--	--	--	--

*-The hydraulic conductivity for MW-1A, MW-6R and MW-7 is an average from monitoring wells MW-01, MW-02 and MW-03.
**-The hydraulic conductivity for MW-4R is taken from MW-04.
a -Contour elevation refers to interpreted contour nearest each well location used to determine hydraulic gradient.
- pH not available due to instrument error.
OR - Turbidity value over range of meter.
-- not applicable.



LEGEND:

- SPRING OR SURFACE WATER
- MW-3 — GROUNDWATER MONITORING WELL
- 855.07 — GROUNDWATER ELEVATION (fmsl)
- 840 — POTENTIOMETRIC SURFACE CONTOUR (fmsl)
- GROUNDWATER FLOW DIRECTION
- PROPERTY BOUNDARY
- ROAD
- PERMITTED LIMITS OF WASTE
- PERMITTED LIMITS OF WASTE 2024 EXPANSION

GROUNDWATER CONDITIONS

THE WATER LEVELS PRESENTED HEREIN ARE APPLICABLE TO THE LOCATION AND TIME OF MEASUREMENT JUNE 23, 2025. WATER LEVELS MAY FLUCTUATE THROUGH TIME.

POTENTIOMETRIC CONTOURS GENERATED FROM THESE DATA ARE CONSTRUCTED BY INTERPOLATION BETWEEN POINTS OF KNOWN STATIC WATER LEVEL ELEVATIONS AND USING KNOWLEDGE OF SPECIFIC SITE CONDITIONS. ACTUAL STATIC WATER LEVELS AT LOCATIONS BETWEEN THE MONITORING POINTS MAY DIFFER FROM THOSE DEPICTED.

REFERENCE:

1. TOPOGRAPHIC INFORMATION WITHIN THE LANDFILL LIMITS TAKEN FROM FIRMATEK DRONE SOLUTION. DATED MARCH 23, 2023, AS PROVIDED BY REPUBLIC.
2. TOPOGRAPHIC CONTOURS SHOWN WERE PROVIDED BY SOUTHERN RESOURCES MAPPING CORP., NORTHPORT, ALABAMA.

SCALE IN FEET

0 400’ 800’

*HAND SIGNATURE ON FILE

Civil & Environmental Consultants, Inc.
117 Seaboard Lane
Suite E-100
Franklin, TN 37067
Ph: 615.333.7797
www.cecinc.com

MATLOCK BEND LANDFILL
LOUDON, COUNTY TENNESSEE

JUNE 2025
POTENTIOMETRIC SURFACE MAP

DRAWN BY:	KLU	CHECKED BY:	MJJ	APPROVED BY:	MJJ*	FIGURE NO.:	1
DATE:	SEPTEMBER 2025	DWG SCALE:	1"=400'	PROJECT NO:	313-710		

P:\310-000\313-710\-CADD\DWG\2025\313-710-POTENTIOMETRIC MAP LOUDON COUNTY-MATLOCK BEND JUNE 2025.DWG\FIG 1}LS:(PCAMPBELL - 9/29/2025) - LP: 9/29/2025_5:35:23_PM

APPENDIX B
ANALYTICAL DATA SUMMARIES AND STATISTICAL RESULTS

Table 2
Summary of Appendix I List Results (mg/L)
Matlock Bend Landfill
1st Semiannual 2025 Monitoring Event (June 23-25, 2025) and
Verification Resample Event (August 28, 2025)

Parameter	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Fluoride	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	1,4 DCB
MCL/GWPS	0.006	0.01	2	0.004	0.005	0.1	0.006 [5]	1.3 [1]	4	0.015 [1]	0.002	0.1 [2]	0.05	0.10 [3]	0.002	0.086 [5]	5.0 [4]	0.075
MW-4R	<0.004	**0.00979**	**0.0687**	<0.002	<0.001	**0.00544**	**0.0299**	**0.014**	<0.15	**0.008**	<0.0002	**0.0284**	<0.002	<0.002	<0.002	**0.00538**	**0.096**	<0.001
MW-01	<0.004	<0.002	**0.0277**	<0.002	<0.001	**0.00212**	<0.002	<0.005	<0.15	**0.00261/(<0.002)**	**0.000350**	**0.00369**	<0.002	<0.002	<0.002	<0.005	<0.025	<0.001
MW-1A	<0.004	<0.002	**0.088**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.15	<0.002	<0.0002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.025	<0.001
MW-02	<0.004	<0.002	**0.0798**	**0.00269**	**0.00282**	<0.002	<0.002	<0.005	<0.15	<0.002	<0.0002	**0.0453/(0.0435)**	<0.002	<0.002	<0.002	<0.005	**0.400**	<0.001
MW-03	<0.004	**0.0128/(<0.002)**	**0.0662**	<0.002	<0.001	<0.002	**0.0575/(0.0117)**	<0.005	<0.15	**0.00439/(<0.002)**	**0.000904**	**0.0092**	<0.002	<0.002	<0.002	<0.005	<0.025	<0.001
MW-05	<0.004	<0.002	**0.0093**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.15	<0.002	<0.0002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.025	<0.001
MW-6R	<0.004	<0.002	**0.0072**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.15	<0.002	<0.0002	**0.00785**	<0.002	<0.002	<0.002	<0.005	<0.025	<0.001
MW-7	<0.004	<0.002	**0.0116**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.15	<0.002	<0.0002	**0.00348**	<0.002	<0.002	<0.002	<0.005	<0.025	<0.001
Spring	<0.004	<0.002	**0.1470**	<0.002	<0.001	<0.002	**0.0116**	<0.005	<0.15	<0.002	<0.0002	**0.00341**	<0.002	<0.002	<0.002	<0.005	**0.0346**	<0.001
Southwest Spring	<0.004	**0.0205/(0.0203)**	**0.4680**	<0.002	<0.001	<0.002	**0.0168/(0.0131)**	<0.005	**0.215**	<0.002	<0.0002	**0.042/(0.0334)**	<0.002	<0.002	<0.002	<0.005	<0.025	**0.00109/(<0.001)**

Notes:

Bold value indicates parameter detected above the reporting limit of the laboratory.

Shaded value indicates result is a calculated intrawell SSI for the current data.

Values in parenthesis indicate result of August 28, 2025 verification resample.

[1] - Action Level concentration from TN Division of Water Resources Rule 0400-45-01-.33.

[2] - MCL value obtained from TN Division of Water Resources Rule 0400-45-01-.06.

[3] - MCL value obtained from TN Division of Water Resources Rule 0400-45-01-.12 (EPA Secondary Drinking Water Standard).

[4] -GWPS referenced value obtained from EPA secondary drinking water standards.

[5] -GWPS referenced value obtained from EPA Regional Screening Level (THQ= 1) for tapwater.

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-04R

Parameter: Arsenic, Total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 100%
Future Samples (k) = 1
Recent Dates = 1
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.01
Confidence Level = 88.9%
False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	11/17/2017	<0.0025
	3/7/2018	<0.0025
	5/3/2018	<0.0025
	5/23/2018	<0.0025
	11/14/2018	<0.0025
	5/30/2019	<0.0025
	11/26/2019	<0.01
	4/10/2020	<0.0025

Date	Count	Mean	Significant
6/23/2025	1	0.00979	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-03

Parameter: Arsenic, Total

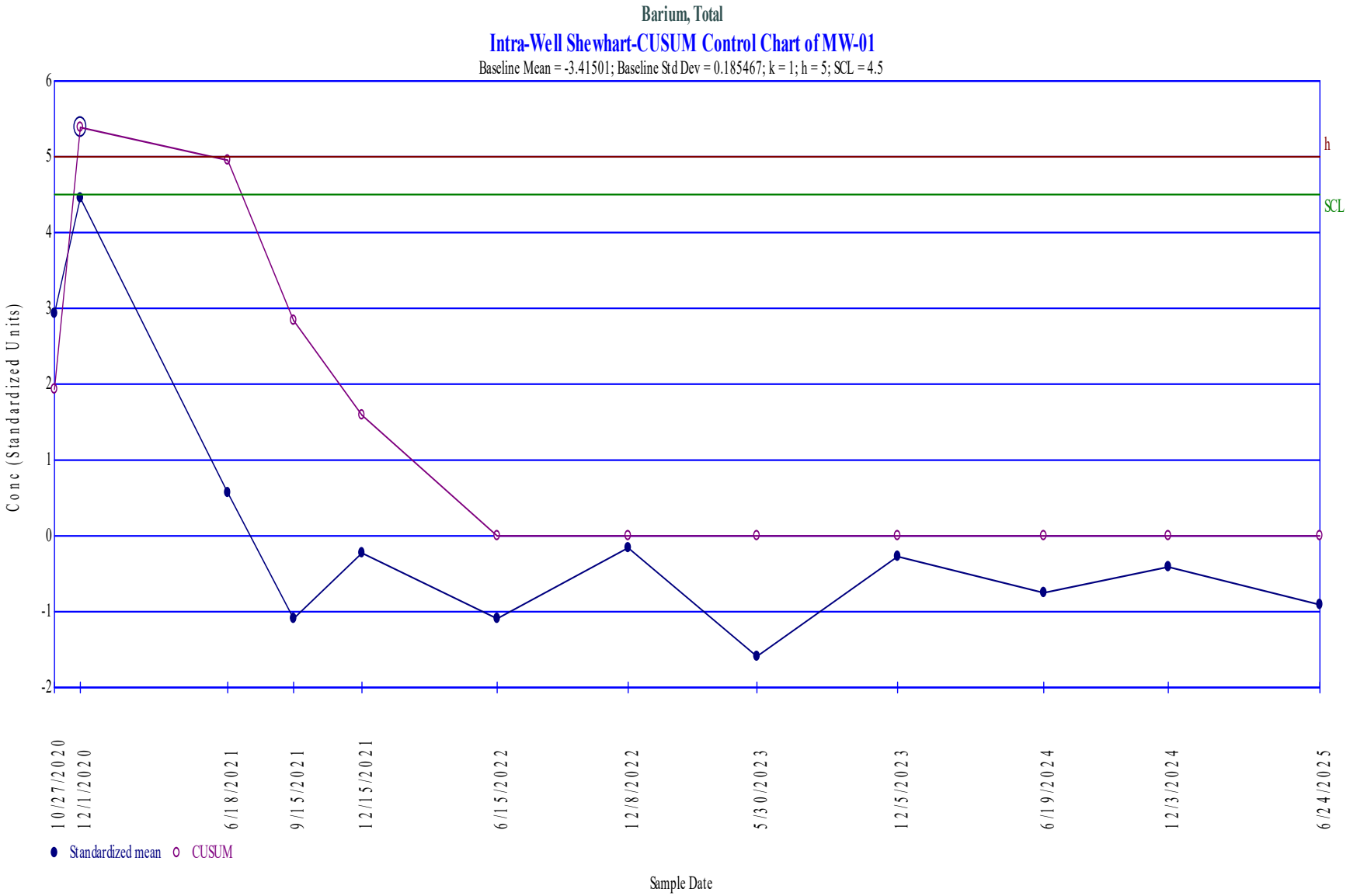
Original Data (Not Transformed)

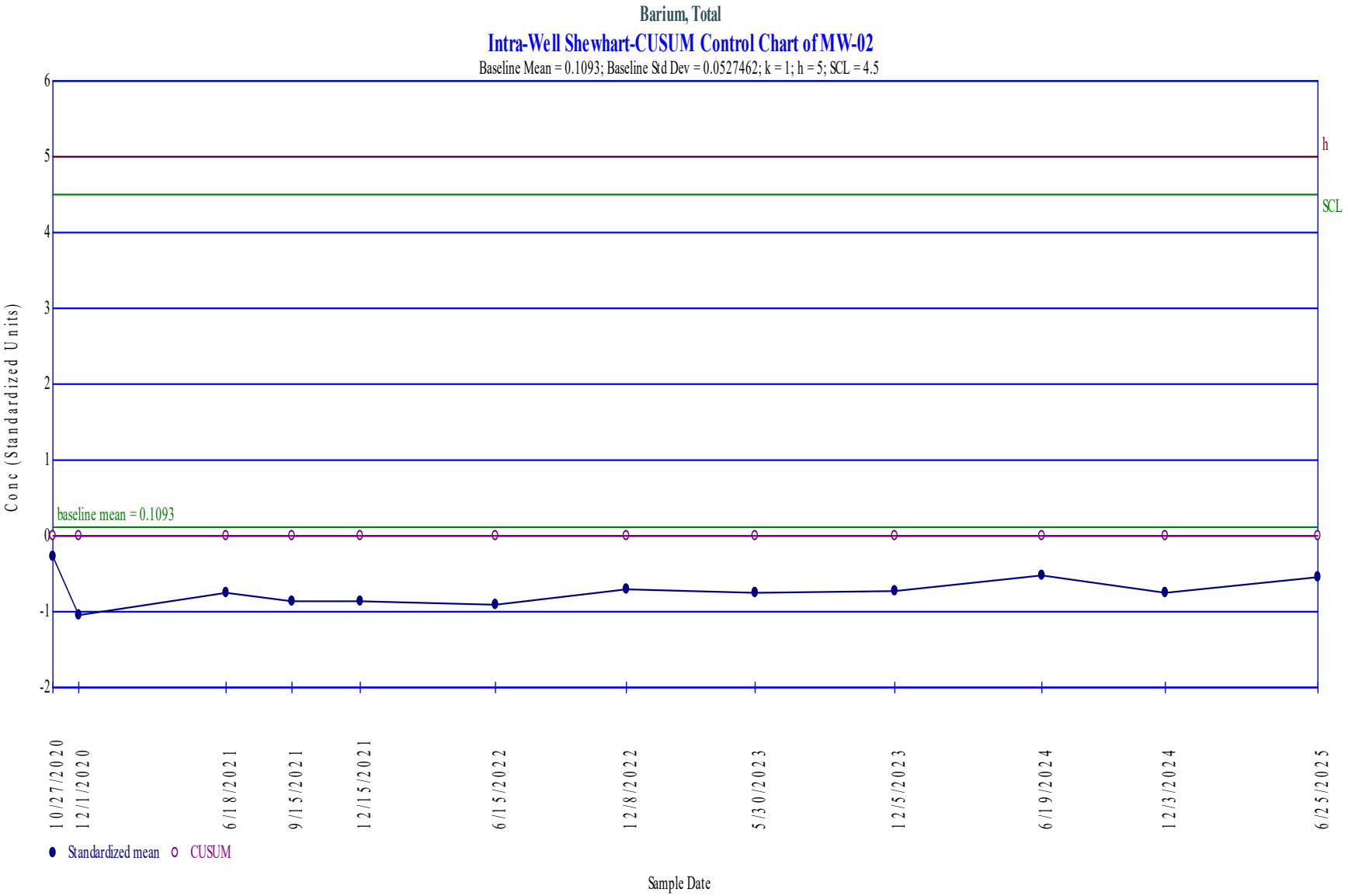
Non-Detects Replaced with Detection Limit

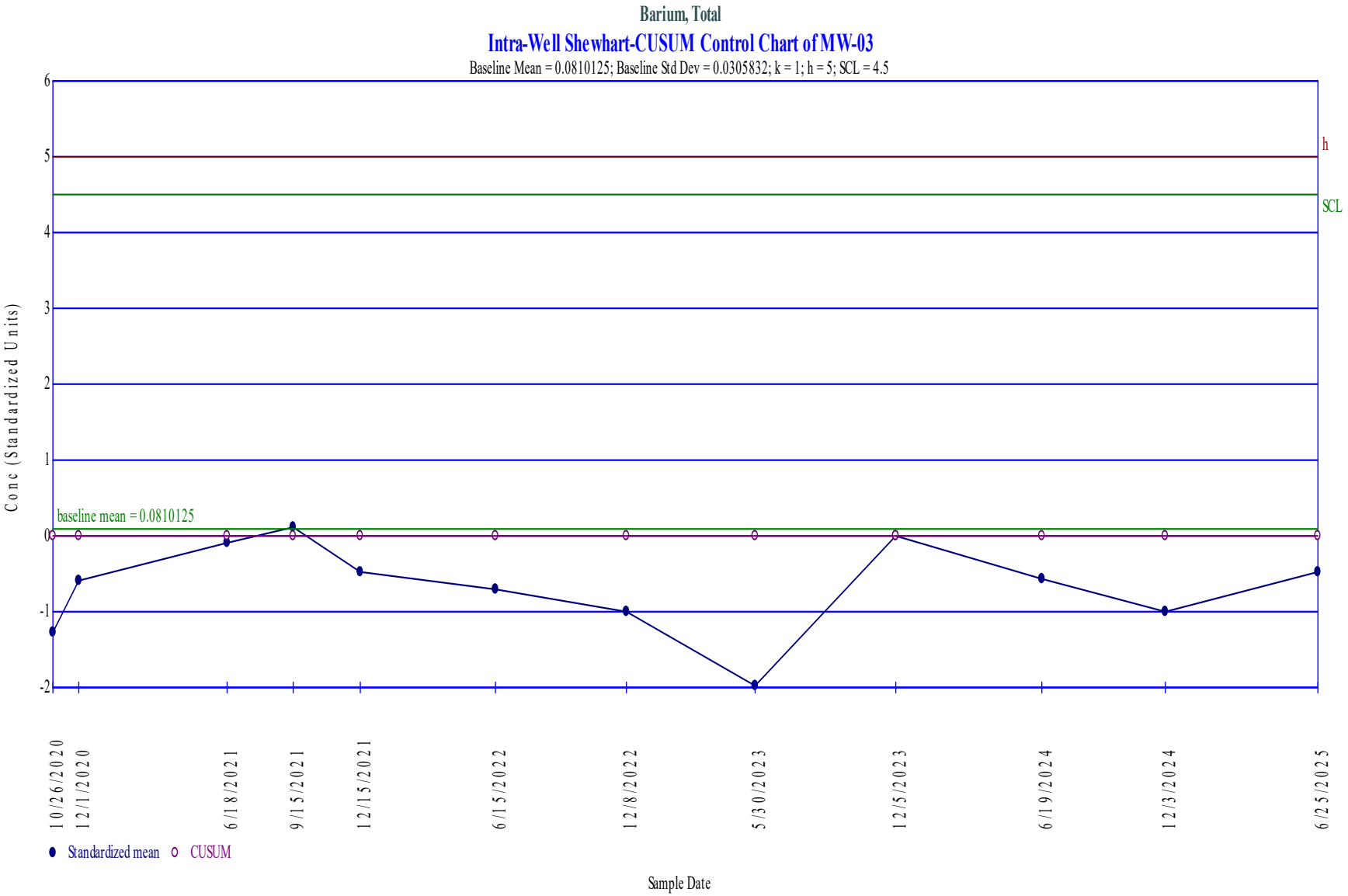
Total Percent Non-Detects = 100%
Future Samples (k) = 2
Recent Dates = 2
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.0025
Confidence Level = 80%
False Positive Rate = 20%

Baseline Measurements	Date	Value
	11/16/2017	<0.0025
	3/26/2018	<0.0025
	5/7/2018	<0.0025
	5/23/2018	<0.0025
	11/13/2018	<0.0025
	5/29/2019	<0.0025
	11/26/2019	<0.0025
	4/9/2020	<0.0025

Date	Count	Mean	Significant
8/28/2025	1	0.002	FALSE
6/25/2025	**1**	**0.0128**	**TRUE**


Barium, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-01
Baseline Mean = -3.41501; Baseline Std Dev = 0.185467; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
-2
h
SCL
10/27/2020
12/1/2020
6/18/2021
9/15/2021
12/15/2021
6/15/2022
12/8/2022
5/30/2023
12/5/2023
6/19/2024
12/3/2024
6/24/2025
Standardized mean
CUSUM
Sample Date

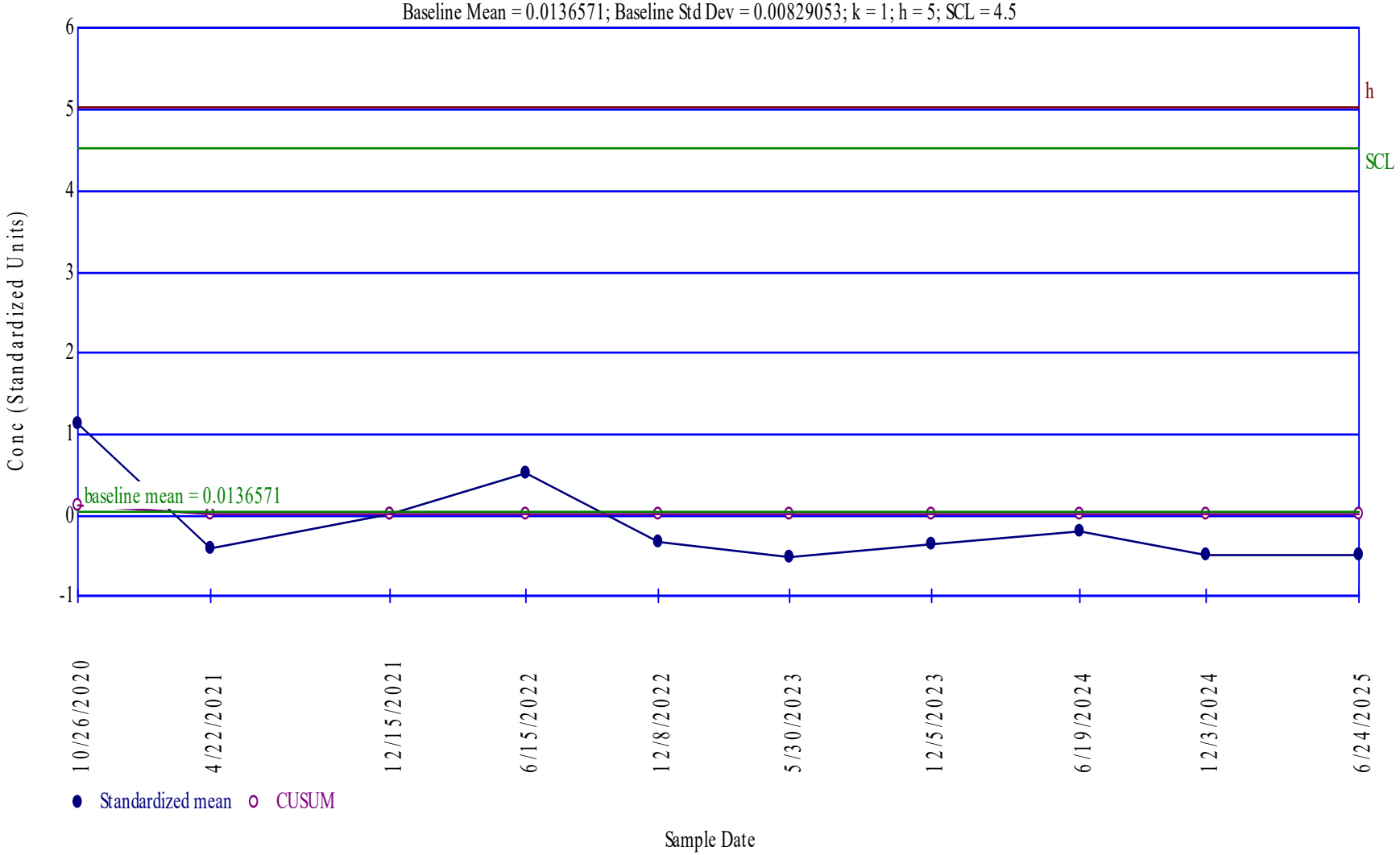

Barium, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-02
Baseline Mean = 0.1093; Baseline Std Dev = 0.0527462; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
-2
h
SCL
baseline mean = 0.1093
10/27/2020
12/1/2020
6/18/2021
9/15/2021
12/15/2021
6/15/2022
12/8/2022
5/30/2023
12/5/2023
6/19/2024
12/3/2024
6/25/2025
Standardized mean
CUSUM
Sample Date

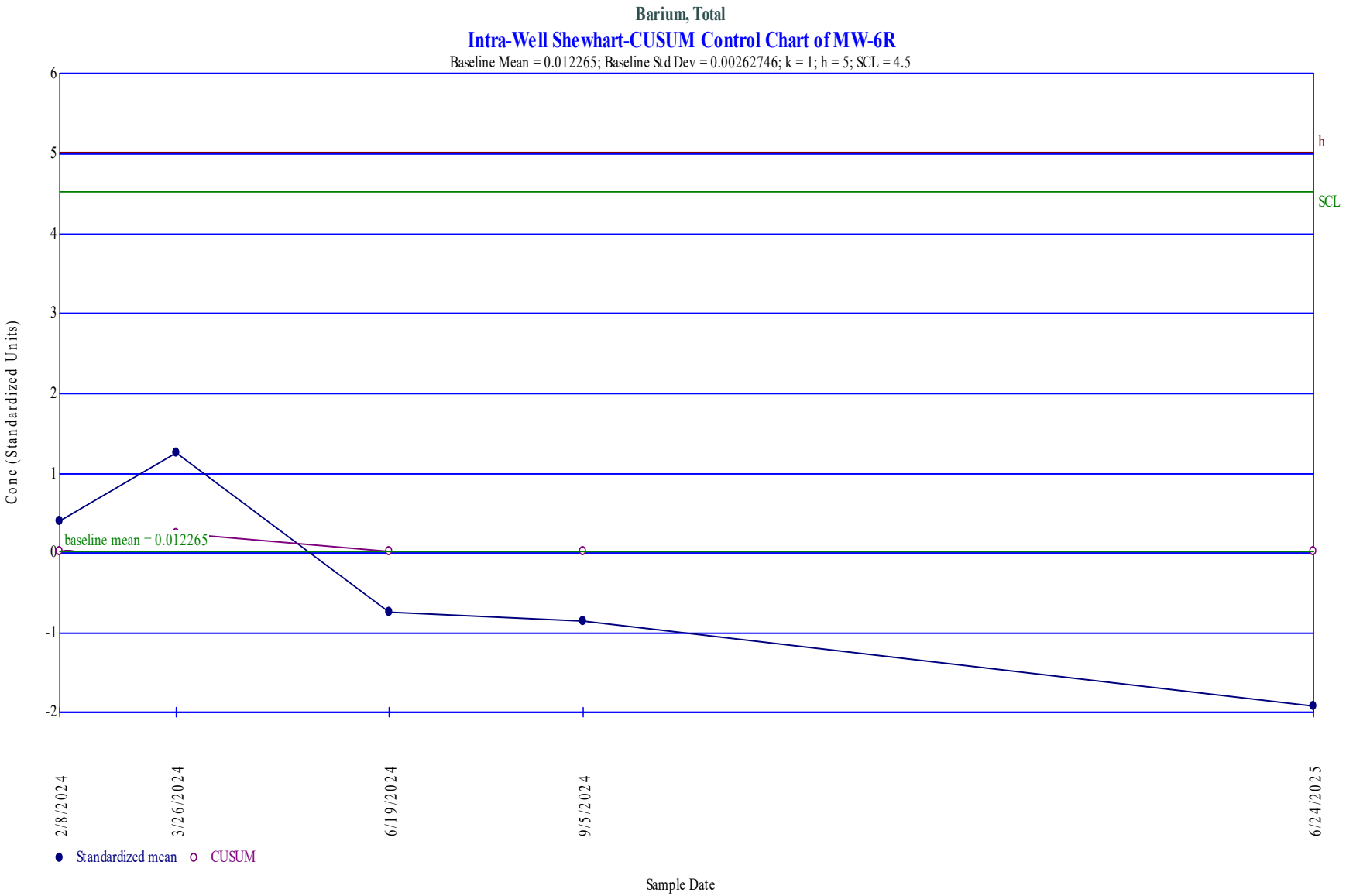

Barium, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-03
Baseline Mean = 0.0810125; Baseline Std Dev = 0.0305832; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
-2
h
SCL
baseline mean = 0.0810125
10/26/2020
12/1/2020
6/18/2021
9/15/2021
12/15/2021
6/15/2022
12/8/2022
5/30/2023
12/5/2023
6/19/2024
12/3/2024
6/25/2025
Standardized mean
CUSUM
Sample Date

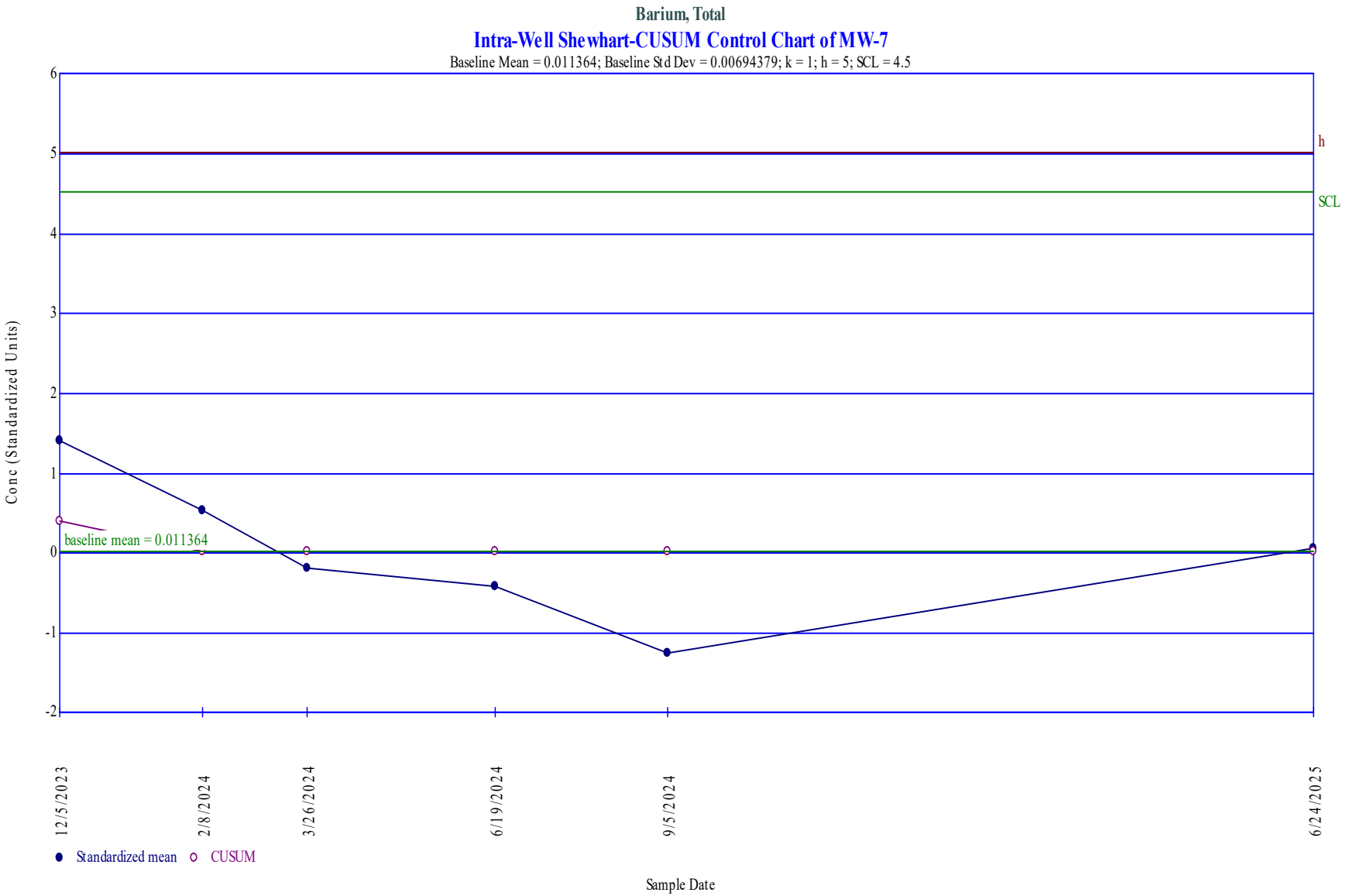
Barium, Total

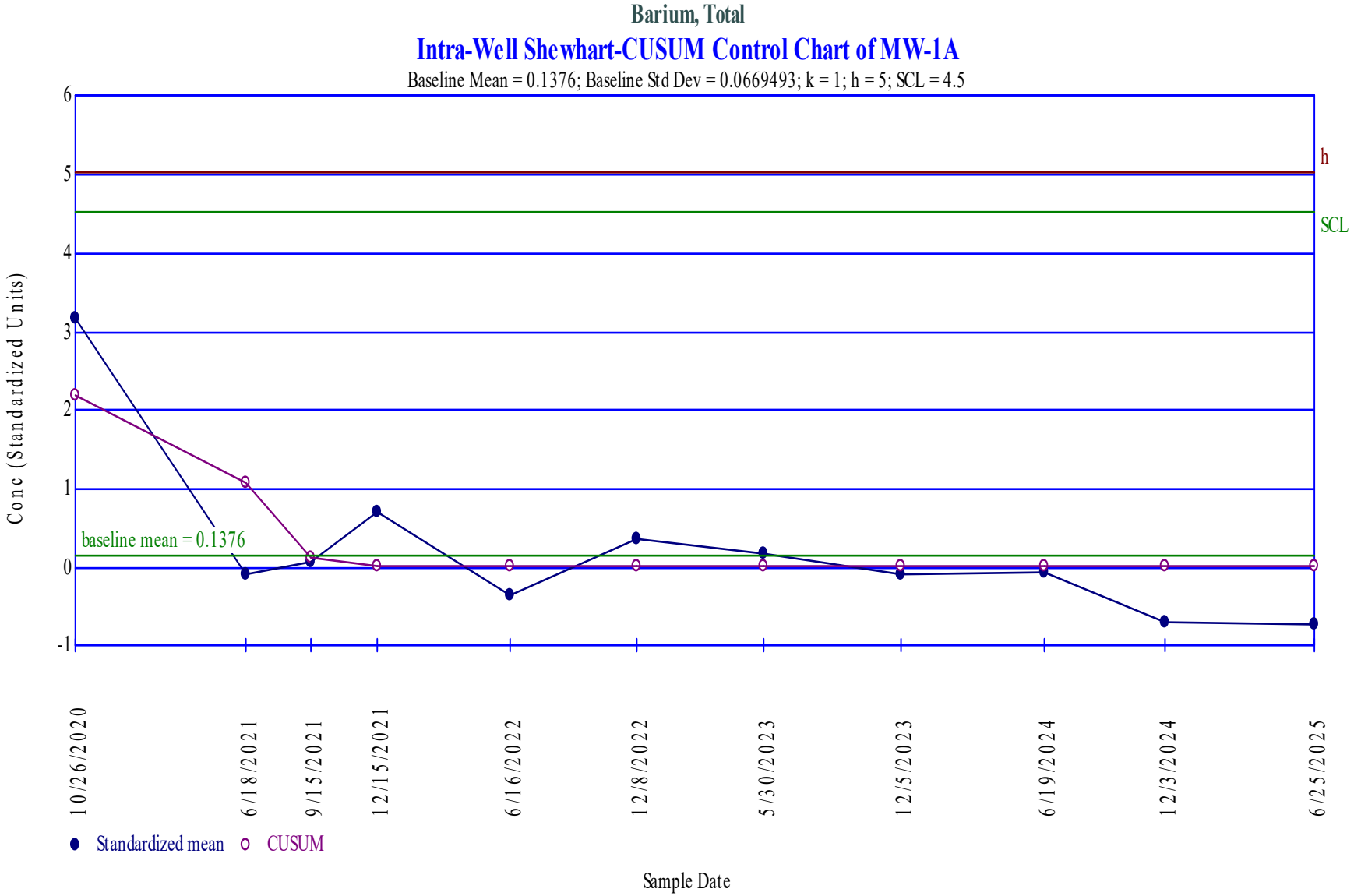
Intra-Well Shewhart-CUSUM Control Chart of MW-05

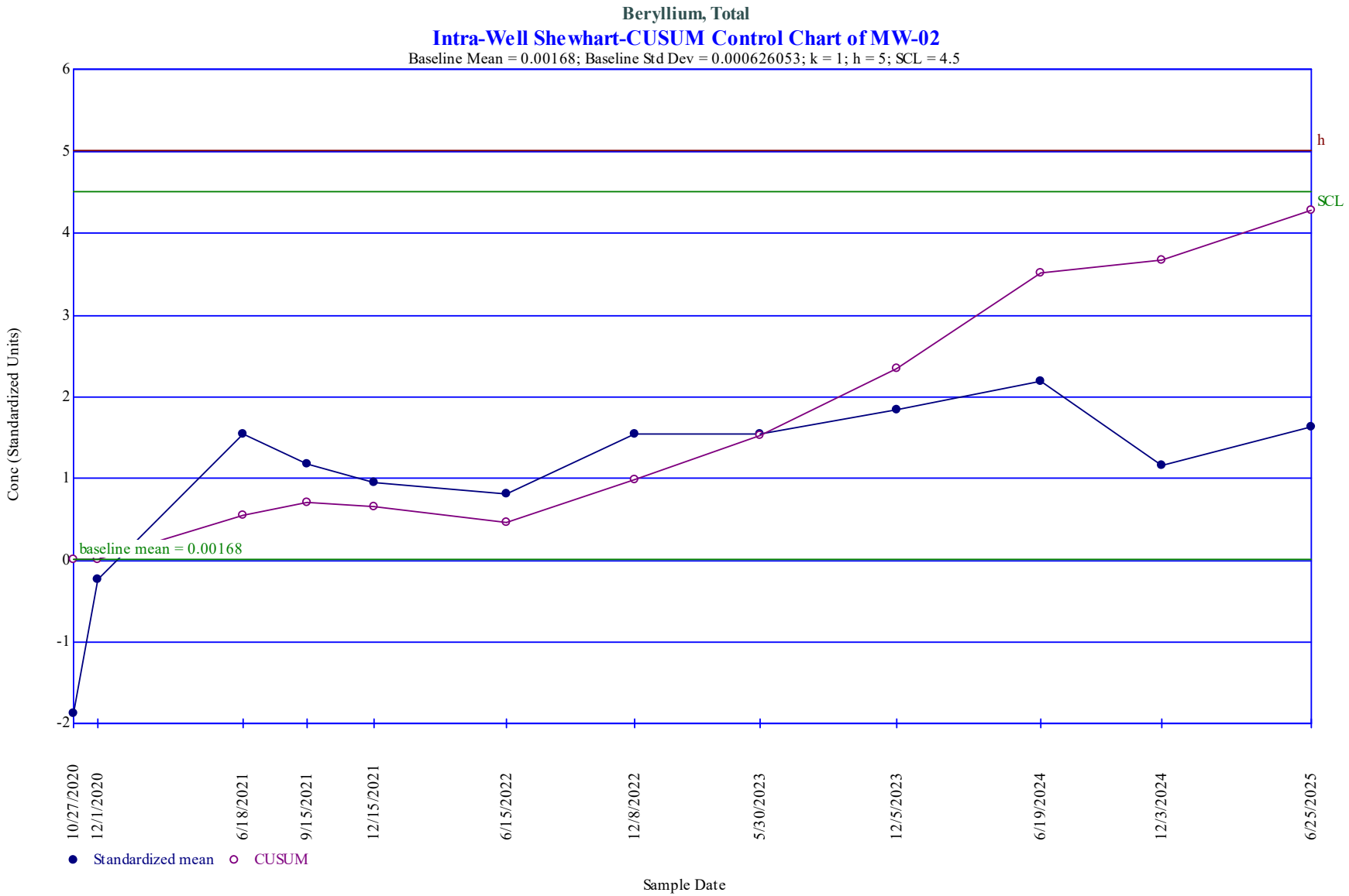
Baseline Mean = 0.0136571; Baseline Std Dev = 0.00829053; k = 1; h = 5; SCL = 4.5

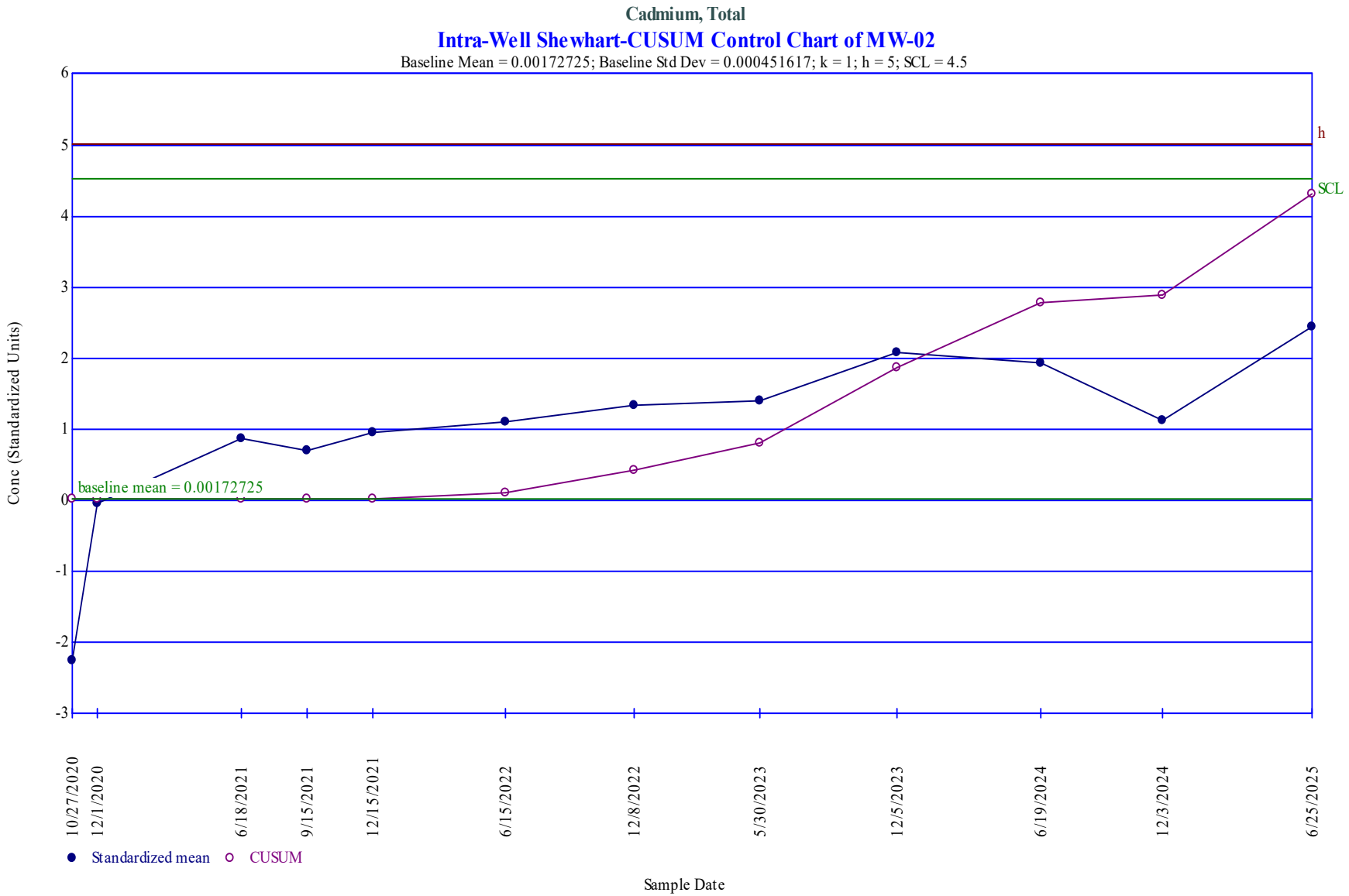



Barium, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-6R
Baseline Mean = 0.012265; Baseline Std Dev = 0.00262746; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
-2
h
SCL
baseline mean = 0.012265
2/8/2024
3/26/2024
6/19/2024
9/5/2024
6/24/2025
Standardized mean
CUSUM
Sample Date


Barium, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-7
Baseline Mean = 0.011364; Baseline Std Dev = 0.00694379; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
-2
h
SCL
baseline mean = 0.011364
12/5/2023
2/8/2024
3/26/2024
6/19/2024
9/5/2024
6/24/2025
Standardized mean
CUSUM
Sample Date


Barium, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-1A
Baseline Mean = 0.1376; Baseline Std Dev = 0.0669493; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
h
SCL
baseline mean = 0.1376
10/26/2020
6/18/2021
9/15/2021
12/15/2021
6/16/2022
12/8/2022
5/30/2023
12/5/2023
6/19/2024
12/3/2024
6/25/2025
Standardized mean
CUSUM
Sample Date


Beryllium, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-02
Baseline Mean = 0.00168; Baseline Std Dev = 0.000626053; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
-2
h
SCL
baseline mean = 0.00168
10/27/2020
12/1/2020
6/18/2021
9/15/2021
12/15/2021
6/15/2022
12/8/2022
5/30/2023
12/5/2023
6/19/2024
12/3/2024
6/25/2025
Standardized mean
CUSUM
Sample Date


Cadmium, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-02
Baseline Mean = 0.00172725; Baseline Std Dev = 0.000451617; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
-2
-3
h
SCL
baseline mean = 0.00172725
10/27/2020
12/1/2020
6/18/2021
9/15/2021
12/15/2021
6/15/2022
12/8/2022
5/30/2023
12/5/2023
6/19/2024
12/3/2024
6/25/2025
Standardized mean
CUSUM
Sample Date

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-04R

Parameter: Chromium, Total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 87.5%
Future Samples (k) = 1
Recent Dates = 1
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.02
Confidence Level = 88.9%
False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	11/17/2017	<0.005
	3/7/2018	<0.005
	5/3/2018	<0.005
	5/23/2018	<0.005
	11/14/2018	<0.005
	5/30/2019	<0.005
	11/26/2019	<0.02
	4/10/2020	0.00528

Date	Count	Mean	Significant
6/23/2025	1	0.00544	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-01

Parameter: Chromium, Total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 100%
Future Samples (k) = 1
Recent Dates = 1
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.005
Confidence Level = 88.9%
False Positive Rate = 11.1%

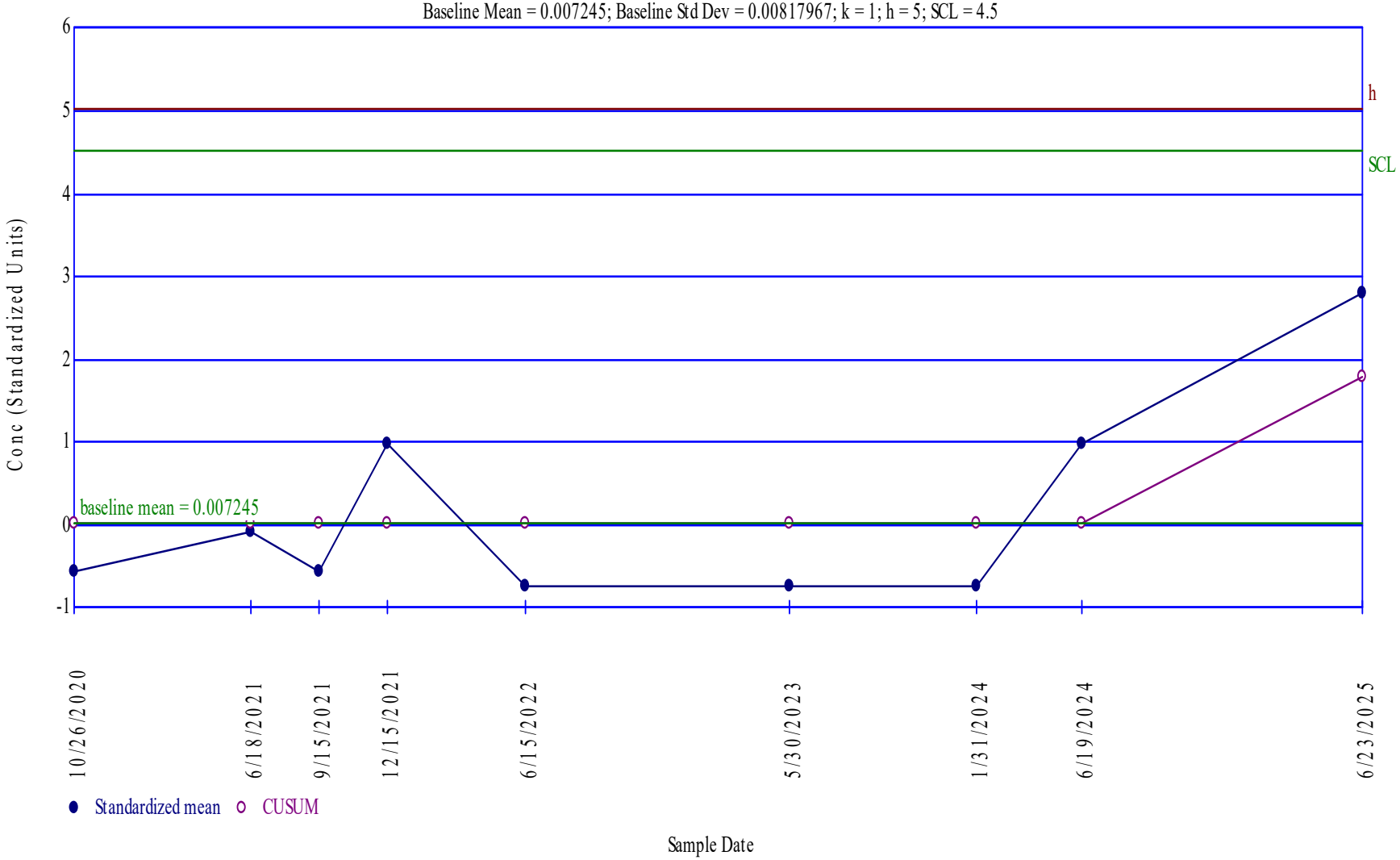
Baseline Measurements	Date	Value
	11/17/2017	<0.005
	3/26/2018	<0.005
	5/7/2018	<0.005
	5/23/2018	<0.005
	11/14/2018	<0.005
	5/30/2019	<0.005
	11/26/2019	<0.005
	4/10/2020	<0.005

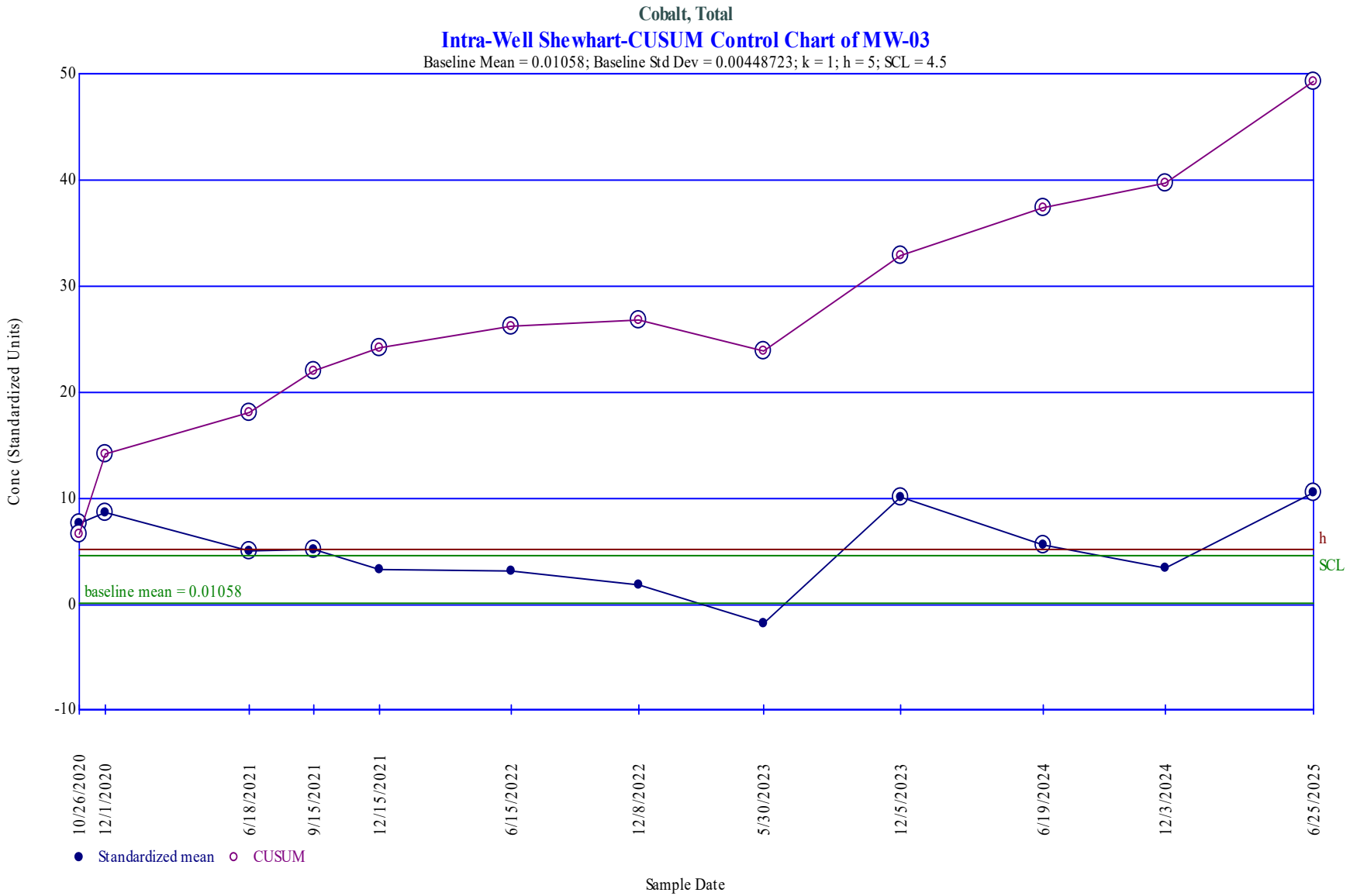
Date	Count	Mean	Significant
6/24/2025	1	0.00212	FALSE

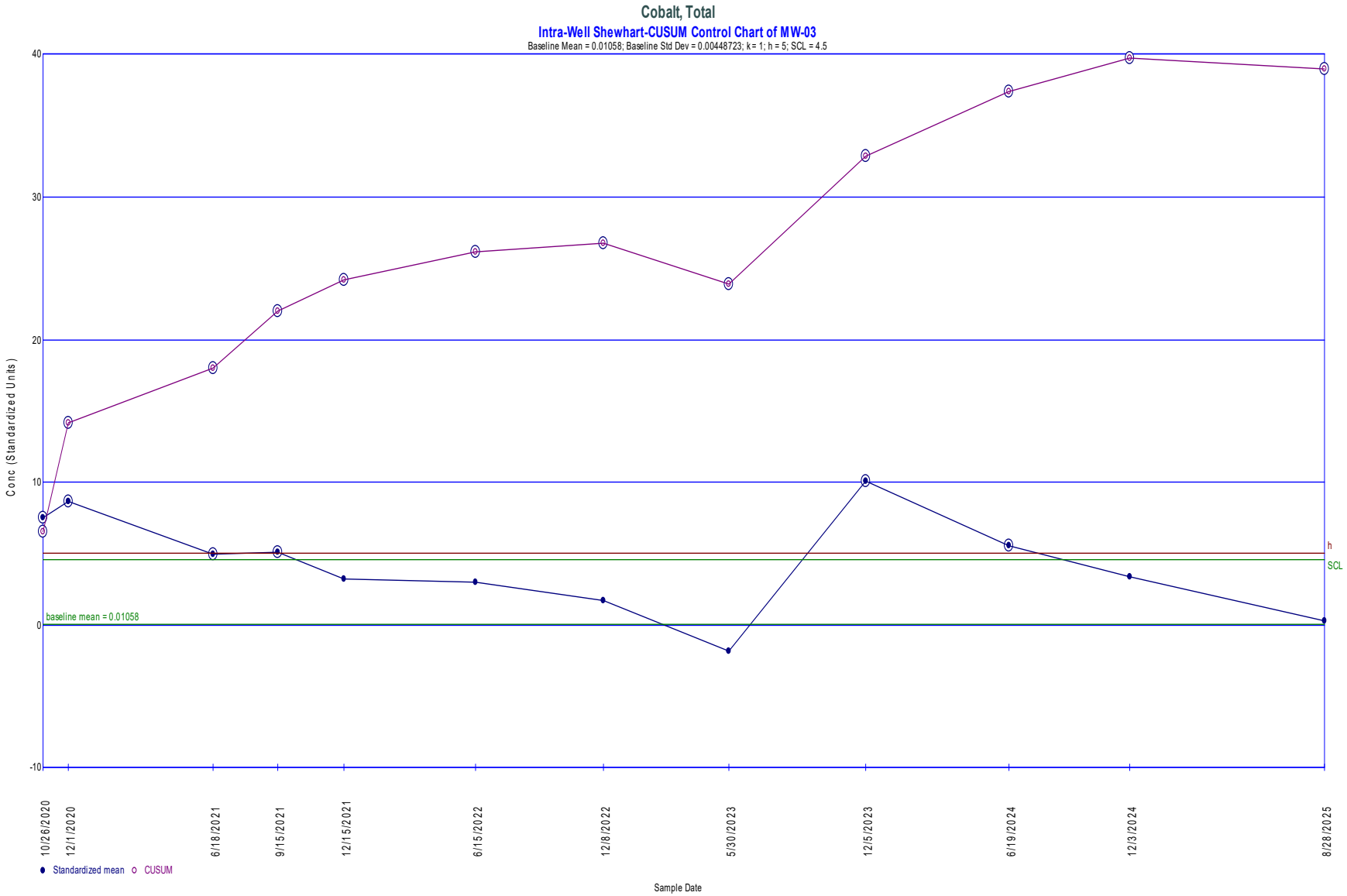
Cobalt, Total

Intra-Well Shewhart-CUSUM Control Chart of MW-04R

Baseline Mean = 0.007245; Baseline Std Dev = 0.00817967; k = 1; h = 5; SCL = 4.5




Cobalt, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-03
Baseline Mean = 0.01058; Baseline Std Dev = 0.00448723; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
50
40
30
20
10
0
-10
h
SCL
baseline mean = 0.01058
10/26/2020
12/1/2020
6/18/2021
9/15/2021
12/15/2021
6/15/2022
12/8/2022
5/30/2023
12/5/2023
6/19/2024
12/3/2024
6/25/2025
Standardized mean
CUSUM
Sample Date


Cobalt, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-03
Baseline Mean = 0.01058; Baseline Std Dev = 0.00448723; k= 1; h = 5; SCL = 4.5
Conc (Standardized Units)
40
30
20
10
0
-10
h
SCL
baseline mean = 0.01058
10/26/2020
12/1/2020
6/18/2021
9/15/2021
12/15/2021
6/15/2022
12/8/2022
5/30/2023
12/5/2023
6/19/2024
12/3/2024
8/28/2025
Standardized mean
CUSUM
Sample Date

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-04R

Parameter: Lead, Total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 62.5%
Future Samples (k) = 1
Recent Dates = 1
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.01
Confidence Level = 88.9%
False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	11/17/2017	<0.001
	3/7/2018	<0.001
	5/3/2018	<0.001
	5/23/2018	<0.001
	11/14/2018	0.0011
	5/30/2019	0.00111
	11/26/2019	<0.01
	4/10/2020	0.00289

Date	Count	Mean	Significant
6/23/2025	1	0.008	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-01

Parameter: Lead, Total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 87.5%
Future Samples (k) = 2
Recent Dates = 2
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.002
Confidence Level = 80%
False Positive Rate = 20%

Baseline Measurements	Date	Value
	11/17/2017	<0.002
	3/26/2018	<0.002
	5/7/2018	<0.002
	5/23/2018	<0.002
	11/14/2018	<0.002
	5/30/2019	<0.002
	11/26/2019	<0.002
	4/10/2020	0.0012

Date	Count	Mean	Significant
8/28/2025	1	0.002	FALSE
6/24/2025	**1**	**0.00261**	**TRUE**

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-03

Parameter: Lead, Total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 62.5%
Future Samples (k) = 2
Recent Dates = 2
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.00214
Confidence Level = 80%
False Positive Rate = 20%

Baseline Measurements	Date	Value
	11/16/2017	0.00139
	3/26/2018	<0.001
	5/7/2018	<0.001
	5/23/2018	0.00214
	11/13/2018	<0.001
	5/29/2019	0.00132
	11/26/2019	<0.001
	4/9/2020	<0.001

Date	Count	Mean	Significant
8/28/2025	1	0.002	FALSE
6/25/2025	**1**	**0.00439**	**TRUE**

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-01

Parameter: Mercury, Total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 100%
Future Samples (k) = 1
Recent Dates = 1
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.002
Confidence Level = 88.9%
False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	11/17/2017	<0.001
	3/26/2018	<0.001
	5/7/2018	<0.001
	5/23/2018	<0.001
	11/14/2018	<0.001
	5/30/2019	<0.001
	11/26/2019	<0.002
	4/10/2020	<0.0005

Date	Count	Mean	Significant
6/24/2025	1	0.00035	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-03

Parameter: Mercury, Total

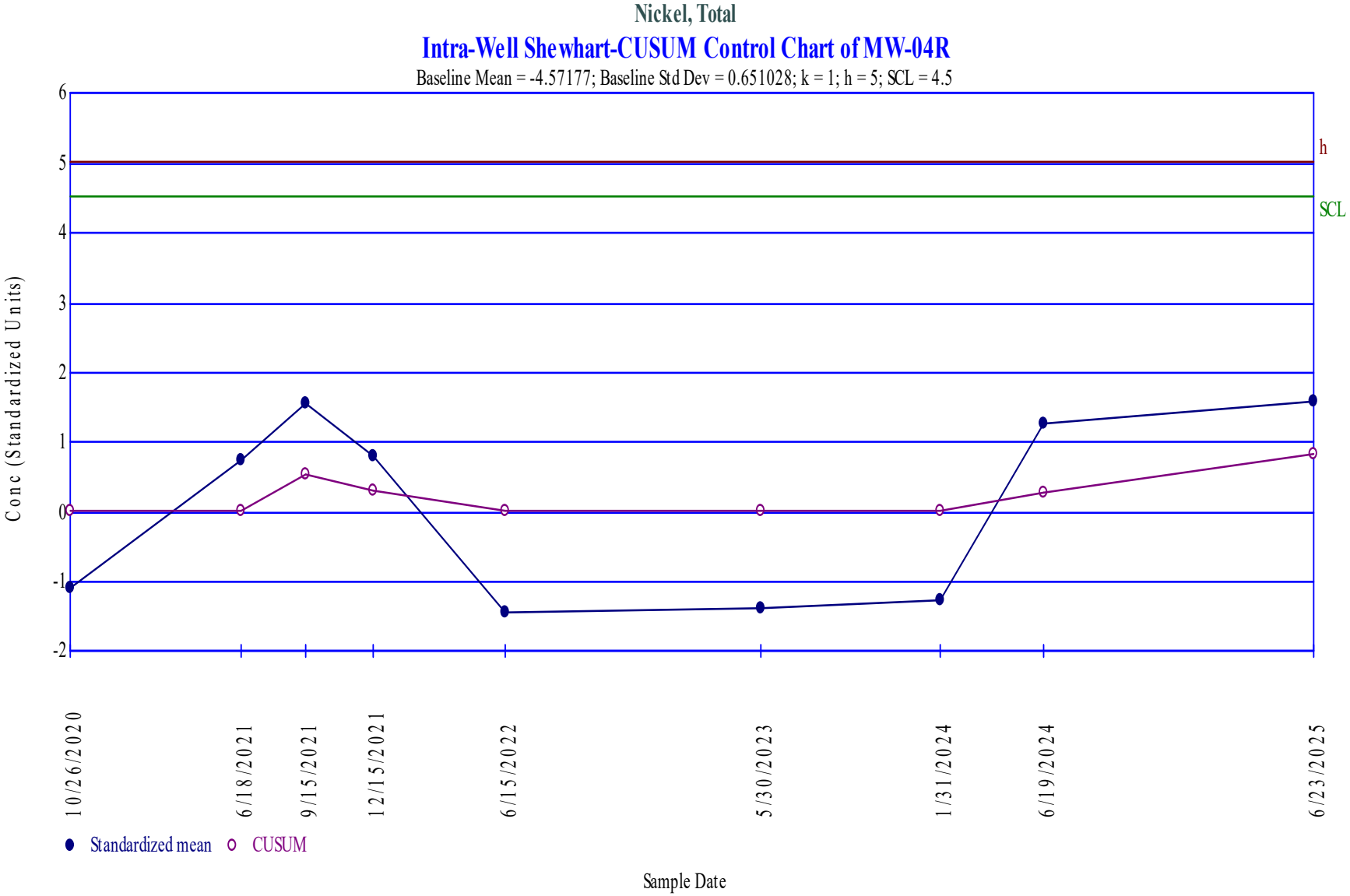
Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 87.5%
Future Samples (k) = 1
Recent Dates = 1
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.00091
Confidence Level = 88.9%
False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	11/16/2017	<0.0005
	3/26/2018	<0.0005
	5/7/2018	<0.0005
	5/23/2018	<0.0005
	11/13/2018	<0.0005
	5/29/2019	0.00091
	11/26/2019	<0.0005
	4/9/2020	<0.0005

Date	Count	Mean	Significant
6/25/2025	1	0.000904	FALSE


Nickel, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-04R
Baseline Mean = -4.57177; Baseline Std Dev = 0.651028; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
-2
h
SCL
10/26/2020
6/18/2021
9/15/2021
12/15/2021
6/15/2022
5/30/2023
1/31/2024
6/19/2024
6/23/2025
Standardized mean
CUSUM
Sample Date

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-01

Parameter: Nickel, Total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 100%
Future Samples (k) = 1
Recent Dates = 1
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.005
Confidence Level = 88.9%
False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	11/17/2017	<0.005
	3/26/2018	<0.005
	5/7/2018	<0.005
	5/23/2018	<0.005
	11/14/2018	<0.005
	5/30/2019	<0.005
	11/26/2019	<0.005
	4/10/2020	<0.005

Date	Count	Mean	Significant
6/24/2025	1	0.00369	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-02

Parameter: Nickel, Total

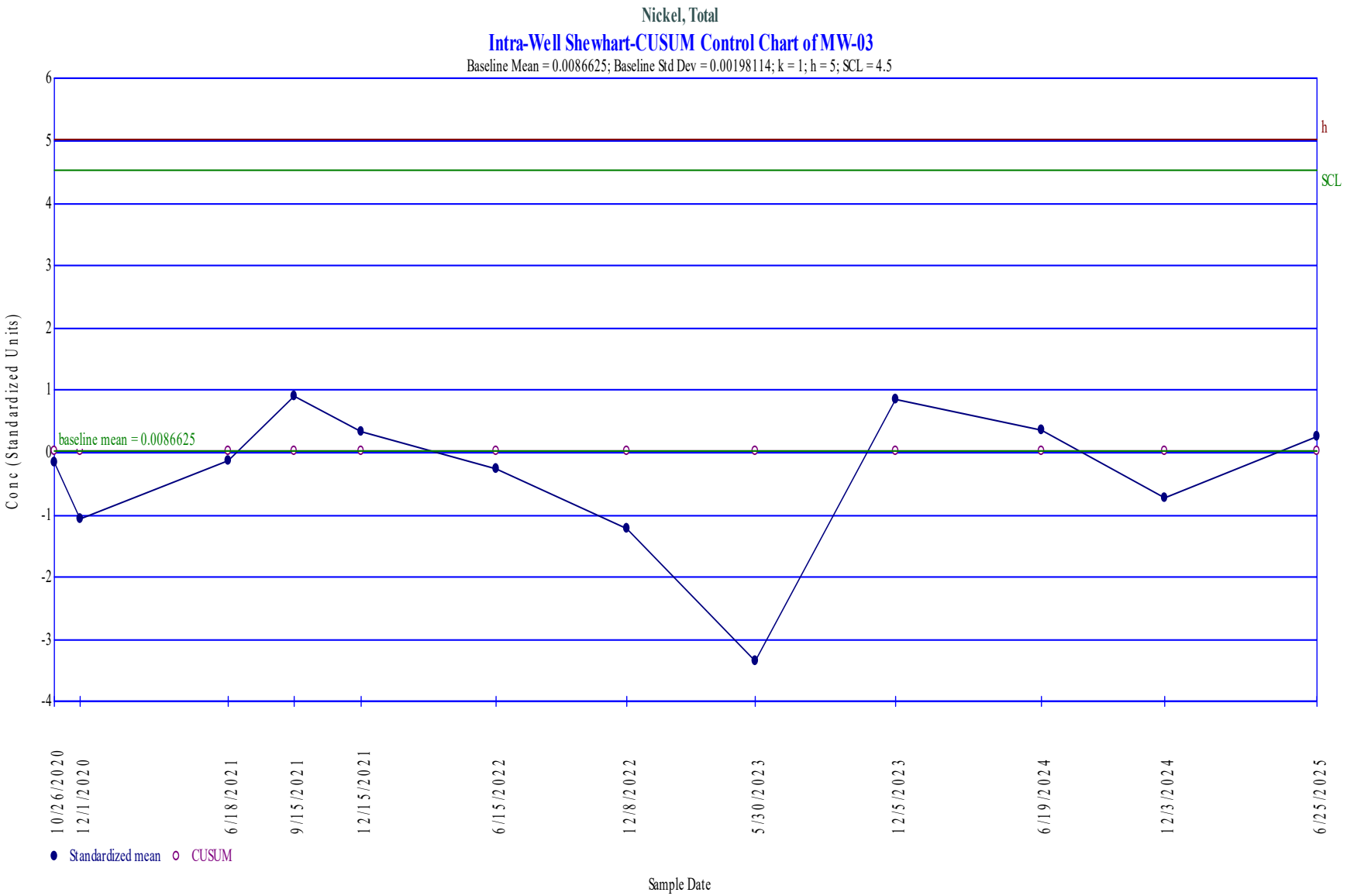
Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%
Future Samples (k) = 2
Recent Dates = 2
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.037
Confidence Level = 80%
False Positive Rate = 20%

Baseline Measurements	Date	Value
	11/16/2017	0.0337
	3/7/2018	0.0218
	5/3/2018	0.0284
	5/23/2018	0.0269
	11/14/2018	0.037
	5/29/2019	0.0293
	11/26/2019	0.0289
	4/10/2020	0.0184

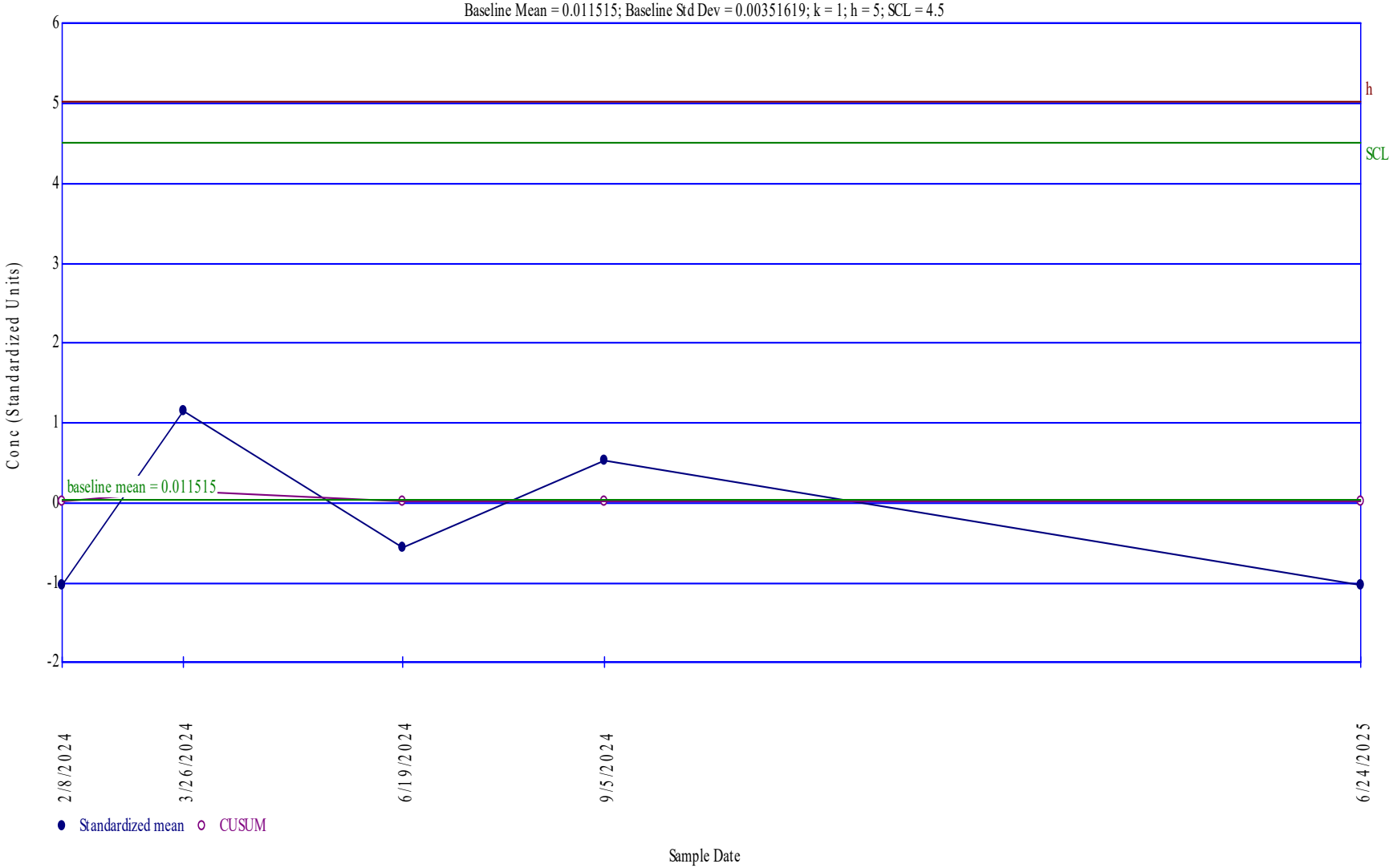
Date	Count	Mean	Significant
8/28/2025	**1**	**0.0435**	**TRUE**
6/25/2025	**1**	**0.0453**	**TRUE**

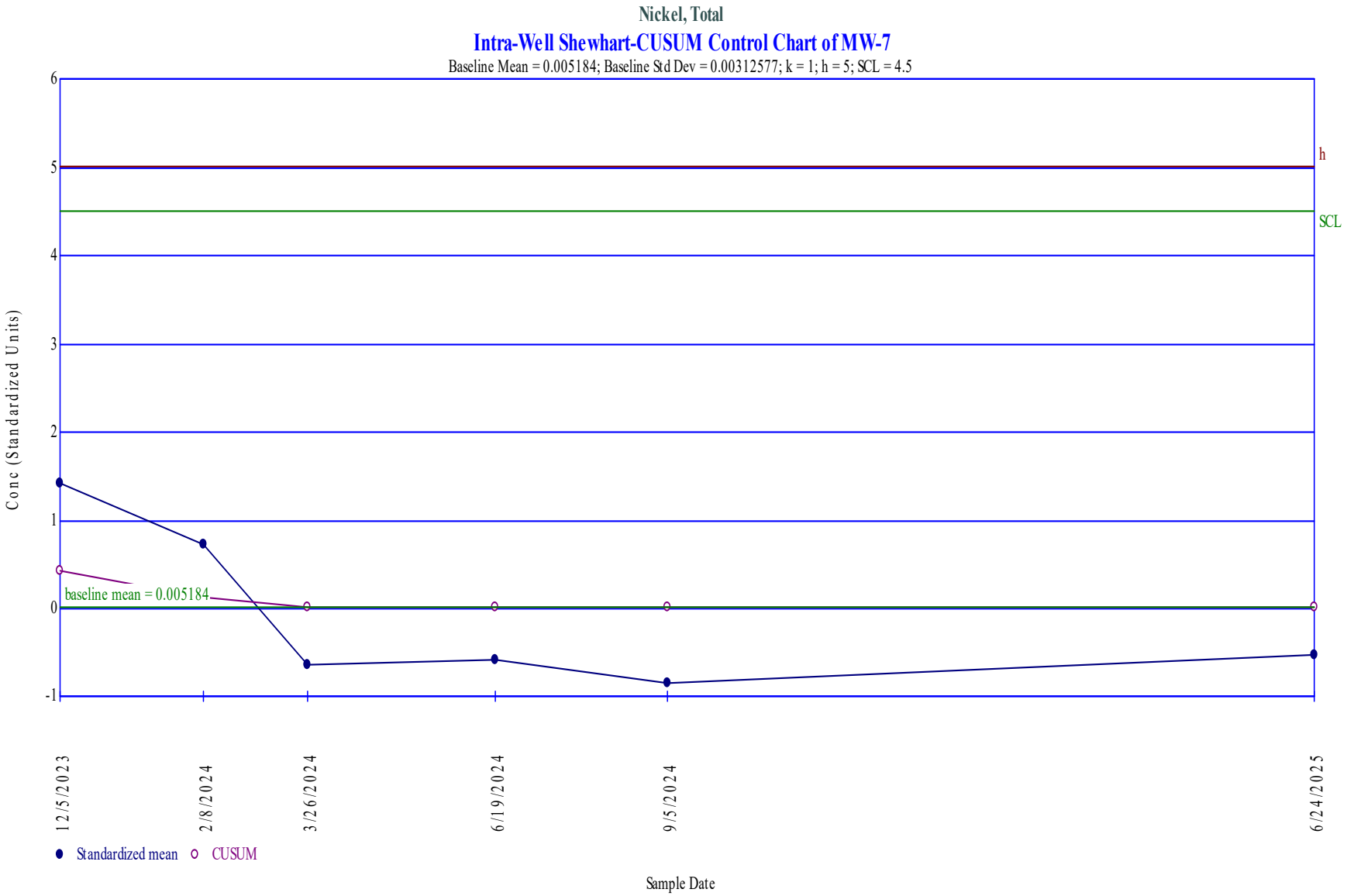

Nickel, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-03
Baseline Mean = 0.0086625; Baseline Std Dev = 0.00198114; k = 1; h = 5; SCL = 4.5
h
SCL
baseline mean = 0.0086625
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
-2
-3
-4
10/26/2020
12/1/2020
6/18/2021
9/15/2021
12/15/2021
6/15/2022
12/8/2022
5/30/2023
12/5/2023
6/19/2024
12/3/2024
6/25/2025
Standardized mean
CUSUM
Sample Date

Nickel, Total

Intra-Well Shewhart-CUSUM Control Chart of MW-6R

Baseline Mean = 0.011515; Baseline Std Dev = 0.00351619; k = 1; h = 5; SCL = 4.5




Nickel, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-7
Baseline Mean = 0.005184; Baseline Std Dev = 0.00312577; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
h
SCL
baseline mean = 0.005184
12/5/2023
2/8/2024
3/26/2024
6/19/2024
9/5/2024
6/24/2025
Standardized mean
CUSUM
Sample Date

Non-Parametric Prediction Interval

Intra-Well Comparison for MW-04R

Parameter: Vanadium, Total

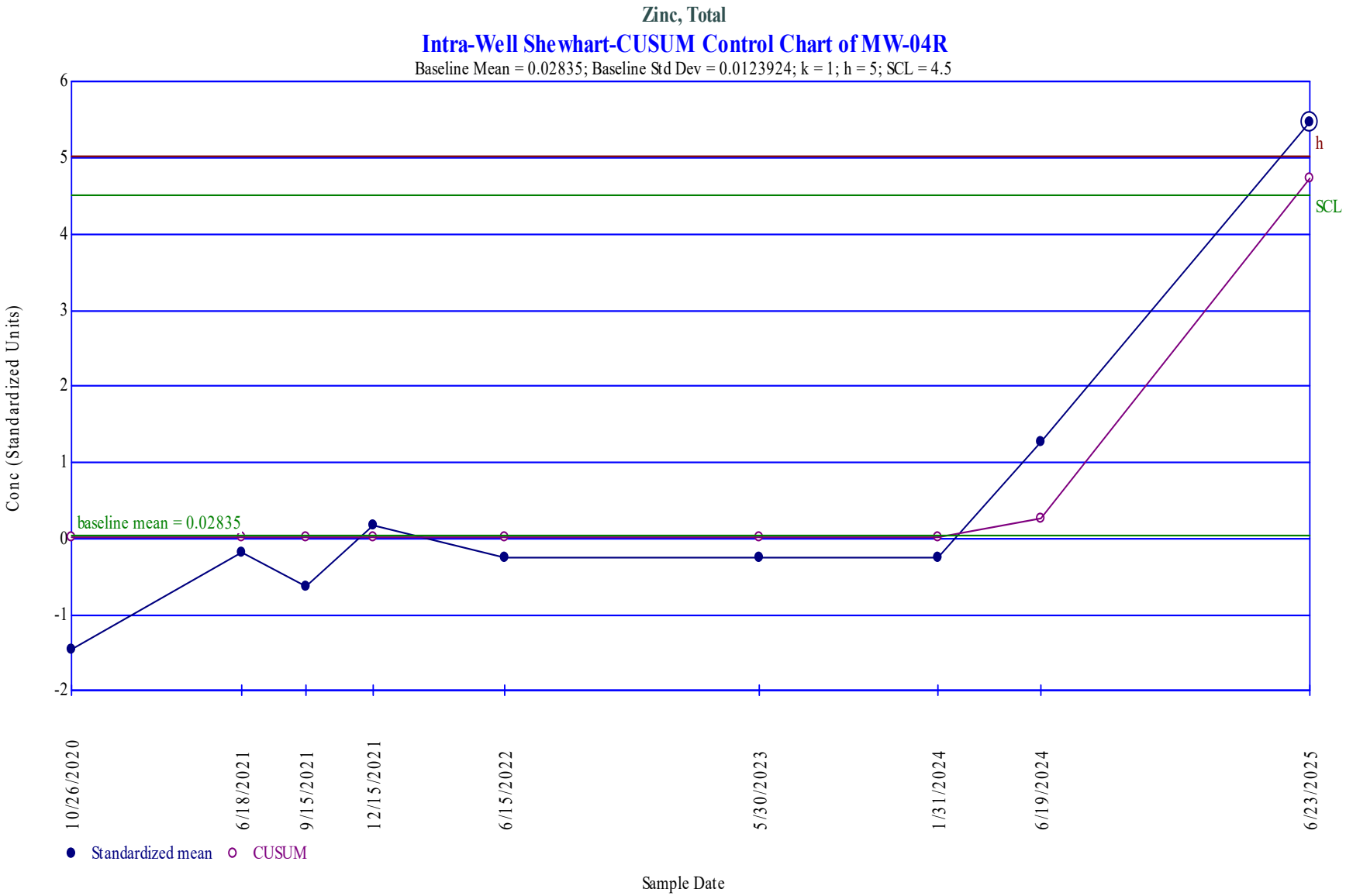
Original Data (Not Transformed)

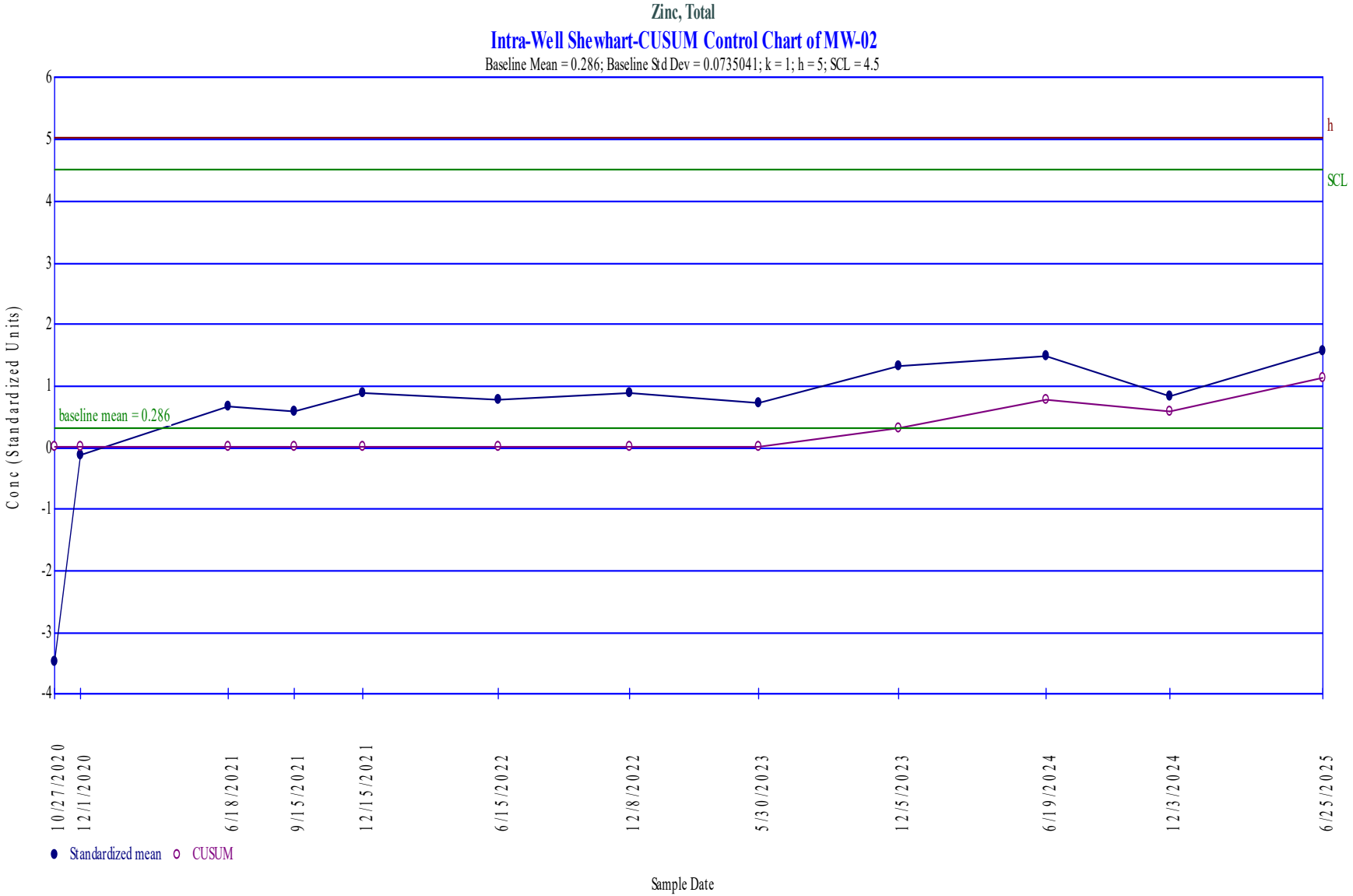
Non-Detects Replaced with Detection Limit

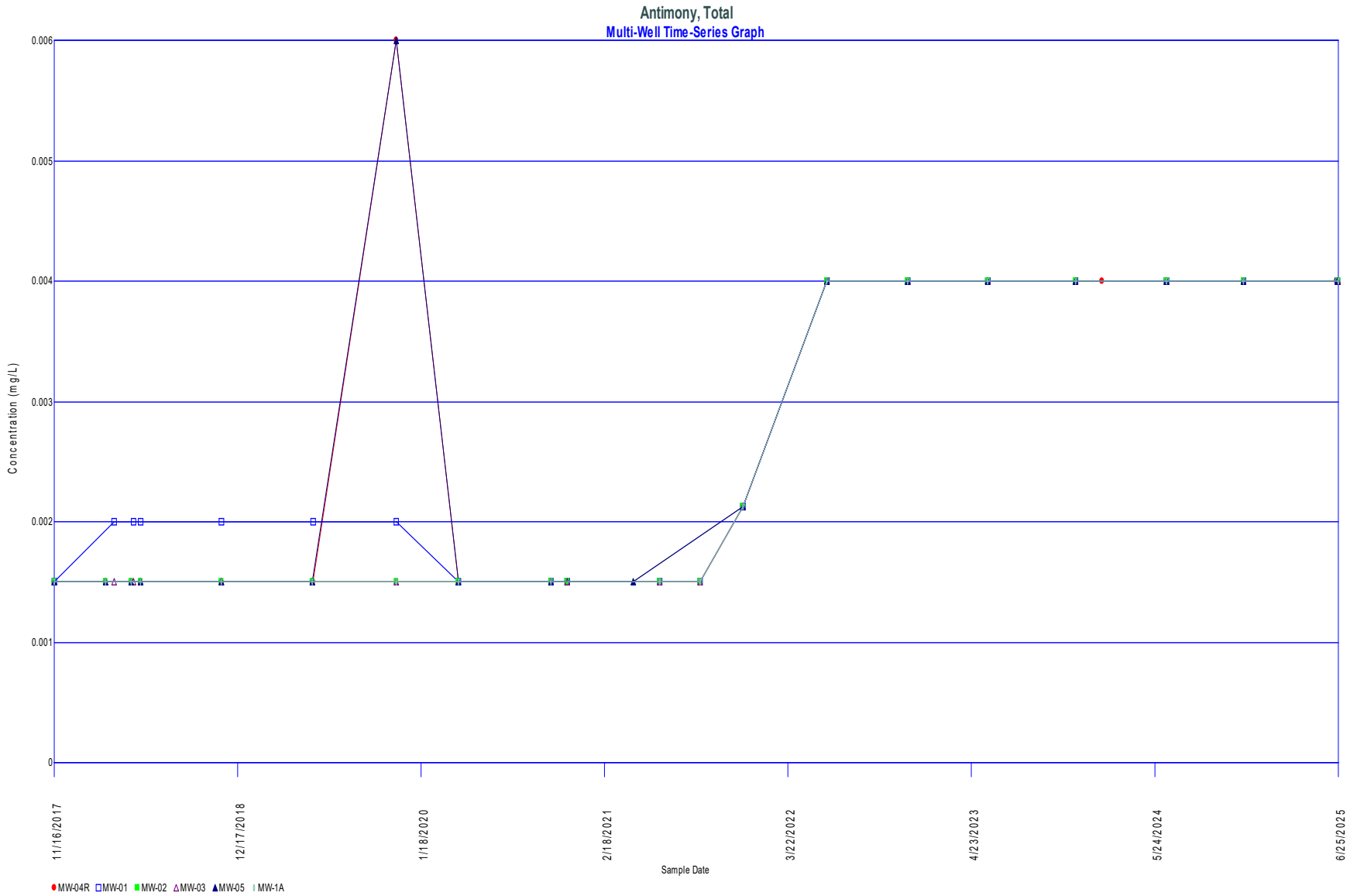
Total Percent Non-Detects = 75%
Future Samples (k) = 1
Recent Dates = 1
Baseline Measurements (n) = 8
Maximum Baseline Concentration = 0.05
Confidence Level = 88.9%
False Positive Rate = 11.1%

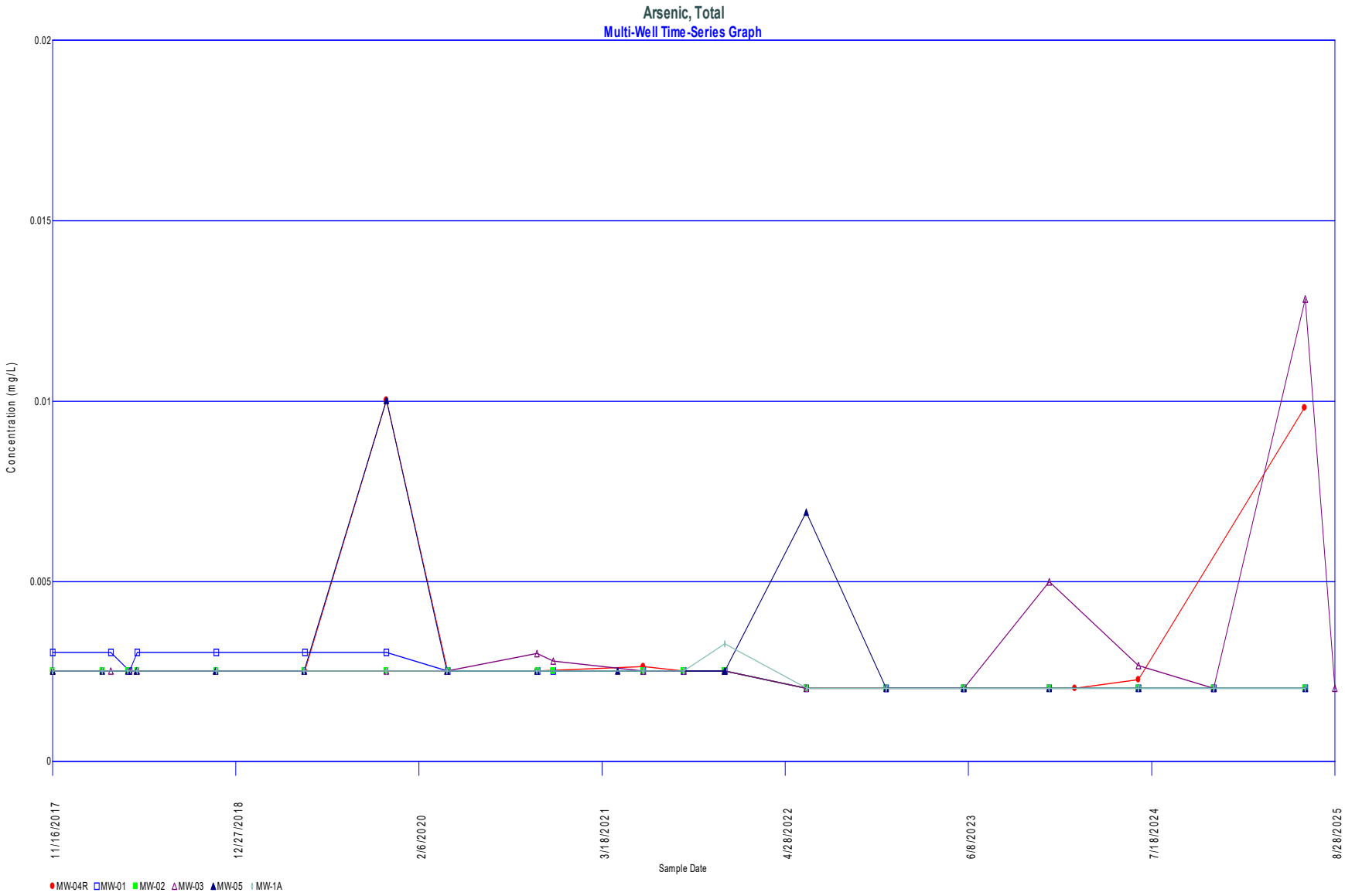
Baseline Measurements	Date	Value
	11/17/2017	<0.005
	3/7/2018	<0.005
	5/3/2018	0.00553
	5/23/2018	<0.005
	11/14/2018	<0.005
	5/30/2019	<0.005
	11/26/2019	<0.05
	4/10/2020	0.00647

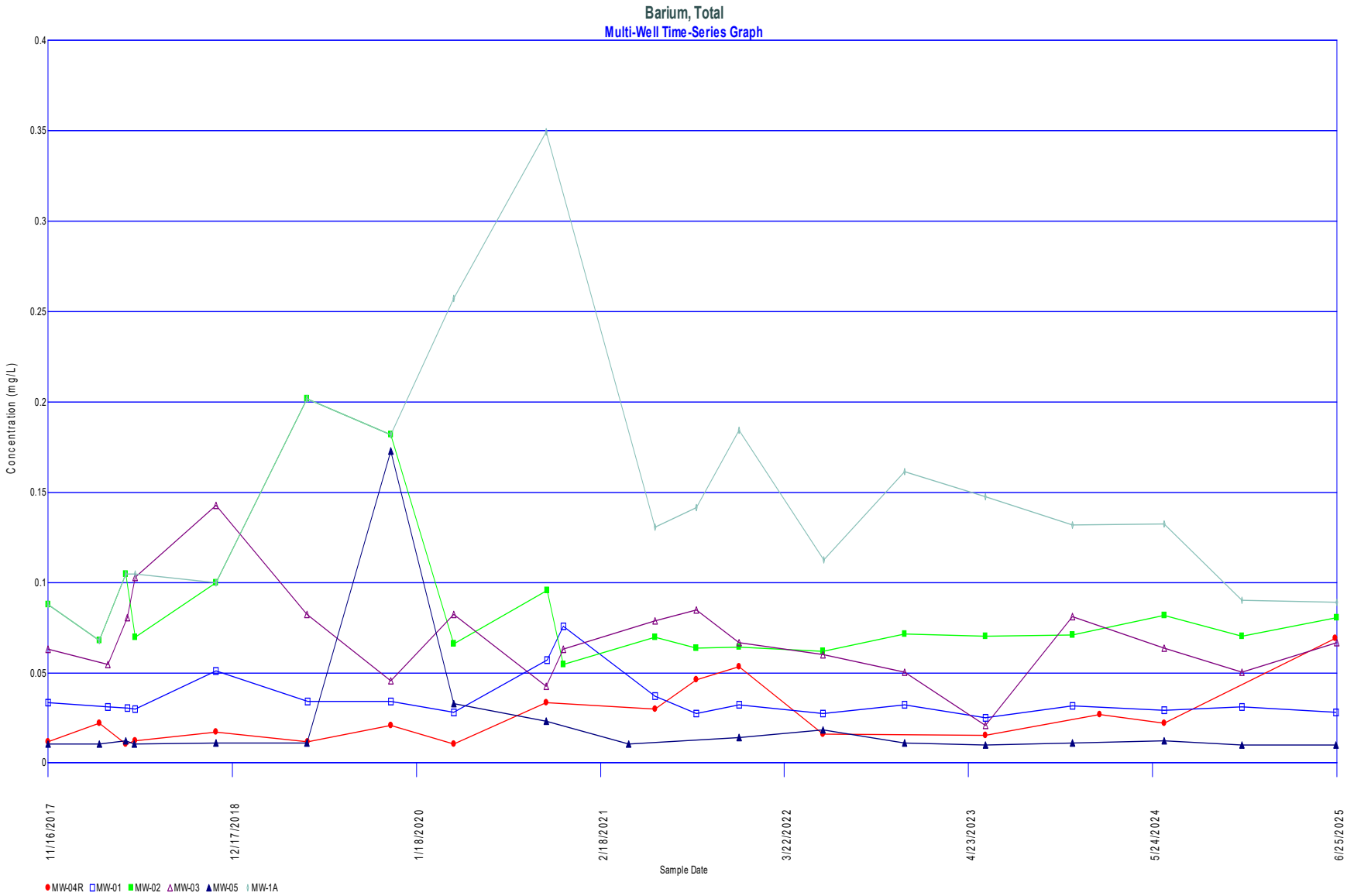
Date	Count	Mean	Significant
6/23/2025	1	0.00538	FALSE

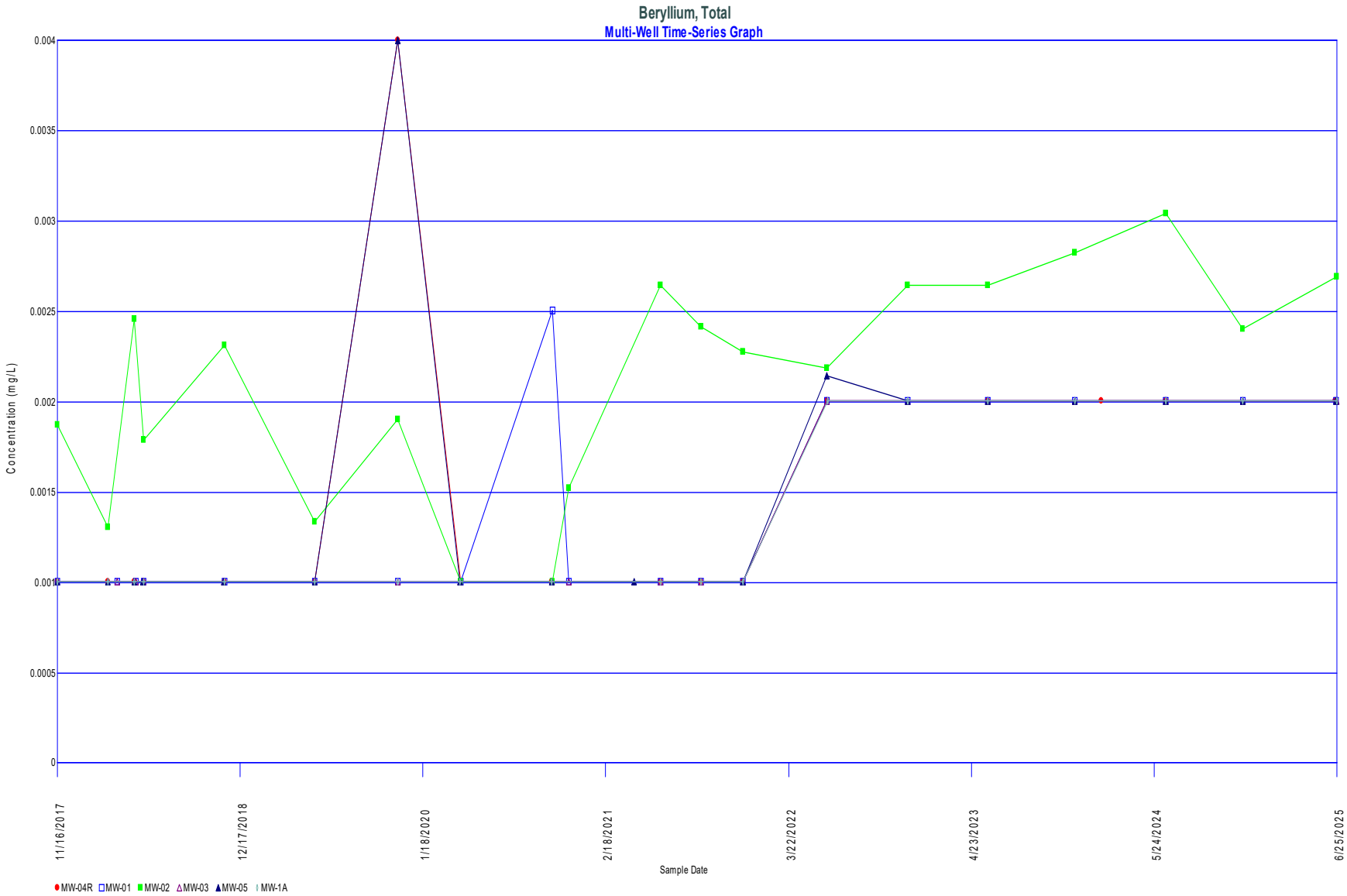

Zinc, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-04R
Baseline Mean = 0.02835; Baseline Std Dev = 0.0123924; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
-2
h
SCL
baseline mean = 0.02835
10/26/2020
6/18/2021
9/15/2021
12/15/2021
6/15/2022
5/30/2023
1/31/2024
6/19/2024
6/23/2025
Standardized mean
CUSUM
Sample Date

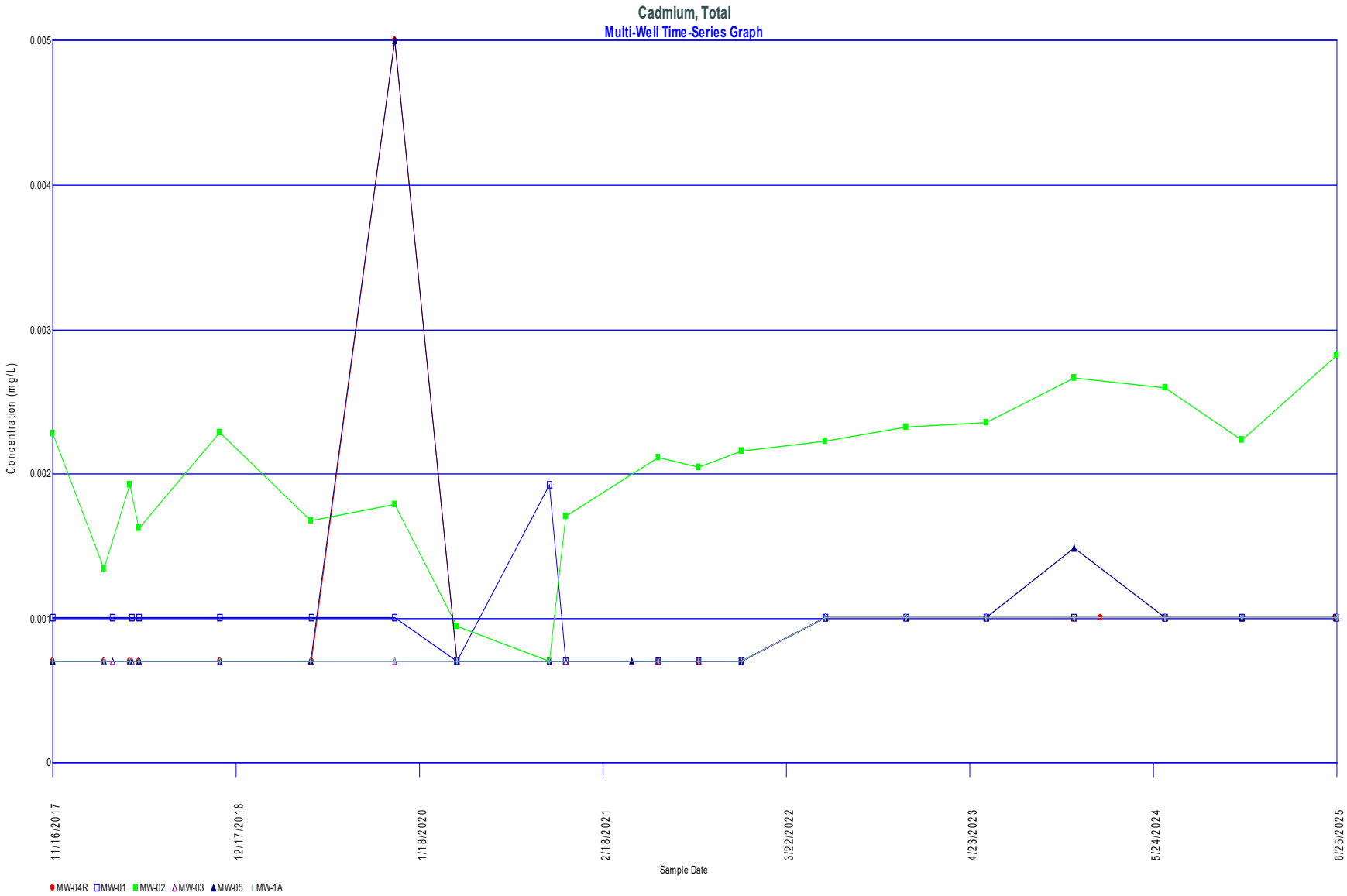

Zinc, Total
Intra-Well Shewhart-CUSUM Control Chart of MW-02
Baseline Mean = 0.286; Baseline Std Dev = 0.0735041; k = 1; h = 5; SCL = 4.5
Conc (Standardized Units)
6
5
4
3
2
1
0
-1
-2
-3
-4
h
SCL
baseline mean = 0.286
10/27/2020
12/1/2020
6/18/2021
9/15/2021
12/15/2021
6/15/2022
12/8/2022
5/30/2023
12/5/2023
6/19/2024
12/3/2024
6/25/2025
Standardized mean
CUSUM
Sample Date

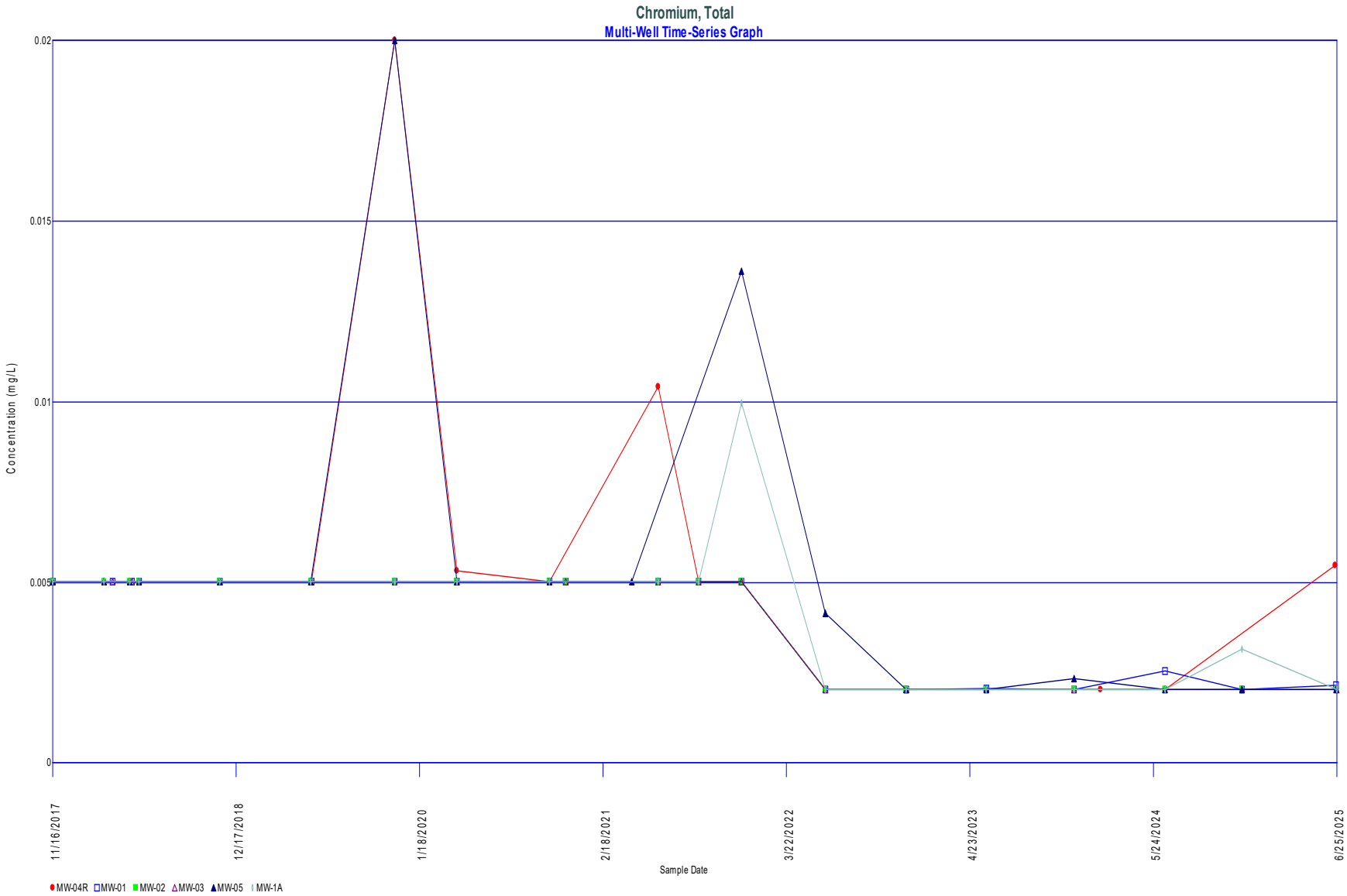

Antimony, Total
Multi-Well Time-Series Graph
0.006
0.005
0.004
0.003
0.002
0.001
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A

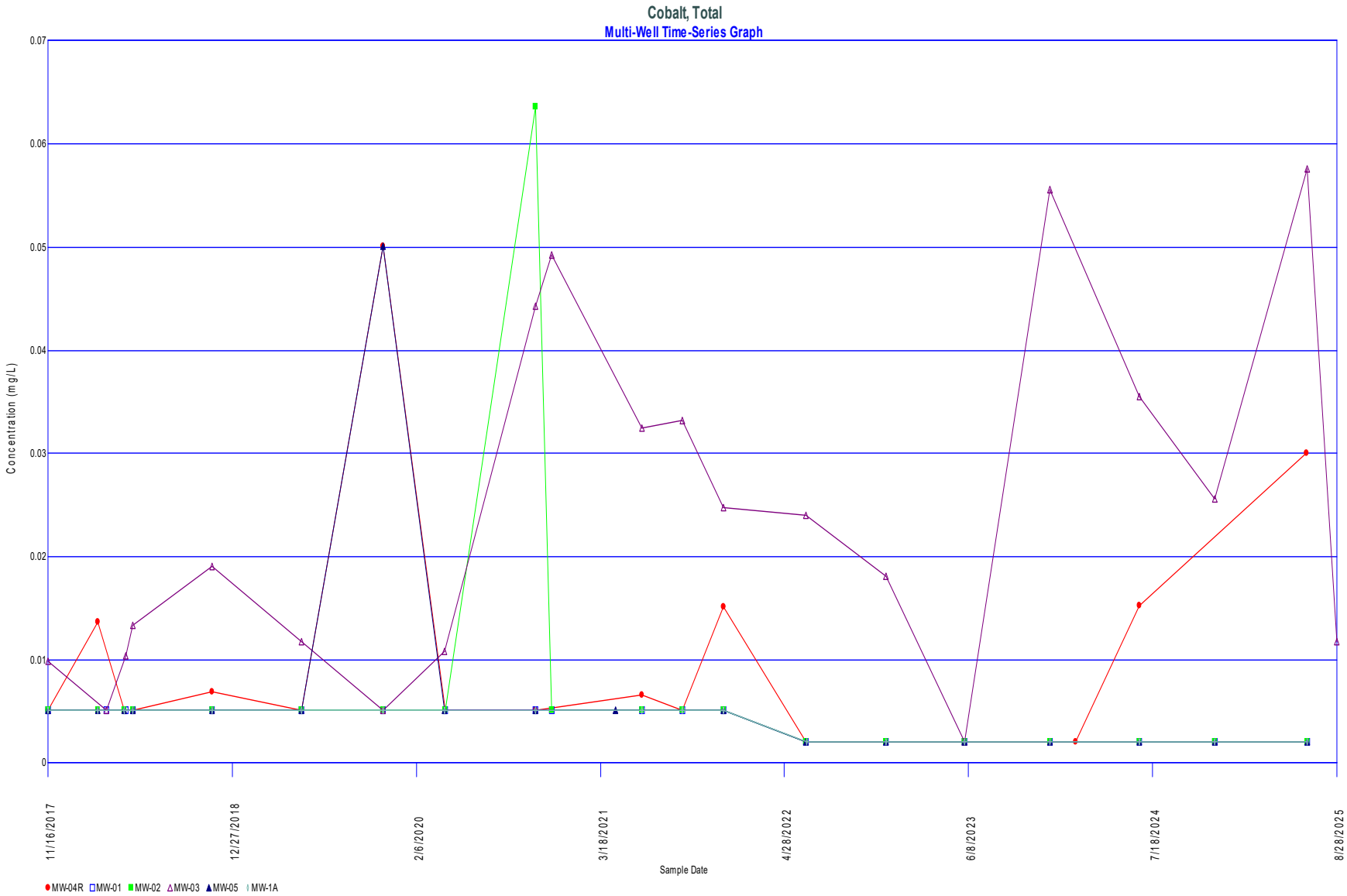

Arsenic, Total
Multi-Well Time-Series Graph
0.02
0.015
0.01
0.005
0
Concentration (mg/L)
11/16/2017
12/27/2018
2/6/2020
3/18/2021
4/28/2022
6/8/2023
7/18/2024
8/28/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A

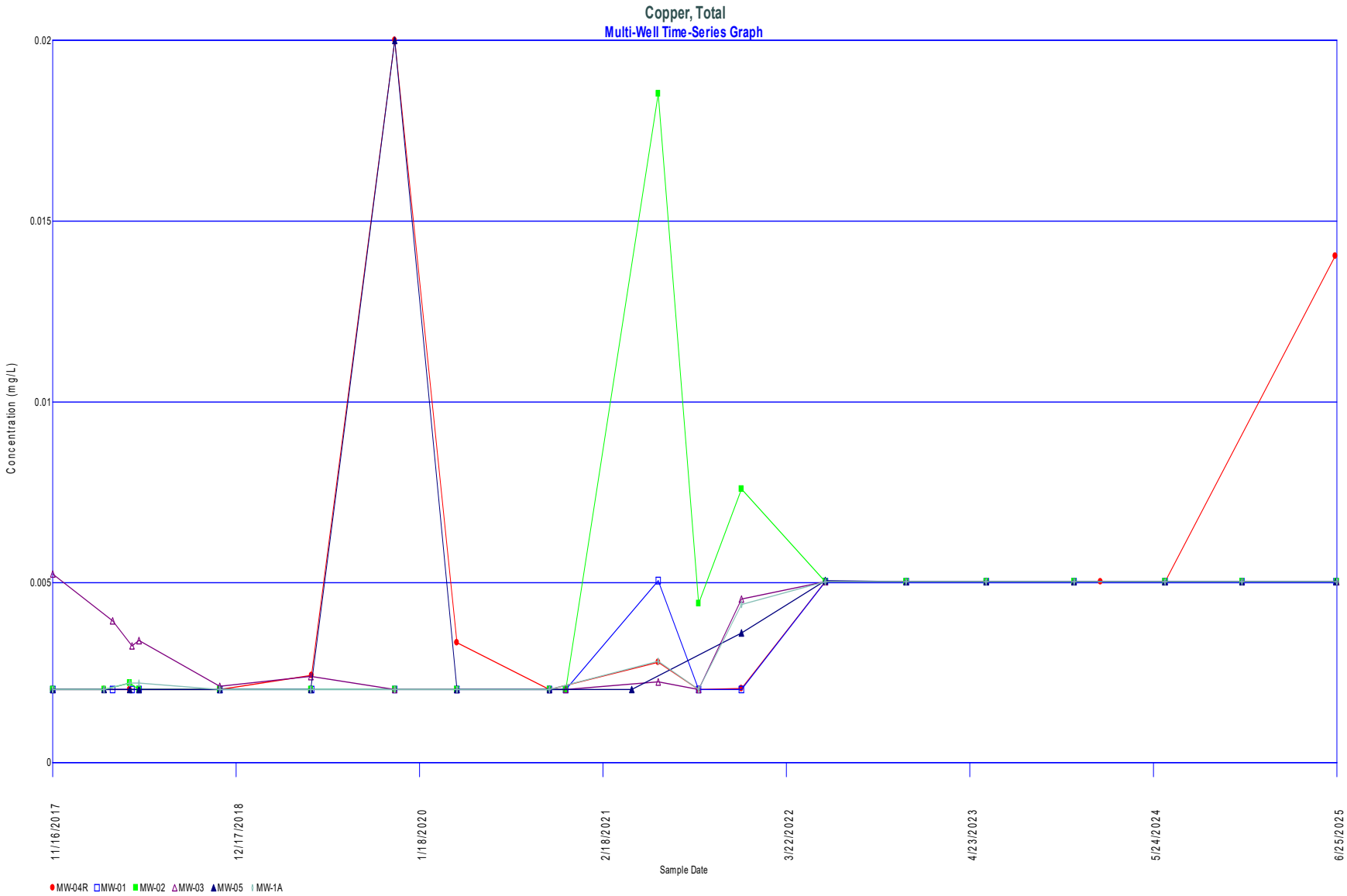

Barium, Total
Multi-Well Time-Series Graph
Concentration (mg/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A

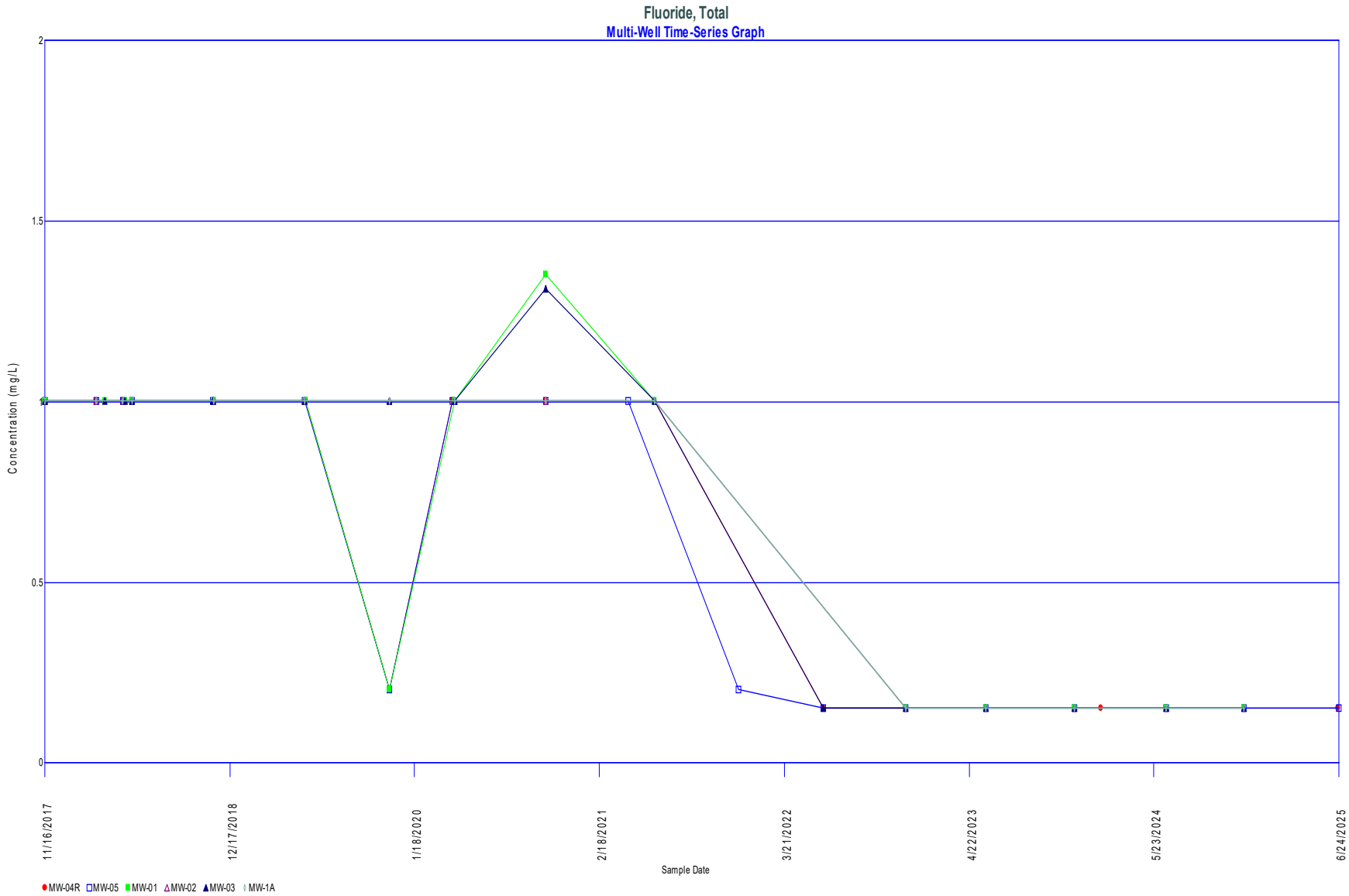

Beryllium, Total
Multi-Well Time-Series Graph
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A

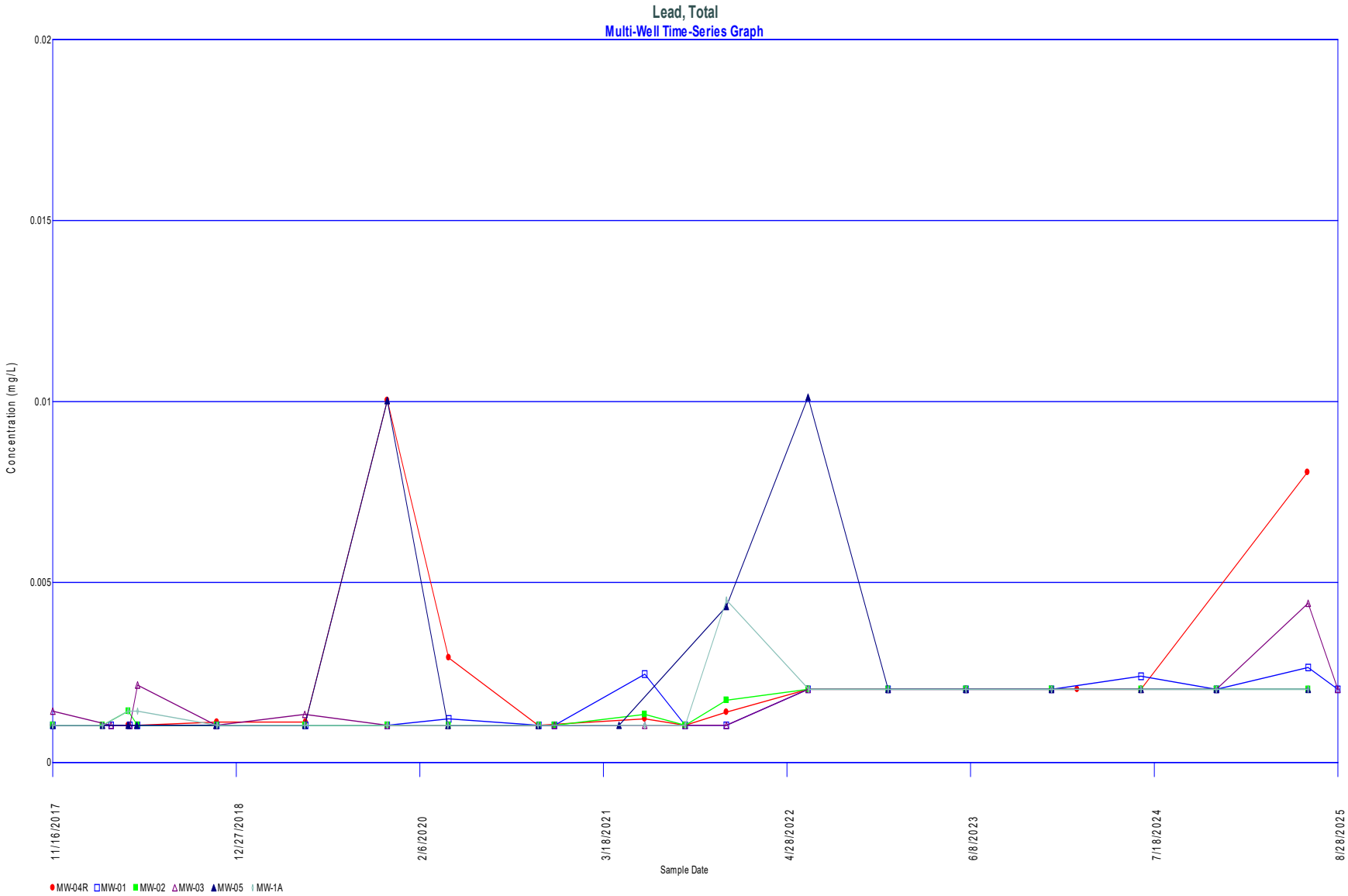

Cadmium, Total
Multi-Well Time-Series Graph
0.005
0.004
0.003
0.002
0.001
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A

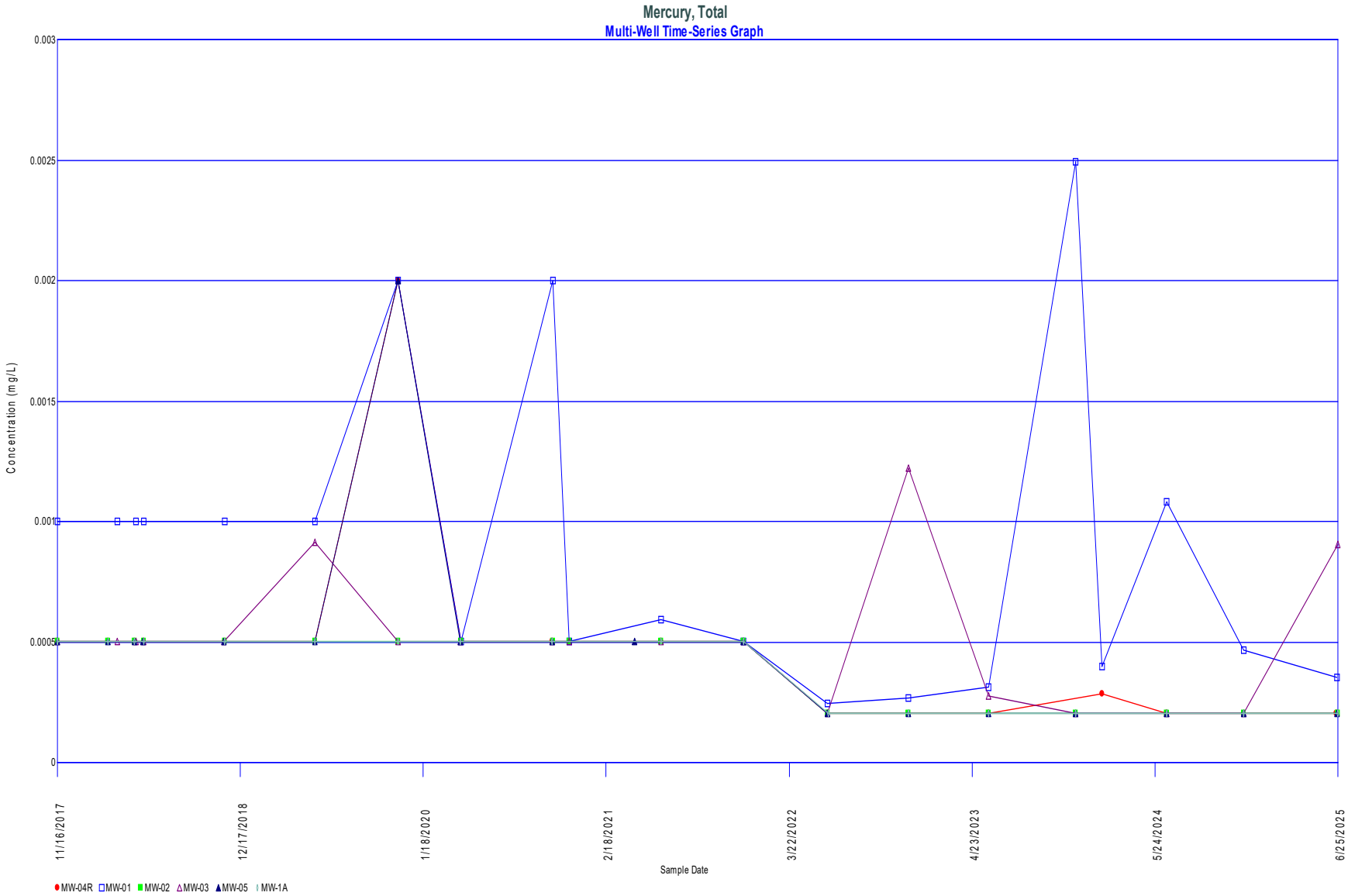

Chromium, Total
Multi-Well Time-Series Graph
0.02
0.015
0.01
0.005
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A

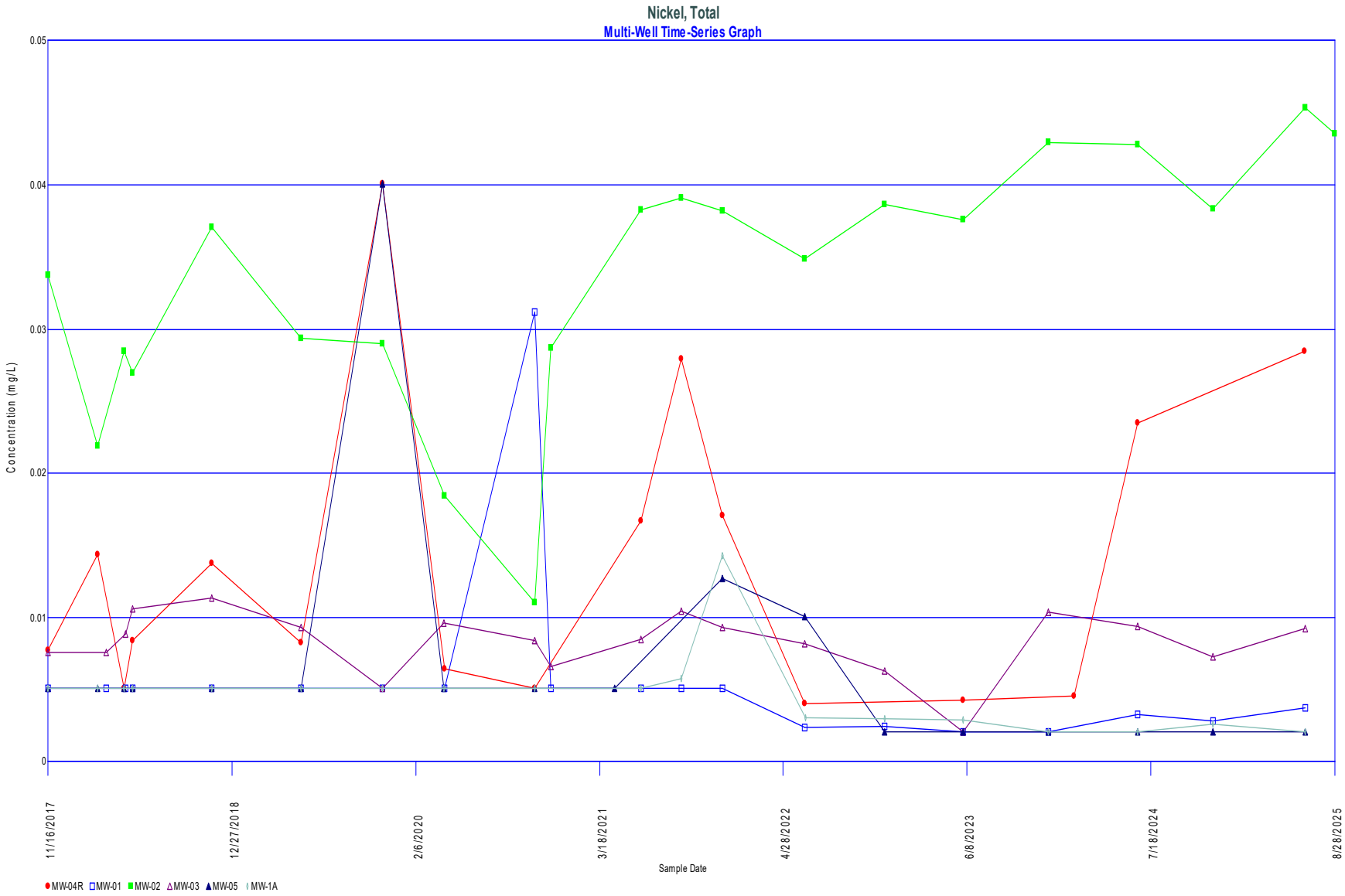

Cobalt, Total
Multi-Well Time-Series Graph
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
Concentration (mg/L)
11/16/2017
12/27/2018
2/6/2020
3/18/2021
4/28/2022
6/8/2023
7/18/2024
8/28/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A

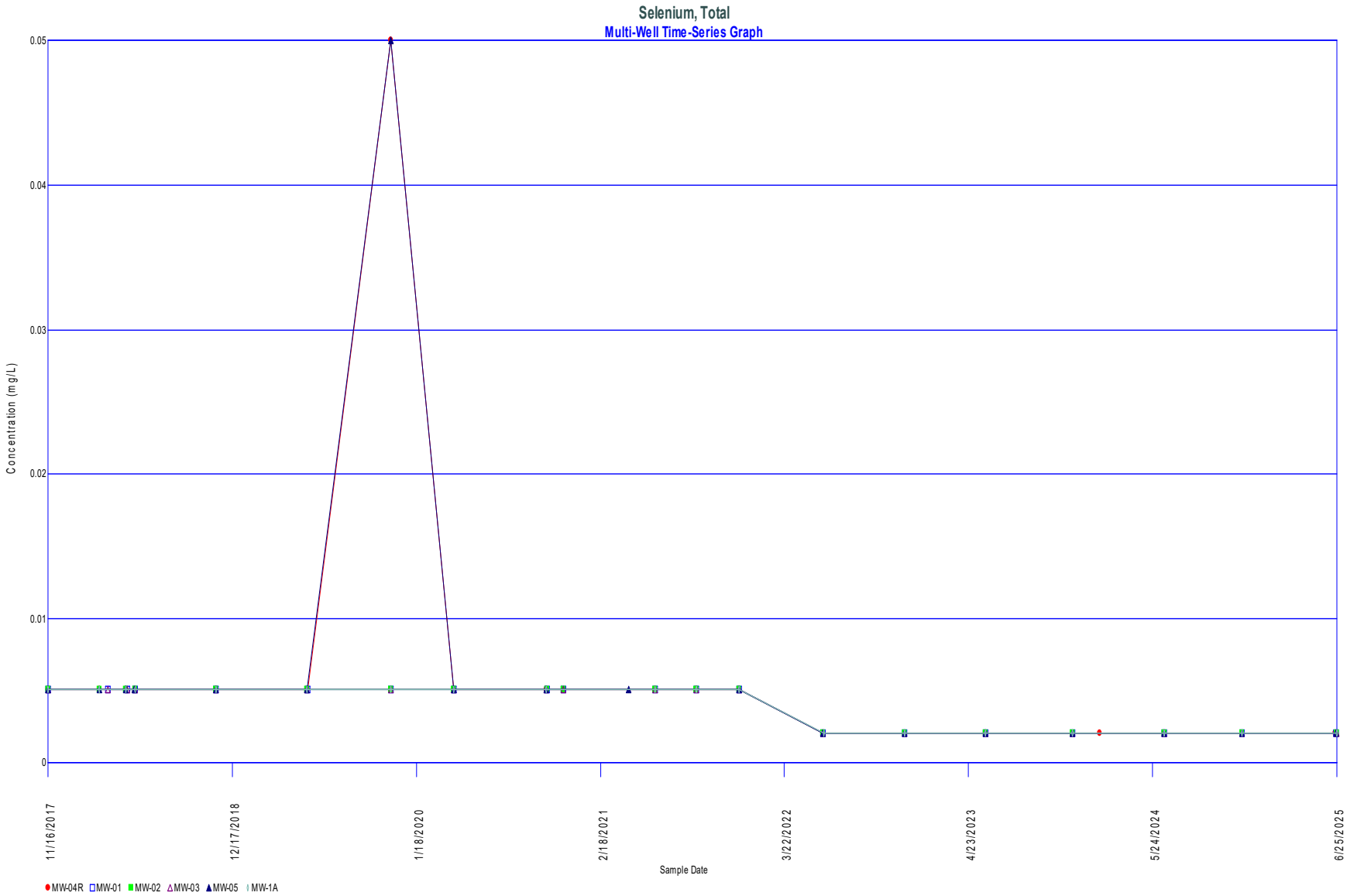

Copper, Total
Multi-Well Time-Series Graph
0.02
0.015
0.01
0.005
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A

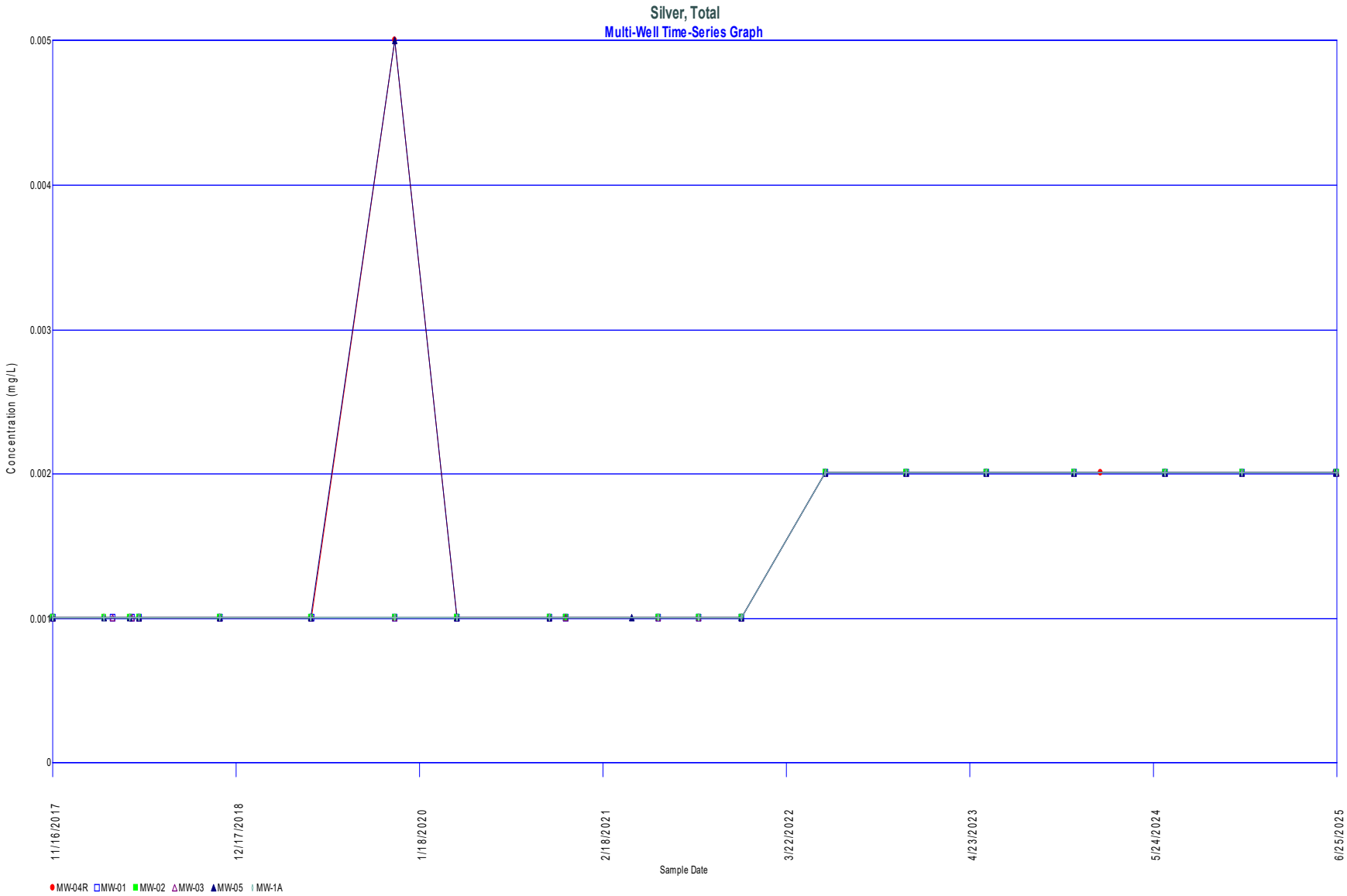

Fluoride, Total
Multi-Well Time-Series Graph
2
1.5
1
0.5
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/21/2022
4/22/2023
5/23/2024
6/24/2025
Sample Date
MW-04R
MW-05
MW-01
MW-02
MW-03
MW-1A

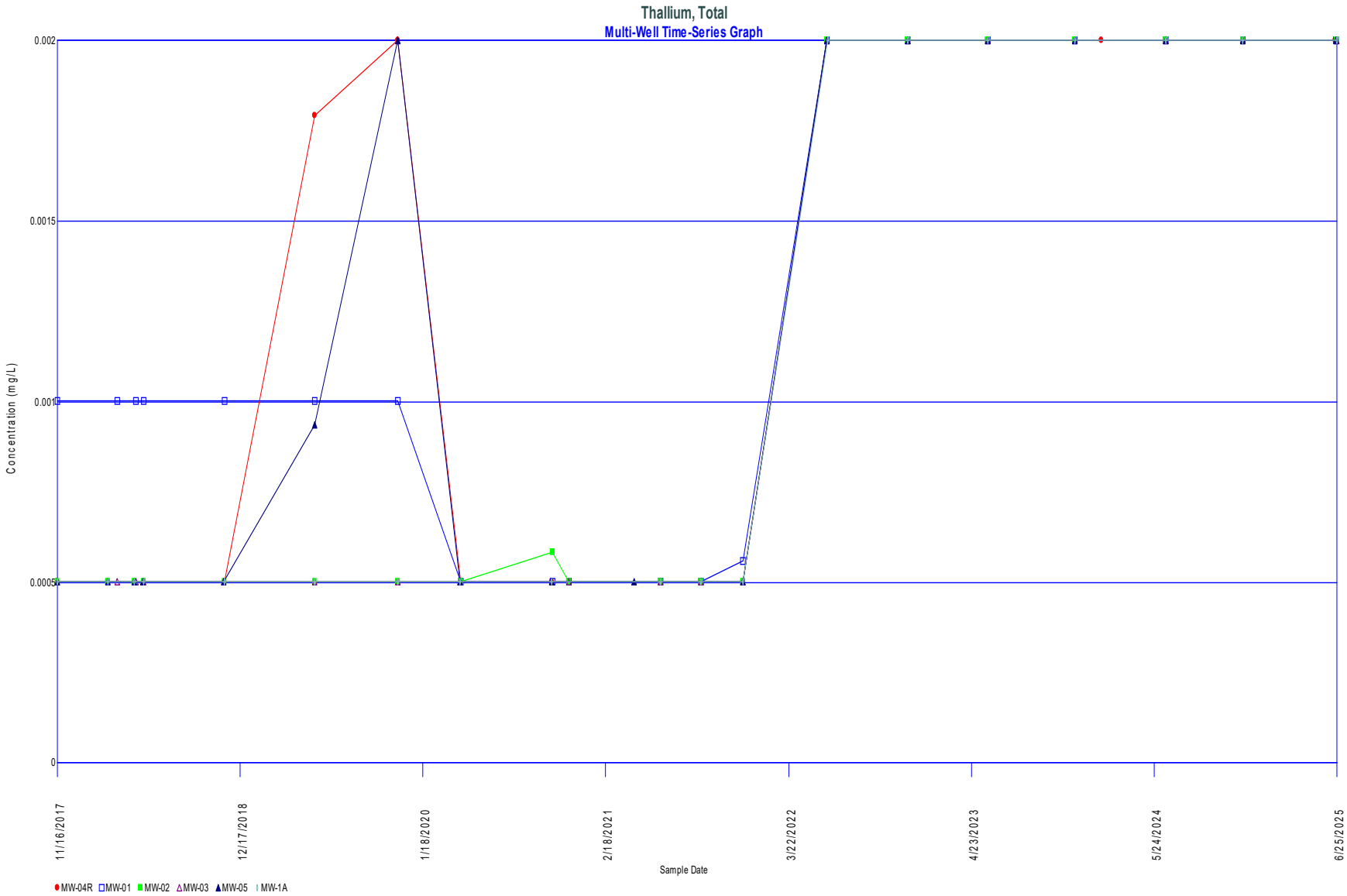

Lead, Total
Multi-Well Time-Series Graph
0.02
0.015
0.01
0.005
0
Concentration (mg/L)
11/16/2017
12/27/2018
2/6/2020
3/18/2021
4/28/2022
6/8/2023
7/18/2024
8/28/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A

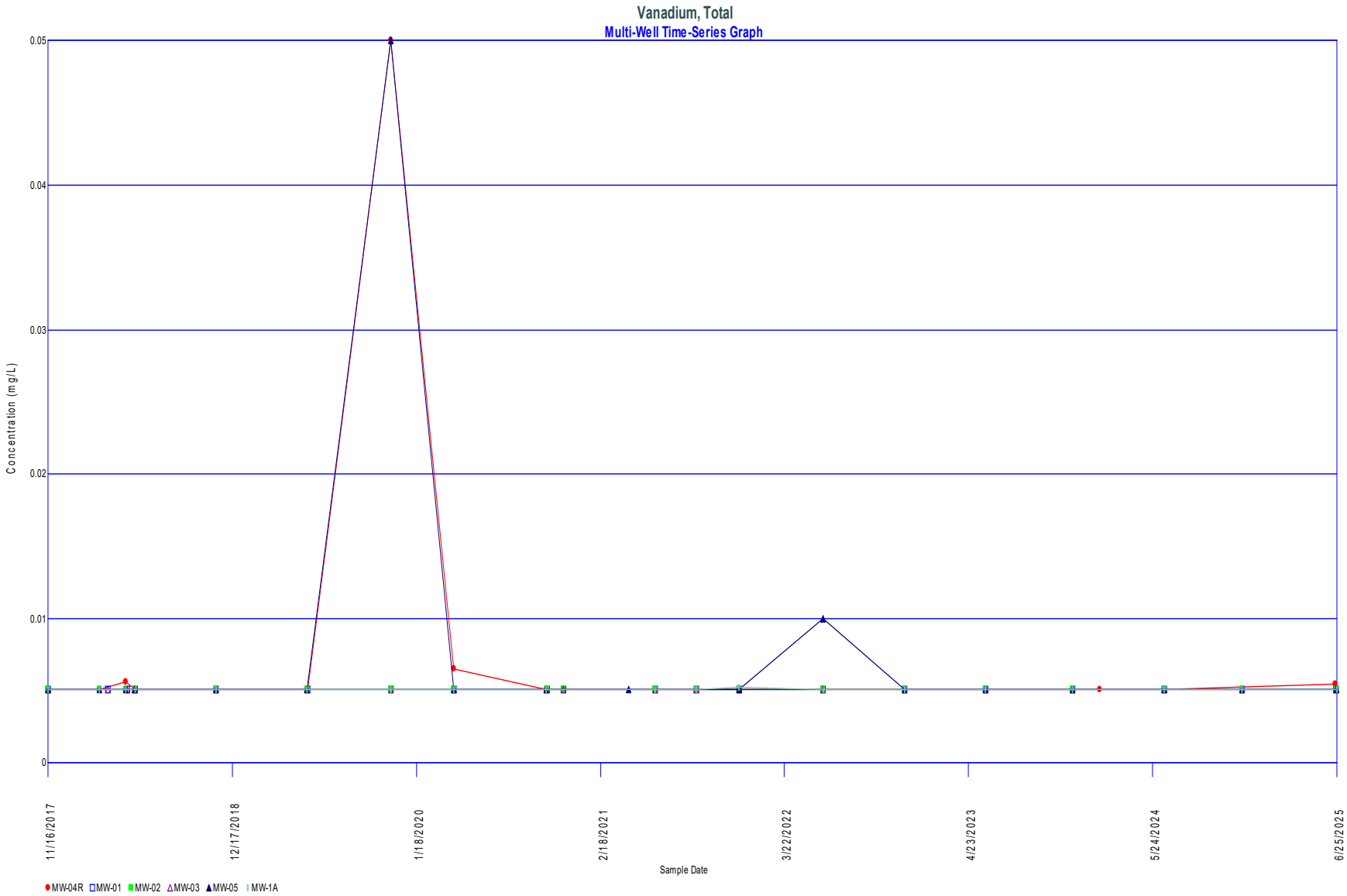

Mercury, Total
Multi-Well Time-Series Graph
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A


Nickel, Total
Multi-Well Time-Series Graph
0.05
0.04
0.03
0.02
0.01
0
Concentration (mg/L)
11/16/2017
12/27/2018
2/6/2020
3/18/2021
4/28/2022
6/8/2023
7/18/2024
8/28/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A


Selenium, Total
Multi-Well Time-Series Graph
0.05
0.04
0.03
0.02
0.01
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A


Silver, Total
Multi-Well Time-Series Graph
0.005
0.004
0.003
0.002
0.001
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A


Thallium, Total
Multi-Well Time-Series Graph
0.002
0.0015
0.001
0.0005
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A


Vanadium, Total
Multi-Well Time-Series Graph
0.05
0.04
0.03
0.02
0.01
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A

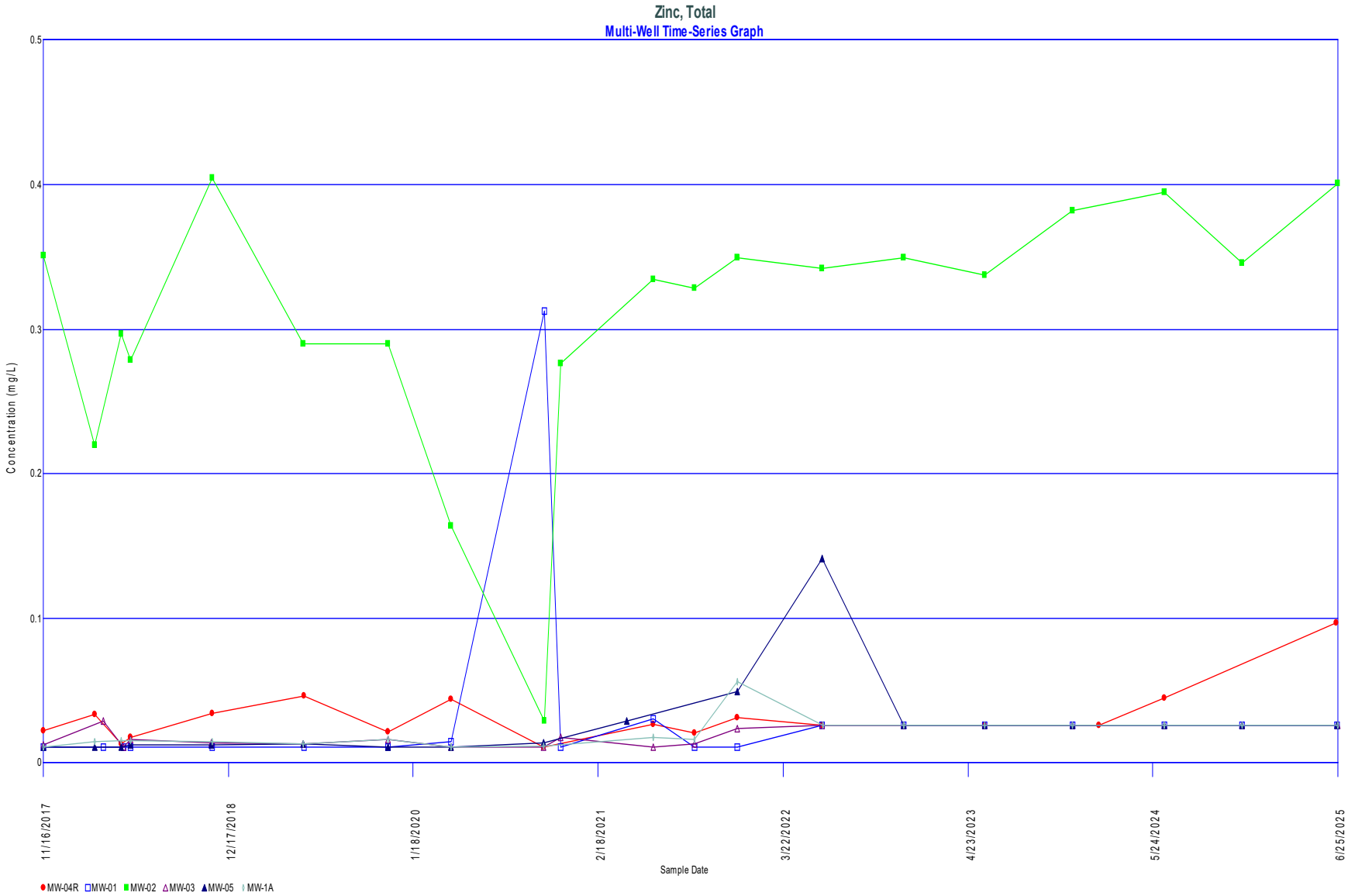

Zinc, Total
Multi-Well Time-Series Graph
0.5
0.4
0.3
0.2
0.1
0
Concentration (mg/L)
11/16/2017
12/17/2018
1/18/2020
2/18/2021
3/22/2022
4/23/2023
5/24/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-05
MW-1A

Table 3
Summary of Additional Indicator Parameters Monitored at the
Matlock Bend Phase I Landfill Unit (mg/L)
1st Semiannual 2025 Monitoring Event

Parameter	Calcium	COD	Chloride	Cyanide	Iron	Magnesium	Manganese (dissolved)	Nitrogen (Ammonia)	Nitrogen (Nitrate)	Potassium	Sodium	Sulfate	TDS	TOC
MCL/GWPS	NA	NA	250 [1]	0.2	0.3 [1]	NA	0.43 [2]	NA	10	NA	NA	250 [1]	500 [1]	NA
MW-4R	**27.6**	**20.4**	**3.92**	<0.025	**9.24**	**16.3**	**9.65**	<0.1	<0.1	**2.96**	<2	<5	**442**	**3.99**
MW-01	**38.8**	<20	**18.1**	<0.005	**1.59**	**23.1**	<0.005	<0.1	**1.28**	**2.46**	**8.33**	<5	**243**	<1
MW-1A	**56.3**	<20	**74.5**	<0.005	**0.161**	**23.2**	<0.005	<0.1	**3.99**	**35.6**	**44.3**	**22.8**	**528**	<1
MW-02	**2.16**	<20	**5.13**	<0.005	<0.1	**2.0**	**0.240**	<0.1	**5.37**	**3.06**	**3.79**	<5	**68**	<1
MW-03	**9.79**	<20	**35.0**	<0.005	**3.07**	**2.88**	**2.93**	**0.66**	**3.39**	**3.93**	**27.9**	**19.7**	**143**	**1.90**
Southwest Spring	**118**	<40	**720**	<0.005	**16.20**	**84.6**	**1.60**	**6.31**	<0.1	**66.3**	**265**	**<5**	**1,480**	<1

[1] -GWPS referenced value obtained from EPA secondary drinking water standards (non-enforceable).

[2] -GWPS referenced value obtained from most recent EPA Regional Screening Levels (THQ=1.0).

Bold value indicates result detected above the laboratory reporting limit.

Shaded cell indicates parameter exhibits an increasing trend in concentrations when considering all data.

NA: Parameter does not have an established MCL or EPA RSL.

Sen's Slope Analysis

Parameter: Calcium, Total

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 55

Sen's Estimator (Median Q) is -0.02

Time Period	Observations
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 0

B = 0

C = 0

D = 0

E = 0

F = 0

a = 2970

b = 8910

c = 220

Group Variance = 165

For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485

C = 21.1285

M1 = (55 - 21.1285)/2.0 = 16.9357

M2 = (55 + 21.1285)/2.0 + 1 = 39.0643

Lower limit is -1.21 = Q(17)

Upper limit is 1.5 = Q(39)

-1.21 < 0 < 1.5 indicating no trend in data.

Sen's Slope Analysis

Parameter: Calcium, Total

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 55

Sen's Estimator (Median Q) is -0.1

Time Period	Observations
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0

B = 0

C = 0

D = 0

E = 0

F = 0

a = 2970

b = 8910

c = 220

Group Variance = 165

For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485

C = 21.1285

M1 = (55 - 21.1285)/2.0 = 16.9357

M2 = (55 + 21.1285)/2.0 + 1 = 39.0643

Lower limit is -1.68222 = Q(17)

Upper limit is -0.02 = Q(39)

-0.02 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Calcium, Total

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 55

Sen's Estimator (Median Q) is -0.73875

Time Period	Observations
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 2970
b = 8910
c = 220
Group Variance = 165
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 21.1285
M1 = (55 - 21.1285)/2.0 = 16.9357
M2 = (55 + 21.1285)/2.0 + 1 = 39.0643
Lower limit is -1.5 = Q(17)
Upper limit is -0.416667 = Q(39)

-0.416667 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Calcium, Total

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 55

Sen's Estimator (Median Q) is -6.8

Time Period	Observations
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 2970
b = 8910
c = 220
Group Variance = 165
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 21.1285
M1 = (55 - 21.1285)/2.0 = 16.9357
M2 = (55 + 21.1285)/2.0 + 1 = 39.0643
Lower limit is -9.9 = Q(17)
Upper limit is -3.7 = Q(39)

-3.7 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Calcium, Total

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 28

Sen's Estimator (Median Q) is 3.05167

Time Period	Observations
4/10/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
5/30/2023	1
1/31/2024	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 0

B = 0

C = 0

D = 0

E = 0

F = 0

a = 1176

b = 3024

c = 112

Group Variance = 65.3333

For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485

C = 13.2952

M1 = (28 - 13.2952)/2.0 = 7.35241

M2 = (28 + 13.2952)/2.0 + 1 = 21.6476

Lower limit is 0.15 = Q(7)

Upper limit is 6.962 = Q(22)

0.15 > 0 indicating an upward trend in data.

Sen's Slope Analysis

Parameter: Chemical Oxygen Demand

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136

Sen's Estimator (Median Q) is 0.0416667

Tied Group	Value	Members
1	10	6
2	20	6

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 1020
B = 0
C = 240
D = 0
E = 60
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 532.667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 37.9625
M1 = (136 - 37.9625)/2.0 = 49.0187
M2 = (136 + 37.9625)/2.0 + 1 = 87.9813
Lower limit is 0 = Q(49)
Upper limit is 1 = Q(88)
0 < 0 < 1 indicating no trend in data.

Sen's Slope Analysis

Parameter: Chemical Oxygen Demand

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0.666667

Tied Group	Value	Members
1	10	10
2	20	7

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 3048
B = 0
C = 930
D = 0
E = 132
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 420
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 33.7095
M1 = (136 - 33.7095)/2.0 = 51.1453
M2 = (136 + 33.7095)/2.0 + 1 = 85.8547
Lower limit is 0 = Q(51)
Upper limit is 0.909091 = Q(86)
0 < 0 < 0.909091 indicating no trend in data.

Sen's Slope Analysis

Parameter: Chemical Oxygen Demand

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136

Sen's Estimator (Median Q) is 0.182639

Tied Group	Value	Members
1	10	3
2	20	7

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 864
B = 0
C = 216
D = 0
E = 48
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 541.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 38.2701
M1 = (136 - 38.2701)/2.0 = 48.865
M2 = (136 + 38.2701)/2.0 + 1 = 88.135
Lower limit is 0 = Q(49)
Upper limit is 0.714286 = Q(88)
0 < 0 < 0.714286 indicating no trend in data.

Sen's Slope Analysis

Parameter: Chemical Oxygen Demand
Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0.583929

Tied Group	Value	Members
1	10	5
2	20	7

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 1098
B = 0
C = 270
D = 0
E = 62
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 528.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 37.8078
M1 = (136 - 37.8078)/2.0 = 49.0961
M2 = (136 + 37.8078)/2.0 + 1 = 87.9039
Lower limit is 0 = Q(49)
Upper limit is 0.909091 = Q(88)
0 < 0 < 0.909091 indicating no trend in data.

Sen's Slope Analysis

Parameter: Chemical Oxygen Demand

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 15
Sen's Estimator (Median Q) is 0

Tied Group	Value	Members
1	20	2

Time Period	Observations
6/18/2021	1
12/15/2021	1
6/15/2022	1
5/30/2023	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 510
b = 1080
c = 60
Group Variance = 27.3333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 8.5995
M1 = (15 - 8.5995)/2.0 = 3.20025
M2 = (15 + 8.5995)/2.0 + 1 = 12.7998
Lower limit is -21.4333 = Q(3)
Upper limit is 3.3 = Q(13)
-21.4333 < 0 < 3.3 indicating no trend in data.

Sen's Slope Analysis

Parameter: Chloride

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.541667

Tied Group	Value	Members
1	23.9	2
2	31	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 36
B = 0
C = 0
D = 0
E = 4
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 587.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8629
M1 = (136 - 39.8629)/2.0 = 48.0685
M2 = (136 + 39.8629)/2.0 + 1 = 88.9315
Lower limit is -1.13846 = Q(48)
Upper limit is 0.08 = Q(89)
-1.13846 < 0 < 0.08 indicating no trend in data.

Sen's Slope Analysis

Parameter: Chloride

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136

Sen's Estimator (Median Q) is 0.100714

Tied Group	Value	Members
1	2.58	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 588.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8969
M1 = (136 - 39.8969)/2.0 = 48.0516
M2 = (136 + 39.8969)/2.0 + 1 = 88.9484
Lower limit is 0.06 = Q(48)
Upper limit is 0.149333 = Q(89)
0.06 > 0 indicating an upward trend in data.

Sen's Slope Analysis

Parameter: Chloride

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136

Sen's Estimator (Median Q) is -1.04333

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0

B = 0

C = 0

D = 0

E = 0

F = 0

a = 10608

b = 36720

c = 544

Group Variance = 589.333

For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485

C = 39.9308

M1 = (136 - 39.9308)/2.0 = 48.0346

M2 = (136 + 39.9308)/2.0 + 1 = 88.9654

Lower limit is -1.98182 = Q(48)

Upper limit is -0.4 = Q(89)

-0.4 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Chloride

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 153
Sen's Estimator (Median Q) is -6.8

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
9/2/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 12546
b = 44064
c = 612
Group Variance = 697
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 43.4254
M1 = (153 - 43.4254)/2.0 = 54.7873
M2 = (153 + 43.4254)/2.0 + 1 = 99.2127
Lower limit is -21.5 = Q(55)
Upper limit is 8.9 = Q(99)
-21.5 < 0 < 8.9 indicating no trend in data.

Sen's Slope Analysis

Parameter: Chloride

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 21
Sen's Estimator (Median Q) is 0.00666667

Tied Group	Value	Members
1	1	2

Time Period	Observations
6/18/2021	1
12/15/2021	1
6/15/2022	1
5/30/2023	1
1/31/2024	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 798
b = 1890
c = 84
Group Variance = 43.3333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 10.8277
M1 = (21 - 10.8277)/2.0 = 5.08613
M2 = (21 + 10.8277)/2.0 + 1 = 16.9139
Lower limit is -0.463333 = Q(5)
Upper limit is 0.905 = Q(17)
-0.463333 < 0 < 0.905 indicating no trend in data.

Sen's Slope Analysis

Parameter: Cyanide, Total

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.00659375

Tied Group	Value	Members
1	0.2	9
2	0.005	7

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 2454
B = 0
C = 714
D = 0
E = 114
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 453
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 35.0087
M1 = (136 - 35.0087)/2.0 = 50.4956
M2 = (136 + 35.0087)/2.0 + 1 = 86.5044
Lower limit is -0.0177273 = Q(50)
Upper limit is 0 = Q(87)
-0.0177273 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Cyanide, Total

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.00659375

Tied Group	Value	Members
1	0.2	9
2	0.005	7

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 2454
B = 0
C = 714
D = 0
E = 114
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 453
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 35.0087
M1 = (136 - 35.0087)/2.0 = 50.4956
M2 = (136 + 35.0087)/2.0 + 1 = 86.5044
Lower limit is -0.0177273 = Q(50)
Upper limit is 0 = Q(87)
-0.0177273 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Cyanide, Total
Location: MW-03

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.00777875

Tied Group	Value	Members
1	0.2	9
2	0.005	6

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 2166
B = 0
C = 624
D = 0
E = 102
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 469
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 35.6216
M1 = (136 - 35.6216)/2.0 = 50.1892
M2 = (136 + 35.6216)/2.0 + 1 = 86.8108
Lower limit is -0.0177273 = Q(50)
Upper limit is 0 = Q(87)
-0.0177273 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Cyanide, Total

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.00375

Tied Group	Value	Members
1	0.2	8
2	0.01	3
3	0.005	6

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 1752
B = 0
C = 462
D = 0
E = 92
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 492
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 36.4846
M1 = (136 - 36.4846)/2.0 = 49.7577
M2 = (136 + 36.4846)/2.0 + 1 = 87.2423
Lower limit is -0.0177273 = Q(50)
Upper limit is 0 = Q(87)
-0.0177273 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Cyanide, Total

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 10
Sen's Estimator (Median Q) is 4.5e-005

Tied Group	Value	Members
1	0.005	2

Time Period	Observations
6/18/2021	1
6/15/2022	1
5/30/2023	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 300
b = 540
c = 40
Group Variance = 15.6667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 6.51052
M1 = (10 - 6.51052)/2.0 = 1.74474
M2 = (10 + 6.51052)/2.0 + 1 = 9.25526
Lower limit is -0.0975 = Q(2)
Upper limit is 0.01 = Q(9)
-0.0975 < 0 < 0.01 indicating no trend in data.

Sen's Slope Analysis

Parameter: Iron, Total

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 153
Sen's Estimator (Median Q) is 0.0325455

Tied Group	Value	Members
1	0.1	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
9/2/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 12546
b = 44064
c = 612
Group Variance = 696
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 43.3942
M1 = (153 - 43.3942)/2.0 = 54.8029
M2 = (153 + 43.3942)/2.0 + 1 = 99.1971
Lower limit is -0.000857143 = Q(55)
Upper limit is 0.071625 = Q(99)
-0.000857143 < 0 < 0.071625 indicating no trend in data.

Sen's Slope Analysis

Parameter: Iron, Total

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0

Tied Group	Value	Members
1	0.1	9

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 1656
B = 0
C = 504
D = 0
E = 72
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 497.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 36.6818
M1 = (136 - 36.6818)/2.0 = 49.6591
M2 = (136 + 36.6818)/2.0 + 1 = 87.3409
Lower limit is -0.0104444 = Q(50)
Upper limit is 0 = Q(87)
-0.0104444 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Iron, Total

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0.0236071

Tied Group	Value	Members
1	0.1	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 588.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8969
M1 = (136 - 39.8969)/2.0 = 48.0516
M2 = (136 + 39.8969)/2.0 + 1 = 88.9484
Lower limit is -0.0005 = Q(48)
Upper limit is 0.0995 = Q(89)
-0.0005 < 0 < 0.0995 indicating no trend in data.

Sen's Slope Analysis

Parameter: Iron, Total

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0

Tied Group	Value	Members
1	0.1	11
2	0.137	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 2988
B = 0
C = 990
D = 0
E = 112
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 423.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 33.843
M1 = (136 - 33.843)/2.0 = 51.0785
M2 = (136 + 33.843)/2.0 + 1 = 85.9215
Lower limit is 0 = Q(51)
Upper limit is 0 = Q(86)
0 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Iron, Total

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 28
Sen's Estimator (Median Q) is -0.160333

Time Period	Observations
4/10/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
5/30/2023	1
1/31/2024	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 1176
b = 3024
c = 112
Group Variance = 65.3333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 13.2952
M1 = (28 - 13.2952)/2.0 = 7.35241
M2 = (28 + 13.2952)/2.0 + 1 = 21.6476
Lower limit is -0.54 = Q(7)
Upper limit is 1.205 = Q(22)
-0.54 < 0 < 1.205 indicating no trend in data.

Sen's Slope Analysis

Parameter: Magnesium, Total

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.441667

Tied Group	Value	Members
1	24.9	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 588.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8969
M1 = (136 - 39.8969)/2.0 = 48.0516
M2 = (136 + 39.8969)/2.0 + 1 = 88.9484
Lower limit is -0.836364 = Q(48)
Upper limit is -0.111111 = Q(89)
-0.111111 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Magnesium, Total

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.00555556

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 589.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.9308
M1 = (136 - 39.9308)/2.0 = 48.0346
M2 = (136 + 39.9308)/2.0 + 1 = 88.9654
Lower limit is -0.03 = Q(48)
Upper limit is 0.0255556 = Q(89)
-0.03 < 0 < 0.0255556 indicating no trend in data.

Sen's Slope Analysis

Parameter: Magnesium, Total

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.102143

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 589.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.9308
M1 = (136 - 39.9308)/2.0 = 48.0346
M2 = (136 + 39.9308)/2.0 + 1 = 88.9654
Lower limit is -0.223333 = Q(48)
Upper limit is -0.04 = Q(89)
-0.04 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Magnesium, Total

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.385714

Tied Group	Value	Members
1	23.2	2

Time Period	Observations
2/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 588.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8969
M1 = (136 - 39.8969)/2.0 = 48.0516
M2 = (136 + 39.8969)/2.0 + 1 = 88.9484
Lower limit is -1.13333 = Q(48)
Upper limit is 0.32 = Q(89)
-1.13333 < 0 < 0.32 indicating no trend in data.

Sen's Slope Analysis

Parameter: Magnesium, Total

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 28
Sen's Estimator (Median Q) is 1.76833

Time Period	Observations
4/10/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
5/30/2023	1
1/31/2024	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 1176
b = 3024
c = 112
Group Variance = 65.3333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 13.2952
M1 = (28 - 13.2952)/2.0 = 7.35241
M2 = (28 + 13.2952)/2.0 + 1 = 21.6476
Lower limit is -0.195 = Q(7)
Upper limit is 4.29 = Q(22)
-0.195 < 0 < 4.29 indicating no trend in data.

Sen's Slope Analysis

Parameter: Manganese, Dissolved

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.000139423

Tied Group	Value	Members
1	0.01	10
2	0.005	6

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 2760
B = 0
C = 840
D = 0
E = 120
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 436
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 34.3455
M1 = (136 - 34.3455)/2.0 = 50.8272
M2 = (136 + 34.3455)/2.0 + 1 = 86.1728
Lower limit is -0.000416667 = Q(51)
Upper limit is 0 = Q(86)
-0.000416667 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Manganese, Dissolved

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 153
Sen's Estimator (Median Q) is 0.005

Time Period	Observations
2/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
9/2/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
7/13/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 12546
b = 44064
c = 612
Group Variance = 697
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 43.4254
M1 = (153 - 43.4254)/2.0 = 54.7873
M2 = (153 + 43.4254)/2.0 + 1 = 99.2127
Lower limit is 0.00222222 = Q(55)
Upper limit is 0.00758333 = Q(99)
0.00222222 > 0 indicating an upward trend in data.

Sen's Slope Analysis

Parameter: Manganese, Dissolved

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 153
Sen's Estimator (Median Q) is 0.163636

Time Period	Observations
2/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
9/2/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
7/13/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 12546
b = 44064
c = 612
Group Variance = 697
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 43.4254
M1 = (153 - 43.4254)/2.0 = 54.7873
M2 = (153 + 43.4254)/2.0 + 1 = 99.2127
Lower limit is 0.02875 = Q(55)
Upper limit is 0.342857 = Q(99)
0.02875 > 0 indicating an upward trend in data.

Sen's Slope Analysis

Parameter: Manganese, Dissolved

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -5.92424e-005

Tied Group	Value	Members
1	0.01	4
2	0.005	2

Time Period	Observations
2/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
7/13/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 174
B = 0
C = 24
D = 0
E = 14
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 579.667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.6019
M1 = (136 - 39.6019)/2.0 = 48.199
M2 = (136 + 39.6019)/2.0 + 1 = 88.801
Lower limit is -0.00065 = Q(48)
Upper limit is 0.00165556 = Q(89)
-0.00065 < 0 < 0.00165556 indicating no trend in data.

Sen's Slope Analysis

Parameter: Manganese, Dissolved

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 15
Sen's Estimator (Median Q) is 0.71

Time Period	Observations
6/18/2021	1
12/15/2021	1
6/15/2022	1
7/13/2023	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 510
b = 1080
c = 60
Group Variance = 28.3333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 8.7554
M1 = (15 - 8.7554)/2.0 = 3.1223
M2 = (15 + 8.7554)/2.0 + 1 = 12.8777
Lower limit is -1.51 = Q(3)
Upper limit is 2.78667 = Q(13)
-1.51 < 0 < 2.78667 indicating no trend in data.

Sen's Slope Analysis

Parameter: Nitrogen, Ammonia

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0

Tied Group	Value	Members
1	0.2	10
2	0.25	5
3	0.1	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 2568
B = 0
C = 780
D = 0
E = 112
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 446.667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 34.7631
M1 = (136 - 34.7631)/2.0 = 50.6184
M2 = (136 + 34.7631)/2.0 + 1 = 86.3816
Lower limit is 0 = Q(51)
Upper limit is 0 = Q(86)
0 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Nitrogen, Ammonia

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0

Tied Group	Value	Members
1	0.2	10
2	0.25	5
3	0.1	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 2568
B = 0
C = 780
D = 0
E = 112
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 446.667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 34.7631
M1 = (136 - 34.7631)/2.0 = 50.6184
M2 = (136 + 34.7631)/2.0 + 1 = 86.3816
Lower limit is 0 = Q(51)
Upper limit is 0 = Q(86)
0 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Nitrogen, Ammonia

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.1335

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 589.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.9308
M1 = (136 - 39.9308)/2.0 = 48.0346
M2 = (136 + 39.9308)/2.0 + 1 = 88.9654
Lower limit is -0.231667 = Q(48)
Upper limit is -0.0314286 = Q(89)
-0.0314286 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Nitrogen, Ammonia

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0

Tied Group	Value	Members
1	0.2	5
2	0.25	5
3	0.1	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 618
B = 0
C = 120
D = 0
E = 42
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 555
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 38.7502
M1 = (136 - 38.7502)/2.0 = 48.6249
M2 = (136 + 38.7502)/2.0 + 1 = 88.3751
Lower limit is -0.0375 = Q(49)
Upper limit is 0.00416667 = Q(88)
-0.0375 < 0 < 0.00416667 indicating no trend in data.

Sen's Slope Analysis

Parameter: Nitrogen, Ammonia

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 15
Sen's Estimator (Median Q) is 0

Tied Group	Value	Members
1	0.2	2
2	0.25	3

Time Period	Observations
6/18/2021	1
12/15/2021	1
6/15/2022	1
5/30/2023	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 84
B = 0
C = 6
D = 0
E = 8
F = 0
a = 510
b = 1080
c = 60
Group Variance = 23.6667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 8.00195
M1 = (15 - 8.00195)/2.0 = 3.49903
M2 = (15 + 8.00195)/2.0 + 1 = 12.501
Lower limit is -0.05 = Q(3)
Upper limit is 0.025 = Q(13)
-0.05 < 0 < 0.025 indicating no trend in data.

Sen's Slope Analysis

Parameter: Nitrogen, Nitrate

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 153
Sen's Estimator (Median Q) is -0.432

Tied Group	Value	Members
1	10	6

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
10/26/2020	1
6/18/2021	1
9/15/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 510
B = 0
C = 120
D = 0
E = 30
F = 0
a = 12546
b = 44064
c = 612
Group Variance = 668.667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 42.5336
M1 = (153 - 42.5336)/2.0 = 55.2332
M2 = (153 + 42.5336)/2.0 + 1 = 98.7668
Lower limit is -0.743636 = Q(55)
Upper limit is -0.085 = Q(99)
-0.085 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Nitrogen, Nitrate

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 171
Sen's Estimator (Median Q) is -0.289375

Tied Group	Value	Members
1	10	7
2	4.04	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
9/2/2020	1
10/27/2020	1
6/18/2021	1
9/15/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 816
B = 0
C = 210
D = 0
E = 44
F = 0
a = 14706
b = 52326
c = 684
Group Variance = 771.667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 45.6922
M1 = (171 - 45.6922)/2.0 = 62.6539
M2 = (171 + 45.6922)/2.0 + 1 = 109.346
Lower limit is -0.45 = Q(63)
Upper limit is 0 = Q(109)

-0.45 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Nitrogen, Nitrate

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 171
Sen's Estimator (Median Q) is -0.164

Tied Group	Value	Members
1	10	7
2	0.25	4

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
9/2/2020	1
10/26/2020	1
6/18/2021	1
9/15/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 954
B = 0
C = 234
D = 0
E = 54
F = 0
a = 14706
b = 52326
c = 684
Group Variance = 764
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 45.4646
M1 = (171 - 45.4646)/2.0 = 62.7677
M2 = (171 + 45.4646)/2.0 + 1 = 109.232
Lower limit is -0.741692 = Q(63)
Upper limit is 0 = Q(109)

-0.741692 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Nitrogen, Nitrate

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 171
Sen's Estimator (Median Q) is -0.278462

Tied Group	Value	Members
1	10	6

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
9/2/2020	1
10/26/2020	1
6/18/2021	1
9/15/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 510
B = 0
C = 120
D = 0
E = 30
F = 0
a = 14706
b = 52326
c = 684
Group Variance = 788.667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 46.1928
M1 = (171 - 46.1928)/2.0 = 62.4036
M2 = (171 + 46.1928)/2.0 + 1 = 109.596
Lower limit is -0.429286 = Q(62)
Upper limit is -0.117143 = Q(110)
-0.117143 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Nitrogen, Nitrate

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 28

Sen's Estimator (Median Q) is -0.0232143

Tied Group	Value	Members
1	0.25	3
2	0.1	5

Time Period	Observations
6/18/2021	1
9/15/2021	1
12/15/2021	1
6/15/2022	1
5/30/2023	1
1/31/2024	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 366

B = 0

C = 66

D = 0

E = 26

F = 0

a = 1176

b = 3024

c = 112

Group Variance = 45

For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485

C = 11.034

M1 = (28 - 11.034)/2.0 = 8.483

M2 = (28 + 11.034)/2.0 + 1 = 20.517

Lower limit is -0.0375 = Q(8)

Upper limit is 0 = Q(21)

-0.0375 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Potassium, Total

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.0191667

Tied Group	Value	Members
1	2.86	2
2	3.18	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 36
B = 0
C = 0
D = 0
E = 4
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 587.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8629
M1 = (136 - 39.8629)/2.0 = 48.0685
M2 = (136 + 39.8629)/2.0 + 1 = 88.9315
Lower limit is -0.0654545 = Q(48)
Upper limit is 0.0211111 = Q(89)
-0.0654545 < 0 < 0.0211111 indicating no trend in data.

Sen's Slope Analysis

Parameter: Potassium, Total

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0.030625

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 589.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.9308
M1 = (136 - 39.9308)/2.0 = 48.0346
M2 = (136 + 39.9308)/2.0 + 1 = 88.9654
Lower limit is -0.00222222 = Q(48)
Upper limit is 0.0528571 = Q(89)
-0.00222222 < 0 < 0.0528571 indicating no trend in data.

Sen's Slope Analysis

Parameter: Potassium, Total
Location: MW-03

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.0316667

Tied Group	Value	Members
1	5.07	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 588.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8969
M1 = (136 - 39.8969)/2.0 = 48.0516
M2 = (136 + 39.8969)/2.0 + 1 = 88.9484
Lower limit is -0.1725 = Q(48)
Upper limit is 0.069 = Q(89)
-0.1725 < 0 < 0.069 indicating no trend in data.

Sen's Slope Analysis

Parameter: Potassium, Total
Location: MW-1A

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 2.05179

Tied Group	Value	Members
1	47	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 588.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8969
M1 = (136 - 39.8969)/2.0 = 48.0516
M2 = (136 + 39.8969)/2.0 + 1 = 88.9484
Lower limit is 0.2 = Q(48)
Upper limit is 3.31429 = Q(89)
0.2 > 0 indicating an upward trend in data.

Sen's Slope Analysis

Parameter: Potassium, Total

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 28
Sen's Estimator (Median Q) is -0.03

Time Period	Observations
4/10/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
5/30/2023	1
1/31/2024	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 1176
b = 3024
c = 112
Group Variance = 65.3333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 13.2952
M1 = (28 - 13.2952)/2.0 = 7.35241
M2 = (28 + 13.2952)/2.0 + 1 = 21.6476
Lower limit is -0.123333 = Q(7)
Upper limit is 0.1075 = Q(22)
-0.123333 < 0 < 0.1075 indicating no trend in data.

Sen's Slope Analysis

Parameter: Sodium, Total

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -0.115357

Tied Group	Value	Members
1	10.7	2
2	13.6	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 36
B = 0
C = 0
D = 0
E = 4
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 587.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8629
M1 = (136 - 39.8629)/2.0 = 48.0685
M2 = (136 + 39.8629)/2.0 + 1 = 88.9315
Lower limit is -0.345 = Q(48)
Upper limit is 0.15 = Q(89)
-0.345 < 0 < 0.15 indicating no trend in data.

Sen's Slope Analysis

Parameter: Sodium, Total

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0.0792857

Tied Group	Value	Members
1	2.55	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 588.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8969
M1 = (136 - 39.8969)/2.0 = 48.0516
M2 = (136 + 39.8969)/2.0 + 1 = 88.9484
Lower limit is 0.0269231 = Q(48)
Upper limit is 0.127143 = Q(89)
0.0269231 > 0 indicating an upward trend in data.

Sen's Slope Analysis

Parameter: Sodium, Total

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -1

Tied Group	Value	Members
1	25.1	2
2	27.9	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 36
B = 0
C = 0
D = 0
E = 4
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 587.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8629
M1 = (136 - 39.8629)/2.0 = 48.0685
M2 = (136 + 39.8629)/2.0 + 1 = 88.9315
Lower limit is -1.53333 = Q(48)
Upper limit is -0.292308 = Q(89)
-0.292308 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Sodium, Total

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 2.47857

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 589.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.9308
M1 = (136 - 39.9308)/2.0 = 48.0346
M2 = (136 + 39.9308)/2.0 + 1 = 88.9654
Lower limit is -5.5 = Q(48)
Upper limit is 6.7 = Q(89)
-5.5 < 0 < 6.7 indicating no trend in data.

Sen's Slope Analysis

Parameter: Sodium, Total

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 28
Sen's Estimator (Median Q) is 0

Tied Group	Value	Members
1	2	4

Time Period	Observations
4/10/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
5/30/2023	1
1/31/2024	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 156
B = 0
C = 24
D = 0
E = 12
F = 0
a = 1176
b = 3024
c = 112
Group Variance = 56.6667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 12.382
M1 = (28 - 12.382)/2.0 = 7.809
M2 = (28 + 12.382)/2.0 + 1 = 21.191
Lower limit is -0.0966667 = Q(8)
Upper limit is 0.5275 = Q(21)
-0.0966667 < 0 < 0.5275 indicating no trend in data.

Sen's Slope Analysis

Parameter: Sulfate

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0.075

Tied Group	Value	Members
1	3.44	2
2	5	6

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 528
B = 0
C = 120
D = 0
E = 32
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 560
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 38.9243
M1 = (136 - 38.9243)/2.0 = 48.5378
M2 = (136 + 38.9243)/2.0 + 1 = 88.4622
Lower limit is 0 = Q(49)
Upper limit is 0.136667 = Q(88)
0 < 0 < 0.136667 indicating no trend in data.

Sen's Slope Analysis

Parameter: Sulfate

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136

Sen's Estimator (Median Q) is 0.160417

Tied Group	Value	Members
1	1	7
2	5	7

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 1596

B = 0

C = 420

D = 0

E = 84

F = 0

a = 10608

b = 36720

c = 544

Group Variance = 500.667

For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485

C = 36.8045

M1 = (136 - 36.8045)/2.0 = 49.5977

M2 = (136 + 36.8045)/2.0 + 1 = 87.4023

Lower limit is 0 = Q(50)

Upper limit is 0.363636 = Q(87)

0 < 0 < 0.363636 indicating no trend in data.

Sen's Slope Analysis

Parameter: Sulfate

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is 0.123214

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 589.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.9308
M1 = (136 - 39.9308)/2.0 = 48.0346
M2 = (136 + 39.9308)/2.0 + 1 = 88.9654
Lower limit is -0.34 = Q(48)
Upper limit is 0.663636 = Q(89)
-0.34 < 0 < 0.663636 indicating no trend in data.

Sen's Slope Analysis

Parameter: Sulfate

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136

Sen's Estimator (Median Q) is -0.489205

Tied Group	Value	Members
1	22.8	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/15/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 588.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8969
M1 = (136 - 39.8969)/2.0 = 48.0516
M2 = (136 + 39.8969)/2.0 + 1 = 88.9484
Lower limit is -0.9 = Q(48)
Upper limit is -0.171429 = Q(89)
-0.171429 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Sulfate

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 21
Sen's Estimator (Median Q) is 0

Tied Group	Value	Members
1	5	5

Time Period	Observations
6/18/2021	1
12/15/2021	1
6/15/2022	1
5/30/2023	1
1/31/2024	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 300
B = 0
C = 60
D = 0
E = 20
F = 0
a = 798
b = 1890
c = 84
Group Variance = 27.6667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 8.65178
M1 = (21 - 8.65178)/2.0 = 6.17411
M2 = (21 + 8.65178)/2.0 + 1 = 15.8259
Lower limit is 0 = Q(6)
Upper limit is 0.925 = Q(16)
0 < 0 < 0.925 indicating no trend in data.

Sen's Slope Analysis

Parameter: Solids, Total Dissolved

Location: MW-01

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -5.27922

Tied Group	Value	Members
1	257	2
2	223	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 36
B = 0
C = 0
D = 0
E = 4
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 587.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8629
M1 = (136 - 39.8629)/2.0 = 48.0685
M2 = (136 + 39.8629)/2.0 + 1 = 88.9315
Lower limit is -8.41667 = Q(48)
Upper limit is -3 = Q(89)
-3 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Solids, Total Dissolved

Location: MW-02

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 153
Sen's Estimator (Median Q) is -0.5

Tied Group	Value	Members
1	63	2
2	72	2
3	57	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
9/2/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 54
B = 0
C = 0
D = 0
E = 6
F = 0
a = 12546
b = 44064
c = 612
Group Variance = 694
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 43.3318
M1 = (153 - 43.3318)/2.0 = 54.8341
M2 = (153 + 43.3318)/2.0 + 1 = 99.1659
Lower limit is -1.6 = Q(55)
Upper limit is 1 = Q(99)

-1.6 < 0 < 1 indicating no trend in data.

Sen's Slope Analysis

Parameter: Solids, Total Dissolved

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 136
Sen's Estimator (Median Q) is -2.60714

Tied Group	Value	Members
1	172	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 10608
b = 36720
c = 544
Group Variance = 588.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 39.8969
M1 = (136 - 39.8969)/2.0 = 48.0516
M2 = (136 + 39.8969)/2.0 + 1 = 88.9484
Lower limit is -5.14286 = Q(48)
Upper limit is 0 = Q(89)
-5.14286 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Solids, Total Dissolved

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 153
Sen's Estimator (Median Q) is -7

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
9/2/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
5/30/2023	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 12546
b = 44064
c = 612
Group Variance = 697
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 43.4254
M1 = (153 - 43.4254)/2.0 = 54.7873
M2 = (153 + 43.4254)/2.0 + 1 = 99.2127
Lower limit is -35.7273 = Q(55)
Upper limit is 12.9167 = Q(99)
-35.7273 < 0 < 12.9167 indicating no trend in data.

Sen's Slope Analysis

Parameter: Solids, Total Dissolved

Location: MW-04R

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 10
Sen's Estimator (Median Q) is 25.5

Time Period	Observations
6/18/2021	1
6/15/2022	1
5/30/2023	1
6/19/2024	1
6/23/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 300
b = 540
c = 40
Group Variance = 16.6667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 6.71508
M1 = (10 - 6.71508)/2.0 = 1.64246
M2 = (10 + 6.71508)/2.0 + 1 = 9.35754
Lower limit is -24 = Q(2)
Upper limit is 160.5 = Q(9)
-24 < 0 < 160.5 indicating no trend in data.

Sen's Slope Analysis

Parameter: Total Organic Carbon
Location: MW-01

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 120
Sen's Estimator (Median Q) is -0.236111

Tied Group	Value	Members
1	1	9

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/24/2025	1

There are 0 time periods with multiple data

A = 1656
B = 0
C = 504
D = 0
E = 72
F = 0
a = 8880
b = 30240
c = 480
Group Variance = 401.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 32.9518
M1 = (120 - 32.9518)/2.0 = 43.5241
M2 = (120 + 32.9518)/2.0 + 1 = 77.4759
Lower limit is -1.02 = Q(44)
Upper limit is 0 = Q(77)
-1.02 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Total Organic Carbon
Location: MW-02

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 120
Sen's Estimator (Median Q) is 0

Tied Group	Value	Members
1	1	11

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/10/2020	1
10/27/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 2970
B = 0
C = 990
D = 0
E = 110
F = 0
a = 8880
b = 30240
c = 480
Group Variance = 328.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 29.8047
M1 = (120 - 29.8047)/2.0 = 45.0977
M2 = (120 + 29.8047)/2.0 + 1 = 75.9023
Lower limit is -0.155833 = Q(45)
Upper limit is 0 = Q(76)
-0.155833 < 0 < 0 indicating no trend in data.

Sen's Slope Analysis

Parameter: Total Organic Carbon

Location: MW-03

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 120
Sen's Estimator (Median Q) is -0.4235

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/15/2022	1
12/8/2022	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 0
B = 0
C = 0
D = 0
E = 0
F = 0
a = 8880
b = 30240
c = 480
Group Variance = 493.333
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 36.534
M1 = (120 - 36.534)/2.0 = 41.733
M2 = (120 + 36.534)/2.0 + 1 = 79.267
Lower limit is -0.8 = Q(42)
Upper limit is -0.134444 = Q(79)
-0.134444 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Total Organic Carbon

Location: MW-1A

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

90% Confidence Level

Number of Q values = 120
Sen's Estimator (Median Q) is -0.27125

Tied Group	Value	Members
1	1	6
2	2.21	2

Time Period	Observations
5/25/2017	1
11/16/2017	1
5/22/2018	1
11/13/2018	1
5/29/2019	1
11/26/2019	1
4/9/2020	1
10/26/2020	1
6/18/2021	1
12/15/2021	1
6/16/2022	1
12/8/2022	1
12/5/2023	1
6/19/2024	1
12/3/2024	1
6/25/2025	1

There are 0 time periods with multiple data

A = 528
B = 0
C = 120
D = 0
E = 32
F = 0
a = 8880
b = 30240
c = 480
Group Variance = 464
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 35.4312
M1 = (120 - 35.4312)/2.0 = 42.2844
M2 = (120 + 35.4312)/2.0 + 1 = 78.7156
Lower limit is -1.21 = Q(42)
Upper limit is -0.002 = Q(79)
-0.002 < 0 indicating a downward trend in data.

Sen's Slope Analysis

Parameter: Total Organic Carbon
Location: MW-04R

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

90% Confidence Level

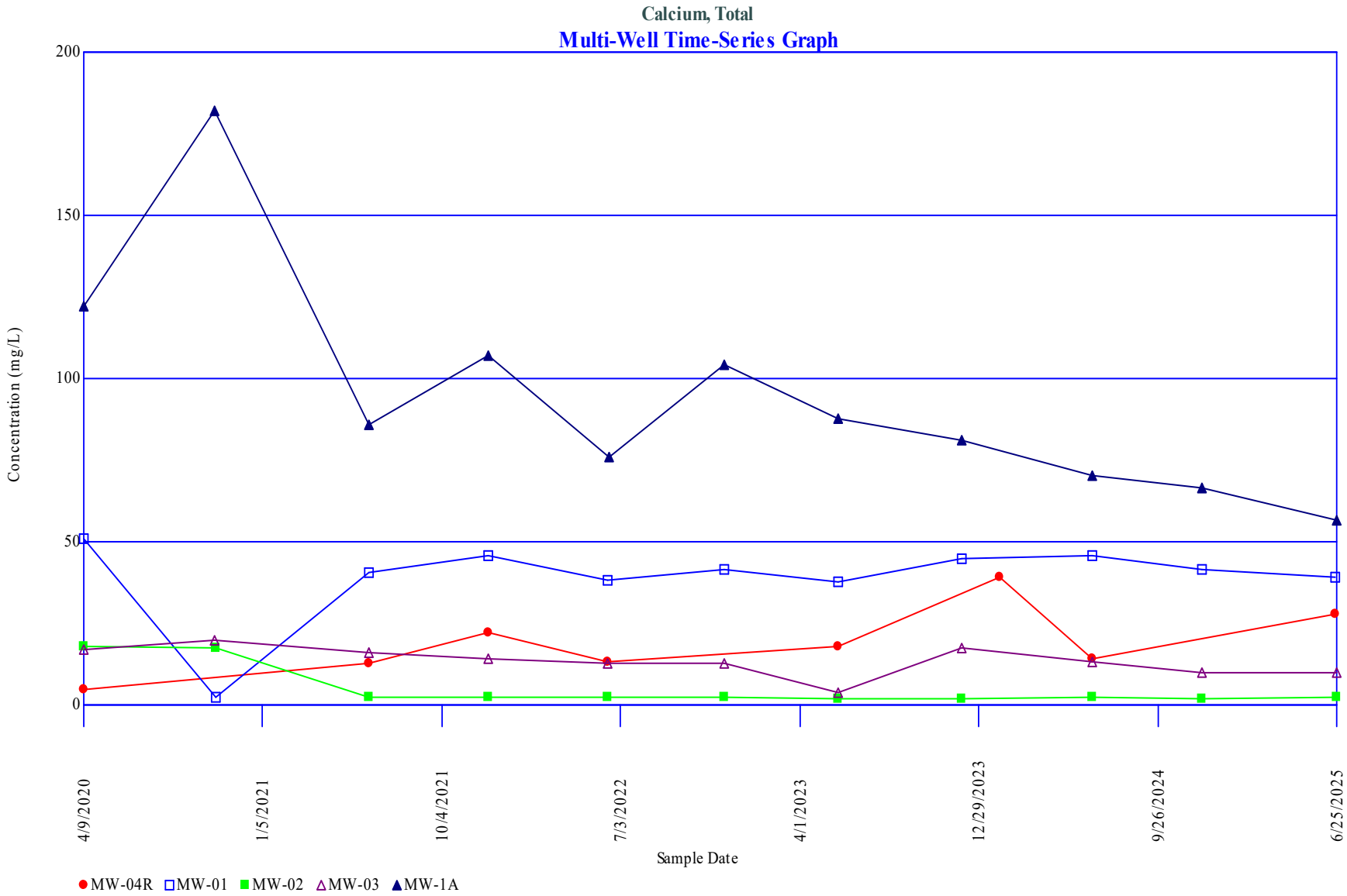
Number of Q values = 10
Sen's Estimator (Median Q) is -0.77875

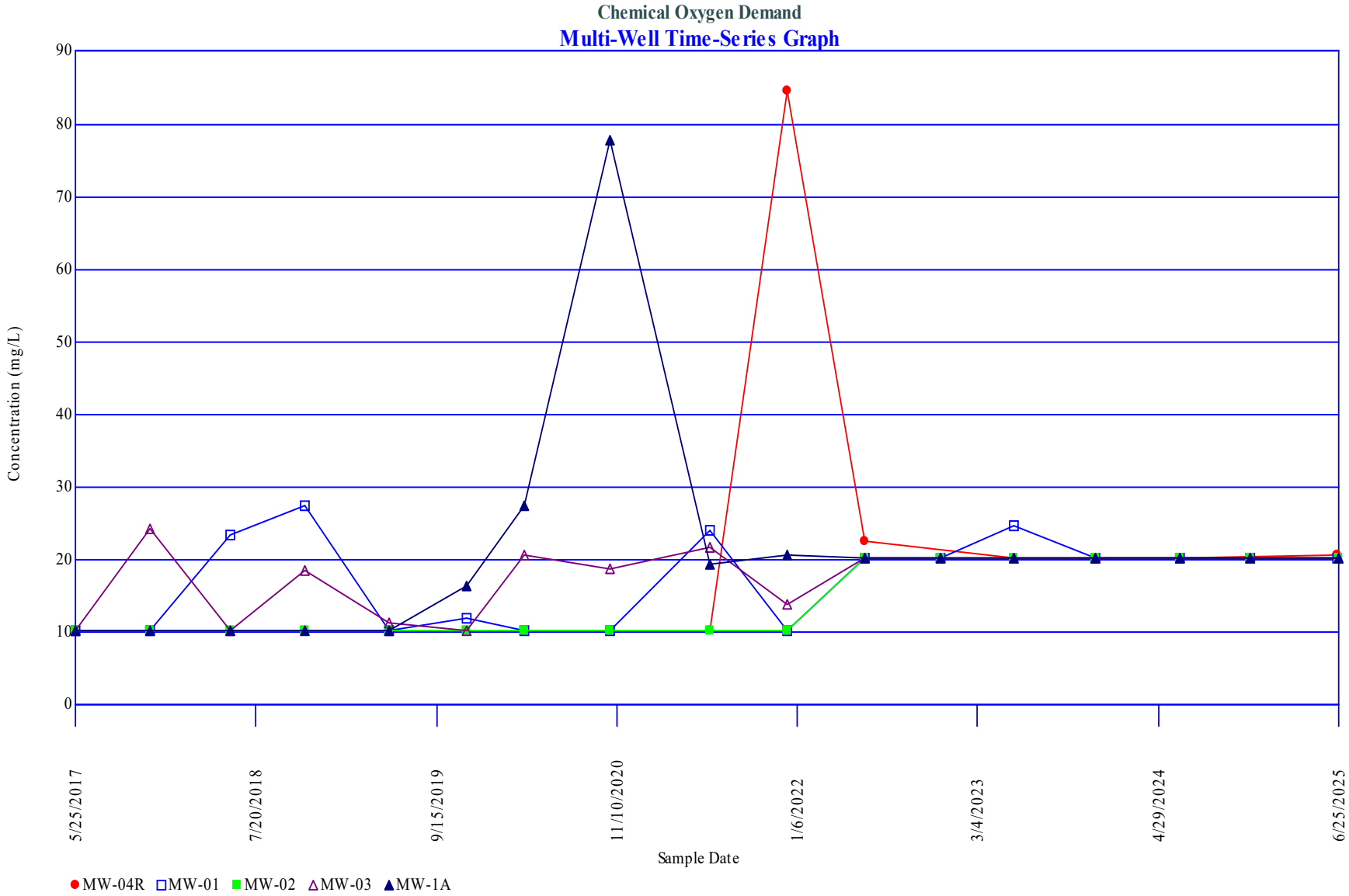
Tied Group	Value	Members
1	1	2

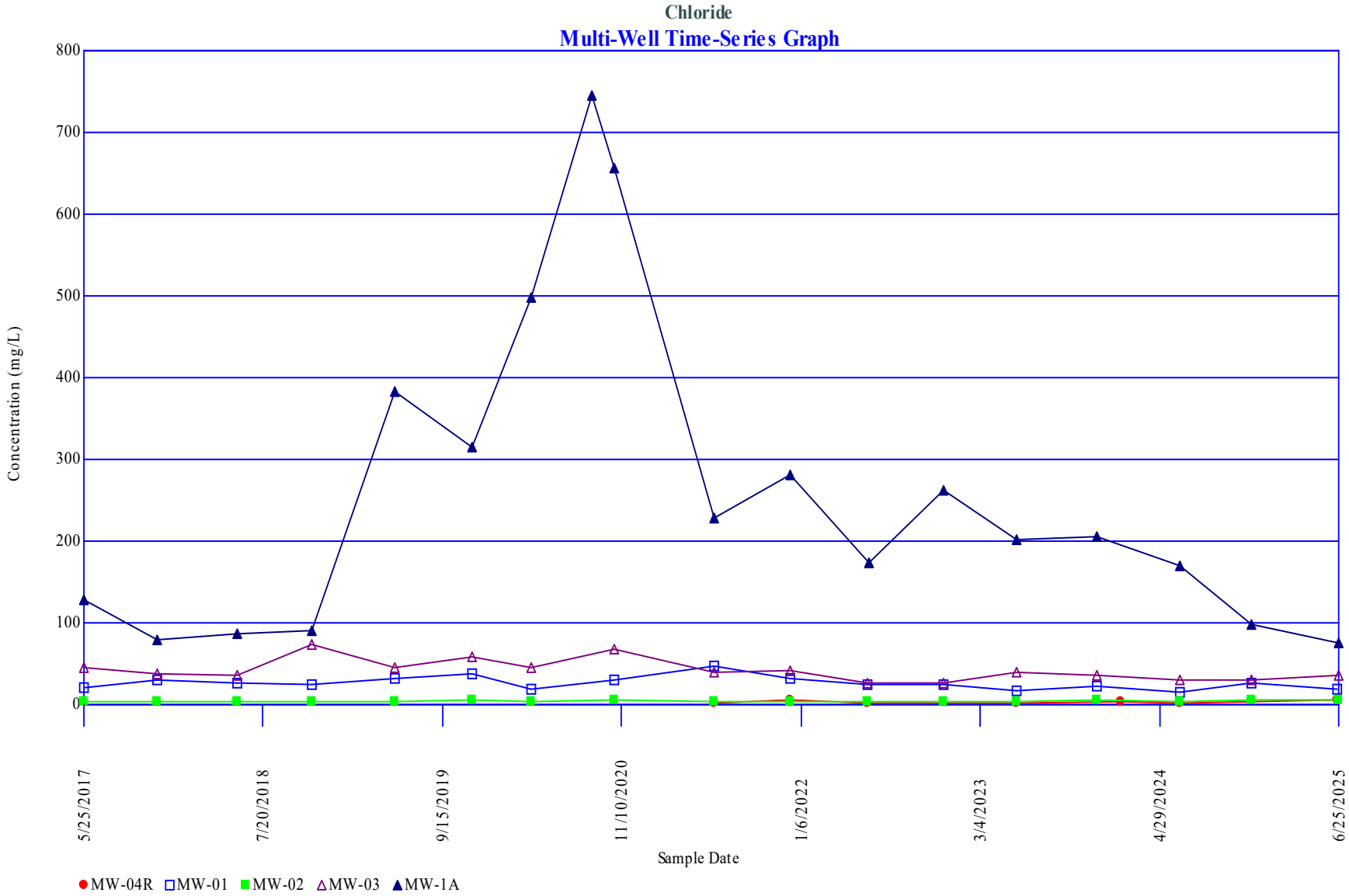
Time Period	Observations
6/18/2021	1
12/15/2021	1
6/15/2022	1
6/19/2024	1
6/23/2025	1

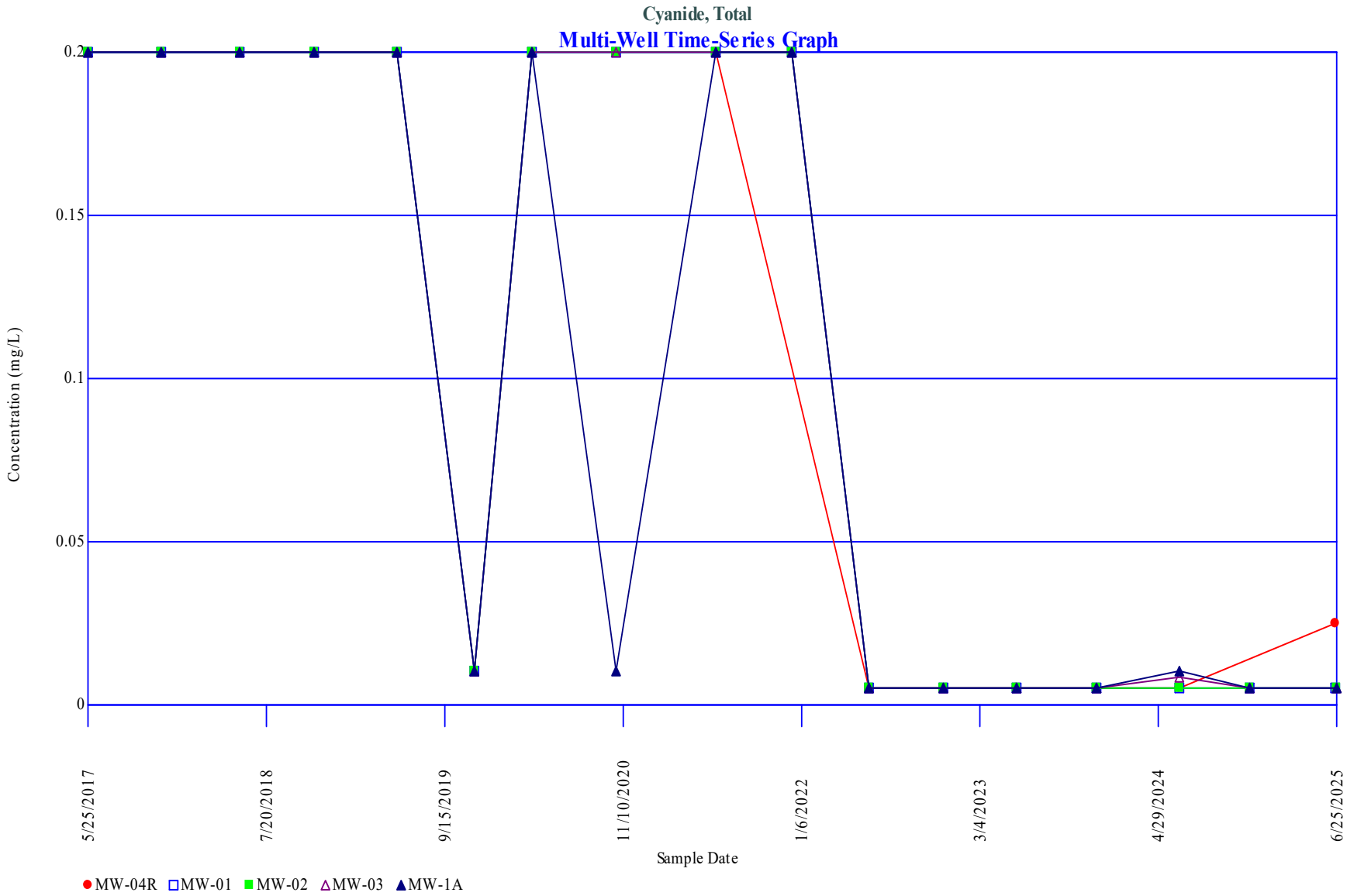
There are 0 time periods with multiple data

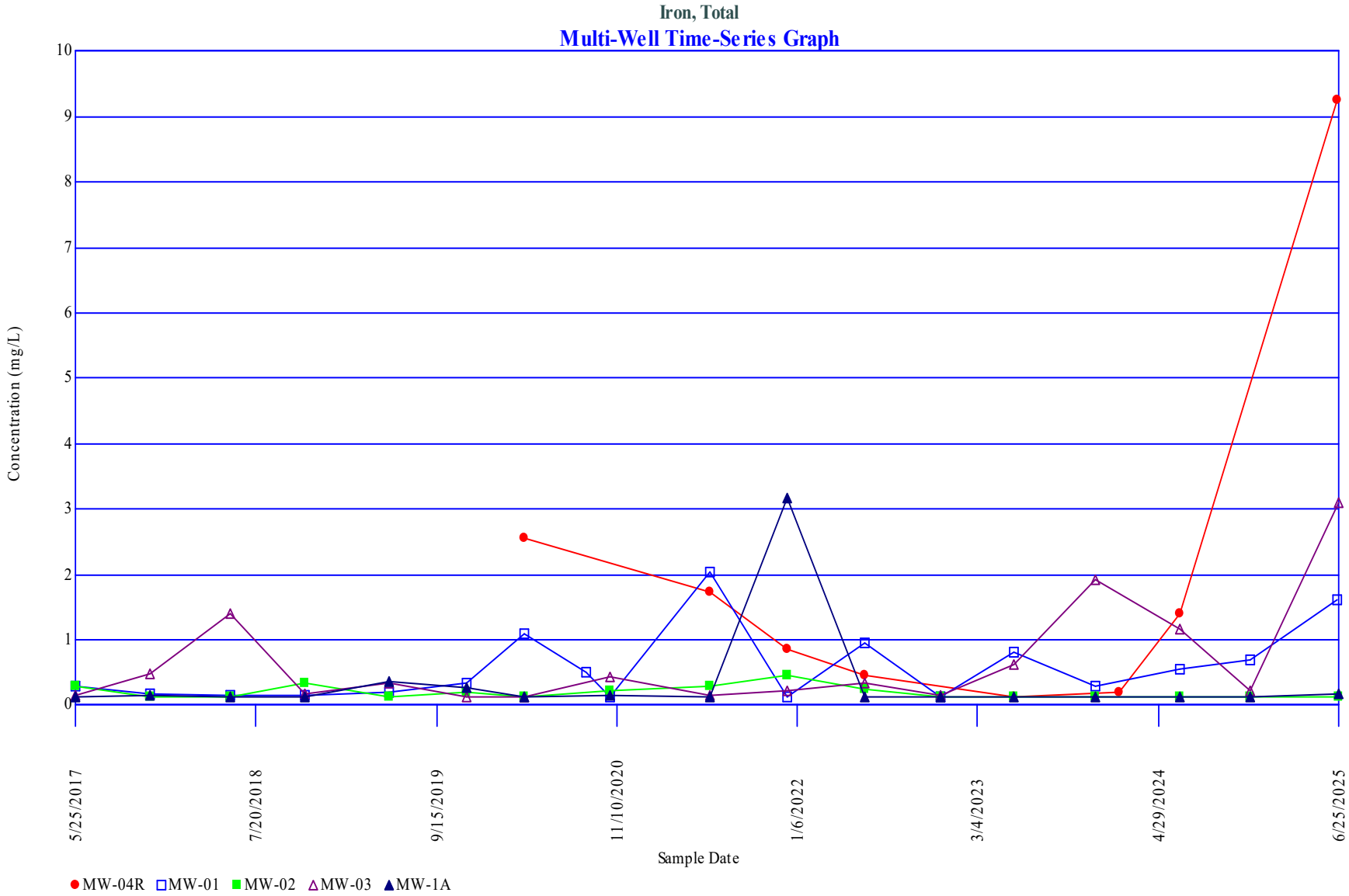
A = 18
B = 0
C = 0
D = 0
E = 2
F = 0
a = 300
b = 540
c = 40
Group Variance = 15.6667
For 90% confidence interval (two-tailed), Z at (1-0.9)/2 = 1.64485
C = 6.51052
M1 = (10 - 6.51052)/2.0 = 1.74474
M2 = (10 + 6.51052)/2.0 + 1 = 9.25526
Lower limit is -2.28 = Q(2)
Upper limit is 1.495 = Q(9)
-2.28 < 0 < 1.495 indicating no trend in data.

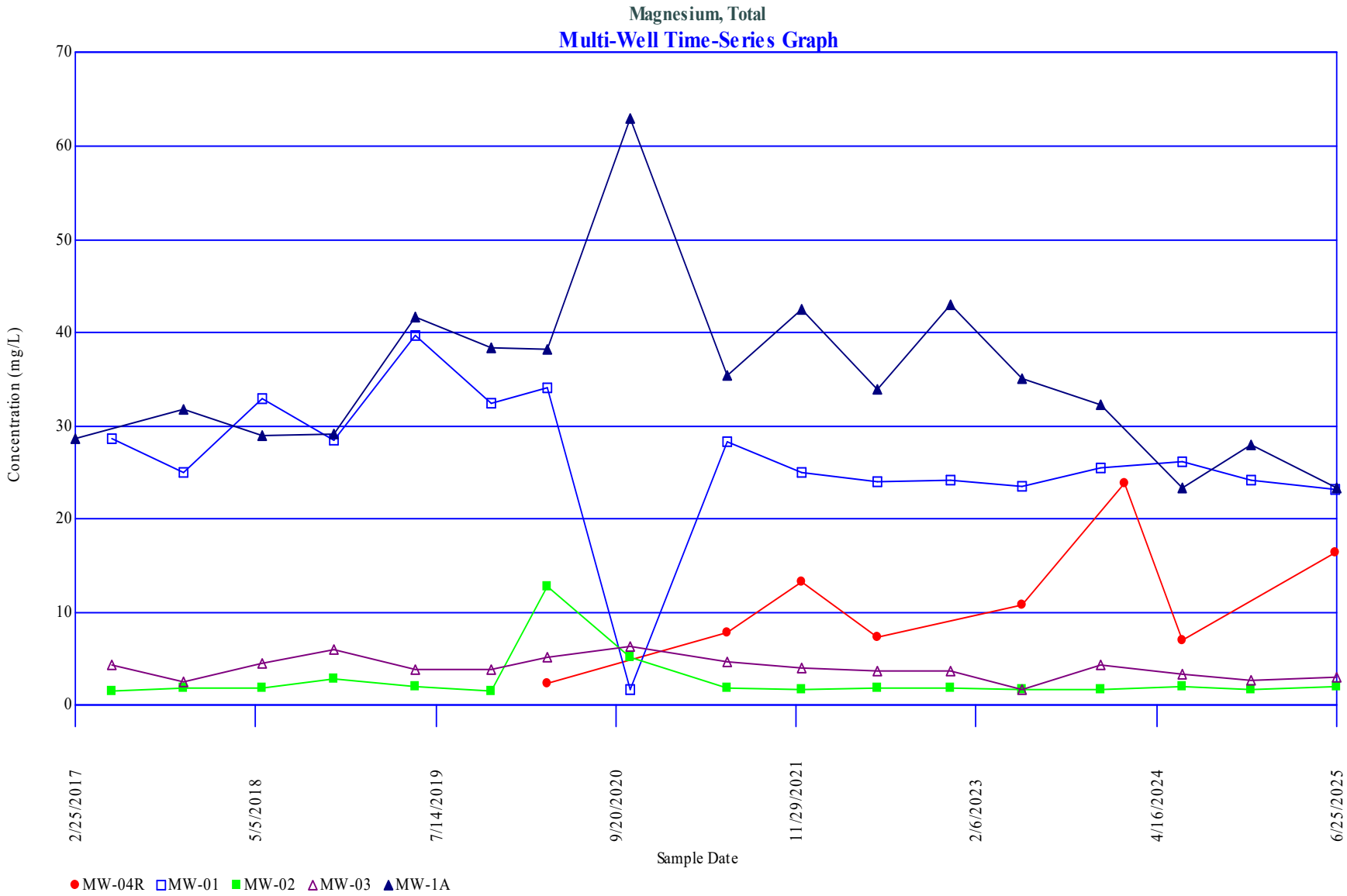

Calcium, Total
Multi-Well Time-Series Graph
200
150
100
50
0
Concentration (mg/L)
4/9/2020
1/5/2021
10/4/2021
7/3/2022
4/1/2023
12/29/2023
9/26/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A

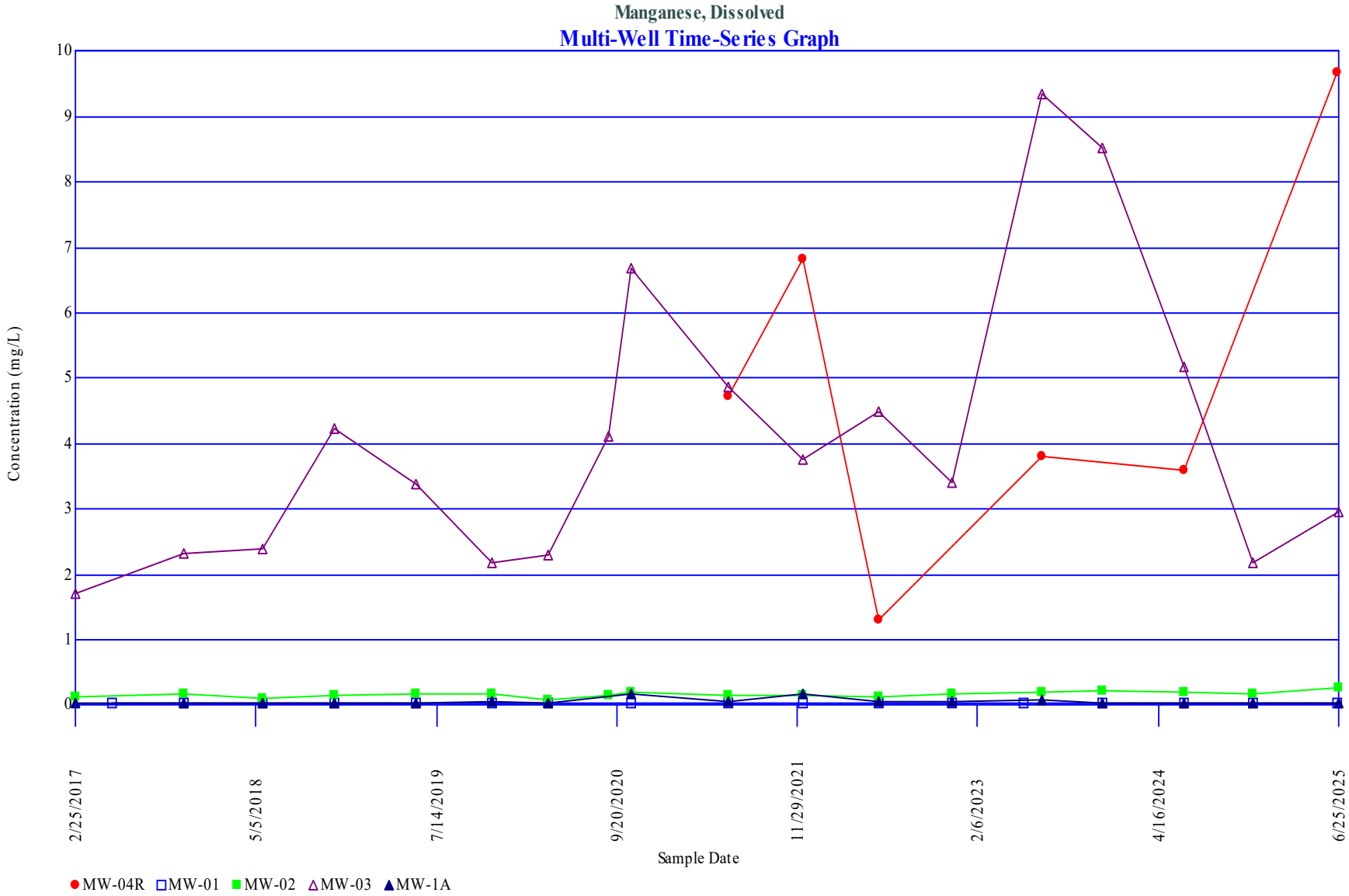

Chemical Oxygen Demand
Multi-Well Time-Series Graph
Concentration (mg/L)
90
80
70
60
50
40
30
20
10
0
5/25/2017
7/20/2018
9/15/2019
11/10/2020
1/6/2022
3/4/2023
4/29/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A


Chloride
Multi-Well Time-Series Graph
800
700
600
500
400
300
200
100
0
Concentration (mg/L)
5/25/2017
7/20/2018
9/15/2019
11/10/2020
1/6/2022
3/4/2023
4/29/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A


Cyanide, Total
Multi-Well Time-Series Graph
0.2
0.15
0.1
0.05
0
Concentration (mg/L)
5/25/2017
7/20/2018
9/15/2019
11/10/2020
1/6/2022
3/4/2023
4/29/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A

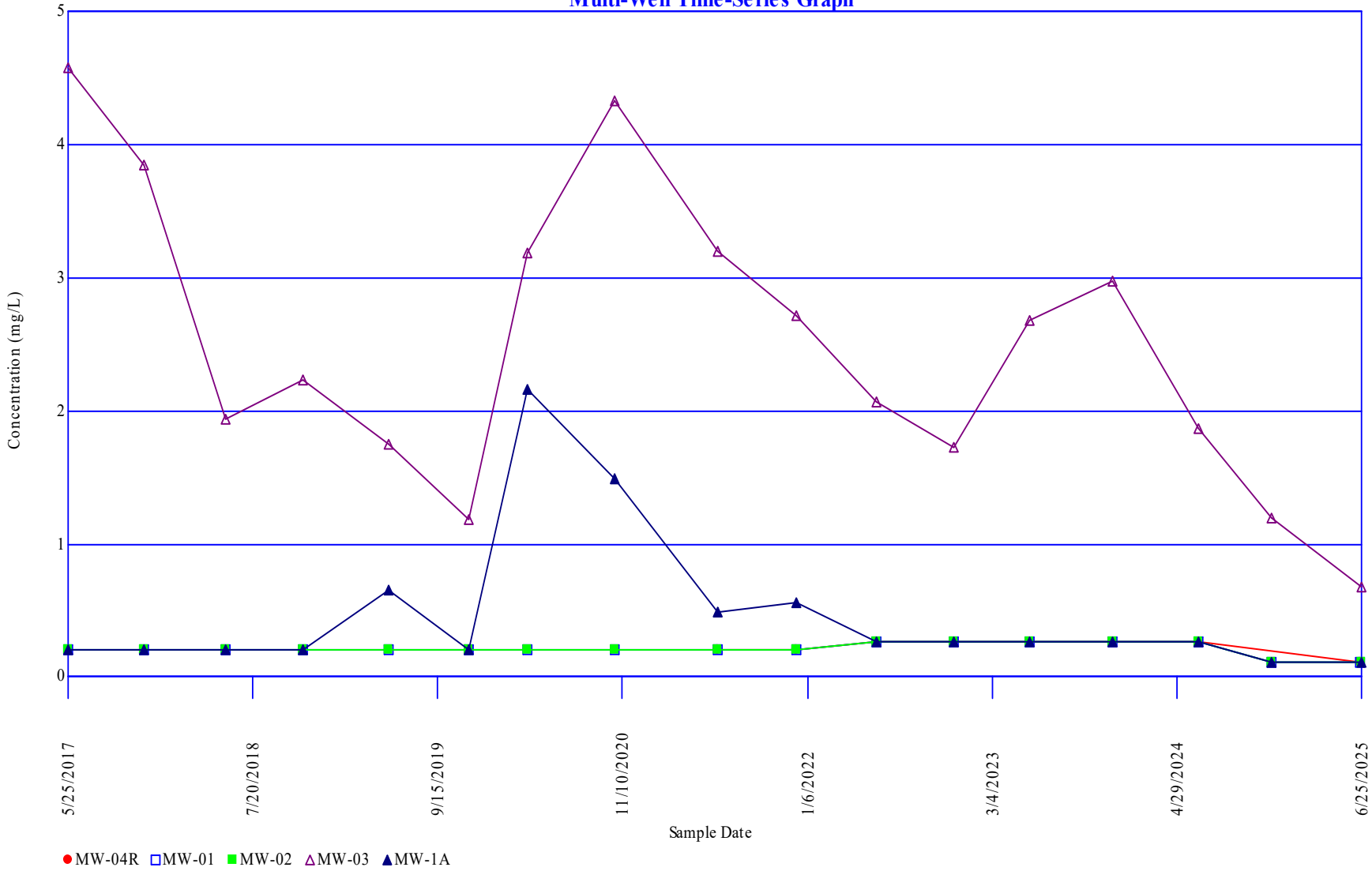

Iron, Total
Multi-Well Time-Series Graph
Concentration (mg/L)
10
9
8
7
6
5
4
3
2
1
0
5/25/2017
7/20/2018
9/15/2019
11/10/2020
1/6/2022
3/4/2023
4/29/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A

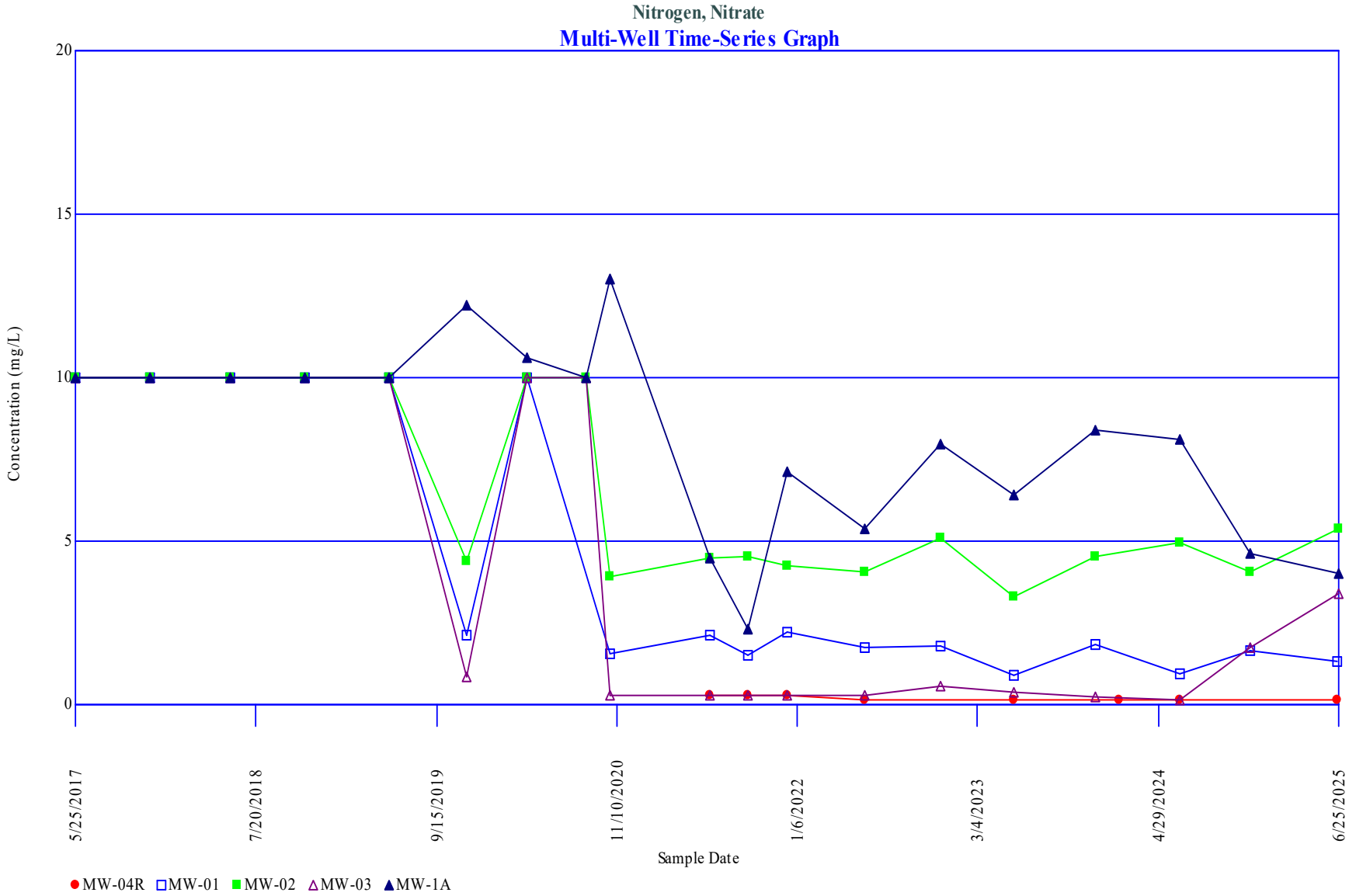

Magnesium, Total
Multi-Well Time-Series Graph
Concentration (mg/L)
70
60
50
40
30
20
10
0
2/25/2017
5/5/2018
7/14/2019
9/20/2020
11/29/2021
2/6/2023
4/16/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A

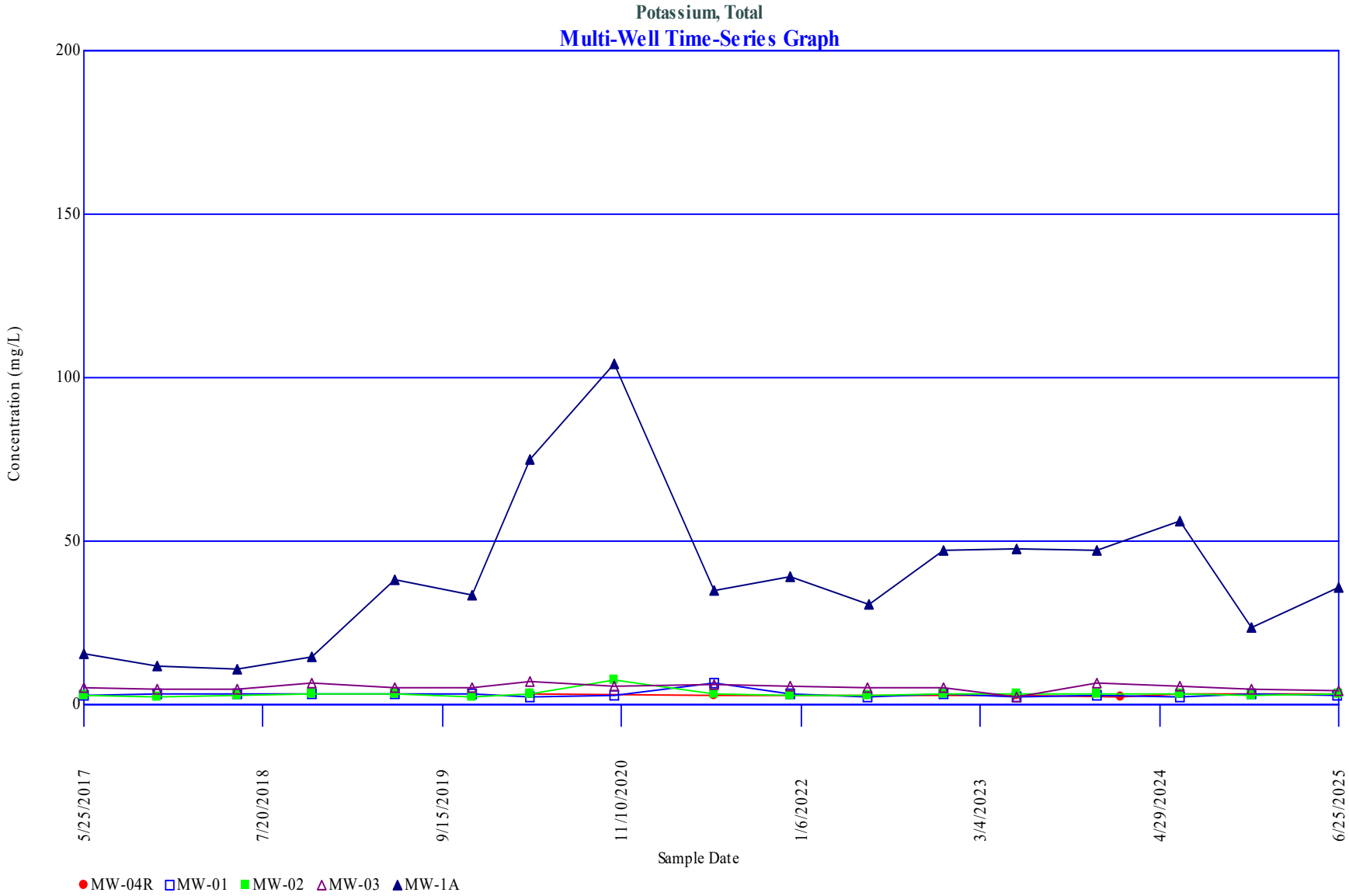

Manganese, Dissolved
Multi-Well Time-Series Graph
Concentration (mg/L)
10
9
8
7
6
5
4
3
2
1
0
2/25/2017
5/5/2018
7/14/2019
9/20/2020
11/29/2021
2/6/2023
4/16/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A

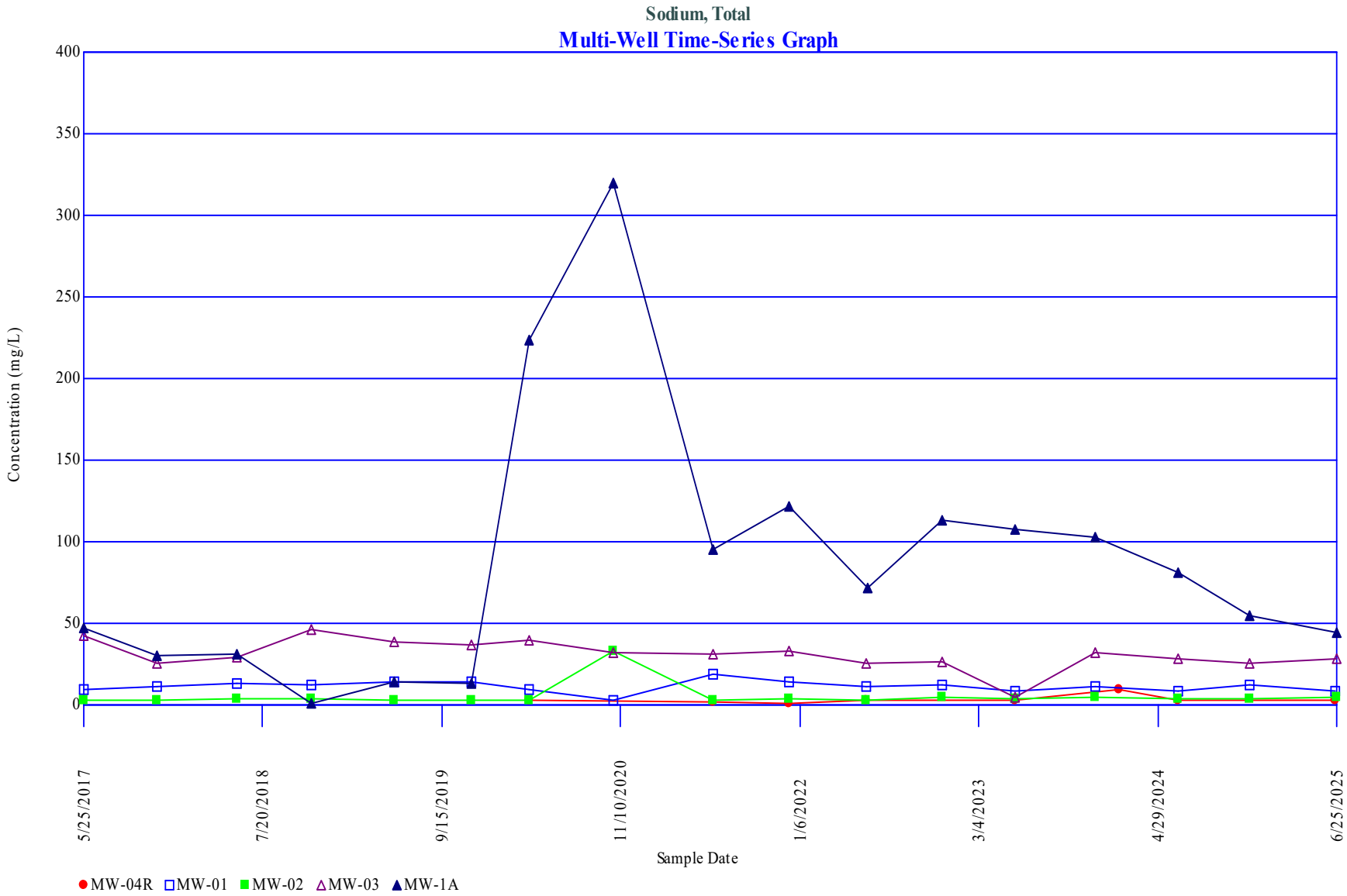
Nitrogen, Ammonia

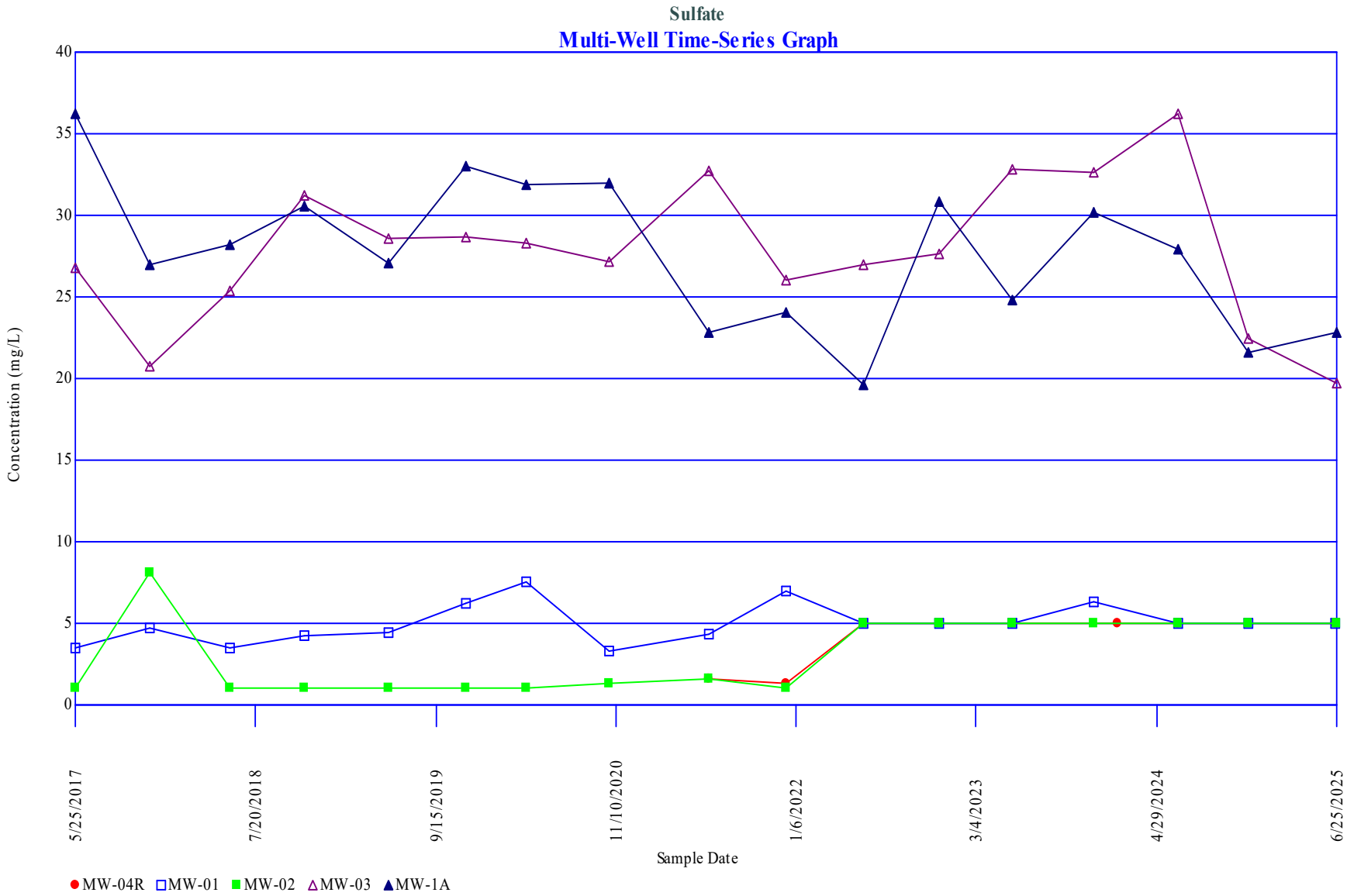
Multi-Well Time-Series Graph

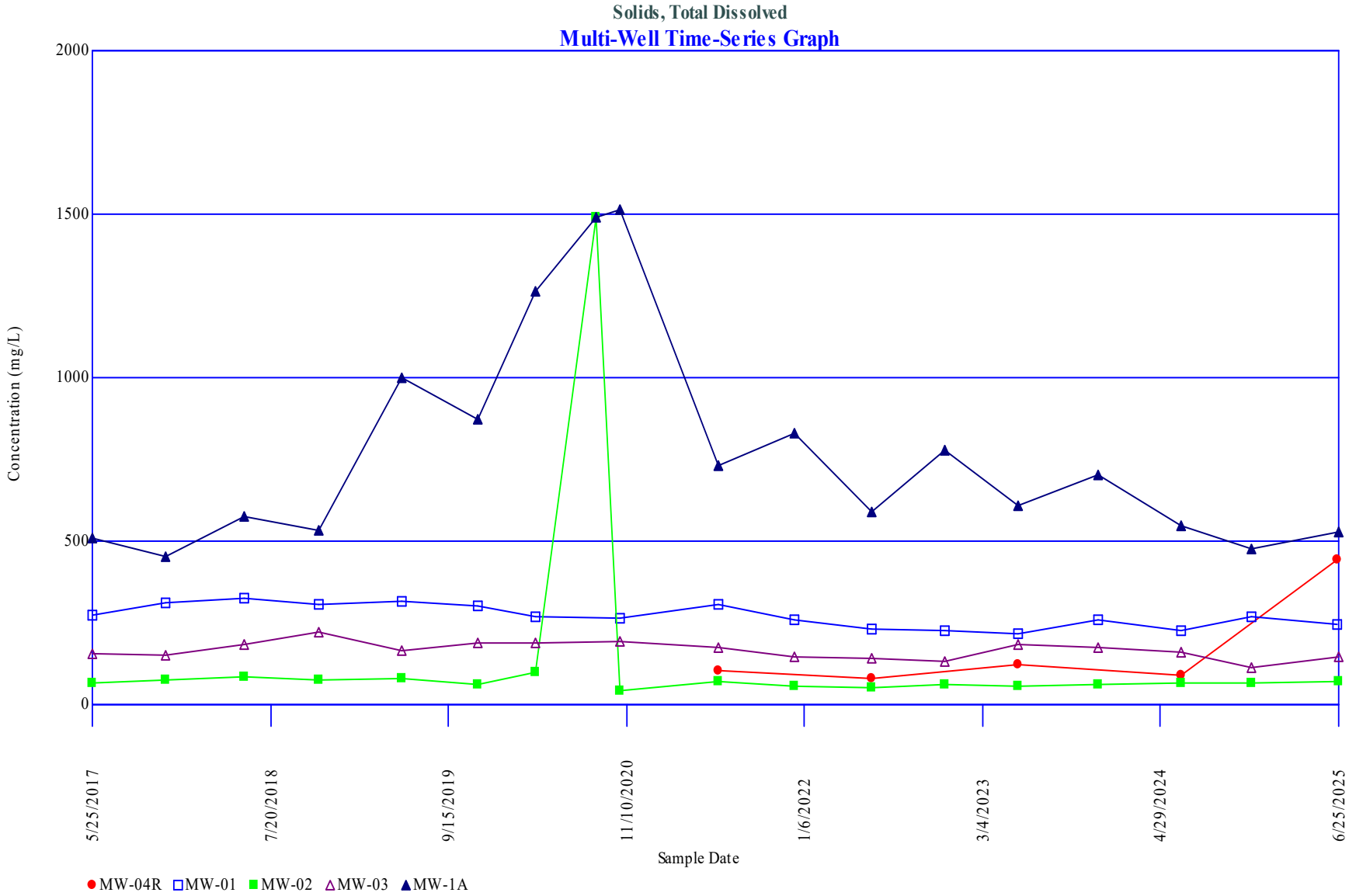


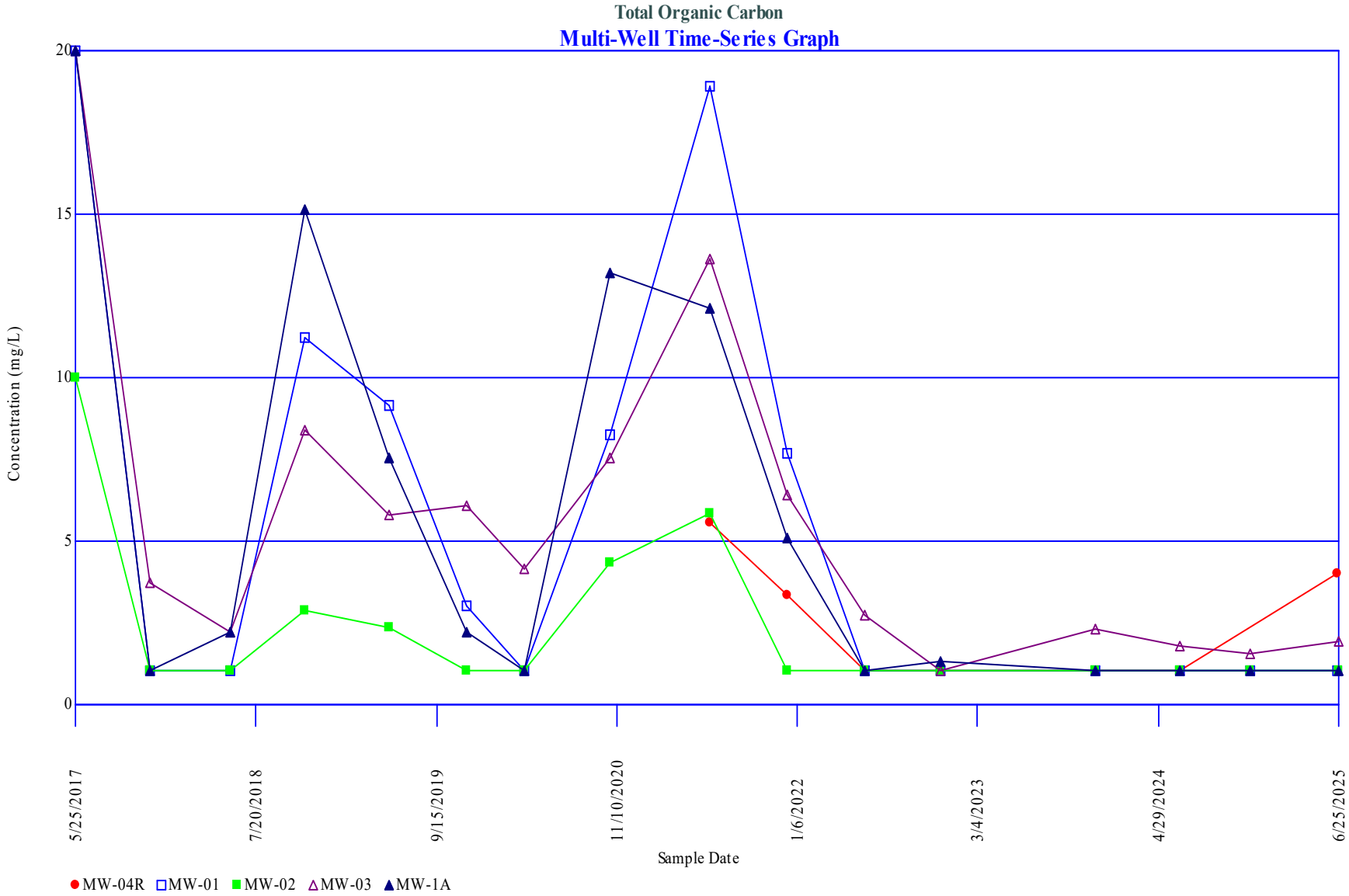

Nitrogen, Nitrate
Multi-Well Time-Series Graph
Concentration (mg/L)
20
15
10
5
0
5/25/2017
7/20/2018
9/15/2019
11/10/2020
1/6/2022
3/4/2023
4/29/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A


Potassium, Total
Multi-Well Time-Series Graph
200
150
100
50
0
Concentration (mg/L)
5/25/2017
7/20/2018
9/15/2019
11/10/2020
1/6/2022
3/4/2023
4/29/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A


Sodium, Total
Multi-Well Time-Series Graph
Concentration (mg/L)
400
350
300
250
200
150
100
50
0
5/25/2017
7/20/2018
9/15/2019
11/10/2020
1/6/2022
3/4/2023
4/29/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A


Sulfate
Multi-Well Time-Series Graph
Concentration (mg/L)
40
35
30
25
20
15
10
5
0
5/25/2017
7/20/2018
9/15/2019
11/10/2020
1/6/2022
3/4/2023
4/29/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A


Solids, Total Dissolved
Multi-Well Time-Series Graph
2000
1500
1000
500
0
Concentration (mg/L)
5/25/2017
7/20/2018
9/15/2019
11/10/2020
1/6/2022
3/4/2023
4/29/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A


Total Organic Carbon
Multi-Well Time-Series Graph
Concentration (mg/L)
20
15
10
5
0
5/25/2017
7/20/2018
9/15/2019
11/10/2020
1/6/2022
3/4/2023
4/29/2024
6/25/2025
Sample Date
MW-04R
MW-01
MW-02
MW-03
MW-1A

APPENDIX C
LABORATORY ANALYTICAL REPORTS & FIELD INFORMATION LOGS

ANALYTICAL REPORT

July 18, 2025

Republic Services - CEC

Sample Delivery Group:	L1872931
Samples Received:	06/25/2025
Project Number:	313-710
Description:	Matlock Bend LF - Loudon, TN

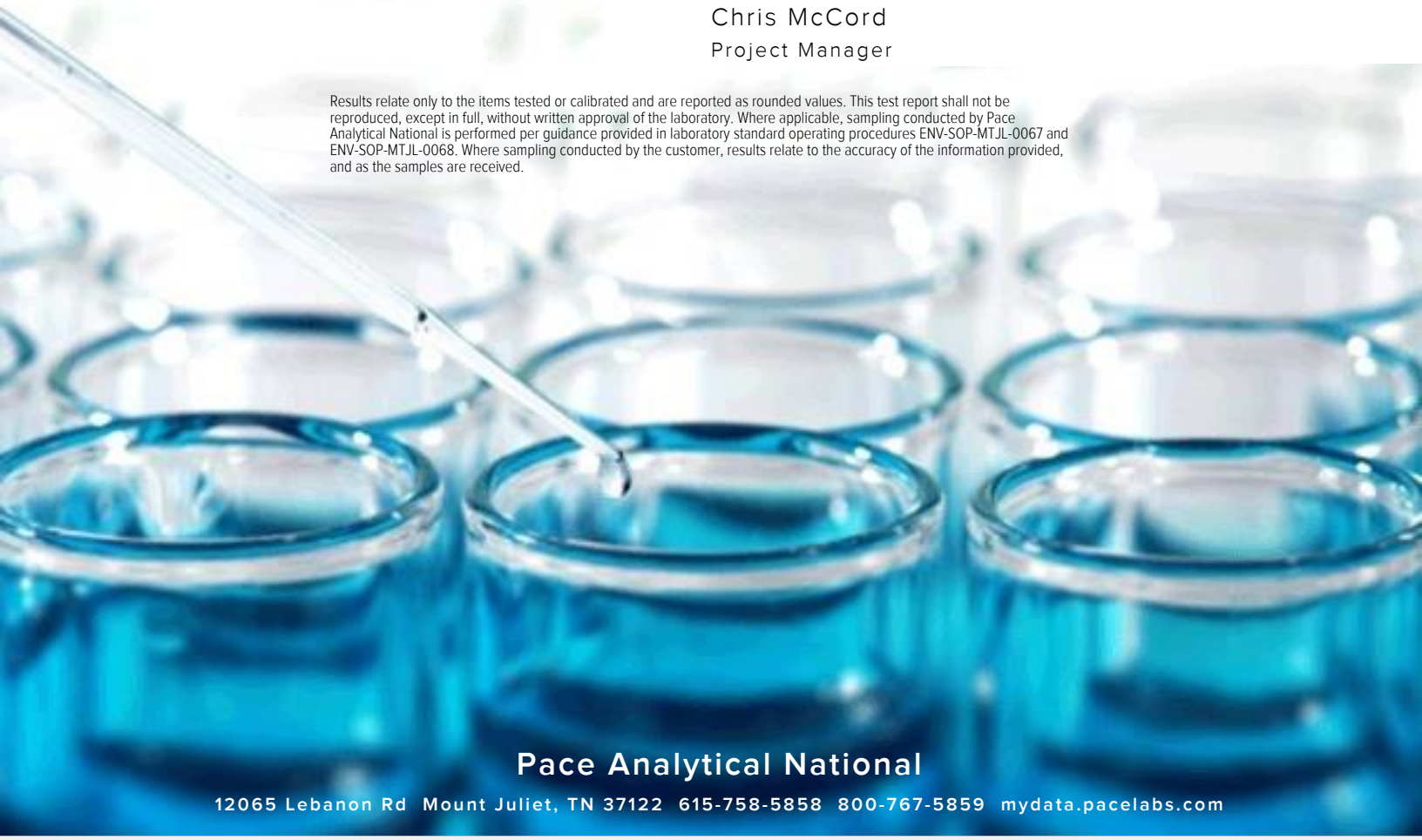
Report To:

Michael Johnson
117 Seaboard Ln.
Suite E100
Franklin, TN 37067

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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SAMPLE SUMMARY

MW-1 L1872931-01

Collected by: Tony Baomgurt | Collected date/time: 06/24/25 11:20 | Received date/time: 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2547498	1	06/27/25 13:32	06/30/25 08:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2550976	1	07/01/25 23:47	07/01/25 23:47	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2548374	1	06/27/25 14:04	06/27/25 20:25	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2556602	1	07/10/25 08:38	07/11/25 00:11	CAT	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2547676	1	06/26/25 16:25	06/26/25 16:25	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2546710	1	06/26/25 01:44	06/26/25 01:44	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2553057	1	07/04/25 16:21	07/04/25 16:21	KAM	Mt. Juliet, TN
Mercury by Method 7470A	WG2547265	1	06/28/25 19:16	06/30/25 18:55	AKB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549569	1	07/01/25 14:31	07/05/25 17:14	JDB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/15/25 23:10	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2547850	1	06/27/25 14:35	06/27/25 14:35	JAH	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151A	WG2547053	1	06/26/25 06:30	06/29/25 18:51	HCS	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2549167	1	06/30/25 06:51	06/30/25 14:30	RDH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2547382	1	06/27/25 06:42	06/27/25 15:17	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2549252	1	07/01/25 16:55	07/07/25 15:37	JRM	Mt. Juliet, TN

MW-1A L1872931-02

Collected by: Tony Baomgurt | Collected date/time: 06/25/25 07:50 | Received date/time: 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2547498	1	06/27/25 13:32	06/30/25 08:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2550976	1	07/01/25 22:58	07/01/25 22:58	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2548374	1	06/27/25 14:04	06/27/25 20:26	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2550844	1	07/01/25 18:44	07/02/25 09:34	AEC	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2547676	1	06/26/25 16:25	06/26/25 16:25	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2546710	1	06/26/25 01:57	06/26/25 01:57	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2553057	1	07/04/25 20:42	07/04/25 20:42	KAM	Mt. Juliet, TN
Mercury by Method 7470A	WG2547265	1	06/28/25 19:16	06/30/25 18:36	AKB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549569	1	07/01/25 14:31	07/05/25 17:17	JDB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/15/25 23:13	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548883	1	06/28/25 14:55	06/28/25 14:55	JAH	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151A	WG2547053	1.07	06/26/25 06:30	06/29/25 19:01	HCS	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2549167	1	06/30/25 06:51	06/30/25 14:41	RDH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2547382	1	06/27/25 06:42	06/27/25 15:28	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2550537	1	07/02/25 16:01	07/09/25 04:46	JRM	Mt. Juliet, TN

MW-2 L1872931-03

Collected by: Tony Baomgurt | Collected date/time: 06/25/25 08:30 | Received date/time: 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2547498	1	06/27/25 13:32	06/30/25 08:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2550976	1	07/01/25 23:08	07/01/25 23:08	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2548374	1	06/27/25 14:04	06/27/25 20:26	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2550844	1	07/01/25 18:44	07/02/25 09:35	AEC	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2547676	1	06/26/25 16:26	06/26/25 16:26	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2546710	1	06/26/25 02:09	06/26/25 02:09	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2553057	1	07/04/25 21:00	07/04/25 21:00	KAM	Mt. Juliet, TN
Mercury by Method 7470A	WG2547265	1	06/28/25 19:16	06/30/25 18:57	AKB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549569	1	07/01/25 14:31	07/05/25 17:26	JDB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/15/25 23:16	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548883	1	06/28/25 15:15	06/28/25 15:15	JAH	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151A	WG2547053	1.03	06/26/25 06:30	06/29/25 19:11	HCS	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2549167	1	06/30/25 06:51	06/30/25 14:52	RDH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-2 L1872931-03

Collected by: Tony Baomgurt | Collected date/time: 06/25/25 08:30 | Received date/time: 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2547382	1	06/27/25 06:42	06/27/25 15:39	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2550537	1	07/02/25 16:01	07/09/25 05:08	JRM	Mt. Juliet, TN

MW-3 L1872931-04

Collected by: Tony Baomgurt | Collected date/time: 06/25/25 10:00 | Received date/time: 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2547498	1	06/27/25 13:32	06/30/25 08:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2550976	1	07/01/25 23:13	07/01/25 23:13	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2548374	1	06/27/25 14:04	06/27/25 20:26	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2550844	1	07/01/25 18:44	07/02/25 09:40	AEC	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2547676	1	06/26/25 16:26	06/26/25 16:26	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2546710	1	06/26/25 02:22	06/26/25 02:22	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2553057	1	07/04/25 21:20	07/04/25 21:20	KAM	Mt. Juliet, TN
Mercury by Method 7470A	WG2547265	1	06/28/25 19:16	06/30/25 19:00	AKB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549569	1	07/01/25 14:31	07/05/25 17:30	JDB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/15/25 23:20	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548883	1	06/28/25 15:36	06/28/25 15:36	JAH	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151A	WG2547053	1	06/26/25 06:30	06/29/25 19:22	HCS	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2549167	1	06/30/25 06:51	06/30/25 15:03	RDH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2547382	1.1	06/27/25 06:42	06/27/25 15:50	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2550537	1	07/02/25 16:01	07/09/25 05:29	JRM	Mt. Juliet, TN

SPRING L1872931-05

Collected by: Tony Baomgurt | Collected date/time: 06/25/25 13:50 | Received date/time: 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 4500CN E-2016	WG2550844	1	07/01/25 18:44	07/02/25 09:44	AEC	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2547676	1	06/26/25 16:26	06/26/25 16:26	PAN	Mt. Juliet, TN
Mercury by Method 7470A	WG2547265	1	06/28/25 19:16	06/30/25 19:03	AKB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/15/25 22:57	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548883	1	06/28/25 15:56	06/28/25 15:56	JAH	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151A	WG2547053	1	06/26/25 06:30	06/29/25 19:32	HCS	Mt. Juliet, TN
Pesticides (GC) by Method 8081B	WG2549167	1	06/30/25 06:51	06/30/25 15:14	RDH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG2547382	1	06/27/25 06:42	06/27/25 16:01	NWH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2550537	1	07/02/25 16:01	07/09/25 05:50	JRM	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Project Narrative

L1872931-01: Cyanide reporting outside of hold time due to QC failure from the first analysis.

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Lab Sample ID	Project Sample ID	Method
L1872931-01	MW-1	6020B
L1872931-02	MW-1A	6020B
L1872931-03	MW-2	6020B
L1872931-04	MW-3	6020B

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	243		10.0	1	06/30/2025 08:33	WG2547498

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	07/01/2025 23:47	WG2550976

Wet Chemistry by Method 410.4

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
COD	ND		20.0	1	06/27/2025 20:25	WG2548374

Wet Chemistry by Method 4500CN E-2016

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND	Q	0.00500	1	07/11/2025 00:11	WG2556602

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Sulfide	ND		0.0500	1	06/26/2025 16:25	WG2547676

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	18.1		1.00	1	06/26/2025 01:44	WG2546710
Nitrate as (N)	1.28		0.100	1	06/26/2025 01:44	WG2546710
Sulfate	ND		5.00	1	06/26/2025 01:44	WG2546710

Wet Chemistry by Method 9060A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	ND		1.00	1	07/04/2025 16:21	WG2553057

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.000350		0.000200	1	06/30/2025 18:55	WG2547265

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	07/15/2025 23:10	WG2549645
Arsenic	ND		0.00200	1	07/15/2025 23:10	WG2549645
Barium	0.0277		0.00200	1	07/15/2025 23:10	WG2549645
Beryllium	ND		0.00200	1	07/15/2025 23:10	WG2549645
Cadmium	ND		0.00100	1	07/15/2025 23:10	WG2549645
Calcium	38.8		1.00	1	07/15/2025 23:10	WG2549645
Chromium	0.00212		0.00200	1	07/15/2025 23:10	WG2549645
Copper	ND		0.00500	1	07/15/2025 23:10	WG2549645
Cobalt	ND		0.00200	1	07/15/2025 23:10	WG2549645
Iron	1.59		0.100	1	07/15/2025 23:10	WG2549645

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Lead	0.00261		0.00200	1	07/15/2025 23:10	WG2549645
Magnesium	23.1		1.00	1	07/15/2025 23:10	WG2549645
Manganese,Dissolved	ND		0.00500	1	07/05/2025 17:14	WG2549569
Nickel	0.00369		0.00200	1	07/15/2025 23:10	WG2549645
Potassium	2.46		2.00	1	07/15/2025 23:10	WG2549645
Selenium	ND		0.00200	1	07/15/2025 23:10	WG2549645
Silver	ND		0.00200	1	07/15/2025 23:10	WG2549645
Sodium	8.33		2.00	1	07/15/2025 23:10	WG2549645
Thallium	ND		0.00200	1	07/15/2025 23:10	WG2549645
Tin	ND		0.00200	1	07/15/2025 23:10	WG2549645
Vanadium	ND		0.00500	1	07/15/2025 23:10	WG2549645
Zinc	ND		0.0250	1	07/15/2025 23:10	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/27/2025 14:35	WG2547850
Acrolein	ND	C3	0.0500	1	06/27/2025 14:35	WG2547850
Acrylonitrile	ND		0.0100	1	06/27/2025 14:35	WG2547850
Benzene	ND		0.00100	1	06/27/2025 14:35	WG2547850
Bromodichloromethane	ND		0.00100	1	06/27/2025 14:35	WG2547850
Bromochloromethane	ND		0.00100	1	06/27/2025 14:35	WG2547850
Bromoform	ND		0.00100	1	06/27/2025 14:35	WG2547850
Bromomethane	ND		0.00500	1	06/27/2025 14:35	WG2547850
Carbon disulfide	ND		0.00100	1	06/27/2025 14:35	WG2547850
Carbon tetrachloride	ND	J4	0.00100	1	06/27/2025 14:35	WG2547850
Chlorobenzene	ND		0.00100	1	06/27/2025 14:35	WG2547850
Chlorodibromomethane	ND		0.00100	1	06/27/2025 14:35	WG2547850
Chloroethane	ND		0.00500	1	06/27/2025 14:35	WG2547850
Chloroform	ND		0.00500	1	06/27/2025 14:35	WG2547850
Chloromethane	ND		0.00250	1	06/27/2025 14:35	WG2547850
1,2-Dibromoethane	ND		0.00100	1	06/27/2025 14:35	WG2547850
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	06/27/2025 14:35	WG2547850
Dibromomethane	ND		0.00100	1	06/27/2025 14:35	WG2547850
1,2-Dichlorobenzene	ND		0.00100	1	06/27/2025 14:35	WG2547850
1,3-Dichlorobenzene	ND		0.00100	1	06/27/2025 14:35	WG2547850
1,4-Dichlorobenzene	ND		0.00100	1	06/27/2025 14:35	WG2547850
Dichlorodifluoromethane	ND		0.00500	1	06/27/2025 14:35	WG2547850
1,1-Dichloroethane	ND		0.00100	1	06/27/2025 14:35	WG2547850
1,2-Dichloroethane	ND		0.00100	1	06/27/2025 14:35	WG2547850
1,1-Dichloroethene	ND		0.00100	1	06/27/2025 14:35	WG2547850
cis-1,2-Dichloroethene	ND		0.00100	1	06/27/2025 14:35	WG2547850
trans-1,2-Dichloroethene	ND		0.00100	1	06/27/2025 14:35	WG2547850
1,2-Dichloropropane	ND		0.00100	1	06/27/2025 14:35	WG2547850
1,3-Dichloropropane	ND		0.00100	1	06/27/2025 14:35	WG2547850
2,2-Dichloropropane	ND		0.00100	1	06/27/2025 14:35	WG2547850
cis-1,3-Dichloropropene	ND		0.00100	1	06/27/2025 14:35	WG2547850
trans-1,3-Dichloropropene	ND		0.00100	1	06/27/2025 14:35	WG2547850
1,1-Dichloropropene	ND		0.00100	1	06/27/2025 14:35	WG2547850
Ethylbenzene	ND		0.00100	1	06/27/2025 14:35	WG2547850
2-Hexanone	ND		0.0100	1	06/27/2025 14:35	WG2547850
Iodomethane	ND		0.0100	1	06/27/2025 14:35	WG2547850
2-Butanone (MEK)	ND		0.0100	1	06/27/2025 14:35	WG2547850
Methylene Chloride	ND		0.00500	1	06/27/2025 14:35	WG2547850
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/27/2025 14:35	WG2547850
Styrene	ND		0.00100	1	06/27/2025 14:35	WG2547850

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/27/2025 14:35	WG2547850
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/27/2025 14:35	WG2547850
Tetrachloroethene	ND		0.00100	1	06/27/2025 14:35	WG2547850
Toluene	ND		0.00100	1	06/27/2025 14:35	WG2547850
1,2,4-Trichlorobenzene	ND	C3	0.00100	1	06/27/2025 14:35	WG2547850
1,1,1-Trichloroethane	ND	J4	0.00100	1	06/27/2025 14:35	WG2547850
1,1,2-Trichloroethane	ND		0.00100	1	06/27/2025 14:35	WG2547850
Trichloroethene	ND	J4	0.00100	1	06/27/2025 14:35	WG2547850
Trichlorofluoromethane	ND		0.00500	1	06/27/2025 14:35	WG2547850
1,2,3-Trichloropropane	ND		0.00250	1	06/27/2025 14:35	WG2547850
Vinyl acetate	ND	C3	0.0100	1	06/27/2025 14:35	WG2547850
Vinyl chloride	ND		0.00100	1	06/27/2025 14:35	WG2547850
Xylenes, Total	ND		0.00300	1	06/27/2025 14:35	WG2547850
Acetonitrile	ND		0.0500	1	06/27/2025 14:35	WG2547850
Allyl chloride	ND		0.00500	1	06/27/2025 14:35	WG2547850
Chloroprene	ND		0.0500	1	06/27/2025 14:35	WG2547850
trans-1,4-Dichloro-2-butene	ND		0.00250	1	06/27/2025 14:35	WG2547850
Ethyl methacrylate	ND		0.00500	1	06/27/2025 14:35	WG2547850
Isobutanol	ND		0.100	1	06/27/2025 14:35	WG2547850
Methacrylonitrile	ND		0.0500	1	06/27/2025 14:35	WG2547850
Methyl methacrylate	ND		0.00500	1	06/27/2025 14:35	WG2547850
Propionitrile	ND		0.0500	1	06/27/2025 14:35	WG2547850
(S) Toluene-d8	*99.1*		*80.0-120*		*06/27/2025 14:35*	WG2547850
(S) 4-Bromofluorobenzene	*96.1*		*77.0-126*		*06/27/2025 14:35*	WG2547850
(S) 1,2-Dichloroethane-d4	*113*		*70.0-130*		*06/27/2025 14:35*	WG2547850

Chlorinated Acid Herbicides (GC) by Method 8151A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
2,4-D	ND	J3	0.00200	1	06/29/2025 18:51	WG2547053
2,4,5-T	ND	J3	0.00200	1	06/29/2025 18:51	WG2547053
2,4,5-TP (Silvex)	ND	J3	0.00200	1	06/29/2025 18:51	WG2547053
(S) 2,4-Dichlorophenyl Acetic Acid	*85.2*		*14.0-158*		*06/29/2025 18:51*	WG2547053

Pesticides (GC) by Method 8081B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Alpha BHC	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Beta BHC	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Delta BHC	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Gamma BHC	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Chlordane	ND		0.00500	1	06/30/2025 14:30	WG2549167
4,4-DDD	ND		0.0000500	1	06/30/2025 14:30	WG2549167
4,4-DDE	ND		0.0000500	1	06/30/2025 14:30	WG2549167
4,4-DDT	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Dieldrin	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Endosulfan I	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Endosulfan II	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Endosulfan sulfate	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Endrin	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Endrin aldehyde	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Endrin ketone	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Heptachlor	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Heptachlor epoxide	ND		0.0000500	1	06/30/2025 14:30	WG2549167

Pesticides (GC) by Method 8081B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hexachlorobenzene	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Methoxychlor	ND		0.0000500	1	06/30/2025 14:30	WG2549167
Toxaphene	ND		0.000500	1	06/30/2025 14:30	WG2549167
(S) Decachlorobiphenyl	*39.1*		*10.0-128*		*06/30/2025 14:30*	WG2549167
(S) Tetrachloro-m-xylene	*82.5*		*10.0-127*		*06/30/2025 14:30*	WG2549167

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000500	1	06/27/2025 15:17	WG2547382
PCB 1221	ND		0.000500	1	06/27/2025 15:17	WG2547382
PCB 1232	ND		0.000500	1	06/27/2025 15:17	WG2547382
PCB 1242	ND		0.000500	1	06/27/2025 15:17	WG2547382
PCB 1248	ND		0.000500	1	06/27/2025 15:17	WG2547382
PCB 1254	ND		0.000500	1	06/27/2025 15:17	WG2547382
PCB 1260	ND		0.000500	1	06/27/2025 15:17	WG2547382
Total PCBs	ND		0.000500	1	06/27/2025 15:17	WG2547382
(S) Decachlorobiphenyl	*47.2*		*10.0-128*		*06/27/2025 15:17*	WG2547382
(S) Tetrachloro-m-xylene	*67.3*		*10.0-127*		*06/27/2025 15:17*	WG2547382

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Acenaphthylene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Anthracene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Benzo(a)anthracene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Benzo(b)fluoranthene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Benzo(k)fluoranthene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Benzo(g,h,i)perylene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Benzo(a)pyrene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Benzyl alcohol	ND		0.0100	1	07/07/2025 15:37	WG2549252
Bis(2-chlorethoxy)methane	ND		0.0100	1	07/07/2025 15:37	WG2549252
Bis(2-chloroethyl)ether	ND		0.0100	1	07/07/2025 15:37	WG2549252
2,2-Oxybis(1-Chloropropane)	ND		0.0100	1	07/07/2025 15:37	WG2549252
4-Bromophenyl-phenylether	ND		0.0100	1	07/07/2025 15:37	WG2549252
4-Chloroaniline	ND		0.0100	1	07/07/2025 15:37	WG2549252
2-Chloronaphthalene	ND		0.00100	1	07/07/2025 15:37	WG2549252
4-Chlorophenyl-phenylether	ND		0.0100	1	07/07/2025 15:37	WG2549252
Chrysene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Dibenz(a,h)anthracene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Dibenzofuran	ND		0.0100	1	07/07/2025 15:37	WG2549252
3,3-Dichlorobenzidine	ND		0.0100	1	07/07/2025 15:37	WG2549252
2,4-Dinitrotoluene	ND		0.0100	1	07/07/2025 15:37	WG2549252
2,6-Dinitrotoluene	ND		0.0100	1	07/07/2025 15:37	WG2549252
Fluoranthene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Fluorene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Hexachlorobenzene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Hexachloro-1,3-butadiene	ND		0.0100	1	07/07/2025 15:37	WG2549252
Hexachlorocyclopentadiene	ND		0.0100	1	07/07/2025 15:37	WG2549252
Hexachloroethane	ND		0.0100	1	07/07/2025 15:37	WG2549252
Indeno(1,2,3-cd)pyrene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Isophorone	ND		0.0100	1	07/07/2025 15:37	WG2549252
2-Methylnaphthalene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Naphthalene	ND		0.00100	1	07/07/2025 15:37	WG2549252

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	ND		0.0100	1	07/07/2025 15:37	WG2549252
3-Nitroaniline	ND		0.0100	1	07/07/2025 15:37	WG2549252
4-Nitroaniline	ND		0.0100	1	07/07/2025 15:37	WG2549252
Nitrobenzene	ND		0.0100	1	07/07/2025 15:37	WG2549252
n-Nitrosodiphenylamine	ND		0.0100	1	07/07/2025 15:37	WG2549252
n-Nitrosodi-n-propylamine	ND		0.0100	1	07/07/2025 15:37	WG2549252
Phenanthrene	ND		0.00100	1	07/07/2025 15:37	WG2549252
Benzylbutyl phthalate	ND		0.00300	1	07/07/2025 15:37	WG2549252
Bis(2-ethylhexyl)phthalate	ND		0.00300	1	07/07/2025 15:37	WG2549252
Di-n-butyl phthalate	ND		0.00300	1	07/07/2025 15:37	WG2549252
Diethyl phthalate	ND		0.00300	1	07/07/2025 15:37	WG2549252
Dimethyl phthalate	ND		0.00300	1	07/07/2025 15:37	WG2549252
Di-n-octyl phthalate	ND		0.00300	1	07/07/2025 15:37	WG2549252
Pyrene	ND		0.00100	1	07/07/2025 15:37	WG2549252
1,2,4-Trichlorobenzene	ND		0.0100	1	07/07/2025 15:37	WG2549252
4-Chloro-3-methylphenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
2-Chlorophenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
2-Methylphenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
3&4-Methyl Phenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
2,4-Dichlorophenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
2,4-Dimethylphenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
4,6-Dinitro-2-methylphenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
2,4-Dinitrophenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
2-Nitrophenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
4-Nitrophenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
Pentachlorophenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
Phenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
2,4,5-Trichlorophenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
2,4,6-Trichlorophenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
Acetophenone	ND		0.0100	1	07/07/2025 15:37	WG2549252
2-Acetylaminofluorene	ND		0.0100	1	07/07/2025 15:37	WG2549252
4-Aminobiphenyl	ND		0.0100	1	07/07/2025 15:37	WG2549252
Chlorobenzilate	ND		0.0500	1	07/07/2025 15:37	WG2549252
Diallate	ND		0.0100	1	07/07/2025 15:37	WG2549252
Dinoseb	ND		0.0500	1	07/07/2025 15:37	WG2549252
Ethyl methanesulfonate	ND		0.0100	1	07/07/2025 15:37	WG2549252
Famphur	ND	C6	0.0200	1	07/07/2025 15:37	WG2549252
Hexachloropropene	ND		0.0500	1	07/07/2025 15:37	WG2549252
Isodrin	ND		0.0100	1	07/07/2025 15:37	WG2549252
Isosafrole	ND		0.0100	1	07/07/2025 15:37	WG2549252
Kepone	ND	C6	0.0200	1	07/07/2025 15:37	WG2549252
Methapyrilene	ND	C3 J4	0.0500	1	07/07/2025 15:37	WG2549252
3-Methylcholanthrene	ND		0.0100	1	07/07/2025 15:37	WG2549252
Methyl methanesulfonate	ND		0.0500	1	07/07/2025 15:37	WG2549252
Methyl parathion	ND		0.0100	1	07/07/2025 15:37	WG2549252
1,4-Naphthoquinone	ND	J4	0.0500	1	07/07/2025 15:37	WG2549252
1-Naphthylamine	ND		0.0100	1	07/07/2025 15:37	WG2549252
2-Naphthylamine	ND		0.0100	1	07/07/2025 15:37	WG2549252
n-Nitrosodi-n-butylamine	ND		0.0100	1	07/07/2025 15:37	WG2549252
n-Nitrosodiethylamine	ND		0.0100	1	07/07/2025 15:37	WG2549252
n-Nitrosodimethylamine	ND		0.0100	1	07/07/2025 15:37	WG2549252
n-Nitrosomethylethylamine	ND		0.0100	1	07/07/2025 15:37	WG2549252
N-Nitrosomorpholine	ND		0.0100	1	07/07/2025 15:37	WG2549252
n-Nitrosopiperidine	ND		0.0100	1	07/07/2025 15:37	WG2549252
n-Nitrosopyrrolidine	ND		0.0100	1	07/07/2025 15:37	WG2549252
5-Nitro-o-toluidine	ND		0.0100	1	07/07/2025 15:37	WG2549252

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethyl Parathion	ND		0.0100	1	07/07/2025 15:37	WG2549252
Pentachlorobenzene	ND		0.0100	1	07/07/2025 15:37	WG2549252
Pentachloronitrobenzene	ND		0.0100	1	07/07/2025 15:37	WG2549252
Phenacetin	ND		0.0100	1	07/07/2025 15:37	WG2549252
p-Phenylenediamine	ND	C3 J4	6.90	1	07/07/2025 15:37	WG2549252
Phorate	ND		0.0500	1	07/07/2025 15:37	WG2549252
Pronamide	ND		0.0100	1	07/07/2025 15:37	WG2549252
Dimethoate	ND	C3	0.0500	1	07/07/2025 15:37	WG2549252
P-(Dimethylamino) Azobenzene	ND		0.0100	1	07/07/2025 15:37	WG2549252
Dimethylbenz (A) Anthracene	ND	C3	0.0100	1	07/07/2025 15:37	WG2549252
3,3-Dimethylbenzidine	ND	J4	0.0100	1	07/07/2025 15:37	WG2549252
1,3-Dinitrobenzene	ND		0.0100	1	07/07/2025 15:37	WG2549252
Diphenylamine	ND		0.0100	1	07/07/2025 15:37	WG2549252
Disulfoton	ND	C3	0.0100	1	07/07/2025 15:37	WG2549252
Safrole	ND		0.0100	1	07/07/2025 15:37	WG2549252
Thionazin	ND		0.0100	1	07/07/2025 15:37	WG2549252
o-Toluidine	ND		0.0100	1	07/07/2025 15:37	WG2549252
O,O,O-Triethyl phosphorothioate	ND		0.0100	1	07/07/2025 15:37	WG2549252
1,3,5-Trinitrobenzene	ND		0.0100	1	07/07/2025 15:37	WG2549252
1,2,4,5-Tetrachlorobenzene	ND		0.0100	1	07/07/2025 15:37	WG2549252
2,6-Dichlorophenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
2,3,4,6-Tetrachlorophenol	ND		0.0100	1	07/07/2025 15:37	WG2549252
(S) 2-Fluorophenol	*24.5*		*10.0-120*		*07/07/2025 15:37*	WG2549252
(S) Phenol-d5	*15.1*		*10.0-120*		*07/07/2025 15:37*	WG2549252
(S) Nitrobenzene-d5	*57.7*		*10.0-127*		*07/07/2025 15:37*	WG2549252
(S) 2-Fluorobiphenyl	*53.5*		*10.0-130*		*07/07/2025 15:37*	WG2549252
(S) 2,4,6-Tribromophenol	*81.6*		*10.0-155*		*07/07/2025 15:37*	WG2549252
(S) p-Terphenyl-d14	*73.7*		*10.0-128*		*07/07/2025 15:37*	WG2549252

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	528		10.0	1	06/30/2025 08:33	WG2547498

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	ND		0.100	1	07/01/2025 22:58	WG2550976

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	ND		20.0	1	06/27/2025 20:26	WG2548374

Wet Chemistry by Method 4500CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	ND		0.00500	1	07/02/2025 09:34	WG2550844

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Sulfide	ND		0.0500	1	06/26/2025 16:25	WG2547676

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	74.5		1.00	1	06/26/2025 01:57	WG2546710
Nitrate as (N)	3.99		0.100	1	06/26/2025 01:57	WG2546710
Sulfate	22.8		5.00	1	06/26/2025 01:57	WG2546710

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	ND		1.00	1	07/04/2025 20:42	WG2553057

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	06/30/2025 18:36	WG2547265

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	07/15/2025 23:13	WG2549645
Arsenic	ND		0.00200	1	07/15/2025 23:13	WG2549645
Barium	0.0884		0.00200	1	07/15/2025 23:13	WG2549645
Beryllium	ND		0.00200	1	07/15/2025 23:13	WG2549645
Cadmium	ND		0.00100	1	07/15/2025 23:13	WG2549645
Calcium	56.3		1.00	1	07/15/2025 23:13	WG2549645
Chromium	ND		0.00200	1	07/15/2025 23:13	WG2549645
Copper	ND		0.00500	1	07/15/2025 23:13	WG2549645
Cobalt	ND		0.00200	1	07/15/2025 23:13	WG2549645
Iron	0.161		0.100	1	07/15/2025 23:13	WG2549645

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Lead	ND		0.00200	1	07/15/2025 23:13	WG2549645
Magnesium	23.2		1.00	1	07/15/2025 23:13	WG2549645
Manganese,Dissolved	ND		0.00500	1	07/05/2025 17:17	WG2549569
Nickel	ND		0.00200	1	07/15/2025 23:13	WG2549645
Potassium	35.6		2.00	1	07/15/2025 23:13	WG2549645
Selenium	ND		0.00200	1	07/15/2025 23:13	WG2549645
Silver	ND		0.00200	1	07/15/2025 23:13	WG2549645
Sodium	44.3		2.00	1	07/15/2025 23:13	WG2549645
Thallium	ND		0.00200	1	07/15/2025 23:13	WG2549645
Tin	ND		0.00200	1	07/15/2025 23:13	WG2549645
Vanadium	ND		0.00500	1	07/15/2025 23:13	WG2549645
Zinc	ND		0.0250	1	07/15/2025 23:13	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/28/2025 14:55	WG2548883
Acrolein	ND	J4	0.0500	1	06/28/2025 14:55	WG2548883
Acrylonitrile	ND		0.0100	1	06/28/2025 14:55	WG2548883
Benzene	ND		0.00100	1	06/28/2025 14:55	WG2548883
Bromodichloromethane	ND		0.00100	1	06/28/2025 14:55	WG2548883
Bromochloromethane	ND		0.00100	1	06/28/2025 14:55	WG2548883
Bromoform	ND		0.00100	1	06/28/2025 14:55	WG2548883
Bromomethane	ND	C3	0.00500	1	06/28/2025 14:55	WG2548883
Carbon disulfide	ND		0.00100	1	06/28/2025 14:55	WG2548883
Carbon tetrachloride	ND		0.00100	1	06/28/2025 14:55	WG2548883
Chlorobenzene	ND		0.00100	1	06/28/2025 14:55	WG2548883
Chlorodibromomethane	ND		0.00100	1	06/28/2025 14:55	WG2548883
Chloroethane	ND		0.00500	1	06/28/2025 14:55	WG2548883
Chloroform	ND		0.00500	1	06/28/2025 14:55	WG2548883
Chloromethane	ND	C3	0.00250	1	06/28/2025 14:55	WG2548883
1,2-Dibromoethane	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	06/28/2025 14:55	WG2548883
Dibromomethane	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,2-Dichlorobenzene	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,3-Dichlorobenzene	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,4-Dichlorobenzene	ND		0.00100	1	06/28/2025 14:55	WG2548883
Dichlorodifluoromethane	ND		0.00500	1	06/28/2025 14:55	WG2548883
1,1-Dichloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,2-Dichloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,1-Dichloroethene	ND		0.00100	1	06/28/2025 14:55	WG2548883
cis-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 14:55	WG2548883
trans-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,2-Dichloropropane	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,3-Dichloropropane	ND		0.00100	1	06/28/2025 14:55	WG2548883
2,2-Dichloropropane	ND		0.00100	1	06/28/2025 14:55	WG2548883
cis-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 14:55	WG2548883
trans-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,1-Dichloropropene	ND		0.00100	1	06/28/2025 14:55	WG2548883
Ethylbenzene	ND		0.00100	1	06/28/2025 14:55	WG2548883
2-Hexanone	ND		0.0100	1	06/28/2025 14:55	WG2548883
Iodomethane	ND	C3	0.0100	1	06/28/2025 14:55	WG2548883
2-Butanone (MEK)	ND		0.0100	1	06/28/2025 14:55	WG2548883
Methylene Chloride	ND		0.00500	1	06/28/2025 14:55	WG2548883
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/28/2025 14:55	WG2548883
Styrene	ND		0.00100	1	06/28/2025 14:55	WG2548883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548883
Tetrachloroethene	ND		0.00100	1	06/28/2025 14:55	WG2548883
Toluene	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,2,4-Trichlorobenzene	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,1,1-Trichloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548883
1,1,2-Trichloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548883
Trichloroethene	ND		0.00100	1	06/28/2025 14:55	WG2548883
Trichlorofluoromethane	ND		0.00500	1	06/28/2025 14:55	WG2548883
1,2,3-Trichloropropane	ND		0.00250	1	06/28/2025 14:55	WG2548883
Vinyl acetate	ND	J4	0.0100	1	06/28/2025 14:55	WG2548883
Vinyl chloride	ND		0.00100	1	06/28/2025 14:55	WG2548883
Xylenes, Total	ND		0.00300	1	06/28/2025 14:55	WG2548883
Acetonitrile	ND		0.0500	1	06/28/2025 14:55	WG2548883
Allyl chloride	ND		0.00500	1	06/28/2025 14:55	WG2548883
Chloroprene	ND		0.0500	1	06/28/2025 14:55	WG2548883
trans-1,4-Dichloro-2-butene	ND		0.00250	1	06/28/2025 14:55	WG2548883
Ethyl methacrylate	ND		0.00500	1	06/28/2025 14:55	WG2548883
Isobutanol	ND		0.100	1	06/28/2025 14:55	WG2548883
Methacrylonitrile	ND		0.0500	1	06/28/2025 14:55	WG2548883
Methyl methacrylate	ND		0.00500	1	06/28/2025 14:55	WG2548883
Propionitrile	ND		0.0500	1	06/28/2025 14:55	WG2548883
(S) Toluene-d8	*91.8*		*80.0-120*		*06/28/2025 14:55*	WG2548883
(S) 4-Bromofluorobenzene	*92.9*		*77.0-126*		*06/28/2025 14:55*	WG2548883
(S) 1,2-Dichloroethane-d4	*104*		*70.0-130*		*06/28/2025 14:55*	WG2548883

Chlorinated Acid Herbicides (GC) by Method 8151A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
2,4-D	ND	J3	0.00214	1.07	06/29/2025 19:01	WG2547053
2,4,5-T	ND	J3	0.00214	1.07	06/29/2025 19:01	WG2547053
2,4,5-TP (Silvex)	ND	J3	0.00214	1.07	06/29/2025 19:01	WG2547053
(S) 2,4-Dichlorophenyl Acetic Acid	*87.9*		*14.0-158*		*06/29/2025 19:01*	WG2547053

Pesticides (GC) by Method 8081B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Alpha BHC	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Beta BHC	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Delta BHC	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Gamma BHC	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Chlordane	ND		0.00500	1	06/30/2025 14:41	WG2549167
4,4-DDD	ND		0.0000500	1	06/30/2025 14:41	WG2549167
4,4-DDE	ND		0.0000500	1	06/30/2025 14:41	WG2549167
4,4-DDT	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Dieldrin	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Endosulfan I	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Endosulfan II	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Endosulfan sulfate	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Endrin	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Endrin aldehyde	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Endrin ketone	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Heptachlor	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Heptachlor epoxide	ND		0.0000500	1	06/30/2025 14:41	WG2549167

Pesticides (GC) by Method 8081B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hexachlorobenzene	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Methoxychlor	ND		0.0000500	1	06/30/2025 14:41	WG2549167
Toxaphene	ND		0.000500	1	06/30/2025 14:41	WG2549167
(S) Decachlorobiphenyl	*99.7*		*10.0-128*		*06/30/2025 14:41*	WG2549167
(S) Tetrachloro-m-xylene	*103*		*10.0-127*		*06/30/2025 14:41*	WG2549167

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000500	1	06/27/2025 15:28	WG2547382
PCB 1221	ND		0.000500	1	06/27/2025 15:28	WG2547382
PCB 1232	ND		0.000500	1	06/27/2025 15:28	WG2547382
PCB 1242	ND		0.000500	1	06/27/2025 15:28	WG2547382
PCB 1248	ND		0.000500	1	06/27/2025 15:28	WG2547382
PCB 1254	ND		0.000500	1	06/27/2025 15:28	WG2547382
PCB 1260	ND		0.000500	1	06/27/2025 15:28	WG2547382
Total PCBs	ND		0.000500	1	06/27/2025 15:28	WG2547382
(S) Decachlorobiphenyl	*73.9*		*10.0-128*		*06/27/2025 15:28*	WG2547382
(S) Tetrachloro-m-xylene	*51.4*		*10.0-127*		*06/27/2025 15:28*	WG2547382

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Acenaphthylene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Anthracene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Benzo(a)anthracene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Benzo(b)fluoranthene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Benzo(k)fluoranthene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Benzo(g,h,i)perylene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Benzo(a)pyrene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Benzyl alcohol	ND		0.0100	1	07/09/2025 04:46	WG2550537
Bis(2-chlorethoxy)methane	ND	C3	0.0100	1	07/09/2025 04:46	WG2550537
Bis(2-chloroethyl)ether	ND	C3	0.0100	1	07/09/2025 04:46	WG2550537
2,2-Oxybis(1-Chloropropane)	ND		0.0100	1	07/09/2025 04:46	WG2550537
4-Bromophenyl-phenylether	ND		0.0100	1	07/09/2025 04:46	WG2550537
4-Chloroaniline	ND		0.0100	1	07/09/2025 04:46	WG2550537
2-Chloronaphthalene	ND		0.00100	1	07/09/2025 04:46	WG2550537
4-Chlorophenyl-phenylether	ND		0.0100	1	07/09/2025 04:46	WG2550537
Chrysene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Dibenz(a,h)anthracene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Dibenzofuran	ND		0.0100	1	07/09/2025 04:46	WG2550537
3,3-Dichlorobenzidine	ND		0.0100	1	07/09/2025 04:46	WG2550537
2,4-Dinitrotoluene	ND		0.0100	1	07/09/2025 04:46	WG2550537
2,6-Dinitrotoluene	ND		0.0100	1	07/09/2025 04:46	WG2550537
Fluoranthene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Fluorene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Hexachlorobenzene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Hexachloro-1,3-butadiene	ND		0.0100	1	07/09/2025 04:46	WG2550537
Hexachlorocyclopentadiene	ND		0.0100	1	07/09/2025 04:46	WG2550537
Hexachloroethane	ND		0.0100	1	07/09/2025 04:46	WG2550537
Indeno(1,2,3-cd)pyrene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Isophorone	ND		0.0100	1	07/09/2025 04:46	WG2550537
2-Methylnaphthalene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Naphthalene	ND		0.00100	1	07/09/2025 04:46	WG2550537

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	ND		0.0100	1	07/09/2025 04:46	WG2550537
3-Nitroaniline	ND		0.0100	1	07/09/2025 04:46	WG2550537
4-Nitroaniline	ND		0.0100	1	07/09/2025 04:46	WG2550537
Nitrobenzene	ND		0.0100	1	07/09/2025 04:46	WG2550537
n-Nitrosodiphenylamine	ND		0.0100	1	07/09/2025 04:46	WG2550537
n-Nitrosodi-n-propylamine	ND		0.0100	1	07/09/2025 04:46	WG2550537
Phenanthrene	ND		0.00100	1	07/09/2025 04:46	WG2550537
Benzylbutyl phthalate	ND		0.00300	1	07/09/2025 04:46	WG2550537
Bis(2-ethylhexyl)phthalate	ND		0.00300	1	07/09/2025 04:46	WG2550537
Di-n-butyl phthalate	ND		0.00300	1	07/09/2025 04:46	WG2550537
Diethyl phthalate	ND		0.00300	1	07/09/2025 04:46	WG2550537
Dimethyl phthalate	ND		0.00300	1	07/09/2025 04:46	WG2550537
Di-n-octyl phthalate	ND		0.00300	1	07/09/2025 04:46	WG2550537
Pyrene	ND		0.00100	1	07/09/2025 04:46	WG2550537
1,2,4-Trichlorobenzene	ND		0.0100	1	07/09/2025 04:46	WG2550537
4-Chloro-3-methylphenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
2-Chlorophenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
2-Methylphenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
3&4-Methyl Phenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
2,4-Dichlorophenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
2,4-Dimethylphenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
4,6-Dinitro-2-methylphenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
2,4-Dinitrophenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
2-Nitrophenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
4-Nitrophenol	ND	J3 J4	0.0100	1	07/09/2025 04:46	WG2550537
Pentachlorophenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
Phenol	ND	C3	0.0100	1	07/09/2025 04:46	WG2550537
2,4,5-Trichlorophenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
2,4,6-Trichlorophenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
Acetophenone	ND		0.0100	1	07/09/2025 04:46	WG2550537
2-Acetylaminofluorene	ND		0.0100	1	07/09/2025 04:46	WG2550537
4-Aminobiphenyl	ND	J4	0.0100	1	07/09/2025 04:46	WG2550537
Chlorobenzilate	ND		0.0500	1	07/09/2025 04:46	WG2550537
Diallate	ND		0.0100	1	07/09/2025 04:46	WG2550537
Dinoseb	ND		0.0500	1	07/09/2025 04:46	WG2550537
Ethyl methanesulfonate	ND		0.0100	1	07/09/2025 04:46	WG2550537
Famphur	ND	C6	0.0200	1	07/09/2025 04:46	WG2550537
Hexachloropropene	ND		0.0500	1	07/09/2025 04:46	WG2550537
Isodrin	ND		0.0100	1	07/09/2025 04:46	WG2550537
Isosafrole	ND		0.0100	1	07/09/2025 04:46	WG2550537
Kepone	ND	C6	0.0200	1	07/09/2025 04:46	WG2550537
Methapyrilene	ND	C3 J4	0.0500	1	07/09/2025 04:46	WG2550537
3-Methylcholanthrene	ND		0.0100	1	07/09/2025 04:46	WG2550537
Methyl methanesulfonate	ND		0.0500	1	07/09/2025 04:46	WG2550537
Methyl parathion	ND		0.0100	1	07/09/2025 04:46	WG2550537
1,4-Naphthoquinone	ND	J4	0.0500	1	07/09/2025 04:46	WG2550537
1-Naphthylamine	ND		0.0100	1	07/09/2025 04:46	WG2550537
2-Naphthylamine	ND		0.0100	1	07/09/2025 04:46	WG2550537
n-Nitrosodi-n-butylamine	ND		0.0100	1	07/09/2025 04:46	WG2550537
n-Nitrosodiethylamine	ND		0.0100	1	07/09/2025 04:46	WG2550537
n-Nitrosodimethylamine	ND		0.0100	1	07/09/2025 04:46	WG2550537
n-Nitrosomethylethylamine	ND		0.0100	1	07/09/2025 04:46	WG2550537
N-Nitrosomorpholine	ND		0.0100	1	07/09/2025 04:46	WG2550537
n-Nitrosopiperidine	ND		0.0100	1	07/09/2025 04:46	WG2550537
n-Nitrosopyrrolidine	ND		0.0100	1	07/09/2025 04:46	WG2550537
5-Nitro-o-toluidine	ND		0.0100	1	07/09/2025 04:46	WG2550537

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethyl Parathion	ND		0.0100	1	07/09/2025 04:46	WG2550537
Pentachlorobenzene	ND		0.0100	1	07/09/2025 04:46	WG2550537
Pentachloronitrobenzene	ND		0.0100	1	07/09/2025 04:46	WG2550537
Phenacetin	ND		0.0100	1	07/09/2025 04:46	WG2550537
p-Phenylenediamine	ND	C3 J4	6.90	1	07/09/2025 04:46	WG2550537
Phorate	ND	C3	0.0500	1	07/09/2025 04:46	WG2550537
Pronamide	ND		0.0100	1	07/09/2025 04:46	WG2550537
Dimethoate	ND	C3	0.0500	1	07/09/2025 04:46	WG2550537
P-(Dimethylamino) Azobenzene	ND		0.0100	1	07/09/2025 04:46	WG2550537
Dimethylbenz (A) Anthracene	ND	C3	0.0100	1	07/09/2025 04:46	WG2550537
3,3-Dimethylbenzidine	ND	J4	0.0100	1	07/09/2025 04:46	WG2550537
1,3-Dinitrobenzene	ND		0.0100	1	07/09/2025 04:46	WG2550537
Diphenylamine	ND		0.0100	1	07/09/2025 04:46	WG2550537
Disulfoton	ND	C3	0.0100	1	07/09/2025 04:46	WG2550537
Safrole	ND		0.0100	1	07/09/2025 04:46	WG2550537
Thionazin	ND		0.0100	1	07/09/2025 04:46	WG2550537
o-Toluidine	ND		0.0100	1	07/09/2025 04:46	WG2550537
O,O,O-Triethyl phosphorothioate	ND		0.0100	1	07/09/2025 04:46	WG2550537
1,3,5-Trinitrobenzene	ND		0.0100	1	07/09/2025 04:46	WG2550537
1,2,4,5-Tetrachlorobenzene	ND		0.0100	1	07/09/2025 04:46	WG2550537
2,6-Dichlorophenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
2,3,4,6-Tetrachlorophenol	ND		0.0100	1	07/09/2025 04:46	WG2550537
(S) 2-Fluorophenol	*18.9*		*10.0-120*		*07/09/2025 04:46*	WG2550537
(S) Phenol-d5	*14.0*		*10.0-120*		*07/09/2025 04:46*	WG2550537
(S) Nitrobenzene-d5	*45.8*		*10.0-127*		*07/09/2025 04:46*	WG2550537
(S) 2-Fluorobiphenyl	*47.2*		*10.0-130*		*07/09/2025 04:46*	WG2550537
(S) 2,4,6-Tribromophenol	*83.8*		*10.0-155*		*07/09/2025 04:46*	WG2550537
(S) p-Terphenyl-d14	*68.2*		*10.0-128*		*07/09/2025 04:46*	WG2550537

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	68.0		10.0	1	06/30/2025 08:33	WG2547498

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	ND		0.100	1	07/01/2025 23:08	WG2550976

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	ND		20.0	1	06/27/2025 20:26	WG2548374

Wet Chemistry by Method 4500CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	ND		0.00500	1	07/02/2025 09:35	WG2550844

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Sulfide	ND		0.0500	1	06/26/2025 16:26	WG2547676

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	5.13		1.00	1	06/26/2025 02:09	WG2546710
Nitrate as (N)	5.37		0.100	1	06/26/2025 02:09	WG2546710
Sulfate	ND		5.00	1	06/26/2025 02:09	WG2546710

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	ND		1.00	1	07/04/2025 21:00	WG2553057

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	06/30/2025 18:57	WG2547265

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	07/15/2025 23:16	WG2549645
Arsenic	ND		0.00200	1	07/15/2025 23:16	WG2549645
Barium	0.0798		0.00200	1	07/15/2025 23:16	WG2549645
Beryllium	0.00269		0.00200	1	07/15/2025 23:16	WG2549645
Cadmium	0.00282		0.00100	1	07/15/2025 23:16	WG2549645
Calcium	2.16		1.00	1	07/15/2025 23:16	WG2549645
Chromium	ND		0.00200	1	07/15/2025 23:16	WG2549645
Copper	ND		0.00500	1	07/15/2025 23:16	WG2549645
Cobalt	ND		0.00200	1	07/15/2025 23:16	WG2549645
Iron	ND		0.100	1	07/15/2025 23:16	WG2549645

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Lead	ND		0.00200	1	07/15/2025 23:16	WG2549645
Magnesium	1.95		1.00	1	07/15/2025 23:16	WG2549645
Manganese,Dissolved	0.240		0.00500	1	07/05/2025 17:26	WG2549569
Nickel	0.0453		0.00200	1	07/15/2025 23:16	WG2549645
Potassium	3.06		2.00	1	07/15/2025 23:16	WG2549645
Selenium	ND		0.00200	1	07/15/2025 23:16	WG2549645
Silver	ND		0.00200	1	07/15/2025 23:16	WG2549645
Sodium	3.79		2.00	1	07/15/2025 23:16	WG2549645
Thallium	ND		0.00200	1	07/15/2025 23:16	WG2549645
Tin	ND		0.00200	1	07/15/2025 23:16	WG2549645
Vanadium	ND		0.00500	1	07/15/2025 23:16	WG2549645
Zinc	0.400		0.0250	1	07/15/2025 23:16	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/28/2025 15:15	WG2548883
Acrolein	ND	J4	0.0500	1	06/28/2025 15:15	WG2548883
Acrylonitrile	ND		0.0100	1	06/28/2025 15:15	WG2548883
Benzene	ND		0.00100	1	06/28/2025 15:15	WG2548883
Bromodichloromethane	ND		0.00100	1	06/28/2025 15:15	WG2548883
Bromochloromethane	ND		0.00100	1	06/28/2025 15:15	WG2548883
Bromoform	ND		0.00100	1	06/28/2025 15:15	WG2548883
Bromomethane	ND	C3	0.00500	1	06/28/2025 15:15	WG2548883
Carbon disulfide	ND		0.00100	1	06/28/2025 15:15	WG2548883
Carbon tetrachloride	ND		0.00100	1	06/28/2025 15:15	WG2548883
Chlorobenzene	ND		0.00100	1	06/28/2025 15:15	WG2548883
Chlorodibromomethane	ND		0.00100	1	06/28/2025 15:15	WG2548883
Chloroethane	ND		0.00500	1	06/28/2025 15:15	WG2548883
Chloroform	ND		0.00500	1	06/28/2025 15:15	WG2548883
Chloromethane	ND	C3	0.00250	1	06/28/2025 15:15	WG2548883
1,2-Dibromoethane	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	06/28/2025 15:15	WG2548883
Dibromomethane	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,2-Dichlorobenzene	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,3-Dichlorobenzene	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,4-Dichlorobenzene	ND		0.00100	1	06/28/2025 15:15	WG2548883
Dichlorodifluoromethane	ND		0.00500	1	06/28/2025 15:15	WG2548883
1,1-Dichloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,2-Dichloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,1-Dichloroethene	ND		0.00100	1	06/28/2025 15:15	WG2548883
cis-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 15:15	WG2548883
trans-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,2-Dichloropropane	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,3-Dichloropropane	ND		0.00100	1	06/28/2025 15:15	WG2548883
2,2-Dichloropropane	ND		0.00100	1	06/28/2025 15:15	WG2548883
cis-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 15:15	WG2548883
trans-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,1-Dichloropropene	ND		0.00100	1	06/28/2025 15:15	WG2548883
Ethylbenzene	ND		0.00100	1	06/28/2025 15:15	WG2548883
2-Hexanone	ND		0.0100	1	06/28/2025 15:15	WG2548883
Iodomethane	ND	C3	0.0100	1	06/28/2025 15:15	WG2548883
2-Butanone (MEK)	ND		0.0100	1	06/28/2025 15:15	WG2548883
Methylene Chloride	ND		0.00500	1	06/28/2025 15:15	WG2548883
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/28/2025 15:15	WG2548883
Styrene	ND		0.00100	1	06/28/2025 15:15	WG2548883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548883
Tetrachloroethene	ND		0.00100	1	06/28/2025 15:15	WG2548883
Toluene	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,2,4-Trichlorobenzene	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,1,1-Trichloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548883
1,1,2-Trichloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548883
Trichloroethene	ND		0.00100	1	06/28/2025 15:15	WG2548883
Trichlorofluoromethane	ND		0.00500	1	06/28/2025 15:15	WG2548883
1,2,3-Trichloropropane	ND		0.00250	1	06/28/2025 15:15	WG2548883
Vinyl acetate	ND	J4	0.0100	1	06/28/2025 15:15	WG2548883
Vinyl chloride	ND		0.00100	1	06/28/2025 15:15	WG2548883
Xylenes, Total	ND		0.00300	1	06/28/2025 15:15	WG2548883
Acetonitrile	ND		0.0500	1	06/28/2025 15:15	WG2548883
Allyl chloride	ND		0.00500	1	06/28/2025 15:15	WG2548883
Chloroprene	ND		0.0500	1	06/28/2025 15:15	WG2548883
trans-1,4-Dichloro-2-butene	ND		0.00250	1	06/28/2025 15:15	WG2548883
Ethyl methacrylate	ND		0.00500	1	06/28/2025 15:15	WG2548883
Isobutanol	ND		0.100	1	06/28/2025 15:15	WG2548883
Methacrylonitrile	ND		0.0500	1	06/28/2025 15:15	WG2548883
Methyl methacrylate	ND		0.00500	1	06/28/2025 15:15	WG2548883
Propionitrile	ND		0.0500	1	06/28/2025 15:15	WG2548883
(S) Toluene-d8	*92.9*		*80.0-120*		*06/28/2025 15:15*	WG2548883
(S) 4-Bromofluorobenzene	*93.6*		*77.0-126*		*06/28/2025 15:15*	WG2548883
(S) 1,2-Dichloroethane-d4	*106*		*70.0-130*		*06/28/2025 15:15*	WG2548883

Chlorinated Acid Herbicides (GC) by Method 8151A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
2,4-D	ND	J3	0.00206	1.03	06/29/2025 19:11	WG2547053
2,4,5-T	ND	J3	0.00206	1.03	06/29/2025 19:11	WG2547053
2,4,5-TP (Silvex)	ND	J3	0.00206	1.03	06/29/2025 19:11	WG2547053
(S) 2,4-Dichlorophenyl Acetic Acid	*75.5*		*14.0-158*		*06/29/2025 19:11*	WG2547053

Pesticides (GC) by Method 8081B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Alpha BHC	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Beta BHC	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Delta BHC	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Gamma BHC	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Chlordane	ND		0.00500	1	06/30/2025 14:52	WG2549167
4,4-DDD	ND		0.0000500	1	06/30/2025 14:52	WG2549167
4,4-DDE	ND		0.0000500	1	06/30/2025 14:52	WG2549167
4,4-DDT	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Dieldrin	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Endosulfan I	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Endosulfan II	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Endosulfan sulfate	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Endrin	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Endrin aldehyde	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Endrin ketone	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Heptachlor	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Heptachlor epoxide	ND		0.0000500	1	06/30/2025 14:52	WG2549167

Pesticides (GC) by Method 8081B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hexachlorobenzene	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Methoxychlor	ND		0.0000500	1	06/30/2025 14:52	WG2549167
Toxaphene	ND		0.000500	1	06/30/2025 14:52	WG2549167
(S) Decachlorobiphenyl	*78.8*		*10.0-128*		*06/30/2025 14:52*	WG2549167
(S) Tetrachloro-m-xylene	*86.7*		*10.0-127*		*06/30/2025 14:52*	WG2549167

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000500	1	06/27/2025 15:39	WG2547382
PCB 1221	ND		0.000500	1	06/27/2025 15:39	WG2547382
PCB 1232	ND		0.000500	1	06/27/2025 15:39	WG2547382
PCB 1242	ND		0.000500	1	06/27/2025 15:39	WG2547382
PCB 1248	ND		0.000500	1	06/27/2025 15:39	WG2547382
PCB 1254	ND		0.000500	1	06/27/2025 15:39	WG2547382
PCB 1260	ND		0.000500	1	06/27/2025 15:39	WG2547382
Total PCBs	ND		0.000500	1	06/27/2025 15:39	WG2547382
(S) Decachlorobiphenyl	*76.3*		*10.0-128*		*06/27/2025 15:39*	WG2547382
(S) Tetrachloro-m-xylene	*61.1*		*10.0-127*		*06/27/2025 15:39*	WG2547382

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Acenaphthylene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Anthracene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Benzo(a)anthracene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Benzo(b)fluoranthene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Benzo(k)fluoranthene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Benzo(g,h,i)perylene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Benzo(a)pyrene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Benzyl alcohol	ND		0.0100	1	07/09/2025 05:08	WG2550537
Bis(2-chlorethoxy)methane	ND	C3	0.0100	1	07/09/2025 05:08	WG2550537
Bis(2-chloroethyl)ether	ND	C3	0.0100	1	07/09/2025 05:08	WG2550537
2,2-Oxybis(1-Chloropropane)	ND		0.0100	1	07/09/2025 05:08	WG2550537
4-Bromophenyl-phenylether	ND		0.0100	1	07/09/2025 05:08	WG2550537
4-Chloroaniline	ND		0.0100	1	07/09/2025 05:08	WG2550537
2-Chloronaphthalene	ND		0.00100	1	07/09/2025 05:08	WG2550537
4-Chlorophenyl-phenylether	ND		0.0100	1	07/09/2025 05:08	WG2550537
Chrysene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Dibenz(a,h)anthracene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Dibenzofuran	ND		0.0100	1	07/09/2025 05:08	WG2550537
3,3-Dichlorobenzidine	ND		0.0100	1	07/09/2025 05:08	WG2550537
2,4-Dinitrotoluene	ND		0.0100	1	07/09/2025 05:08	WG2550537
2,6-Dinitrotoluene	ND		0.0100	1	07/09/2025 05:08	WG2550537
Fluoranthene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Fluorene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Hexachlorobenzene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Hexachloro-1,3-butadiene	ND		0.0100	1	07/09/2025 05:08	WG2550537
Hexachlorocyclopentadiene	ND		0.0100	1	07/09/2025 05:08	WG2550537
Hexachloroethane	ND		0.0100	1	07/09/2025 05:08	WG2550537
Indeno(1,2,3-cd)pyrene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Isophorone	ND		0.0100	1	07/09/2025 05:08	WG2550537
2-Methylnaphthalene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Naphthalene	ND		0.00100	1	07/09/2025 05:08	WG2550537

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	ND		0.0100	1	07/09/2025 05:08	WG2550537
3-Nitroaniline	ND		0.0100	1	07/09/2025 05:08	WG2550537
4-Nitroaniline	ND		0.0100	1	07/09/2025 05:08	WG2550537
Nitrobenzene	ND		0.0100	1	07/09/2025 05:08	WG2550537
n-Nitrosodiphenylamine	ND		0.0100	1	07/09/2025 05:08	WG2550537
n-Nitrosodi-n-propylamine	ND		0.0100	1	07/09/2025 05:08	WG2550537
Phenanthrene	ND		0.00100	1	07/09/2025 05:08	WG2550537
Benzylbutyl phthalate	ND		0.00300	1	07/09/2025 05:08	WG2550537
Bis(2-ethylhexyl)phthalate	ND		0.00300	1	07/09/2025 05:08	WG2550537
Di-n-butyl phthalate	ND		0.00300	1	07/09/2025 05:08	WG2550537
Diethyl phthalate	ND		0.00300	1	07/09/2025 05:08	WG2550537
Dimethyl phthalate	ND		0.00300	1	07/09/2025 05:08	WG2550537
Di-n-octyl phthalate	ND		0.00300	1	07/09/2025 05:08	WG2550537
Pyrene	ND		0.00100	1	07/09/2025 05:08	WG2550537
1,2,4-Trichlorobenzene	ND		0.0100	1	07/09/2025 05:08	WG2550537
4-Chloro-3-methylphenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
2-Chlorophenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
2-Methylphenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
3&4-Methyl Phenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
2,4-Dichlorophenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
2,4-Dimethylphenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
4,6-Dinitro-2-methylphenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
2,4-Dinitrophenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
2-Nitrophenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
4-Nitrophenol	ND	J3 J4	0.0100	1	07/09/2025 05:08	WG2550537
Pentachlorophenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
Phenol	ND	C3	0.0100	1	07/09/2025 05:08	WG2550537
2,4,5-Trichlorophenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
2,4,6-Trichlorophenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
Acetophenone	ND		0.0100	1	07/09/2025 05:08	WG2550537
2-Acetylaminofluorene	ND		0.0100	1	07/09/2025 05:08	WG2550537
4-Aminobiphenyl	ND	J4	0.0100	1	07/09/2025 05:08	WG2550537
Chlorobenzilate	ND		0.0500	1	07/09/2025 05:08	WG2550537
Diallate	ND		0.0100	1	07/09/2025 05:08	WG2550537
Dinoseb	ND		0.0500	1	07/09/2025 05:08	WG2550537
Ethyl methanesulfonate	ND		0.0100	1	07/09/2025 05:08	WG2550537
Famphur	ND	C6	0.0200	1	07/09/2025 05:08	WG2550537
Hexachloropropene	ND		0.0500	1	07/09/2025 05:08	WG2550537
Isodrin	ND		0.0100	1	07/09/2025 05:08	WG2550537
Isosafrole	ND		0.0100	1	07/09/2025 05:08	WG2550537
Kepone	ND	C6	0.0200	1	07/09/2025 05:08	WG2550537
Methapyrilene	ND	C3 J4	0.0500	1	07/09/2025 05:08	WG2550537
3-Methylcholanthrene	ND		0.0100	1	07/09/2025 05:08	WG2550537
Methyl methanesulfonate	ND		0.0500	1	07/09/2025 05:08	WG2550537
Methyl parathion	ND		0.0100	1	07/09/2025 05:08	WG2550537
1,4-Naphthoquinone	ND	J4	0.0500	1	07/09/2025 05:08	WG2550537
1-Naphthylamine	ND		0.0100	1	07/09/2025 05:08	WG2550537
2-Naphthylamine	ND		0.0100	1	07/09/2025 05:08	WG2550537
n-Nitrosodi-n-butylamine	ND		0.0100	1	07/09/2025 05:08	WG2550537
n-Nitrosodiethylamine	ND		0.0100	1	07/09/2025 05:08	WG2550537
n-Nitrosodimethylamine	ND		0.0100	1	07/09/2025 05:08	WG2550537
n-Nitrosomethylethylamine	ND		0.0100	1	07/09/2025 05:08	WG2550537
N-Nitrosomorpholine	ND		0.0100	1	07/09/2025 05:08	WG2550537
n-Nitrosopiperidine	ND		0.0100	1	07/09/2025 05:08	WG2550537
n-Nitrosopyrrolidine	ND		0.0100	1	07/09/2025 05:08	WG2550537
5-Nitro-o-toluidine	ND		0.0100	1	07/09/2025 05:08	WG2550537

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethyl Parathion	ND		0.0100	1	07/09/2025 05:08	WG2550537
Pentachlorobenzene	ND		0.0100	1	07/09/2025 05:08	WG2550537
Pentachloronitrobenzene	ND		0.0100	1	07/09/2025 05:08	WG2550537
Phenacetin	ND		0.0100	1	07/09/2025 05:08	WG2550537
p-Phenylenediamine	ND	C3 J4	6.90	1	07/09/2025 05:08	WG2550537
Phorate	ND	C3	0.0500	1	07/09/2025 05:08	WG2550537
Pronamide	ND		0.0100	1	07/09/2025 05:08	WG2550537
Dimethoate	ND	C3	0.0500	1	07/09/2025 05:08	WG2550537
P-(Dimethylamino) Azobenzene	ND		0.0100	1	07/09/2025 05:08	WG2550537
Dimethylbenz (A) Anthracene	ND	C3	0.0100	1	07/09/2025 05:08	WG2550537
3,3-Dimethylbenzidine	ND	J4	0.0100	1	07/09/2025 05:08	WG2550537
1,3-Dinitrobenzene	ND		0.0100	1	07/09/2025 05:08	WG2550537
Diphenylamine	ND		0.0100	1	07/09/2025 05:08	WG2550537
Disulfoton	ND	C3	0.0100	1	07/09/2025 05:08	WG2550537
Safrole	ND		0.0100	1	07/09/2025 05:08	WG2550537
Thionazin	ND		0.0100	1	07/09/2025 05:08	WG2550537
o-Toluidine	ND		0.0100	1	07/09/2025 05:08	WG2550537
O,O,O-Triethyl phosphorothioate	ND		0.0100	1	07/09/2025 05:08	WG2550537
1,3,5-Trinitrobenzene	ND		0.0100	1	07/09/2025 05:08	WG2550537
1,2,4,5-Tetrachlorobenzene	ND		0.0100	1	07/09/2025 05:08	WG2550537
2,6-Dichlorophenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
2,3,4,6-Tetrachlorophenol	ND		0.0100	1	07/09/2025 05:08	WG2550537
(S) 2-Fluorophenol	*16.5*		*10.0-120*		*07/09/2025 05:08*	WG2550537
(S) Phenol-d5	*11.4*		*10.0-120*		*07/09/2025 05:08*	WG2550537
(S) Nitrobenzene-d5	*45.4*		*10.0-127*		*07/09/2025 05:08*	WG2550537
(S) 2-Fluorobiphenyl	*47.4*		*10.0-130*		*07/09/2025 05:08*	WG2550537
(S) 2,4,6-Tribromophenol	*86.4*		*10.0-155*		*07/09/2025 05:08*	WG2550537
(S) p-Terphenyl-d14	*68.8*		*10.0-128*		*07/09/2025 05:08*	WG2550537

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	143		10.0	1	06/30/2025 08:33	WG2547498

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.661		0.100	1	07/01/2025 23:13	WG2550976

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	ND		20.0	1	06/27/2025 20:26	WG2548374

Wet Chemistry by Method 4500CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	ND		0.00500	1	07/02/2025 09:40	WG2550844

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Sulfide	ND		0.0500	1	06/26/2025 16:26	WG2547676

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	35.0		1.00	1	06/26/2025 02:22	WG2546710
Nitrate as (N)	3.39		0.100	1	06/26/2025 02:22	WG2546710
Sulfate	19.7		5.00	1	06/26/2025 02:22	WG2546710

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	1.90		1.00	1	07/04/2025 21:20	WG2553057

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	0.000904		0.000200	1	06/30/2025 19:00	WG2547265

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	07/15/2025 23:20	WG2549645
Arsenic	0.0128		0.00200	1	07/15/2025 23:20	WG2549645
Barium	0.0662		0.00200	1	07/15/2025 23:20	WG2549645
Beryllium	ND		0.00200	1	07/15/2025 23:20	WG2549645
Cadmium	ND		0.00100	1	07/15/2025 23:20	WG2549645
Calcium	9.79		1.00	1	07/15/2025 23:20	WG2549645
Chromium	ND		0.00200	1	07/15/2025 23:20	WG2549645
Copper	ND		0.00500	1	07/15/2025 23:20	WG2549645
Cobalt	0.0575		0.00200	1	07/15/2025 23:20	WG2549645
Iron	3.07		0.100	1	07/15/2025 23:20	WG2549645

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Lead	0.00439		0.00200	1	07/15/2025 23:20	WG2549645
Magnesium	2.88		1.00	1	07/15/2025 23:20	WG2549645
Manganese,Dissolved	2.93		0.00500	1	07/05/2025 17:30	WG2549569
Nickel	0.00915		0.00200	1	07/15/2025 23:20	WG2549645
Potassium	3.93		2.00	1	07/15/2025 23:20	WG2549645
Selenium	ND		0.00200	1	07/15/2025 23:20	WG2549645
Silver	ND		0.00200	1	07/15/2025 23:20	WG2549645
Sodium	27.9		2.00	1	07/15/2025 23:20	WG2549645
Thallium	ND		0.00200	1	07/15/2025 23:20	WG2549645
Tin	ND		0.00200	1	07/15/2025 23:20	WG2549645
Vanadium	ND		0.00500	1	07/15/2025 23:20	WG2549645
Zinc	ND		0.0250	1	07/15/2025 23:20	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/28/2025 15:36	WG2548883
Acrolein	ND	J4	0.0500	1	06/28/2025 15:36	WG2548883
Acrylonitrile	ND		0.0100	1	06/28/2025 15:36	WG2548883
Benzene	ND		0.00100	1	06/28/2025 15:36	WG2548883
Bromodichloromethane	ND		0.00100	1	06/28/2025 15:36	WG2548883
Bromochloromethane	ND		0.00100	1	06/28/2025 15:36	WG2548883
Bromoform	ND		0.00100	1	06/28/2025 15:36	WG2548883
Bromomethane	ND	C3	0.00500	1	06/28/2025 15:36	WG2548883
Carbon disulfide	ND		0.00100	1	06/28/2025 15:36	WG2548883
Carbon tetrachloride	ND		0.00100	1	06/28/2025 15:36	WG2548883
Chlorobenzene	ND		0.00100	1	06/28/2025 15:36	WG2548883
Chlorodibromomethane	ND		0.00100	1	06/28/2025 15:36	WG2548883
Chloroethane	ND		0.00500	1	06/28/2025 15:36	WG2548883
Chloroform	ND		0.00500	1	06/28/2025 15:36	WG2548883
Chloromethane	ND	C3	0.00250	1	06/28/2025 15:36	WG2548883
1,2-Dibromoethane	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	06/28/2025 15:36	WG2548883
Dibromomethane	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,2-Dichlorobenzene	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,3-Dichlorobenzene	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,4-Dichlorobenzene	ND		0.00100	1	06/28/2025 15:36	WG2548883
Dichlorodifluoromethane	ND		0.00500	1	06/28/2025 15:36	WG2548883
1,1-Dichloroethane	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,2-Dichloroethane	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,1-Dichloroethene	ND		0.00100	1	06/28/2025 15:36	WG2548883
cis-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 15:36	WG2548883
trans-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,2-Dichloropropane	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,3-Dichloropropane	ND		0.00100	1	06/28/2025 15:36	WG2548883
2,2-Dichloropropane	ND		0.00100	1	06/28/2025 15:36	WG2548883
cis-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 15:36	WG2548883
trans-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,1-Dichloropropene	ND		0.00100	1	06/28/2025 15:36	WG2548883
Ethylbenzene	ND		0.00100	1	06/28/2025 15:36	WG2548883
2-Hexanone	ND		0.0100	1	06/28/2025 15:36	WG2548883
Iodomethane	ND	C3	0.0100	1	06/28/2025 15:36	WG2548883
2-Butanone (MEK)	ND		0.0100	1	06/28/2025 15:36	WG2548883
Methylene Chloride	ND		0.00500	1	06/28/2025 15:36	WG2548883
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/28/2025 15:36	WG2548883
Styrene	ND		0.00100	1	06/28/2025 15:36	WG2548883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 15:36	WG2548883
Tetrachloroethene	ND		0.00100	1	06/28/2025 15:36	WG2548883
Toluene	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,2,4-Trichlorobenzene	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,1,1-Trichloroethane	ND		0.00100	1	06/28/2025 15:36	WG2548883
1,1,2-Trichloroethane	ND		0.00100	1	06/28/2025 15:36	WG2548883
Trichloroethene	ND		0.00100	1	06/28/2025 15:36	WG2548883
Trichlorofluoromethane	ND		0.00500	1	06/28/2025 15:36	WG2548883
1,2,3-Trichloropropane	ND		0.00250	1	06/28/2025 15:36	WG2548883
Vinyl acetate	ND	J4	0.0100	1	06/28/2025 15:36	WG2548883
Vinyl chloride	ND		0.00100	1	06/28/2025 15:36	WG2548883
Xylenes, Total	ND		0.00300	1	06/28/2025 15:36	WG2548883
Acetonitrile	ND		0.0500	1	06/28/2025 15:36	WG2548883
Allyl chloride	ND		0.00500	1	06/28/2025 15:36	WG2548883
Chloroprene	ND		0.0500	1	06/28/2025 15:36	WG2548883
trans-1,4-Dichloro-2-butene	ND		0.00250	1	06/28/2025 15:36	WG2548883
Ethyl methacrylate	ND		0.00500	1	06/28/2025 15:36	WG2548883
Isobutanol	ND		0.100	1	06/28/2025 15:36	WG2548883
Methacrylonitrile	ND		0.0500	1	06/28/2025 15:36	WG2548883
Methyl methacrylate	ND		0.00500	1	06/28/2025 15:36	WG2548883
Propionitrile	ND		0.0500	1	06/28/2025 15:36	WG2548883
(S) Toluene-d8	*93.4*		*80.0-120*		*06/28/2025 15:36*	WG2548883
(S) 4-Bromofluorobenzene	*93.4*		*77.0-126*		*06/28/2025 15:36*	WG2548883
(S) 1,2-Dichloroethane-d4	*106*		*70.0-130*		*06/28/2025 15:36*	WG2548883

Chlorinated Acid Herbicides (GC) by Method 8151A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
2,4-D	ND	J3	0.00200	1	06/29/2025 19:22	WG2547053
2,4,5-T	ND	J3	0.00200	1	06/29/2025 19:22	WG2547053
2,4,5-TP (Silvex)	ND	J3	0.00200	1	06/29/2025 19:22	WG2547053
(S) 2,4-Dichlorophenyl Acetic Acid	*76.1*		*14.0-158*		*06/29/2025 19:22*	WG2547053

Pesticides (GC) by Method 8081B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Alpha BHC	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Beta BHC	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Delta BHC	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Gamma BHC	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Chlordane	ND		0.00500	1	06/30/2025 15:03	WG2549167
4,4-DDD	ND		0.0000500	1	06/30/2025 15:03	WG2549167
4,4-DDE	ND		0.0000500	1	06/30/2025 15:03	WG2549167
4,4-DDT	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Dieldrin	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Endosulfan I	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Endosulfan II	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Endosulfan sulfate	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Endrin	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Endrin aldehyde	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Endrin ketone	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Heptachlor	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Heptachlor epoxide	ND		0.0000500	1	06/30/2025 15:03	WG2549167

Pesticides (GC) by Method 8081B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hexachlorobenzene	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Methoxychlor	ND		0.0000500	1	06/30/2025 15:03	WG2549167
Toxaphene	ND		0.000500	1	06/30/2025 15:03	WG2549167
(S) Decachlorobiphenyl	*93.3*		*10.0-128*		*06/30/2025 15:03*	WG2549167
(S) Tetrachloro-m-xylene	*65.5*		*10.0-127*		*06/30/2025 15:03*	WG2549167

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000550	1.1	06/27/2025 15:50	WG2547382
PCB 1221	ND		0.000550	1.1	06/27/2025 15:50	WG2547382
PCB 1232	ND		0.000550	1.1	06/27/2025 15:50	WG2547382
PCB 1242	ND		0.000550	1.1	06/27/2025 15:50	WG2547382
PCB 1248	ND		0.000550	1.1	06/27/2025 15:50	WG2547382
PCB 1254	ND		0.000550	1.1	06/27/2025 15:50	WG2547382
PCB 1260	ND		0.000550	1.1	06/27/2025 15:50	WG2547382
Total PCBs	ND		0.000550	1.1	06/27/2025 15:50	WG2547382
(S) Decachlorobiphenyl	*83.3*		*10.0-128*		*06/27/2025 15:50*	WG2547382
(S) Tetrachloro-m-xylene	*69.5*		*10.0-127*		*06/27/2025 15:50*	WG2547382

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Acenaphthylene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Anthracene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Benzo(a)anthracene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Benzo(b)fluoranthene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Benzo(k)fluoranthene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Benzo(g,h,i)perylene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Benzo(a)pyrene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Benzyl alcohol	ND		0.0100	1	07/09/2025 05:29	WG2550537
Bis(2-chlorethoxy)methane	ND	C3	0.0100	1	07/09/2025 05:29	WG2550537
Bis(2-chloroethyl)ether	ND	C3	0.0100	1	07/09/2025 05:29	WG2550537
2,2-Oxybis(1-Chloropropane)	ND		0.0100	1	07/09/2025 05:29	WG2550537
4-Bromophenyl-phenylether	ND		0.0100	1	07/09/2025 05:29	WG2550537
4-Chloroaniline	ND		0.0100	1	07/09/2025 05:29	WG2550537
2-Chloronaphthalene	ND		0.00100	1	07/09/2025 05:29	WG2550537
4-Chlorophenyl-phenylether	ND		0.0100	1	07/09/2025 05:29	WG2550537
Chrysene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Dibenz(a,h)anthracene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Dibenzofuran	ND		0.0100	1	07/09/2025 05:29	WG2550537
3,3-Dichlorobenzidine	ND		0.0100	1	07/09/2025 05:29	WG2550537
2,4-Dinitrotoluene	ND		0.0100	1	07/09/2025 05:29	WG2550537
2,6-Dinitrotoluene	ND		0.0100	1	07/09/2025 05:29	WG2550537
Fluoranthene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Fluorene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Hexachlorobenzene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Hexachloro-1,3-butadiene	ND		0.0100	1	07/09/2025 05:29	WG2550537
Hexachlorocyclopentadiene	ND		0.0100	1	07/09/2025 05:29	WG2550537
Hexachloroethane	ND		0.0100	1	07/09/2025 05:29	WG2550537
Indeno(1,2,3-cd)pyrene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Isophorone	ND		0.0100	1	07/09/2025 05:29	WG2550537
2-Methylnaphthalene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Naphthalene	ND		0.00100	1	07/09/2025 05:29	WG2550537

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
2-Nitroaniline	ND		0.0100	1	07/09/2025 05:29	WG2550537
3-Nitroaniline	ND		0.0100	1	07/09/2025 05:29	WG2550537
4-Nitroaniline	ND		0.0100	1	07/09/2025 05:29	WG2550537
Nitrobenzene	ND		0.0100	1	07/09/2025 05:29	WG2550537
n-Nitrosodiphenylamine	ND		0.0100	1	07/09/2025 05:29	WG2550537
n-Nitrosodi-n-propylamine	ND		0.0100	1	07/09/2025 05:29	WG2550537
Phenanthrene	ND		0.00100	1	07/09/2025 05:29	WG2550537
Benzylbutyl phthalate	ND		0.00300	1	07/09/2025 05:29	WG2550537
Bis(2-ethylhexyl)phthalate	ND		0.00300	1	07/09/2025 05:29	WG2550537
Di-n-butyl phthalate	ND		0.00300	1	07/09/2025 05:29	WG2550537
Diethyl phthalate	ND		0.00300	1	07/09/2025 05:29	WG2550537
Dimethyl phthalate	ND		0.00300	1	07/09/2025 05:29	WG2550537
Di-n-octyl phthalate	ND		0.00300	1	07/09/2025 05:29	WG2550537
Pyrene	ND		0.00100	1	07/09/2025 05:29	WG2550537
1,2,4-Trichlorobenzene	ND		0.0100	1	07/09/2025 05:29	WG2550537
4-Chloro-3-methylphenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
2-Chlorophenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
2-Methylphenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
3&4-Methyl Phenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
2,4-Dichlorophenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
2,4-Dimethylphenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
4,6-Dinitro-2-methylphenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
2,4-Dinitrophenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
2-Nitrophenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
4-Nitrophenol	ND	J3 J4	0.0100	1	07/09/2025 05:29	WG2550537
Pentachlorophenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
Phenol	ND	C3	0.0100	1	07/09/2025 05:29	WG2550537
2,4,5-Trichlorophenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
2,4,6-Trichlorophenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
Acetophenone	ND		0.0100	1	07/09/2025 05:29	WG2550537
2-Acetylaminofluorene	ND		0.0100	1	07/09/2025 05:29	WG2550537
4-Aminobiphenyl	ND	J4	0.0100	1	07/09/2025 05:29	WG2550537
Chlorobenzilate	ND		0.0500	1	07/09/2025 05:29	WG2550537
Diallate	ND		0.0100	1	07/09/2025 05:29	WG2550537
Dinoseb	ND		0.0500	1	07/09/2025 05:29	WG2550537
Ethyl methanesulfonate	ND		0.0100	1	07/09/2025 05:29	WG2550537
Famphur	ND	C6	0.0200	1	07/09/2025 05:29	WG2550537
Hexachloropropene	ND		0.0500	1	07/09/2025 05:29	WG2550537
Isodrin	ND		0.0100	1	07/09/2025 05:29	WG2550537
Isosafrole	ND		0.0100	1	07/09/2025 05:29	WG2550537
Kepone	ND	C6	0.0200	1	07/09/2025 05:29	WG2550537
Methapyrilene	ND	C3 J4	0.0500	1	07/09/2025 05:29	WG2550537
3-Methylcholanthrene	ND		0.0100	1	07/09/2025 05:29	WG2550537
Methyl methanesulfonate	ND		0.0500	1	07/09/2025 05:29	WG2550537
Methyl parathion	ND		0.0100	1	07/09/2025 05:29	WG2550537
1,4-Naphthoquinone	ND	J4	0.0500	1	07/09/2025 05:29	WG2550537
1-Naphthylamine	ND		0.0100	1	07/09/2025 05:29	WG2550537
2-Naphthylamine	ND		0.0100	1	07/09/2025 05:29	WG2550537
n-Nitrosodi-n-butylamine	ND		0.0100	1	07/09/2025 05:29	WG2550537
n-Nitrosodiethylamine	ND		0.0100	1	07/09/2025 05:29	WG2550537
n-Nitrosodimethylamine	ND		0.0100	1	07/09/2025 05:29	WG2550537
n-Nitrosomethylethylamine	ND		0.0100	1	07/09/2025 05:29	WG2550537
N-Nitrosomorpholine	ND		0.0100	1	07/09/2025 05:29	WG2550537
n-Nitrosopiperidine	ND		0.0100	1	07/09/2025 05:29	WG2550537
n-Nitrosopyrrolidine	ND		0.0100	1	07/09/2025 05:29	WG2550537
5-Nitro-o-toluidine	ND		0.0100	1	07/09/2025 05:29	WG2550537

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethyl Parathion	ND		0.0100	1	07/09/2025 05:29	WG2550537
Pentachlorobenzene	ND		0.0100	1	07/09/2025 05:29	WG2550537
Pentachloronitrobenzene	ND		0.0100	1	07/09/2025 05:29	WG2550537
Phenacetin	ND		0.0100	1	07/09/2025 05:29	WG2550537
p-Phenylenediamine	ND	C3 J4	6.90	1	07/09/2025 05:29	WG2550537
Phorate	ND	C3	0.0500	1	07/09/2025 05:29	WG2550537
Pronamide	ND		0.0100	1	07/09/2025 05:29	WG2550537
Dimethoate	ND	C3	0.0500	1	07/09/2025 05:29	WG2550537
P-(Dimethylamino) Azobenzene	ND		0.0100	1	07/09/2025 05:29	WG2550537
Dimethylbenz (A) Anthracene	ND	C3	0.0100	1	07/09/2025 05:29	WG2550537
3,3-Dimethylbenzidine	ND	J4	0.0100	1	07/09/2025 05:29	WG2550537
1,3-Dinitrobenzene	ND		0.0100	1	07/09/2025 05:29	WG2550537
Diphenylamine	ND		0.0100	1	07/09/2025 05:29	WG2550537
Disulfoton	ND	C3	0.0100	1	07/09/2025 05:29	WG2550537
Safrole	ND		0.0100	1	07/09/2025 05:29	WG2550537
Thionazin	ND		0.0100	1	07/09/2025 05:29	WG2550537
o-Toluidine	ND		0.0100	1	07/09/2025 05:29	WG2550537
O,O,O-Triethyl phosphorothioate	ND		0.0100	1	07/09/2025 05:29	WG2550537
1,3,5-Trinitrobenzene	ND		0.0100	1	07/09/2025 05:29	WG2550537
1,2,4,5-Tetrachlorobenzene	ND		0.0100	1	07/09/2025 05:29	WG2550537
2,6-Dichlorophenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
2,3,4,6-Tetrachlorophenol	ND		0.0100	1	07/09/2025 05:29	WG2550537
(S) 2-Fluorophenol	*9.18*	J2	*10.0-120*		*07/09/2025 05:29*	WG2550537
(S) Phenol-d5	*6.28*	J2	*10.0-120*		*07/09/2025 05:29*	WG2550537
(S) Nitrobenzene-d5	*38.1*		*10.0-127*		*07/09/2025 05:29*	WG2550537
(S) 2-Fluorobiphenyl	*40.0*		*10.0-130*		*07/09/2025 05:29*	WG2550537
(S) 2,4,6-Tribromophenol	*56.1*		*10.0-155*		*07/09/2025 05:29*	WG2550537
(S) p-Terphenyl-d14	*55.5*		*10.0-128*		*07/09/2025 05:29*	WG2550537

Wet Chemistry by Method 4500CN E-2016

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.00500	1	07/02/2025 09:44	WG2550844

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Sulfide	ND		0.0500	1	06/26/2025 16:26	WG2547676

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	06/30/2025 19:03	WG2547265

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	07/15/2025 22:57	WG2549645
Arsenic	ND		0.00200	1	07/15/2025 22:57	WG2549645
Barium	0.147		0.00200	1	07/15/2025 22:57	WG2549645
Beryllium	ND		0.00200	1	07/15/2025 22:57	WG2549645
Cadmium	ND		0.00100	1	07/15/2025 22:57	WG2549645
Chromium	ND		0.00200	1	07/15/2025 22:57	WG2549645
Copper	ND		0.00500	1	07/15/2025 22:57	WG2549645
Cobalt	0.0116		0.00200	1	07/15/2025 22:57	WG2549645
Lead	ND		0.00200	1	07/15/2025 22:57	WG2549645
Nickel	0.00341		0.00200	1	07/15/2025 22:57	WG2549645
Selenium	ND		0.00200	1	07/15/2025 22:57	WG2549645
Silver	ND		0.00200	1	07/15/2025 22:57	WG2549645
Thallium	ND		0.00200	1	07/15/2025 22:57	WG2549645
Tin	ND		0.00200	1	07/15/2025 22:57	WG2549645
Vanadium	ND		0.00500	1	07/15/2025 22:57	WG2549645
Zinc	0.0346		0.0250	1	07/15/2025 22:57	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/28/2025 15:56	WG2548883
Acrolein	ND	J4	0.0500	1	06/28/2025 15:56	WG2548883
Acrylonitrile	ND		0.0100	1	06/28/2025 15:56	WG2548883
Benzene	ND		0.00100	1	06/28/2025 15:56	WG2548883
Bromodichloromethane	ND		0.00100	1	06/28/2025 15:56	WG2548883
Bromochloromethane	ND		0.00100	1	06/28/2025 15:56	WG2548883
Bromoform	ND		0.00100	1	06/28/2025 15:56	WG2548883
Bromomethane	ND	C3	0.00500	1	06/28/2025 15:56	WG2548883
Carbon disulfide	ND		0.00100	1	06/28/2025 15:56	WG2548883
Carbon tetrachloride	ND		0.00100	1	06/28/2025 15:56	WG2548883
Chlorobenzene	ND		0.00100	1	06/28/2025 15:56	WG2548883
Chlorodibromomethane	ND		0.00100	1	06/28/2025 15:56	WG2548883
Chloroethane	ND		0.00500	1	06/28/2025 15:56	WG2548883
Chloroform	ND		0.00500	1	06/28/2025 15:56	WG2548883
Chloromethane	ND	C3	0.00250	1	06/28/2025 15:56	WG2548883
1,2-Dibromoethane	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	06/28/2025 15:56	WG2548883
Dibromomethane	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,2-Dichlorobenzene	ND		0.00100	1	06/28/2025 15:56	WG2548883

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,3-Dichlorobenzene	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,4-Dichlorobenzene	ND		0.00100	1	06/28/2025 15:56	WG2548883
Dichlorodifluoromethane	ND		0.00500	1	06/28/2025 15:56	WG2548883
1,1-Dichloroethane	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,2-Dichloroethane	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,1-Dichloroethene	ND		0.00100	1	06/28/2025 15:56	WG2548883
cis-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 15:56	WG2548883
trans-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,2-Dichloropropane	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,3-Dichloropropane	ND		0.00100	1	06/28/2025 15:56	WG2548883
2,2-Dichloropropane	ND		0.00100	1	06/28/2025 15:56	WG2548883
cis-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 15:56	WG2548883
trans-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,1-Dichloropropene	ND		0.00100	1	06/28/2025 15:56	WG2548883
Ethylbenzene	ND		0.00100	1	06/28/2025 15:56	WG2548883
2-Hexanone	ND		0.0100	1	06/28/2025 15:56	WG2548883
Iodomethane	ND	C3	0.0100	1	06/28/2025 15:56	WG2548883
2-Butanone (MEK)	ND		0.0100	1	06/28/2025 15:56	WG2548883
Methylene Chloride	ND		0.00500	1	06/28/2025 15:56	WG2548883
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/28/2025 15:56	WG2548883
Styrene	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 15:56	WG2548883
Tetrachloroethene	ND		0.00100	1	06/28/2025 15:56	WG2548883
Toluene	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,2,4-Trichlorobenzene	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,1,1-Trichloroethane	ND		0.00100	1	06/28/2025 15:56	WG2548883
1,1,2-Trichloroethane	ND		0.00100	1	06/28/2025 15:56	WG2548883
Trichloroethene	ND		0.00100	1	06/28/2025 15:56	WG2548883
Trichlorofluoromethane	ND		0.00500	1	06/28/2025 15:56	WG2548883
1,2,3-Trichloropropane	ND		0.00250	1	06/28/2025 15:56	WG2548883
Vinyl acetate	ND	J4	0.0100	1	06/28/2025 15:56	WG2548883
Vinyl chloride	ND		0.00100	1	06/28/2025 15:56	WG2548883
Xylenes, Total	ND		0.00300	1	06/28/2025 15:56	WG2548883
Acetonitrile	ND		0.0500	1	06/28/2025 15:56	WG2548883
Allyl chloride	ND		0.00500	1	06/28/2025 15:56	WG2548883
Chloroprene	ND		0.0500	1	06/28/2025 15:56	WG2548883
trans-1,4-Dichloro-2-butene	ND		0.00250	1	06/28/2025 15:56	WG2548883
Ethyl methacrylate	ND		0.00500	1	06/28/2025 15:56	WG2548883
Isobutanol	ND		0.100	1	06/28/2025 15:56	WG2548883
Methacrylonitrile	ND		0.0500	1	06/28/2025 15:56	WG2548883
Methyl methacrylate	ND		0.00500	1	06/28/2025 15:56	WG2548883
Propionitrile	ND		0.0500	1	06/28/2025 15:56	WG2548883
(S) Toluene-d8	*91.1*		*80.0-120*		*06/28/2025 15:56*	WG2548883
(S) 4-Bromofluorobenzene	*91.9*		*77.0-126*		*06/28/2025 15:56*	WG2548883
(S) 1,2-Dichloroethane-d4	*112*		*70.0-130*		*06/28/2025 15:56*	WG2548883

Chlorinated Acid Herbicides (GC) by Method 8151A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
2,4-D	ND	J3	0.00200	1	06/29/2025 19:32	WG2547053
2,4,5-T	ND	J3	0.00200	1	06/29/2025 19:32	WG2547053
2,4,5-TP (Silvex)	ND	J3	0.00200	1	06/29/2025 19:32	WG2547053
(S) 2,4-Dichlorophenyl Acetic Acid	*81.3*		*14.0-158*		*06/29/2025 19:32*	WG2547053

Pesticides (GC) by Method 8081B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aldrin	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Alpha BHC	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Beta BHC	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Delta BHC	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Gamma BHC	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Chlordane	ND		0.00500	1	06/30/2025 15:14	WG2549167
4,4-DDD	ND		0.0000500	1	06/30/2025 15:14	WG2549167
4,4-DDE	ND		0.0000500	1	06/30/2025 15:14	WG2549167
4,4-DDT	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Dieldrin	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Endosulfan I	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Endosulfan II	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Endosulfan sulfate	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Endrin	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Endrin aldehyde	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Endrin ketone	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Heptachlor	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Heptachlor epoxide	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Hexachlorobenzene	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Methoxychlor	ND		0.0000500	1	06/30/2025 15:14	WG2549167
Toxaphene	ND		0.000500	1	06/30/2025 15:14	WG2549167
(S) Decachlorobiphenyl	*92.7*		*10.0-128*		*06/30/2025 15:14*	WG2549167
(S) Tetrachloro-m-xylene	*59.6*		*10.0-127*		*06/30/2025 15:14*	WG2549167

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000500	1	06/27/2025 16:01	WG2547382
PCB 1221	ND		0.000500	1	06/27/2025 16:01	WG2547382
PCB 1232	ND		0.000500	1	06/27/2025 16:01	WG2547382
PCB 1242	ND		0.000500	1	06/27/2025 16:01	WG2547382
PCB 1248	ND		0.000500	1	06/27/2025 16:01	WG2547382
PCB 1254	ND		0.000500	1	06/27/2025 16:01	WG2547382
PCB 1260	ND		0.000500	1	06/27/2025 16:01	WG2547382
Total PCBs	ND		0.000500	1	06/27/2025 16:01	WG2547382
(S) Decachlorobiphenyl	*73.5*		*10.0-128*		*06/27/2025 16:01*	WG2547382
(S) Tetrachloro-m-xylene	*68.7*		*10.0-127*		*06/27/2025 16:01*	WG2547382

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Acenaphthylene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Anthracene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Benzo(a)anthracene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Benzo(b)fluoranthene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Benzo(k)fluoranthene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Benzo(g,h,i)perylene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Benzo(a)pyrene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Benzyl alcohol	ND		0.0100	1	07/09/2025 05:50	WG2550537
Bis(2-chlorethoxy)methane	ND	C3	0.0100	1	07/09/2025 05:50	WG2550537
Bis(2-chloroethyl)ether	ND	C3	0.0100	1	07/09/2025 05:50	WG2550537
2,2-Oxybis(1-Chloropropane)	ND		0.0100	1	07/09/2025 05:50	WG2550537
4-Bromophenyl-phenylether	ND		0.0100	1	07/09/2025 05:50	WG2550537
4-Chloroaniline	ND		0.0100	1	07/09/2025 05:50	WG2550537

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
2-Chloronaphthalene	ND		0.00100	1	07/09/2025 05:50	WG2550537
4-Chlorophenyl-phenylether	ND		0.0100	1	07/09/2025 05:50	WG2550537
Chrysene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Dibenz(a,h)anthracene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Dibenzofuran	ND		0.0100	1	07/09/2025 05:50	WG2550537
3,3-Dichlorobenzidine	ND		0.0100	1	07/09/2025 05:50	WG2550537
2,4-Dinitrotoluene	ND		0.0100	1	07/09/2025 05:50	WG2550537
2,6-Dinitrotoluene	ND		0.0100	1	07/09/2025 05:50	WG2550537
Fluoranthene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Fluorene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Hexachlorobenzene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Hexachloro-1,3-butadiene	ND		0.0100	1	07/09/2025 05:50	WG2550537
Hexachlorocyclopentadiene	ND		0.0100	1	07/09/2025 05:50	WG2550537
Hexachloroethane	ND		0.0100	1	07/09/2025 05:50	WG2550537
Indeno(1,2,3-cd)pyrene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Isophorone	ND		0.0100	1	07/09/2025 05:50	WG2550537
2-Methylnaphthalene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Naphthalene	ND		0.00100	1	07/09/2025 05:50	WG2550537
2-Nitroaniline	ND		0.0100	1	07/09/2025 05:50	WG2550537
3-Nitroaniline	ND		0.0100	1	07/09/2025 05:50	WG2550537
4-Nitroaniline	ND		0.0100	1	07/09/2025 05:50	WG2550537
Nitrobenzene	ND		0.0100	1	07/09/2025 05:50	WG2550537
n-Nitrosodiphenylamine	ND		0.0100	1	07/09/2025 05:50	WG2550537
n-Nitrosodi-n-propylamine	ND		0.0100	1	07/09/2025 05:50	WG2550537
Phenanthrene	ND		0.00100	1	07/09/2025 05:50	WG2550537
Benzylbutyl phthalate	ND		0.00300	1	07/09/2025 05:50	WG2550537
Bis(2-ethylhexyl)phthalate	ND		0.00300	1	07/09/2025 05:50	WG2550537
Di-n-butyl phthalate	ND		0.00300	1	07/09/2025 05:50	WG2550537
Diethyl phthalate	ND		0.00300	1	07/09/2025 05:50	WG2550537
Dimethyl phthalate	ND		0.00300	1	07/09/2025 05:50	WG2550537
Di-n-octyl phthalate	ND		0.00300	1	07/09/2025 05:50	WG2550537
Pyrene	ND		0.00100	1	07/09/2025 05:50	WG2550537
1,2,4-Trichlorobenzene	ND		0.0100	1	07/09/2025 05:50	WG2550537
4-Chloro-3-methylphenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
2-Chlorophenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
2-Methylphenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
3&4-Methyl Phenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
2,4-Dichlorophenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
2,4-Dimethylphenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
4,6-Dinitro-2-methylphenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
2,4-Dinitrophenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
2-Nitrophenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
4-Nitrophenol	ND	J3 J4	0.0100	1	07/09/2025 05:50	WG2550537
Pentachlorophenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
Phenol	ND	C3	0.0100	1	07/09/2025 05:50	WG2550537
2,4,5-Trichlorophenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
2,4,6-Trichlorophenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
Acetophenone	ND		0.0100	1	07/09/2025 05:50	WG2550537
2-Acetylaminofluorene	ND		0.0100	1	07/09/2025 05:50	WG2550537
4-Aminobiphenyl	ND	J4	0.0100	1	07/09/2025 05:50	WG2550537
Chlorobenzilate	ND		0.0500	1	07/09/2025 05:50	WG2550537
Diallate	ND		0.0100	1	07/09/2025 05:50	WG2550537
Dinoseb	ND		0.0500	1	07/09/2025 05:50	WG2550537
Ethyl methanesulfonate	ND		0.0100	1	07/09/2025 05:50	WG2550537
Famphur	ND	C6	0.0200	1	07/09/2025 05:50	WG2550537
Hexachloropropene	ND		0.0500	1	07/09/2025 05:50	WG2550537

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Isodrin	ND		0.0100	1	07/09/2025 05:50	WG2550537
Isosafrole	ND		0.0100	1	07/09/2025 05:50	WG2550537
Kepone	ND	C6	0.0200	1	07/09/2025 05:50	WG2550537
Methapyrilene	ND	C3 J4	0.0500	1	07/09/2025 05:50	WG2550537
3-Methylcholanthrene	ND		0.0100	1	07/09/2025 05:50	WG2550537
Methyl methanesulfonate	ND		0.0500	1	07/09/2025 05:50	WG2550537
Methyl parathion	ND		0.0100	1	07/09/2025 05:50	WG2550537
1,4-Naphthoquinone	ND	J4	0.0500	1	07/09/2025 05:50	WG2550537
1-Naphthylamine	ND		0.0100	1	07/09/2025 05:50	WG2550537
2-Naphthylamine	ND		0.0100	1	07/09/2025 05:50	WG2550537
n-Nitrosodi-n-butylamine	ND		0.0100	1	07/09/2025 05:50	WG2550537
n-Nitrosodiethylamine	ND		0.0100	1	07/09/2025 05:50	WG2550537
n-Nitrosodimethylamine	ND		0.0100	1	07/09/2025 05:50	WG2550537
n-Nitrosomethylethylamine	ND		0.0100	1	07/09/2025 05:50	WG2550537
N-Nitrosomorpholine	ND		0.0100	1	07/09/2025 05:50	WG2550537
n-Nitrosopiperidine	ND		0.0100	1	07/09/2025 05:50	WG2550537
n-Nitrosopyrrolidine	ND		0.0100	1	07/09/2025 05:50	WG2550537
5-Nitro-o-toluidine	ND		0.0100	1	07/09/2025 05:50	WG2550537
Ethyl Parathion	ND		0.0100	1	07/09/2025 05:50	WG2550537
Pentachlorobenzene	ND		0.0100	1	07/09/2025 05:50	WG2550537
Pentachloronitrobenzene	ND		0.0100	1	07/09/2025 05:50	WG2550537
Phenacetin	ND		0.0100	1	07/09/2025 05:50	WG2550537
p-Phenylenediamine	ND	C3 J4	6.90	1	07/09/2025 05:50	WG2550537
Phorate	ND	C3	0.0500	1	07/09/2025 05:50	WG2550537
Pronamide	ND		0.0100	1	07/09/2025 05:50	WG2550537
Dimethoate	ND	C3	0.0500	1	07/09/2025 05:50	WG2550537
P-(Dimethylamino) Azobenzene	ND		0.0100	1	07/09/2025 05:50	WG2550537
Dimethylbenz (A) Anthracene	ND	C3	0.0100	1	07/09/2025 05:50	WG2550537
3,3-Dimethylbenzidine	ND	J4	0.0100	1	07/09/2025 05:50	WG2550537
1,3-Dinitrobenzene	ND		0.0100	1	07/09/2025 05:50	WG2550537
Diphenylamine	ND		0.0100	1	07/09/2025 05:50	WG2550537
Disulfoton	ND	C3	0.0100	1	07/09/2025 05:50	WG2550537
Safrole	ND		0.0100	1	07/09/2025 05:50	WG2550537
Thionazin	ND		0.0100	1	07/09/2025 05:50	WG2550537
o-Toluidine	ND		0.0100	1	07/09/2025 05:50	WG2550537
O,O,O-Triethyl phosphorothioate	ND		0.0100	1	07/09/2025 05:50	WG2550537
1,3,5-Trinitrobenzene	ND		0.0100	1	07/09/2025 05:50	WG2550537
1,2,4,5-Tetrachlorobenzene	ND		0.0100	1	07/09/2025 05:50	WG2550537
2,6-Dichlorophenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
2,3,4,6-Tetrachlorophenol	ND		0.0100	1	07/09/2025 05:50	WG2550537
(S) 2-Fluorophenol	*16.5*		*10.0-120*		*07/09/2025 05:50*	WG2550537
(S) Phenol-d5	*12.7*		*10.0-120*		*07/09/2025 05:50*	WG2550537
(S) Nitrobenzene-d5	*52.8*		*10.0-127*		*07/09/2025 05:50*	WG2550537
(S) 2-Fluorobiphenyl	*52.6*		*10.0-130*		*07/09/2025 05:50*	WG2550537
(S) 2,4,6-Tribromophenol	*82.0*		*10.0-155*		*07/09/2025 05:50*	WG2550537
(S) p-Terphenyl-d14	*59.3*		*10.0-128*		*07/09/2025 05:50*	WG2550537

Method Blank (MB)

(MB) R4239479-1 06/30/25 08:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1872796-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1872796-01 06/30/25 08:33 • (DUP) R4239479-3 06/30/25 08:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	162	163	1	0.615		10

L1873080-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1873080-01 06/30/25 08:33 • (DUP) R4239479-4 06/30/25 08:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1440	1440	1	0.416		10

Laboratory Control Sample (LCS)

(LCS) R4239479-2 06/30/25 08:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8840	100	90.0-110	

Method Blank (MB)

(MB) R4239134-1 07/01/25 22:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	U		0.0539	0.100

L1872931-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1872931-02 07/01/25 22:58 • (DUP) R4239134-3 07/01/25 22:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1872931-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1872931-03 07/01/25 23:08 • (DUP) R4239134-6 07/01/25 23:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4239134-2 07/01/25 22:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.24	96.6	90.0-110	

L1872931-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872931-02 07/01/25 22:58 • (MS) R4239134-4 07/01/25 23:01 • (MSD) R4239134-5 07/01/25 23:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	ND	4.65	4.70	92.9	94.1	1	90.0-110			1.20	10

L1872931-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1872931-03 07/01/25 23:08 • (MS) R4239134-7 07/01/25 23:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	4.91	98.1	1	90.0-110	

Method Blank (MB)

(MB) R4237505-1 06/27/25 20:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
COD	U		14.1	20.0

Laboratory Control Sample (LCS)

(LCS) R4237505-2 06/27/25 20:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500	467	93.5	90.0-110	

L1872849-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872849-03 06/27/25 20:24 • (MS) R4237505-3 06/27/25 20:24 • (MSD) R4237505-4 06/27/25 20:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	ND	459	457	91.8	91.4	1	90.0-110			0.437	20

L1872853-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872853-01 06/27/25 20:24 • (MS) R4237505-5 06/27/25 20:25 • (MSD) R4237505-6 06/27/25 20:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	ND	484	471	93.9	91.3	1	90.0-110			2.79	20

Method Blank (MB)

(MB) R4239306-1 07/02/25 09:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00210	0.00500

L1873318-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1873318-05 07/02/25 09:57 • (DUP) R4239306-5 07/02/25 10:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

L1873318-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1873318-06 07/02/25 10:03 • (DUP) R4239306-6 07/02/25 10:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4239306-2 07/02/25 09:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.102	102	87.1-120	

L1872931-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872931-03 07/02/25 09:35 • (MS) R4239306-3 07/02/25 09:37 • (MSD) R4239306-4 07/02/25 09:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0936	0.0905	93.6	90.5	1	90.0-110			3.37	20

QUALITY CONTROL SUMMARY

L1872931-01

Method Blank (MB)

(MB) R4243479-1 07/10/25 23:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	0.00415	J	0.00210	0.00500

L1872765-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1872765-01 07/11/25 00:04 • (DUP) R4243479-3 07/11/25 00:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	4.90		20

L1873028-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1873028-03 07/11/25 00:15 • (DUP) R4243479-4 07/11/25 00:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4243479-2 07/10/25 23:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.100	100	87.1-120	

L1873028-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1873028-07 07/11/25 00:25 • (MS) R4243479-5 07/11/25 00:27 • (MSD) R4243479-6 07/11/25 00:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0789	0.0890	78.9	89.0	1	90.0-110	J6	J6	12.0	20

Method Blank (MB)

(MB) R4236792-1 06/26/25 16:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Sulfide	U		0.0255	0.0500

L1872931-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1872931-01 06/26/25 16:25 • (DUP) R4236792-3 06/26/25 16:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4236792-2 06/26/25 16:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Sulfide	0.500	0.542	108	85.0-115	

L1872931-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872931-02 06/26/25 16:25 • (MS) R4236792-4 06/26/25 16:25 • (MSD) R4236792-5 06/26/25 16:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Sulfide	0.500	ND	0.498	0.501	99.6	100	1	80.0-120			0.601	20

Method Blank (MB)

(MB) R4236504-1 06/25/25 23:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.547	1.00
Nitrate as (N)	U		0.0884	0.100
Sulfate	U		0.637	5.00

L1870568-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1870568-01 06/25/25 23:38 • (DUP) R4236504-3 06/25/25 23:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate as (N)	3.20	3.27	1	2.14		15

L1872406-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1872406-02 06/26/25 00:41 • (DUP) R4236504-6 06/26/25 00:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	47.7	45.4	1	4.99		15
Nitrate as (N)	0.989	0.902	1	9.20		15
Sulfate	20.6	19.8	1	4.24		15

Laboratory Control Sample (LCS)

(LCS) R4236504-2 06/25/25 23:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	41.3	103	80.0-120	
Nitrate as (N)	8.00	8.42	105	80.0-120	
Sulfate	40.0	40.3	101	80.0-120	

L1870568-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1870568-01 06/25/25 23:38 • (MS) R4236504-4 06/26/25 00:03 • (MSD) R4236504-5 06/26/25 00:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	125	144	140	48.3	39.7	1	80.0-120	E J6	E J6	2.42	15
Nitrate as (N)	8.00	3.20	11.2	10.9	99.7	96.3	1	80.0-120	E	E	2.46	15
Sulfate	40.0	839	753	730	0.000	0.000	1	80.0-120	E V	E V	3.09	15

L1872406-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1872406-02 06/26/25 00:41 • (MS) R4236504-7 06/26/25 01:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	47.7	79.8	80.3	1	80.0-120	
Nitrate as (N)	8.00	0.989	9.63	108	1	80.0-120	
Sulfate	40.0	20.6	57.0	90.8	1	80.0-120	

Method Blank (MB)

(MB) R4240692-2 07/04/25 11:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TOC (Total Organic Carbon)	U		0.495	1.00

L1872352-69 Original Sample (OS) • Duplicate (DUP)

(OS) L1872352-69 07/04/25 14:10 • (DUP) R4240692-5 07/04/25 14:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	23.1	23.4	1	0.989		20

L1872967-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1872967-05 07/04/25 18:29 • (DUP) R4240692-8 07/04/25 18:48

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	ND	ND	1	1.80		20

Laboratory Control Sample (LCS)

(LCS) R4240692-1 07/04/25 10:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25.0	25.3	101	80.0-120	

L1872352-66 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872352-66 07/04/25 12:57 • (MS) R4240692-3 07/04/25 13:20 • (MSD) R4240692-4 07/04/25 13:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25.0	4.09	29.9	30.0	103	103	1	75.0-125			0.234	20

L1872967-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872967-01 07/04/25 17:23 • (MS) R4240692-6 07/04/25 17:46 • (MSD) R4240692-7 07/04/25 18:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25.0	3.99	29.8	29.7	103	103	1	75.0-125			0.134	20

Method Blank (MB)

(MB) R4238504-1 06/30/25 18:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.0000700	0.000200

Laboratory Control Sample (LCS)

(LCS) R4238504-2 06/30/25 18:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00296	98.8	80.0-120	

L1872931-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872931-02 06/30/25 18:36 • (MS) R4238504-4 06/30/25 18:49 • (MSD) R4238504-5 06/30/25 18:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00325	0.00327	108	109	1	75.0-125			0.554	20

Method Blank (MB)

(MB) R4240984-1 07/05/25 16:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Manganese,Dissolved	0.00123	J	0.000700	0.00500

Laboratory Control Sample (LCS)

(LCS) R4240984-2 07/05/25 16:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Manganese,Dissolved	0.0500	0.0516	103	80.0-120	

L1868517-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1868517-06 07/05/25 17:01 • (MS) R4240984-4 07/05/25 17:07 • (MSD) R4240984-5 07/05/25 17:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese,Dissolved	0.0500	0.759	0.794	0.800	68.4	80.7	5	75.0-125	V		0.768	20

Method Blank (MB)

(MB) R4245579-1 07/15/25 22:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.000310	0.00400
Arsenic	U		0.000120	0.00200
Barium	U		0.000500	0.00200
Beryllium	U		0.000200	0.00200
Cadmium	U		0.000120	0.00100
Calcium	U		0.0925	1.00
Chromium	U		0.000900	0.00200
Copper	U		0.000700	0.00500
Cobalt	U		0.000100	0.00200
Iron	U		0.0226	0.100
Lead	U		0.000500	0.00200
Magnesium	U		0.0827	1.00
Nickel	U		0.000500	0.00200
Potassium	U		0.0965	2.00
Selenium	U		0.000250	0.00200
Silver	U		0.000110	0.00200
Sodium	U		0.142	2.00
Thallium	U		0.000130	0.00200
Tin	U		0.000600	0.00200
Vanadium	U		0.000520	0.00500
Zinc	U		0.00400	0.0250

Laboratory Control Sample (LCS)

(LCS) R4245579-2 07/15/25 22:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0522	104	80.0-120	
Arsenic	0.0500	0.0489	97.8	80.0-120	
Barium	0.0500	0.0478	95.6	80.0-120	
Beryllium	0.0500	0.0452	90.4	80.0-120	
Cadmium	0.0500	0.0504	101	80.0-120	
Calcium	5.00	4.97	99.5	80.0-120	
Chromium	0.0500	0.0490	98.1	80.0-120	
Copper	0.0500	0.0498	99.6	80.0-120	
Cobalt	0.0500	0.0500	99.9	80.0-120	
Iron	1.00	0.958	95.8	80.0-120	
Lead	0.0500	0.0479	95.7	80.0-120	
Magnesium	5.00	4.88	97.6	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4245579-2 07/15/25 22:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nickel	0.0500	0.0504	101	80.0-120	
Potassium	5.00	4.96	99.1	80.0-120	
Selenium	0.0500	0.0486	97.3	80.0-120	
Silver	0.0500	0.0519	104	80.0-120	
Sodium	5.00	4.75	95.0	80.0-120	
Thallium	0.0500	0.0461	92.1	80.0-120	
Tin	0.0500	0.0485	97.1	80.0-120	
Vanadium	0.0500	0.0490	98.1	80.0-120	
Zinc	0.0500	0.0469	93.7	80.0-120	

L1872931-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872931-05 07/15/25 22:57 • (MS) R4245579-4 07/15/25 23:03 • (MSD) R4245579-5 07/15/25 23:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	ND	0.0547	0.0534	109	107	1	75.0-125			2.35	20
Arsenic	0.0500	ND	0.0501	0.0500	99.6	99.3	1	75.0-125			0.302	20
Barium	0.0500	0.147	0.196	0.196	97.0	97.6	1	75.0-125			0.168	20
Beryllium	0.0500	ND	0.0451	0.0457	90.2	91.4	1	75.0-125			1.28	20
Cadmium	0.0500	ND	0.0516	0.0523	102	104	1	75.0-125			1.35	20
Calcium	5.00	70.4	75.2	74.3	96.0	77.9	1	75.0-125			1.21	20
Chromium	0.0500	ND	0.0506	0.0510	101	102	1	75.0-125			0.773	20
Copper	0.0500	ND	0.0509	0.0512	96.4	97.0	1	75.0-125			0.576	20
Cobalt	0.0500	0.0116	0.0624	0.0629	102	103	1	75.0-125			0.817	20
Iron	1.00	0.223	1.18	1.18	95.9	96.1	1	75.0-125			0.167	20
Lead	0.0500	ND	0.0487	0.0497	97.4	99.3	1	75.0-125			1.94	20
Magnesium	5.00	29.7	34.1	33.9	88.6	84.4	1	75.0-125			0.611	20
Nickel	0.0500	0.00341	0.0525	0.0530	98.2	99.2	1	75.0-125			0.967	20
Potassium	5.00	59.8	64.0	63.4	83.5	72.1	1	75.0-125		V	0.892	20
Selenium	0.0500	ND	0.0491	0.0485	98.1	96.9	1	75.0-125			1.24	20
Silver	0.0500	ND	0.0521	0.0533	104	107	1	75.0-125			2.37	20
Sodium	5.00	115	118	117	70.4	49.9	1	75.0-125	V	V	0.873	20
Thallium	0.0500	ND	0.0468	0.0477	93.1	94.9	1	75.0-125			1.90	20
Tin	0.0500	ND	0.0504	0.0505	101	101	1	75.0-125			0.212	20
Vanadium	0.0500	ND	0.0509	0.0510	102	102	1	75.0-125			0.333	20
Zinc	0.0500	0.0346	0.0839	0.0858	98.7	102	1	75.0-125			2.19	20

Method Blank (MB)

(MB) R4238117-3 06/27/25 07:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromochloromethane	U		0.000128	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Iodomethane	U		0.00600	0.0100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Styrene	U		0.000118	0.00100

Method Blank (MB)

(MB) R4238117-3 06/27/25 07:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
Vinyl acetate	U		0.000692	0.0100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
Acetonitrile	U		0.0240	0.0500
Allyl chloride	U		0.000500	0.00500
Chloroprene	U		0.00145	0.0500
trans-1,4-Dichloro-2-butene	U		0.000467	0.00250
Ethyl methacrylate	U		0.00148	0.00500
Isobutanol	U		0.0421	0.100
Methacrylonitrile	U		0.0142	0.0500
Methyl methacrylate	U		0.00152	0.00500
Propionitrile	U		0.0162	0.0500
(S) Toluene-d8	*97.0*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4238117-1 06/27/25 06:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0327	131	19.0-160	
Acrolein	0.0250	0.0143	57.2	10.0-160	
Acrylonitrile	0.0250	0.0293	117	55.0-149	
Benzene	0.00500	0.00516	103	70.0-123	
Bromodichloromethane	0.00500	0.00575	115	75.0-120	
Bromochloromethane	0.00500	0.00599	120	76.0-122	
Bromoform	0.00500	0.00591	118	68.0-132	
Bromomethane	0.00500	0.00589	118	10.0-160	

Laboratory Control Sample (LCS)

(LCS) R4238117-1 06/27/25 06:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Carbon disulfide	0.00500	0.00563	113	61.0-128	
Carbon tetrachloride	0.00500	0.00672	134	68.0-126	J4
Chlorobenzene	0.00500	0.00541	108	80.0-121	
Chlorodibromomethane	0.00500	0.00592	118	77.0-125	
Chloroethane	0.00500	0.00491	98.2	47.0-150	
Chloroform	0.00500	0.00576	115	73.0-120	
Chloromethane	0.00500	0.00537	107	41.0-142	
1,2-Dibromoethane	0.00500	0.00538	108	80.0-122	
1,2-Dibromo-3-Chloropropane	0.00500	0.00463	92.6	58.0-134	
Dibromomethane	0.00500	0.00560	112	80.0-120	
1,2-Dichlorobenzene	0.00500	0.00493	98.6	79.0-121	
1,3-Dichlorobenzene	0.00500	0.00500	100	79.0-120	
1,4-Dichlorobenzene	0.00500	0.00490	98.0	79.0-120	
Dichlorodifluoromethane	0.00500	0.00747	149	51.0-149	
1,1-Dichloroethane	0.00500	0.00571	114	70.0-126	
1,2-Dichloroethane	0.00500	0.00554	111	70.0-128	
1,1-Dichloroethene	0.00500	0.00562	112	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00564	113	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00599	120	73.0-120	
1,2-Dichloropropane	0.00500	0.00505	101	77.0-125	
1,3-Dichloropropane	0.00500	0.00513	103	80.0-120	
2,2-Dichloropropane	0.00500	0.00645	129	58.0-130	
cis-1,3-Dichloropropene	0.00500	0.00520	104	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00527	105	78.0-124	
1,1-Dichloropropene	0.00500	0.00562	112	74.0-126	
Ethylbenzene	0.00500	0.00528	106	79.0-123	
2-Hexanone	0.0250	0.0285	114	67.0-149	
Iodomethane	0.0250	0.0298	119	33.0-147	
2-Butanone (MEK)	0.0250	0.0301	120	44.0-160	
Methylene Chloride	0.00500	0.00582	116	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0272	109	68.0-142	
Styrene	0.00500	0.00527	105	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00570	114	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00434	86.8	65.0-130	
Tetrachloroethene	0.00500	0.00594	119	72.0-132	
Toluene	0.00500	0.00507	101	79.0-120	
1,2,4-Trichlorobenzene	0.00500	0.00380	76.0	57.0-137	
1,1,1-Trichloroethane	0.00500	0.00633	127	73.0-124	J4
1,1,2-Trichloroethane	0.00500	0.00532	106	80.0-120	
Trichloroethene	0.00500	0.00638	128	78.0-124	J4

Laboratory Control Sample (LCS)

(LCS) R4238117-1 06/27/25 06:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Trichlorofluoromethane	0.00500	0.00686	137	59.0-147	
1,2,3-Trichloropropane	0.00500	0.00571	114	73.0-130	
Vinyl acetate	0.0250	0.0147	58.8	11.0-160	
Vinyl chloride	0.00500	0.00503	101	67.0-131	
Xylenes, Total	0.0150	0.0160	107	79.0-123	
Allyl chloride	0.0250	0.0273	109	72.0-128	
trans-1,4-Dichloro-2-butene	0.00500	0.00493	98.6	33.0-144	
(S) Toluene-d8			*99.2*	*80.0-120*	
(S) 4-Bromofluorobenzene			*99.4*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*113*	*70.0-130*	

Laboratory Control Sample (LCS)

(LCS) R4238117-2 06/27/25 06:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetonitrile	0.500	0.555	111	40.0-160	
Chloroprene	0.0500	0.0549	110	60.0-143	
Ethyl methacrylate	0.0500	0.0528	106	72.0-129	
Isobutanol	1.00	1.13	113	40.0-160	
Methacrylonitrile	0.500	0.515	103	61.0-145	
Methyl methacrylate	0.0500	0.0546	109	63.0-149	
Propionitrile	0.500	0.570	114	49.0-160	
(S) Toluene-d8			*101*	*80.0-120*	
(S) 4-Bromofluorobenzene			*96.0*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*109*	*70.0-130*	

Method Blank (MB)

(MB) R4238004-4 06/28/25 12:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromochloromethane	U		0.000128	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
1,2-Dibromoethane	U		0.000126	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Iodomethane	U		0.00600	0.0100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Styrene	U		0.000118	0.00100

Method Blank (MB)

(MB) R4238004-4 06/28/25 12:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
Vinyl acetate	U		0.000692	0.0100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
Acetonitrile	U		0.0240	0.0500
Allyl chloride	U		0.000500	0.00500
Chloroprene	U		0.00145	0.0500
trans-1,4-Dichloro-2-butene	U		0.000467	0.00250
Ethyl methacrylate	U		0.00148	0.00500
Isobutanol	U		0.0421	0.100
Methacrylonitrile	U		0.0142	0.0500
Methyl methacrylate	U		0.00152	0.00500
Propionitrile	U		0.0162	0.0500
(S) Toluene-d8	*92.8*			*80.0-120*
(S) 4-Bromofluorobenzene	*95.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4238004-1 06/28/25 10:18 • (LCSD) R4238004-2 06/28/25 10:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0313	0.0303	125	121	19.0-160			3.25	27
Acrolein	0.0250	0.0471	0.0455	188	182	10.0-160	J4	J4	3.46	26
Acrylonitrile	0.0250	0.0301	0.0289	120	116	55.0-149			4.07	20
Benzene	0.00500	0.00509	0.00499	102	99.8	70.0-123			1.98	20
Bromodichloromethane	0.00500	0.00559	0.00543	112	109	75.0-120			2.90	20
Bromochloromethane	0.00500	0.00559	0.00532	112	106	76.0-122			4.95	20
Bromoform	0.00500	0.00498	0.00506	99.6	101	68.0-132			1.59	20
Bromomethane	0.00500	0.00186	0.00173	37.2	34.6	10.0-160			7.24	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4238004-1 06/28/25 10:18 • (LCSD) R4238004-2 06/28/25 10:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon disulfide	0.00500	0.00503	0.00506	101	101	61.0-128			0.595	20
Carbon tetrachloride	0.00500	0.00540	0.00532	108	106	68.0-126			1.49	20
Chlorobenzene	0.00500	0.00481	0.00479	96.2	95.8	80.0-121			0.417	20
Chlorodibromomethane	0.00500	0.00464	0.00491	92.8	98.2	77.0-125			5.65	20
Chloroethane	0.00500	0.00517	0.00537	103	107	47.0-150			3.80	20
Chloroform	0.00500	0.00524	0.00526	105	105	73.0-120			0.381	20
Chloromethane	0.00500	0.00368	0.00366	73.6	73.2	41.0-142			0.545	20
1,2-Dibromoethane	0.00500	0.00494	0.00510	98.8	102	80.0-122			3.19	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00506	0.00476	101	95.2	58.0-134			6.11	20
Dibromomethane	0.00500	0.00513	0.00510	103	102	80.0-120			0.587	20
1,2-Dichlorobenzene	0.00500	0.00501	0.00504	100	101	79.0-121			0.597	20
1,3-Dichlorobenzene	0.00500	0.00479	0.00500	95.8	100	79.0-120			4.29	20
1,4-Dichlorobenzene	0.00500	0.00511	0.00513	102	103	79.0-120			0.391	20
Dichlorodifluoromethane	0.00500	0.00488	0.00477	97.6	95.4	51.0-149			2.28	20
1,1-Dichloroethane	0.00500	0.00535	0.00511	107	102	70.0-126			4.59	20
1,2-Dichloroethane	0.00500	0.00504	0.00526	101	105	70.0-128			4.27	20
1,1-Dichloroethene	0.00500	0.00487	0.00487	97.4	97.4	71.0-124			0.000	20
cis-1,2-Dichloroethene	0.00500	0.00552	0.00535	110	107	73.0-120			3.13	20
trans-1,2-Dichloroethene	0.00500	0.00487	0.00455	97.4	91.0	73.0-120			6.79	20
1,2-Dichloropropane	0.00500	0.00518	0.00528	104	106	77.0-125			1.91	20
1,3-Dichloropropane	0.00500	0.00507	0.00508	101	102	80.0-120			0.197	20
2,2-Dichloropropane	0.00500	0.00614	0.00601	123	120	58.0-130			2.14	20
cis-1,3-Dichloropropene	0.00500	0.00555	0.00546	111	109	80.0-123			1.63	20
trans-1,3-Dichloropropene	0.00500	0.00519	0.00538	104	108	78.0-124			3.60	20
1,1-Dichloropropene	0.00500	0.00544	0.00530	109	106	74.0-126			2.61	20
Ethylbenzene	0.00500	0.00454	0.00475	90.8	95.0	79.0-123			4.52	20
2-Hexanone	0.0250	0.0289	0.0295	116	118	67.0-149			2.05	20
Iodomethane	0.0250	0.00843	0.0104	33.7	41.6	33.0-147			20.9	26
2-Butanone (MEK)	0.0250	0.0314	0.0302	126	121	44.0-160			3.90	20
Methylene Chloride	0.00500	0.00516	0.00494	103	98.8	67.0-120			4.36	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0265	0.0270	106	108	68.0-142			1.87	20
Styrene	0.00500	0.00509	0.00499	102	99.8	73.0-130			1.98	20
1,1,1,2-Tetrachloroethane	0.00500	0.00481	0.00478	96.2	95.6	75.0-125			0.626	20
1,1,2,2-Tetrachloroethane	0.00500	0.00505	0.00514	101	103	65.0-130			1.77	20
Tetrachloroethene	0.00500	0.00536	0.00539	107	108	72.0-132			0.558	20
Toluene	0.00500	0.00473	0.00483	94.6	96.6	79.0-120			2.09	20
1,2,4-Trichlorobenzene	0.00500	0.00462	0.00464	92.4	92.8	57.0-137			0.432	20
1,1,1-Trichloroethane	0.00500	0.00558	0.00561	112	112	73.0-124			0.536	20
1,1,2-Trichloroethane	0.00500	0.00459	0.00482	91.8	96.4	80.0-120			4.89	20
Trichloroethene	0.00500	0.00477	0.00490	95.4	98.0	78.0-124			2.69	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4238004-1 06/28/25 10:18 • (LCSD) R4238004-2 06/28/25 10:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Trichlorofluoromethane	0.00500	0.00529	0.00522	106	104	59.0-147			1.33	20
1,2,3-Trichloropropane	0.00500	0.00513	0.00515	103	103	73.0-130			0.389	20
Vinyl acetate	0.0250	0.0647	0.0631	259	252	11.0-160	J4	J4	2.50	20
Vinyl chloride	0.00500	0.00471	0.00515	94.2	103	67.0-131			8.92	20
Xylenes, Total	0.0150	0.0144	0.0146	96.0	97.3	79.0-123			1.38	20
Allyl chloride	0.0250	0.0275	0.0279	110	112	72.0-128			1.44	20
trans-1,4-Dichloro-2-butene	0.00500	0.00436	0.00471	87.2	94.2	33.0-144			7.72	20
(S) Toluene-d8				*92.8*	*92.7*	*80.0-120*				
(S) 4-Bromofluorobenzene				*95.2*	*96.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*107*	*105*	*70.0-130*				

Laboratory Control Sample (LCS)

(LCS) R4238004-3 06/28/25 11:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetonitrile	0.500	0.561	112	40.0-160	
Chloroprene	0.0500	0.0475	95.0	60.0-143	
Ethyl methacrylate	0.0500	0.0523	105	72.0-129	
Isobutanol	1.00	1.16	116	40.0-160	
Methacrylonitrile	0.500	0.546	109	61.0-145	
Methyl methacrylate	0.0500	0.0522	104	63.0-149	
Propionitrile	0.500	0.584	117	49.0-160	
(S) Toluene-d8			*91.0*	*80.0-120*	
(S) 4-Bromofluorobenzene			*96.6*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*105*	*70.0-130*	

Method Blank (MB)

(MB) R4238868-1 07/01/25 12:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
2,4-D	U		0.000671	0.00200
2,4,5-T	U		0.000858	0.00200
2,4,5-TP (Silvex)	U		0.000505	0.00200
(S) 2,4-Dichlorophenyl Acetic Acid	*84.2*			*14.0-158*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4238868-2 07/01/25 12:16 • (LCSD) R4238868-3 07/01/25 12:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,4-D	0.00250	0.00217	0.00286	86.8	114	50.0-120		J3	27.4	20
2,4,5-T	0.00250	0.00209	0.00292	83.6	117	54.0-120		J3	33.1	20
2,4,5-TP (Silvex)	0.00250	0.00186	0.00286	74.4	114	50.0-125		J3	42.4	20
(S) 2,4-Dichlorophenyl Acetic Acid				*74.8*	*102*	*14.0-158*				

Method Blank (MB)

(MB) R4238779-1 06/30/25 13:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aldrin	U		0.0000249	0.0000500
Alpha BHC	U		0.0000277	0.0000500
Beta BHC	U		0.0000326	0.0000500
Delta BHC	U		0.0000403	0.0000500
Gamma BHC	U		0.0000267	0.0000500
Chlordane	U		0.000700	0.00500
4,4-DDD	U		0.0000297	0.0000500
4,4-DDE	U		0.0000276	0.0000500
4,4-DDT	U		0.0000211	0.0000500
Dieldrin	U		0.0000298	0.0000500
Endosulfan I	U		0.0000306	0.0000500
Endosulfan II	U		0.0000311	0.0000500
Endosulfan sulfate	U		0.0000306	0.0000500
Endrin	U		0.0000329	0.0000500
Endrin aldehyde	U		0.0000358	0.0000500
Endrin ketone	U		0.0000322	0.0000500
Heptachlor	U		0.0000290	0.0000500
Heptachlor epoxide	U		0.0000307	0.0000500
Hexachlorobenzene	U		0.0000425	0.0000500
Methoxychlor	U		0.0000400	0.0000500
Toxaphene	U		0.000400	0.000500
(S) Decachlorobiphenyl	*23.9*			*10.0-128*
(S) Tetrachloro-m-xylene	*20.6*			*10.0-127*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4238779-2 06/30/25 13:46 • (LCSD) R4238779-3 06/30/25 13:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.00100	0.00100	0.000881	100	88.1	22.0-124			12.7	34
Alpha BHC	0.00100	0.00107	0.000962	107	96.2	54.0-130			10.6	23
Beta BHC	0.00100	0.00111	0.000987	111	98.7	53.0-136			11.7	20
Delta BHC	0.00100	0.00108	0.000967	108	96.7	54.0-133			11.0	20
Gamma BHC	0.00100	0.00107	0.000974	107	97.4	55.0-129			9.39	20
4,4-DDD	0.00100	0.00111	0.000976	111	97.6	56.0-140			12.8	22
4,4-DDE	0.00100	0.00107	0.000902	107	90.2	52.0-128			17.0	22
4,4-DDT	0.00100	0.000958	0.000802	95.8	80.2	50.0-141			17.7	23
Dieldrin	0.00100	0.00109	0.000983	109	98.3	59.0-133			10.3	20
Endosulfan I	0.00100	0.00110	0.000991	110	99.1	57.0-131			10.4	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4238779-2 06/30/25 13:46 • (LCSD) R4238779-3 06/30/25 13:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.00100	0.00108	0.000966	108	96.6	58.0-133			11.1	20
Endosulfan sulfate	0.00100	0.00103	0.000912	103	91.2	58.0-133			12.2	21
Endrin	0.00100	0.00111	0.000987	111	98.7	57.0-134			11.7	21
Endrin aldehyde	0.00100	0.000965	0.000863	96.5	86.3	53.0-129			11.2	20
Endrin ketone	0.00100	0.00103	0.000909	103	90.9	60.0-145			12.5	20
Heptachlor	0.00100	0.000998	0.000892	99.8	89.2	27.0-132			11.2	31
Heptachlor epoxide	0.00100	0.00109	0.000996	109	99.6	57.0-130			9.01	20
Hexachlorobenzene	0.00100	0.000926	0.000822	92.6	82.2	30.0-114			11.9	30
Methoxychlor	0.00100	0.000998	0.000831	99.8	83.1	54.0-155			18.3	24
(S) Decachlorobiphenyl				*87.5*	*56.2*	*10.0-128*				
(S) Tetrachloro-m-xylene				*92.3*	*79.6*	*10.0-127*				

Method Blank (MB)

(MB) R4237516-1 06/27/25 14:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
PCB 1016	U		0.000269	0.000500
PCB 1221	U		0.000469	0.000500
PCB 1232	U		0.000300	0.000500
PCB 1242	U		0.000300	0.000500
PCB 1248	U		0.000192	0.000500
PCB 1254	U		0.000251	0.000500
PCB 1260	U		0.000228	0.000500
Total PCBs	U		0.000192	0.000500
(S) Decachlorobiphenyl	*55.8*			*10.0-128*
(S) Tetrachloro-m-xylene	*44.6*			*10.0-127*

Method Blank (MB)

(MB) R4238435-1 06/27/25 19:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
PCB 1016	U		0.000269	0.000500
PCB 1221	U		0.000469	0.000500
PCB 1232	U		0.000300	0.000500
PCB 1242	U		0.000300	0.000500
PCB 1248	U		0.000192	0.000500
PCB 1254	U		0.000251	0.000500
PCB 1260	U		0.000228	0.000500
Total PCBs	U		0.000192	0.000500
(S) Decachlorobiphenyl	*60.5*			*10.0-128*
(S) Tetrachloro-m-xylene	*40.2*			*10.0-127*

Laboratory Control Sample (LCS)

(LCS) R4237516-2 06/27/25 14:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.00250	0.00223	89.2	36.0-135	
PCB 1260	0.00250	0.00191	76.4	42.0-131	
(S) Decachlorobiphenyl			*45.4*	*10.0-128*	
(S) Tetrachloro-m-xylene			*66.6*	*10.0-127*	

L1871335-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1871335-01 06/27/25 18:13 • (MS) R4237516-3 06/27/25 18:24 • (MSD) R4237516-4 06/27/25 18:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1016	0.00250	ND	0.00380	0.00275	152	110	1	11.0-160			32.1	38
PCB 1260	0.00250	ND	0.00269	0.00229	108	91.6	1	20.0-142			16.1	27
(S) Decachlorobiphenyl					*25.7*	*28.4*		*10.0-128*				
(S) Tetrachloro-m-xylene					*44.1*	*48.4*		*10.0-127*				

Method Blank (MB)

(MB) R4244829-3 07/07/25 14:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.000246	0.00100
Acenaphthylene	U		0.000265	0.00100
Anthracene	U		0.000196	0.00100
Benzo(a)anthracene	U		0.000208	0.00100
Benzo(b)fluoranthene	U		0.000280	0.00100
Benzo(k)fluoranthene	U		0.000247	0.00100
Benzo(g,h,i)perylene	U		0.000254	0.00100
Benzo(a)pyrene	U		0.000128	0.00100
Benzyl alcohol	U		0.00205	0.0100
Bis(2-chlorethoxy)methane	U		0.00188	0.0100
Bis(2-chloroethyl)ether	U		0.00205	0.0100
2,2-Oxybis(1-Chloropropane)	U		0.00191	0.0100
4-Bromophenyl-phenylether	U		0.00267	0.0100
4-Chloroaniline	U		0.00506	0.0100
2-Chloronaphthalene	U		0.000259	0.00100
4-Chlorophenyl-phenylether	U		0.00222	0.0100
Chrysene	U		0.000279	0.00100
Dibenz(a,h)anthracene	U		0.000148	0.00100
Dibenzofuran	U		0.00251	0.0100
3,3-Dichlorobenzidine	U		0.00758	0.0100
2,4-Dinitrotoluene	U		0.00187	0.0100
2,6-Dinitrotoluene	U		0.00186	0.0100
Fluoranthene	U		0.000229	0.00100
Fluorene	U		0.000277	0.00100
Hexachlorobenzene	U		0.000259	0.00100
Hexachloro-1,3-butadiene	U		0.00227	0.0100
Hexachlorocyclopentadiene	U		0.00281	0.0100
Hexachloroethane	U		0.00215	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000285	0.00100
Isophorone	U		0.00172	0.0100
2-Methylnaphthalene	0.000398	J	0.000276	0.00100
Naphthalene	U		0.000678	0.00100
2-Nitroaniline	U		0.00236	0.0100
3-Nitroaniline	U		0.00120	0.0100
4-Nitroaniline	U		0.00211	0.0100
Nitrobenzene	U		0.00197	0.0100
n-Nitrosodiphenylamine	U		0.00202	0.0100
n-Nitrosodi-n-propylamine	U		0.00202	0.0100
Phenanthrene	U		0.000219	0.00100
Benzylbutyl phthalate	U		0.00113	0.00300

Method Blank (MB)

(MB) R4244829-3 07/07/25 14:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bis(2-ethylhexyl)phthalate	U		0.00165	0.00300
Di-n-butyl phthalate	U		0.000794	0.00300
Diethyl phthalate	U		0.000861	0.00300
Dimethyl phthalate	U		0.000772	0.00300
Di-n-octyl phthalate	U		0.00133	0.00300
Pyrene	U		0.000259	0.00100
1,2,4-Trichlorobenzene	U		0.00230	0.0100
4-Chloro-3-methylphenol	U		0.00228	0.0100
2-Chlorophenol	U		0.00211	0.0100
2-Methylphenol	U		0.00170	0.0100
3&4-Methyl Phenol	U		0.00154	0.0100
2,4-Dichlorophenol	U		0.00241	0.0100
2,4-Dimethylphenol	U		0.00433	0.0100
4,6-Dinitro-2-methylphenol	U		0.00349	0.0100
2,4-Dinitrophenol	U		0.00571	0.0100
2-Nitrophenol	U		0.00260	0.0100
4-Nitrophenol	U		0.00755	0.0100
Pentachlorophenol	U		0.000708	0.0100
Phenol	U		0.000757	0.0100
2,4,5-Trichlorophenol	U		0.00270	0.0100
2,4,6-Trichlorophenol	U		0.00238	0.0100
Acetophenone	U		0.00205	0.0100
n-Nitrosodimethylamine	U		0.00280	0.0100
Diphenylamine	U		0.00202	0.0100
1,2,4,5-Tetrachlorobenzene	U		0.00243	0.0100
2,3,4,6-Tetrachlorophenol	U		0.00325	0.0100
(S) 2-Fluorophenol	*25.0*			*10.0-120*
(S) Phenol-d5	*14.9*			*10.0-120*
(S) Nitrobenzene-d5	*62.5*			*10.0-127*
(S) 2-Fluorobiphenyl	*63.0*			*10.0-130*
(S) 2,4,6-Tribromophenol	*85.0*			*10.0-155*
(S) p-Terphenyl-d14	*78.7*			*10.0-128*

Method Blank (MB)

(MB) R4244829-3 07/07/25 14:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
2-Acetylaminofluorene	U		0.00115	0.0100
4-Aminobiphenyl	U		0.00239	0.0100
Chlorobenzilate	U		0.00110	0.0500
Diallate	U		0.000524	0.0100
Dinoseb	U		0.00102	0.0500
Ethyl methanesulfonate	U		0.00182	0.0100
Famphur	U		0.00152	0.0200
Hexachloropropene	U		0.00212	0.0500
Isodrin	U		0.00196	0.0100
Isosafrole	U		0.00189	0.0100
Kepone	U		0.00189	0.0200
Methapyrilene	U		0.00202	0.0500
3-Methylcholanthrene	U		0.00141	0.0100
Methyl methanesulfonate	U		0.00138	0.0500
Methyl parathion	U		0.00206	0.0100
1,4-Naphthoquinone	U		0.00147	0.0500
1-Naphthylamine	U		0.00341	0.0100
2-Naphthylamine	U		0.00372	0.0100
n-Nitrosodi-n-butylamine	U		0.00230	0.0100
n-Nitrosodiethylamine	U		0.00151	0.0100
n-Nitrosomethylethylamine	U		0.00136	0.0100
N-Nitrosomorpholine	U		0.00193	0.0100
n-Nitrosopiperidine	U		0.00191	0.0100
n-Nitrosopyrrolidine	U		0.00195	0.0100
5-Nitro-o-toluidine	U		0.00161	0.0100
Ethyl Parathion	U		0.00159	0.0100
Pentachlorobenzene	U		0.00207	0.0100
Pentachloronitrobenzene	U		0.00110	0.0100
Phenacetin	U		0.00169	0.0100
p-Phenylenediamine	U		0.0437	6.90
Phorate	U		0.00171	0.0500
Pronamide	U		0.00189	0.0100
Dimethoate	U		0.00229	0.0500
P-(Dimethylamino) Azobenzene	U		0.00140	0.0100
Dimethylbenz (A) Anthracene	U		0.00150	0.0100
3,3-Dimethylbenzidine	U		0.00104	0.0100
1,3-Dinitrobenzene	U		0.00142	0.0100
Disulfoton	U		0.00209	0.0100
Safrole	U		0.00161	0.0100
Thionazin	U		0.00175	0.0100

Method Blank (MB)

(MB) R4244829-3 07/07/25 14:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
o-Toluidine	U		0.00346	0.0100
O,O,O-Triethyl phosphorothioate	U		0.00222	0.0100
1,3,5-Trinitrobenzene	U		0.00281	0.0100
2,6-Dichlorophenol	U		0.00159	0.0100

Laboratory Control Sample (LCS)

(LCS) R4244829-1 07/07/25 14:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0500	0.0352	70.4	41.0-120	
Acenaphthylene	0.0500	0.0297	59.4	43.0-120	
Anthracene	0.0500	0.0362	72.4	45.0-120	
Benzo(a)anthracene	0.0500	0.0377	75.4	47.0-120	
Benzo(b)fluoranthene	0.0500	0.0364	72.8	46.0-120	
Benzo(k)fluoranthene	0.0500	0.0362	72.4	46.0-120	
Benzo(g,h,i)perylene	0.0500	0.0366	73.2	48.0-121	
Benzo(a)pyrene	0.0500	0.0366	73.2	47.0-120	
Benzyl alcohol	0.0500	0.0236	47.2	25.0-120	
Bis(2-chlorethoxy)methane	0.0500	0.0251	50.2	33.0-120	
Bis(2-chloroethyl)ether	0.0500	0.0255	51.0	23.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0270	54.0	28.0-120	
4-Bromophenyl-phenylether	0.0500	0.0414	82.8	45.0-120	
4-Chloroaniline	0.0500	0.0214	42.8	25.0-120	
2-Chloronaphthalene	0.0500	0.0322	64.4	37.0-120	
4-Chlorophenyl-phenylether	0.0500	0.0431	86.2	44.0-120	
Chrysene	0.0500	0.0368	73.6	48.0-120	
Dibenz(a,h)anthracene	0.0500	0.0383	76.6	47.0-120	
Dibenzofuran	0.0500	0.0358	71.6	44.0-120	
3,3-Dichlorobenzidine	0.100	0.0704	70.4	44.0-120	
2,4-Dinitrotoluene	0.0500	0.0438	87.6	49.0-124	
2,6-Dinitrotoluene	0.0500	0.0419	83.8	46.0-120	
Fluoranthene	0.0500	0.0414	82.8	51.0-120	
Fluorene	0.0500	0.0371	74.2	47.0-120	
Hexachlorobenzene	0.0500	0.0434	86.8	44.0-120	
Hexachloro-1,3-butadiene	0.0500	0.0369	73.8	19.0-120	
Hexachlorocyclopentadiene	0.0500	0.0125	25.0	15.0-120	
Hexachloroethane	0.0500	0.0289	57.8	15.0-120	
Indeno(1,2,3-cd)pyrene	0.0500	0.0356	71.2	49.0-122	

Laboratory Control Sample (LCS)

(LCS) R4244829-1 07/07/25 14:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Isophorone	0.0500	0.0264	52.8	36.0-120	
2-Methylnaphthalene	0.0500	0.0307	61.4	33.0-120	
Naphthalene	0.0500	0.0260	52.0	27.0-120	
2-Nitroaniline	0.0500	0.0355	71.0	43.0-120	
3-Nitroaniline	0.0500	0.0327	65.4	38.0-120	
4-Nitroaniline	0.0500	0.0350	70.0	18.0-160	
Nitrobenzene	0.0500	0.0294	58.8	27.0-120	
n-Nitrosodiphenylamine	0.0500	0.0347	69.4	47.0-120	
n-Nitrosodi-n-propylamine	0.0500	0.0301	60.2	31.0-120	
Phenanthrene	0.0500	0.0367	73.4	46.0-120	
Benzylbutyl phthalate	0.0500	0.0374	74.8	43.0-121	
Bis(2-ethylhexyl)phthalate	0.0500	0.0371	74.2	43.0-122	
Di-n-butyl phthalate	0.0500	0.0401	80.2	49.0-121	
Diethyl phthalate	0.0500	0.0425	85.0	48.0-122	
Dimethyl phthalate	0.0500	0.0409	81.8	48.0-120	
Di-n-octyl phthalate	0.0500	0.0377	75.4	42.0-125	
Pyrene	0.0500	0.0368	73.6	47.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0301	60.2	24.0-120	
4-Chloro-3-methylphenol	0.0500	0.0307	61.4	40.0-120	
2-Chlorophenol	0.0500	0.0246	49.2	25.0-120	
2-Methylphenol	0.0500	0.0218	43.6	28.0-120	
3&4-Methyl Phenol	0.0500	0.0227	45.4	31.0-120	
2,4-Dichlorophenol	0.0500	0.0302	60.4	36.0-120	
2,4-Dimethylphenol	0.0500	0.0242	48.4	33.0-120	
4,6-Dinitro-2-methylphenol	0.0500	0.0431	86.2	38.0-138	
2,4-Dinitrophenol	0.0500	0.0448	89.6	10.0-120	
2-Nitrophenol	0.0500	0.0325	65.0	31.0-120	
4-Nitrophenol	0.0500	0.0125	25.0	10.0-120	
Pentachlorophenol	0.0500	0.0278	55.6	23.0-120	
Phenol	0.0500	0.00899	18.0	10.0-120	
2,4,5-Trichlorophenol	0.0500	0.0399	79.8	44.0-120	
2,4,6-Trichlorophenol	0.0500	0.0381	76.2	42.0-120	
Acetophenone	0.0500	0.0321	64.2	29.0-120	
n-Nitrosodimethylamine	0.0500	0.0200	40.0	10.0-120	
Diphenylamine	0.0500	0.0347	69.4	35.0-120	
1,2,4,5-Tetrachlorobenzene	0.0500	0.0394	78.8	31.0-121	
2,3,4,6-Tetrachlorophenol	0.0500	0.0440	88.0	42.0-132	
(S) 2-Fluorophenol			*28.3*	*10.0-120*	
(S) Phenol-d5			*18.0*	*10.0-120*	
(S) Nitrobenzene-d5			*58.7*	*10.0-127*	

Laboratory Control Sample (LCS)

(LCS) R4244829-1 07/07/25 14:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) 2-Fluorobiphenyl			*61.7*	*10.0-130*	
(S) 2,4,6-Tribromophenol			*95.0*	*10.0-155*	
(S) p-Terphenyl-d14			*74.8*	*10.0-128*	

Laboratory Control Sample (LCS)

(LCS) R4244829-2 07/07/25 14:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
2-Acetylaminofluorene	0.0500	0.0393	78.6	32.0-120	
4-Aminobiphenyl	0.0500	0.0136	27.2	20.0-120	
Chlorobenzilate	0.0500	0.0425	85.0	29.0-128	
Diallate	0.0500	0.0277	55.4	30.0-120	
Dinoseb	0.0500	0.0521	104	39.0-120	
Ethyl methanesulfonate	0.0500	0.0275	55.0	10.0-120	
Famphur	0.0500	0.0439	87.8	32.0-120	
Hexachloropropene	0.0500	0.0276	55.2	10.0-120	
Isodrin	0.0500	0.0391	78.2	22.0-157	
Isosafrole	0.0500	0.0324	64.8	25.0-133	
Kepone	0.0500	0.0314	62.8	10.0-120	
Methapyrilene	0.0500	0.00374	7.48	10.0-120	J4
3-Methylcholanthrene	0.0500	0.0405	81.0	30.0-160	
Methyl methanesulfonate	0.0500	0.0249	49.8	10.0-120	
Methyl parathion	0.0500	0.0394	78.8	42.0-120	
1,4-Naphthoquinone	0.0500	0.00189	3.78	50.0-150	J4
1-Naphthylamine	0.0500	0.0170	34.0	19.0-120	
2-Naphthylamine	0.0500	0.0117	23.4	10.0-120	
n-Nitrosodi-n-butylamine	0.0500	0.0394	78.8	13.0-143	
n-Nitrosodiethylamine	0.0500	0.0289	57.8	10.0-120	
n-Nitrosomethylethylamine	0.0500	0.0251	50.2	10.0-120	
N-Nitrosomorpholine	0.0500	0.0316	63.2	10.0-120	
n-Nitrosopiperidine	0.0500	0.0387	77.4	10.0-160	
n-Nitrosopyrrolidine	0.0500	0.0305	61.0	10.0-124	
5-Nitro-o-toluidine	0.0500	0.0421	84.2	34.0-120	
Ethyl Parathion	0.0500	0.0431	86.2	46.0-130	
Pentachlorobenzene	0.0500	0.0404	80.8	25.0-120	
Pentachloronitrobenzene	0.0500	0.0612	122	34.0-132	
Phenacetin	0.0500	0.0401	80.2	34.0-127	
p-Phenylenediamine	0.0500	U	0.000	50.0-150	J4

Laboratory Control Sample (LCS)

(LCS) R4244829-2 07/07/25 14:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phorate	0.0500	0.0521	104	13.0-160	
Pronamide	0.0500	0.0416	83.2	38.0-130	
Dimethoate	0.0500	0.0274	54.8	11.0-134	
P-(Dimethylamino) Azobenzene	0.0500	0.0300	60.0	27.0-120	
Dimethylbenz (A) Anthracene	0.0500	0.0380	76.0	14.0-124	
3,3-Dimethylbenzidine	0.0500	0.00125	2.50	13.0-120	J4
1,3-Dinitrobenzene	0.0500	0.0503	101	34.0-120	
Diphenylamine	0.0500	0.0408	81.6	35.0-120	
Disulfoton	0.0500	0.0278	55.6	32.0-120	
Safrole	0.0500	0.0382	76.4	21.0-120	
Thionazin	0.0500	0.0410	82.0	38.0-121	
o-Toluidine	0.0500	0.0234	46.8	10.0-120	
O,O,O-Triethyl phosphorothioate	0.0500	0.0406	81.2	11.0-135	
1,3,5-Trinitrobenzene	0.0500	0.0675	135	37.0-147	
2,6-Dichlorophenol	0.0500	0.0379	75.8	19.0-136	

L1873844-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1873844-11 07/07/25 18:52 • (MS) R4244829-5 07/07/25 19:13 • (MSD) R4244829-6 07/07/25 19:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0500	ND	0.0316	0.0378	63.2	70.3	1	28.0-120			17.9	25
Acenaphthylene	0.0500	ND	0.0257	0.0311	51.4	57.8	1	31.0-121			19.0	25
Anthracene	0.0500	ND	0.0300	0.0377	60.0	70.1	1	36.0-120			22.7	23
Benzo(a)anthracene	0.0500	ND	0.0325	0.0403	65.0	74.9	1	39.0-120			21.4	23
Benzo(b)fluoranthene	0.0500	ND	0.0318	0.0401	63.6	74.5	1	37.0-120		J3	23.1	23
Benzo(k)fluoranthene	0.0500	ND	0.0317	0.0386	63.4	71.7	1	37.0-120			19.6	26
Benzo(g,h,i)perylene	0.0500	ND	0.0335	0.0408	67.0	75.8	1	37.0-123			19.7	25
Benzo(a)pyrene	0.0500	ND	0.0307	0.0393	61.4	73.0	1	37.0-120		J3	24.6	24
Benzyl alcohol	0.0500	ND	0.0224	0.0292	44.8	54.3	1	14.0-120			26.4	38
Bis(2-chlorethoxy)methane	0.0500	ND	0.0221	0.0268	44.2	49.8	1	17.0-120			19.2	31
Bis(2-chloroethyl)ether	0.0500	ND	0.0213	0.0264	42.6	49.1	1	14.0-120			21.4	33
2,2-Oxybis(1-Chloropropane)	0.0500	ND	0.0229	0.0288	45.8	53.5	1	18.0-120			22.8	34
4-Bromophenyl-phenylether	0.0500	ND	0.0402	0.0474	80.4	88.1	1	37.0-120			16.4	24
4-Chloroaniline	0.0500	ND	0.0161	0.0194	32.2	36.1	1	10.0-120			18.6	31
2-Chloronaphthalene	0.0500	ND	0.0278	0.0333	55.6	61.9	1	29.0-120			18.0	28
4-Chlorophenyl-phenylether	0.0500	ND	0.0383	0.0464	76.6	86.2	1	36.0-120			19.1	23
Chrysene	0.0500	ND	0.0323	0.0398	64.6	74.0	1	38.0-120			20.8	23
Dibenz(a,h)anthracene	0.0500	ND	0.0346	0.0426	69.2	79.2	1	36.0-121			20.7	24

L1873844-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1873844-11 07/07/25 18:52 • (MS) R4244829-5 07/07/25 19:13 • (MSD) R4244829-6 07/07/25 19:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Dibenzofuran	0.0500	ND	0.0330	0.0389	66.0	72.3	1	32.0-120			16.4	26
3,3-Dichlorobenzidine	0.100	ND	ND	ND	0.000	0.000	1	10.0-134	J6	J6	0.000	30
2,4-Dinitrotoluene	0.0500	ND	0.0383	0.0480	76.6	89.2	1	39.0-125			22.5	25
2,6-Dinitrotoluene	0.0500	ND	0.0367	0.0465	73.4	86.4	1	36.0-120			23.6	27
Fluoranthene	0.0500	ND	0.0353	0.0437	70.6	81.2	1	41.0-121			21.3	22
Fluorene	0.0500	ND	0.0330	0.0406	66.0	75.5	1	37.0-120			20.7	24
Hexachlorobenzene	0.0500	ND	0.0400	0.0486	80.0	90.3	1	35.0-122			19.4	24
Hexachloro-1,3-butadiene	0.0500	ND	0.0311	0.0375	62.2	69.7	1	12.0-120			18.7	34
Hexachlorocyclopentadiene	0.0500	ND	0.0150	0.0186	30.0	34.6	1	10.0-120			21.4	33
Hexachloroethane	0.0500	ND	0.0235	0.0293	47.0	54.5	1	10.0-120			22.0	40
Indeno(1,2,3-cd)pyrene	0.0500	ND	0.0326	0.0398	65.2	74.0	1	38.0-125			19.9	24
Isophorone	0.0500	ND	0.0235	0.0291	47.0	54.1	1	21.0-120			21.3	27
2-Methylnaphthalene	0.0500	0.00200	0.0268	0.0317	49.6	55.2	1	17.0-120			16.8	28
Naphthalene	0.0500	ND	0.0213	0.0254	42.6	47.2	1	10.0-120			17.6	31
2-Nitroaniline	0.0500	ND	0.0237	0.0332	47.4	61.7	1	33.0-120		J3	33.4	27
3-Nitroaniline	0.0500	ND	0.0202	0.0242	40.4	45.0	1	20.0-120			18.0	27
4-Nitroaniline	0.0500	ND	0.0154	0.0227	30.8	42.2	1	10.0-160		J3	38.3	26
Nitrobenzene	0.0500	ND	0.0301	0.0346	60.2	64.3	1	12.0-120			13.9	30
n-Nitrosodiphenylamine	0.0500	ND	0.0329	0.0397	65.8	73.8	1	37.0-120			18.7	24
n-Nitrosodi-n-propylamine	0.0500	ND	0.0252	0.0309	50.4	57.4	1	16.0-120			20.3	30
Phenanthrene	0.0500	ND	0.0331	0.0403	66.2	74.9	1	33.0-120			19.6	22
Benzylbutyl phthalate	0.0500	ND	0.0348	0.0434	69.6	80.7	1	34.0-126			22.0	24
Bis(2-ethylhexyl)phthalate	0.0500	ND	0.0343	0.0426	68.6	79.2	1	33.0-126			21.6	25
Di-n-butyl phthalate	0.0500	ND	0.0357	0.0442	71.4	82.2	1	35.0-128			21.3	23
Diethyl phthalate	0.0500	ND	0.0394	0.0469	78.8	87.2	1	39.0-125			17.4	24
Dimethyl phthalate	0.0500	ND	0.0366	0.0441	73.2	82.0	1	37.0-120			18.6	24
Di-n-octyl phthalate	0.0500	ND	0.0358	0.0445	71.6	82.7	1	25.0-135			21.7	26
Pyrene	0.0500	ND	0.0335	0.0409	67.0	76.0	1	39.0-120			19.9	22
1,2,4-Trichlorobenzene	0.0500	ND	0.0251	0.0298	50.2	55.4	1	15.0-120			17.1	31
4-Chloro-3-methylphenol	0.0500	ND	0.0304	0.0380	60.8	70.6	1	26.0-120			22.2	27
2-Chlorophenol	0.0500	ND	0.0207	0.0260	41.4	48.3	1	18.0-120			22.7	34
2-Methylphenol	0.0500	ND	0.0202	0.0260	40.4	48.3	1	10.0-120			25.1	30
3&4-Methyl Phenol	0.0500	ND	0.0231	0.0290	46.2	53.9	1	10.0-120			22.6	36
2,4-Dichlorophenol	0.0500	ND	0.0285	0.0346	57.0	64.3	1	19.0-120			19.3	27
2,4-Dimethylphenol	0.0500	ND	0.0261	0.0339	52.2	63.0	1	15.0-120			26.0	28
4,6-Dinitro-2-methylphenol	0.0500	ND	0.0347	0.0426	69.4	79.2	1	10.0-144			20.4	39
2,4-Dinitrophenol	0.0500	ND	0.0379	0.0476	75.8	88.5	1	10.0-120			22.7	40
2-Nitrophenol	0.0500	ND	0.0286	0.0339	57.2	63.0	1	20.0-120			17.0	30
4-Nitrophenol	0.0500	ND	0.0106	0.0151	21.2	28.1	1	10.0-120			35.0	40
Pentachlorophenol	0.0500	ND	0.0340	0.0441	68.0	82.0	1	10.0-128			25.9	37

L1873844-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1873844-11 07/07/25 18:52 • (MS) R4244829-5 07/07/25 19:13 • (MSD) R4244829-6 07/07/25 19:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phenol	0.0500	ND	ND	0.0115	19.1	21.4	1	10.0-120			18.3	40
2,4,5-Trichlorophenol	0.0500	ND	0.0375	0.0454	75.0	84.4	1	33.0-120			19.1	31
2,4,6-Trichlorophenol	0.0500	ND	0.0357	0.0420	71.4	78.1	1	26.0-120			16.2	31
Acetophenone	0.0500	ND	0.0276	0.0336	55.2	62.5	1	20.0-120			19.6	35
n-Nitrosodimethylamine	0.0500	ND	0.0174	0.0234	34.8	43.5	1	10.0-120			29.4	40
Diphenylamine	0.0500	ND	0.0329	0.0397	65.8	73.8	1	35.0-120			18.7	30
1,2,4,5-Tetrachlorobenzene	0.0500	ND	0.0341	0.0414	68.2	77.0	1	19.0-122			19.3	32
2,3,4,6-Tetrachlorophenol	0.0500	ND	0.0407	0.0504	81.4	93.7	1	17.0-142			21.3	34
(S) 2-Fluorophenol					*22.9*	*28.3*		*10.0-120*				
(S) Phenol-d5					*17.0*	*20.6*		*10.0-120*				
(S) Nitrobenzene-d5					*50.0*	*57.6*		*10.0-127*				
(S) 2-Fluorobiphenyl					*53.9*	*60.6*		*10.0-130*				
(S) 2,4,6-Tribromophenol					*93.0*	*106*		*10.0-155*				
(S) p-Terphenyl-d14					*71.1*	*82.2*		*10.0-128*				

Method Blank (MB)

(MB) R4243699-4 07/09/25 02:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.000246	0.00100
Acenaphthylene	U		0.000265	0.00100
Anthracene	U		0.000196	0.00100
Benzo(a)anthracene	U		0.000208	0.00100
Benzo(b)fluoranthene	U		0.000280	0.00100
Benzo(k)fluoranthene	U		0.000247	0.00100
Benzo(g,h,i)perylene	U		0.000254	0.00100
Benzo(a)pyrene	U		0.000128	0.00100
Benzyl alcohol	U		0.00205	0.0100
Bis(2-chlorethoxy)methane	U		0.00188	0.0100
Bis(2-chloroethyl)ether	U		0.00205	0.0100
2,2-Oxybis(1-Chloropropane)	U		0.00191	0.0100
4-Bromophenyl-phenylether	U		0.00267	0.0100
4-Chloroaniline	U		0.00506	0.0100
2-Chloronaphthalene	U		0.000259	0.00100
4-Chlorophenyl-phenylether	U		0.00222	0.0100
Chrysene	U		0.000279	0.00100
Dibenz(a,h)anthracene	U		0.000148	0.00100
Dibenzofuran	U		0.00251	0.0100
3,3-Dichlorobenzidine	U		0.00758	0.0100
2,4-Dinitrotoluene	U		0.00187	0.0100
2,6-Dinitrotoluene	U		0.00186	0.0100
Fluoranthene	U		0.000229	0.00100
Fluorene	U		0.000277	0.00100
Hexachlorobenzene	U		0.000259	0.00100
Hexachloro-1,3-butadiene	U		0.00227	0.0100
Hexachlorocyclopentadiene	U		0.00281	0.0100
Hexachloroethane	U		0.00215	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000285	0.00100
Isophorone	U		0.00172	0.0100
2-Methylnaphthalene	U		0.000276	0.00100
Naphthalene	U		0.000678	0.00100
2-Nitroaniline	U		0.00236	0.0100
3-Nitroaniline	U		0.00120	0.0100
4-Nitroaniline	U		0.00211	0.0100
Nitrobenzene	U		0.00197	0.0100
n-Nitrosodiphenylamine	U		0.00202	0.0100
n-Nitrosodi-n-propylamine	U		0.00202	0.0100
Phenanthrene	U		0.000219	0.00100
Benzylbutyl phthalate	U		0.00113	0.00300

Method Blank (MB)

(MB) R4243699-4 07/09/25 02:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bis(2-ethylhexyl)phthalate	U		0.00165	0.00300
Di-n-butyl phthalate	U		0.000794	0.00300
Diethyl phthalate	U		0.000861	0.00300
Dimethyl phthalate	U		0.000772	0.00300
Di-n-octyl phthalate	U		0.00133	0.00300
Pyrene	U		0.000259	0.00100
1,2,4-Trichlorobenzene	U		0.00230	0.0100
4-Chloro-3-methylphenol	U		0.00228	0.0100
2-Chlorophenol	U		0.00211	0.0100
2-Methylphenol	U		0.00170	0.0100
3&4-Methyl Phenol	U		0.00154	0.0100
2,4-Dichlorophenol	U		0.00241	0.0100
2,4-Dimethylphenol	U		0.00433	0.0100
4,6-Dinitro-2-methylphenol	U		0.00349	0.0100
2,4-Dinitrophenol	U		0.00571	0.0100
2-Nitrophenol	U		0.00260	0.0100
4-Nitrophenol	U		0.00755	0.0100
Pentachlorophenol	U		0.000708	0.0100
Phenol	U		0.000757	0.0100
2,4,5-Trichlorophenol	U		0.00270	0.0100
2,4,6-Trichlorophenol	U		0.00238	0.0100
Acetophenone	U		0.00205	0.0100
n-Nitrosodimethylamine	U		0.00280	0.0100
Diphenylamine	U		0.00202	0.0100
1,2,4,5-Tetrachlorobenzene	U		0.00243	0.0100
2,3,4,6-Tetrachlorophenol	U		0.00325	0.0100
(S) 2-Fluorophenol	*25.7*			*10.0-120*
(S) Phenol-d5	*16.3*			*10.0-120*
(S) Nitrobenzene-d5	*51.9*			*10.0-127*
(S) 2-Fluorobiphenyl	*55.7*			*10.0-130*
(S) 2,4,6-Tribromophenol	*80.0*			*10.0-155*
(S) p-Terphenyl-d14	*72.7*			*10.0-128*

Method Blank (MB)

(MB) R4243699-4 07/09/25 02:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
2-Acetylaminofluorene	U		0.00115	0.0100
4-Aminobiphenyl	U		0.00239	0.0100
Chlorobenzilate	U		0.00110	0.0500
Diallate	U		0.000524	0.0100
Dinoseb	U		0.00102	0.0500
Ethyl methanesulfonate	U		0.00182	0.0100
Famphur	U		0.00152	0.0200
Hexachloropropene	U		0.00212	0.0500
Isodrin	U		0.00196	0.0100
Isosafrole	U		0.00189	0.0100
Kepone	U		0.00189	0.0200
Methapyrilene	U		0.00202	0.0500
3-Methylcholanthrene	U		0.00141	0.0100
Methyl methanesulfonate	U		0.00138	0.0500
Methyl parathion	U		0.00206	0.0100
1,4-Naphthoquinone	U		0.00147	0.0500
1-Naphthylamine	U		0.00341	0.0100
2-Naphthylamine	U		0.00372	0.0100
n-Nitrosodi-n-butylamine	U		0.00230	0.0100
n-Nitrosodiethylamine	U		0.00151	0.0100
n-Nitrosomethylethylamine	U		0.00136	0.0100
N-Nitrosomorpholine	U		0.00193	0.0100
n-Nitrosopiperidine	U		0.00191	0.0100
n-Nitrosopyrrolidine	U		0.00195	0.0100
5-Nitro-o-toluidine	U		0.00161	0.0100
Ethyl Parathion	U		0.00159	0.0100
Pentachlorobenzene	U		0.00207	0.0100
Pentachloronitrobenzene	U		0.00110	0.0100
Phenacetin	U		0.00169	0.0100
p-Phenylenediamine	U		0.0437	6.90
Phorate	U		0.00171	0.0500
Pronamide	U		0.00189	0.0100
Dimethoate	U		0.00229	0.0500
P-(Dimethylamino) Azobenzene	U		0.00140	0.0100
Dimethylbenz (A) Anthracene	U		0.00150	0.0100
3,3-Dimethylbenzidine	U		0.00104	0.0100
1,3-Dinitrobenzene	U		0.00142	0.0100
Disulfoton	U		0.00209	0.0100
Safrole	U		0.00161	0.0100
Thionazin	U		0.00175	0.0100

Method Blank (MB)

(MB) R4243699-4 07/09/25 02:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
o-Toluidine	U		0.00346	0.0100
O,O,O-Triethyl phosphorothioate	U		0.00222	0.0100
1,3,5-Trinitrobenzene	U		0.00281	0.0100
2,6-Dichlorophenol	U		0.00159	0.0100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4243699-1 07/09/25 01:32 • (LCSD) R4243699-2 07/09/25 01:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0500	0.0300	0.0319	60.0	63.8	41.0-120			6.14	22
Acenaphthylene	0.0500	0.0248	0.0264	49.6	52.8	43.0-120			6.25	22
Anthracene	0.0500	0.0298	0.0319	59.6	63.8	45.0-120			6.81	20
Benzo(a)anthracene	0.0500	0.0307	0.0332	61.4	66.4	47.0-120			7.82	20
Benzo(b)fluoranthene	0.0500	0.0310	0.0318	62.0	63.6	46.0-120			2.55	20
Benzo(k)fluoranthene	0.0500	0.0302	0.0312	60.4	62.4	46.0-120			3.26	21
Benzo(g,h,i)perylene	0.0500	0.0308	0.0315	61.6	63.0	48.0-121			2.25	20
Benzo(a)pyrene	0.0500	0.0299	0.0310	59.8	62.0	47.0-120			3.61	20
Benzyl alcohol	0.0500	0.0215	0.0225	43.0	45.0	25.0-120			4.55	26
Bis(2-chlorethoxy)methane	0.0500	0.0201	0.0211	40.2	42.2	33.0-120			4.85	24
Bis(2-chloroethyl)ether	0.0500	0.0188	0.0204	37.6	40.8	23.0-120			8.16	33
2,2-Oxybis(1-Chloropropane)	0.0500	0.0218	0.0245	43.6	49.0	28.0-120			11.7	31
4-Bromophenyl-phenylether	0.0500	0.0378	0.0414	75.6	82.8	45.0-120			9.09	20
4-Chloroaniline	0.0500	0.0184	0.0191	36.8	38.2	25.0-120			3.73	25
2-Chloronaphthalene	0.0500	0.0275	0.0285	55.0	57.0	37.0-120			3.57	25
4-Chlorophenyl-phenylether	0.0500	0.0378	0.0392	75.6	78.4	44.0-120			3.64	20
Chrysene	0.0500	0.0304	0.0316	60.8	63.2	48.0-120			3.87	20
Dibenz(a,h)anthracene	0.0500	0.0331	0.0343	66.2	68.6	47.0-120			3.56	20
Dibenzofuran	0.0500	0.0316	0.0331	63.2	66.2	44.0-120			4.64	22
3,3-Dichlorobenzidine	0.100	0.0519	0.0609	51.9	60.9	44.0-120			16.0	20
2,4-Dinitrotoluene	0.0500	0.0363	0.0387	72.6	77.4	49.0-124			6.40	20
2,6-Dinitrotoluene	0.0500	0.0352	0.0358	70.4	71.6	46.0-120			1.69	21
Fluoranthene	0.0500	0.0341	0.0359	68.2	71.8	51.0-120			5.14	20
Fluorene	0.0500	0.0318	0.0328	63.6	65.6	47.0-120			3.10	20
Hexachlorobenzene	0.0500	0.0405	0.0434	81.0	86.8	44.0-120			6.91	20
Hexachloro-1,3-butadiene	0.0500	0.0348	0.0342	69.6	68.4	19.0-120			1.74	32
Hexachlorocyclopentadiene	0.0500	0.0102	0.00955	20.4	19.1	15.0-120			6.58	31
Hexachloroethane	0.0500	0.0230	0.0230	46.0	46.0	15.0-120			0.000	37
Indeno(1,2,3-cd)pyrene	0.0500	0.0304	0.0313	60.8	62.6	49.0-122			2.92	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4243699-1 07/09/25 01:32 • (LCSD) R4243699-2 07/09/25 01:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Isophorone	0.0500	0.0227	0.0236	45.4	47.2	36.0-120			3.89	23
2-Methylnaphthalene	0.0500	0.0265	0.0266	53.0	53.2	33.0-120			0.377	25
Naphthalene	0.0500	0.0216	0.0226	43.2	45.2	27.0-120			4.52	27
2-Nitroaniline	0.0500	0.0313	0.0314	62.6	62.8	43.0-120			0.319	22
3-Nitroaniline	0.0500	0.0252	0.0272	50.4	54.4	38.0-120			7.63	21
4-Nitroaniline	0.0500	0.0284	0.0282	56.8	56.4	18.0-160			0.707	21
Nitrobenzene	0.0500	0.0242	0.0261	48.4	52.2	27.0-120			7.55	29
n-Nitrosodiphenylamine	0.0500	0.0284	0.0322	56.8	64.4	47.0-120			12.5	20
n-Nitrosodi-n-propylamine	0.0500	0.0241	0.0252	48.2	50.4	31.0-120			4.46	28
Phenanthrene	0.0500	0.0301	0.0327	60.2	65.4	46.0-120			8.28	20
Benzylbutyl phthalate	0.0500	0.0300	0.0319	60.0	63.8	43.0-121			6.14	20
Bis(2-ethylhexyl)phthalate	0.0500	0.0299	0.0318	59.8	63.6	43.0-122			6.16	20
Di-n-butyl phthalate	0.0500	0.0325	0.0343	65.0	68.6	49.0-121			5.39	20
Diethyl phthalate	0.0500	0.0361	0.0378	72.2	75.6	48.0-122			4.60	20
Dimethyl phthalate	0.0500	0.0348	0.0365	69.6	73.0	48.0-120			4.77	20
Di-n-octyl phthalate	0.0500	0.0306	0.0317	61.2	63.4	42.0-125			3.53	20
Pyrene	0.0500	0.0294	0.0320	58.8	64.0	47.0-120			8.47	20
1,2,4-Trichlorobenzene	0.0500	0.0262	0.0261	52.4	52.2	24.0-120			0.382	29
4-Chloro-3-methylphenol	0.0500	0.0252	0.0245	50.4	49.0	40.0-120			2.82	21
2-Chlorophenol	0.0500	0.0190	0.0198	38.0	39.6	25.0-120			4.12	35
2-Methylphenol	0.0500	0.0181	0.0173	36.2	34.6	28.0-120			4.52	29
3&4-Methyl Phenol	0.0500	0.0190	0.0195	38.0	39.0	31.0-120			2.60	30
2,4-Dichlorophenol	0.0500	0.0260	0.0269	52.0	53.8	36.0-120			3.40	26
2,4-Dimethylphenol	0.0500	0.0240	0.0219	48.0	43.8	33.0-120			9.15	26
4,6-Dinitro-2-methylphenol	0.0500	0.0366	0.0379	73.2	75.8	38.0-138			3.49	25
2,4-Dinitrophenol	0.0500	0.0371	0.0338	74.2	67.6	10.0-120			9.31	39
2-Nitrophenol	0.0500	0.0286	0.0290	57.2	58.0	31.0-120			1.39	29
4-Nitrophenol	0.0500	0.00944	U	18.9	0.000	10.0-120		J3 J4	200	33
Pentachlorophenol	0.0500	0.0205	0.0202	41.0	40.4	23.0-120			1.47	25
Phenol	0.0500	0.00786	0.00834	15.7	16.7	10.0-120			5.93	36
2,4,5-Trichlorophenol	0.0500	0.0348	0.0333	69.6	66.6	44.0-120			4.41	22
2,4,6-Trichlorophenol	0.0500	0.0337	0.0353	67.4	70.6	42.0-120			4.64	23
Acetophenone	0.0500	0.0269	0.0291	53.8	58.2	29.0-120			7.86	28
n-Nitrosodimethylamine	0.0500	0.0203	0.0212	40.6	42.4	10.0-120			4.34	40
Diphenylamine	0.0500	0.0284	0.0322	56.8	64.4	35.0-120			12.5	20
1,2,4,5-Tetrachlorobenzene	0.0500	0.0349	0.0352	69.8	70.4	31.0-121			0.856	27
2,3,4,6-Tetrachlorophenol	0.0500	0.0395	0.0372	79.0	74.4	42.0-132			6.00	22
(S) 2-Fluorophenol				*22.2*	*21.7*	*10.0-120*				
(S) Phenol-d5				*15.3*	*14.8*	*10.0-120*				
(S) Nitrobenzene-d5				*48.8*	*50.6*	*10.0-127*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4243699-1 07/09/25 01:32 • (LCSD) R4243699-2 07/09/25 01:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorobiphenyl				*57.1*	*55.8*	*10.0-130*				
(S) 2,4,6-Tribromophenol				*95.5*	*100*	*10.0-155*				
(S) p-Terphenyl-d14				*66.1*	*70.3*	*10.0-128*				

Laboratory Control Sample (LCS)

(LCS) R4243699-3 07/09/25 02:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
2-Acetylaminofluorene	0.0500	0.0325	65.0	32.0-120	
4-Aminobiphenyl	0.0500	0.00991	19.8	20.0-120	J4
Chlorobenzilate	0.0500	0.0372	74.4	29.0-128	
Diallate	0.0500	0.0201	40.2	30.0-120	
Dinoseb	0.0500	0.0445	89.0	39.0-120	
Ethyl methanesulfonate	0.0500	0.0212	42.4	10.0-120	
Famphur	0.0500	0.0380	76.0	32.0-120	
Hexachloropropene	0.0500	0.0238	47.6	10.0-120	
Isodrin	0.0500	0.0312	62.4	22.0-157	
Isosafrole	0.0500	0.0255	51.0	25.0-133	
Kepone	0.0500	0.0263	52.6	10.0-120	
Methapyrilene	0.0500	0.00281	5.62	10.0-120	J4
3-Methylcholanthrene	0.0500	0.0350	70.0	30.0-160	
Methyl methanesulfonate	0.0500	0.0211	42.2	10.0-120	
Methyl parathion	0.0500	0.0309	61.8	42.0-120	
1,4-Naphthoquinone	0.0500	U	0.000	50.0-150	J4
1-Naphthylamine	0.0500	0.0115	23.0	19.0-120	
2-Naphthylamine	0.0500	0.00928	18.6	10.0-120	
n-Nitrosodi-n-butylamine	0.0500	0.0314	62.8	13.0-143	
n-Nitrosodiethylamine	0.0500	0.0229	45.8	10.0-120	
n-Nitrosomethylethylamine	0.0500	0.0199	39.8	10.0-120	
N-Nitrosomorpholine	0.0500	0.0263	52.6	10.0-120	
n-Nitrosopiperidine	0.0500	0.0334	66.8	10.0-160	
n-Nitrosopyrrolidine	0.0500	0.0249	49.8	10.0-124	
5-Nitro-o-toluidine	0.0500	0.0321	64.2	34.0-120	
Ethyl Parathion	0.0500	0.0355	71.0	46.0-130	
Pentachlorobenzene	0.0500	0.0346	69.2	25.0-120	
Pentachloronitrobenzene	0.0500	0.0553	111	34.0-132	
Phenacetin	0.0500	0.0315	63.0	34.0-127	
p-Phenylenediamine	0.0500	U	0.000	50.0-150	J4

Laboratory Control Sample (LCS)

(LCS) R4243699-3 07/09/25 02:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phorate	0.0500	0.0411	82.2	13.0-160	
Pronamide	0.0500	0.0347	69.4	38.0-130	
Dimethoate	0.0500	0.0187	37.4	11.0-134	
P-(Dimethylamino) Azobenzene	0.0500	0.0225	45.0	27.0-120	
Dimethylbenz (A) Anthracene	0.0500	0.0322	64.4	14.0-124	
3,3-Dimethylbenzidine	0.0500	U	0.000	13.0-120	J4
1,3-Dinitrobenzene	0.0500	0.0399	79.8	34.0-120	
Diphenylamine	0.0500	0.0337	67.4	35.0-120	
Disulfoton	0.0500	0.0197	39.4	32.0-120	
Safrole	0.0500	0.0328	65.6	21.0-120	
Thionazin	0.0500	0.0322	64.4	38.0-121	
o-Toluidine	0.0500	0.0182	36.4	10.0-120	
O,O,O-Triethyl phosphorothioate	0.0500	0.0355	71.0	11.0-135	
1,3,5-Trinitrobenzene	0.0500	0.0594	119	37.0-147	
2,6-Dichlorophenol	0.0500	0.0324	64.8	19.0-136	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C6	The initial calibration verification standard (SSCV) associated with this data responded low.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

GLOSSARY OF TERMS

Qualifier	Description
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Republic Services - CEC

117 Seaboard Ln.
Suite E100
Franklin. TN 37067

Billing Information:
Accounts Payable
621 Hill Ave
Nashville, TN 37210

Pres Chk

Report to:
Michael Johnson 615-333-7797

Email To:
mjohnson@cecinc.com;hvankirk@republicservic

Project Description:
Matlock Bend LF - Loudon, TN

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
313-710

Lab Project #
REPCECTN-MATLOCK

Collected by (print):
Tony Baumgard

Site/Facility ID #

P.O. #
31327749

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**NO3,Cl,SO4** 125mlHDPE-NoPres	8081/8082 100ml Amb-NoPres	8270AP2 100ml Amb NoPres	CN 250mlHDPEAmb-NaOH	COD,NH3 250mlHDPE-H2SO4	MNDG 250mlHDPE-NoPres	SULFIDE 250mlAmb-S-NaOH+ZnAc	SV8151AP2 1L-Amb-No Pres	TDS 1L-HDPE NoPres	TOC 250mlAmb-HCl	Remarks	Sample # (lab only)
MW-1		GW		6-24-25	1120	17	X	X	X	X	X	X	X	X	X	X	☆	-01
MW-1A		GW		6-25-25	0750	17	X	X	X	X	X	X	X	X	X	X		-02
MW-2		GW		6-25-25	0830	17	X	X	X	X	X	X	X	X	X	X		-03
MW-3		GW		6-25-25	1000	17	X	X	X	X	X	X	X	X	X	X	☆	-04
SPRING		GW		6-24-25	1350	12		X	X	X			X	X				-05

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # LA72931
A165

Acctnum: REPCECTN
Template:T276063
Prelogin: P1160610
PM: 526 - Chris McCord
PB: 6/19/25 mV
Shipped Via: Courier

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:Total Metals = M6020AP2+Ca,Fe,K,Mg,Na.
SPRING Total Metals = M6020AP2.
☆needs dissolved metals

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier CH

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N
ice

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	6-25-25	1410		5
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
			Susan Peach	88
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
			Jayant	06/25/25 1415

If pre... Time

PH - 10BDH2631
TRC - 3227A333

Hold:

Condition: NCF / OK

Multiple Parcel Form

L# LF672931

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
	TLAG	1.5	0.4	1.9	Yes / No / Not Present
	TLAG	1.4	0.4	1.8	Yes / No / Not Present
	TLAG	1.6	0.4	2.0	Yes / No / Not Present
	TLAG	2.6	0.4	3.0	Yes / No / Not Present
	TLAG	1.1	0.4	1.5	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Dwight
Name

6.25.25
Date

ANALYTICAL REPORT

July 31, 2025

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Republic Services - CEC

Sample Delivery Group:	L1882945
Samples Received:	06/25/2025
Project Number:	313-710
Description:	Matlock Bend LF - Loudon, TN

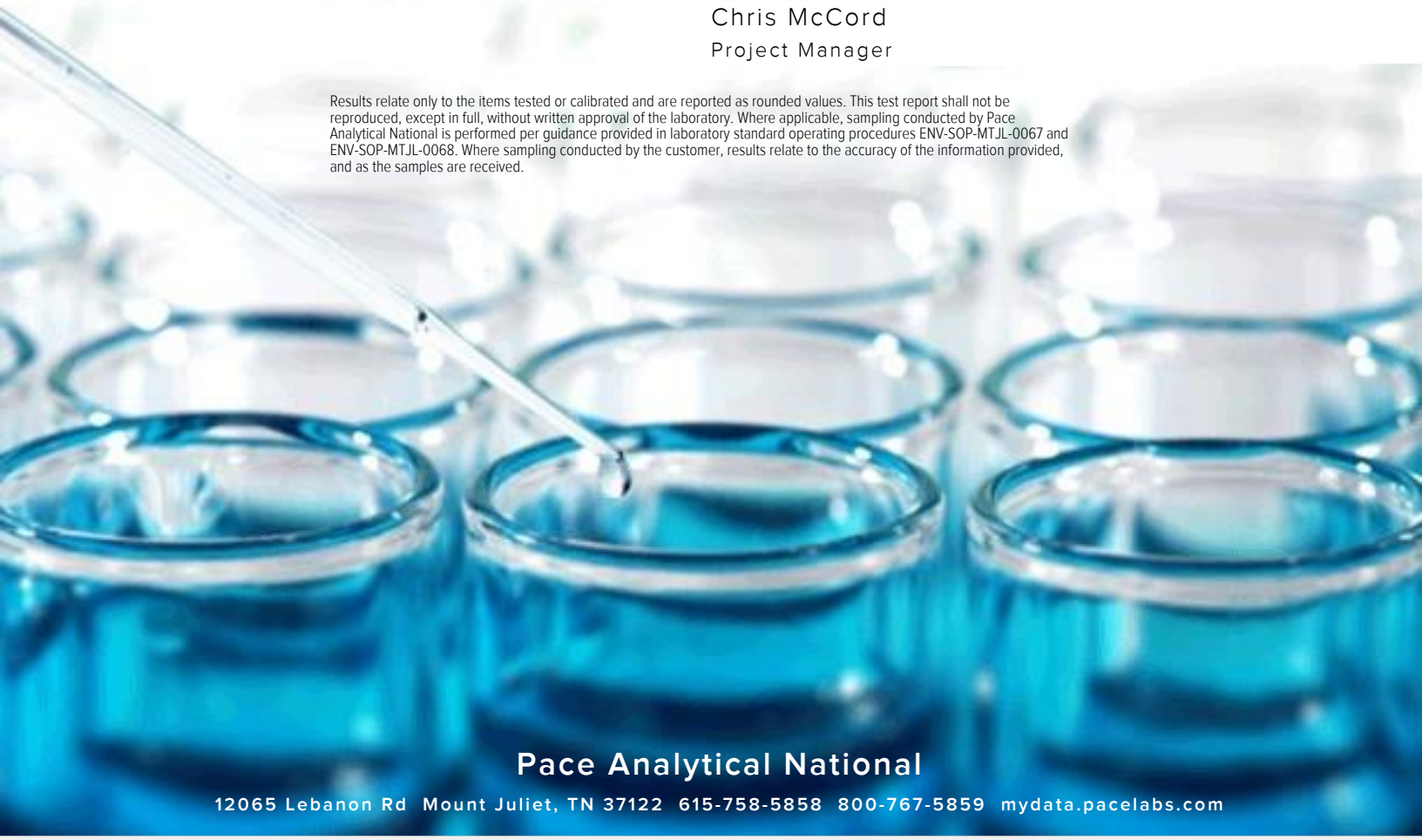
Report To:

Michael Johnson
117 Seaboard Ln.
Suite E100
Franklin, TN 37067

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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SAMPLE SUMMARY

MW-1 L1882945-01

Collected by: Tony Baomgurt | Collected date/time: 06/24/25 11:20 | Received date/time: 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2546710	1	06/26/25 01:44	06/26/25 01:44	DLH	Mt. Juliet, TN

MW-1A L1882945-02

Collected by: Tony Baomgurt | Collected date/time: 06/25/25 07:50 | Received date/time: 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2546710	1	06/26/25 01:57	06/26/25 01:57	DLH	Mt. Juliet, TN

MW-2 L1882945-03

Collected by: Tony Baomgurt | Collected date/time: 06/25/25 08:30 | Received date/time: 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2546710	1	06/26/25 02:09	06/26/25 02:09	DLH	Mt. Juliet, TN

MW-3 L1882945-04

Collected by: Tony Baomgurt | Collected date/time: 06/25/25 10:00 | Received date/time: 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2546710	1	06/26/25 02:22	06/26/25 02:22	DLH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Fluoride	ND		0.150	1	06/26/2025 01:44	WG2546710

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Fluoride	ND		0.150	1	06/26/2025 01:57	WG2546710

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Fluoride	ND		0.150	1	06/26/2025 02:09	WG2546710

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	ND		0.150	1	06/26/2025 02:22	WG2546710

Method Blank (MB)

(MB) R4236504-1 06/25/25 23:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Fluoride	U		0.0761	0.150

L1870568-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1870568-01 06/25/25 23:38 • (DUP) R4236504-3 06/25/25 23:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.517	0.501	1	3.14		15

L1872406-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1872406-02 06/26/25 00:41 • (DUP) R4236504-6 06/26/25 00:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.261	0.244	1	6.49		15

Laboratory Control Sample (LCS)

(LCS) R4236504-2 06/25/25 23:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluoride	8.00	8.20	102	80.0-120	

L1870568-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1870568-01 06/25/25 23:38 • (MS) R4236504-4 06/26/25 00:03 • (MSD) R4236504-5 06/26/25 00:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	8.00	0.517	8.59	8.45	101	99.2	1	80.0-120			1.63	15

L1872406-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1872406-02 06/26/25 00:41 • (MS) R4236504-7 06/26/25 01:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	8.00	0.261	8.70	106	1	80.0-120	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Republic Services - CEC

117 Seaboard Ln.
Suite E100
Franklin, TN 37067

Billing Information:
Accounts Payable
621 Hill Ave
Nashville, TN 37210

Pres Chk

Report to: Michael Johnson 615-333-7797

Email To: mjohnson@cecinc.com;hvankirk@republicservic

Project Description: Matlock Bend LF - Loudon, TN

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # 313-710

Lab Project # REPCECTN-MATLOCK

Collected by (print): Tony Baumgard

Site/Facility ID #

P.O. # 31327749

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**NO3,Cl,SO4** 125mlHDPE-NoPres	8081/8082 100ml Amb-NoPres	8270AP2 100ml Amb NoPres	CN 250mlHDPEAmb-NaOH	COD,NH3 250mlHDPE-H2SO4	MNDG 250mlHDPE-NoPres	SULFIDE 250mlAmb-S-NaOH+ZnAc	SV8151AP2 1L-Amb-No Pres	TDS 1L-HDPE NoPres	TOC 250mlAmb-HCl	Remarks	Sample # (lab only)
MW-1		GW		6-24-25	1120	17	X	X	X	X	X	X	X	X	X	X	☆	-01
MW-1A		GW		6-25-25	0750	17	X	X	X	X	X	X	X	X	X	X		-02
MW-2		GW		6-25-25	0830	17	X	X	X	X	X	X	X	X	X	X		-03
MW-3		GW		6-25-25	1000	17	X	X	X	X	X	X	X	X	X	X	☆	-04
SPRING		GW		6-24-25	1350	12		X	X	X			X	X				~~-05~~

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # ~~L1677931~~ A165
L1882945

Acctnum: REPCECTN
Template: T276063
Prelogin: P1160610
PM: 526 - Chris McCord
PB: 6/19/25 MN
Shipped Via: Courier

N 7/29/25

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:Total Metals = M6020AP2+Ca,Fe,K,Mg,Na.
SPRING Total Metals = M6020AP2.
☆needs dissolved metals

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier CH

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

ice

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	6-25-25	1410	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
			Susan Reed
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Jayant

Trip Blank Received: Yes / No
HCl / MeoH
TBR

Temp: °C Bottles Received: 88

Date: 06/25/25 Time: 1415

If pre PH 10RDH2631 Time
TRC 3227A333

Hold:

Condition: NCF / OK

L1872931 *REPCECTN* relog

R5

Please relog L1872931-01 thru -04 for FLUORIDE and place into WETP:DONE:WG2546710 for lab to recapture from existing runs.

WSR - please recapture under new L# once relogged.

L1872931-01-WG2546710-46-IC-10-062525.seq
L1872931-02-WG2546710-47-IC-10-062525.seq
L1872931-03-WG2546710-48-IC-10-062525.seq
L1872931-04-WG2546710-49-IC-10-062525.seq

Thanks,

Chris

From: Johnson, Michael <mjohnson@cecinc.com>
Sent: Wednesday, July 23, 2025 5:32 PM
To: Chris McCord <Chris.McCord@pacelabs.com>
Cc: Cox, Darren <decox@cecinc.com>
Subject: RE: Pace Analytical National Level II Report & EDD for 313-710 Matlock Bend LF - Loudon, TN L1872931

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.
Hi Chris,

Do you have fluoride values for the wells associated with this lab report? This was the set of wells that got the complete Appendix II list.

Thanks

Mike J

Michael Johnson, P.G. | Senior Project Manager
Civil & Environmental Consultants, Inc.
117 Seaboard Lane * Suite E100 * Franklin, TN 37067
Toll-Free: (615) 333-7797 * Direct: 615-577-9328 * Fax: 615-333-7751
Mobile: (615) 870-8373 * http://www.cecinc.com

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P Please consider the environment before printing this email

Time estimate: oh **Time spent:** oh

Members

Mc² Christopher McCord (responsible)

ANALYTICAL REPORT

July 18, 2025

Republic Services - CEC

Sample Delivery Group:	L1872967
Samples Received:	06/25/2025
Project Number:	313-710
Description:	Matlock Bend LF - Loudon, TN

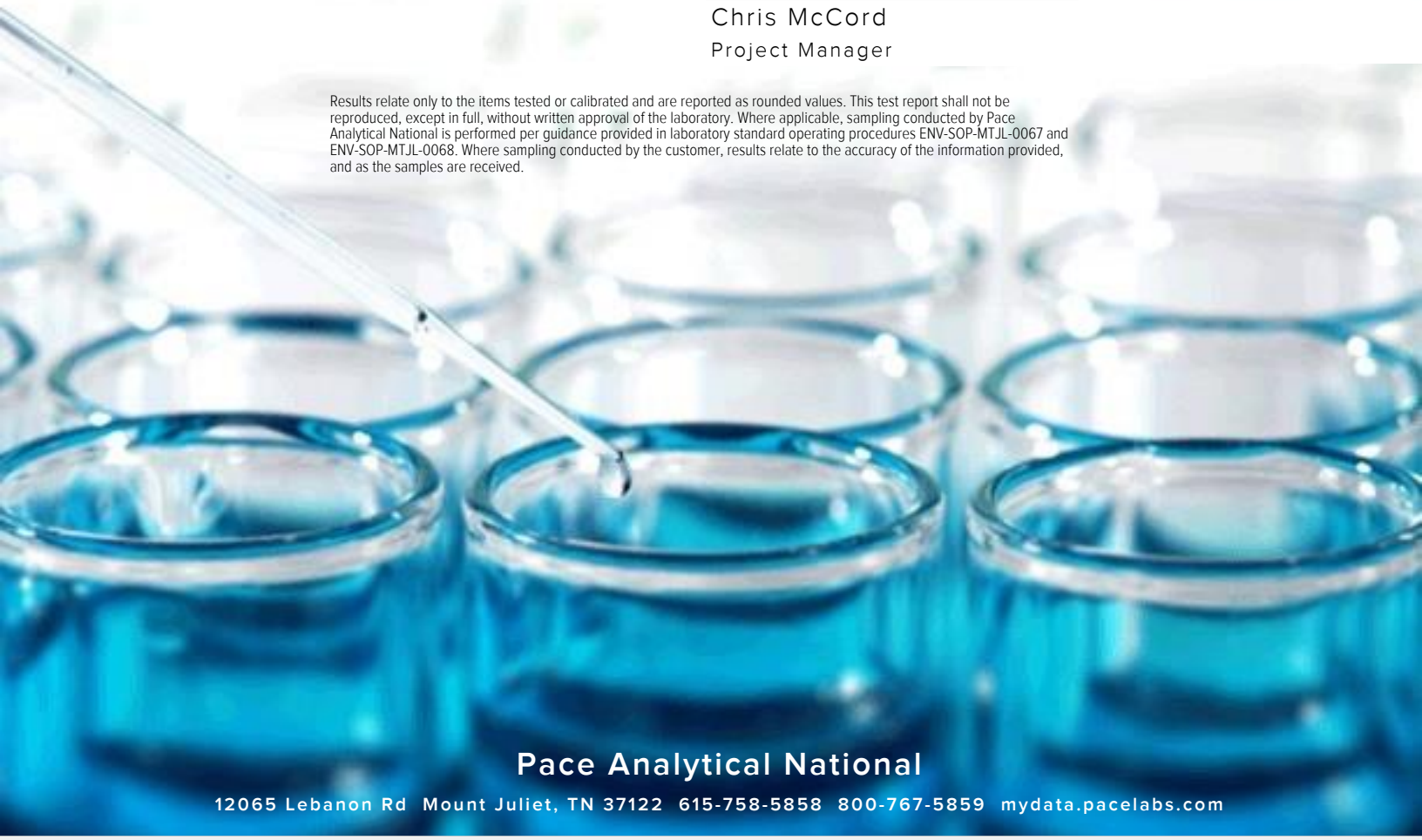
Report To:

Michael Johnson
117 Seaboard Ln.
Suite E100
Franklin, TN 37067

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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MW-4R L1872967-01

Collected by	Collected date/time	Received date/time
	06/23/25 09:00	06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2547241	1	06/27/25 08:13	06/27/25 17:20	AMG	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2550976	1	07/01/25 23:14	07/01/25 23:14	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2548374	1	06/27/25 14:04	06/27/25 20:26	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2550844	5	07/01/25 18:44	07/02/25 09:45	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2546710	1	06/26/25 03:25	06/26/25 03:25	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2553057	1	07/04/25 17:23	07/04/25 17:23	KAM	Mt. Juliet, TN
Mercury by Method 7470A	WG2547269	1	06/30/25 14:11	07/01/25 12:42	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549569	50	07/01/25 14:31	07/06/25 11:26	JDB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/15/25 23:40	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548818	1	06/28/25 13:34	06/28/25 13:34	DYW	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2546322	1.01	06/26/25 05:45	06/27/25 01:59	LJD	Mt. Juliet, TN

MW-5 L1872967-02

Collected by	Collected date/time	Received date/time
	06/24/25 12:37	06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2547152	1	07/04/25 15:05	07/04/25 15:05	ZSA	Mt. Juliet, TN
Mercury by Method 7470A	WG2547269	1	06/30/25 14:11	07/01/25 12:44	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/15/25 23:43	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548818	1	06/28/25 13:54	06/28/25 13:54	DYW	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2546322	1	06/26/25 05:45	06/27/25 02:09	LJD	Mt. Juliet, TN

MW-6R L1872967-03

Collected by	Collected date/time	Received date/time
	06/24/25 14:25	06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2547152	1	07/04/25 15:54	07/04/25 15:54	ZSA	Mt. Juliet, TN
Mercury by Method 7470A	WG2547269	1	06/30/25 14:11	07/01/25 12:47	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/15/25 23:46	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548818	1	06/28/25 14:14	06/28/25 14:14	DYW	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2546322	1	06/26/25 05:45	06/27/25 02:19	LJD	Mt. Juliet, TN

MW-7 L1872967-04

Collected by	Collected date/time	Received date/time
	06/24/25 13:35	06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2547152	1	07/04/25 16:43	07/04/25 16:43	ZSA	Mt. Juliet, TN
Mercury by Method 7470A	WG2547269	1	06/30/25 14:11	07/01/25 12:50	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/15/25 23:49	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548818	1	06/28/25 14:34	06/28/25 14:34	DYW	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2546322	1	06/26/25 05:45	06/27/25 02:29	LJD	Mt. Juliet, TN

SOUTHWEST SPRING L1872967-05

Collected by	Collected date/time	Received date/time
	06/24/25 14:25	06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2547498	1	06/27/25 13:32	06/30/25 08:33	AMG	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2550976	1	07/01/25 23:16	07/01/25 23:16	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2548378	2	06/27/25 14:05	06/27/25 20:30	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2550844	1	07/01/25 18:44	07/02/25 09:47	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2546710	1	06/26/25 03:37	06/26/25 03:37	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2546710	10	06/26/25 03:50	06/26/25 03:50	DLH	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

SOUTHWEST SPRING L1872967-05

Collected by | Collected date/time 06/24/25 14:25 | Received date/time 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9060A	WG2553057	1	07/04/25 18:29	07/04/25 18:29	KAM	Mt. Juliet, TN
Mercury by Method 7470A	WG2547269	1	06/30/25 14:11	07/01/25 12:52	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549569	1	07/01/25 14:31	07/05/25 17:36	JDB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/15/25 23:53	JDB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	5	07/03/25 14:33	07/16/25 10:30	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548818	1	06/28/25 14:55	06/28/25 14:55	DYW	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2546322	1.03	06/26/25 05:45	06/27/25 02:40	LJD	Mt. Juliet, TN

LEACHATE L1872967-06

Collected by | Collected date/time 06/24/25 15:20 | Received date/time 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2546710	5	06/26/25 04:02	06/26/25 04:02	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2547269	10	06/30/25 14:11	07/01/25 12:55	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/16/25 10:33	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548818	10	06/28/25 16:36	06/28/25 16:36	DYW	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2547193	1.13	06/28/25 16:20	06/30/25 22:39	HCS	Mt. Juliet, TN

DUPLICATE L1872967-07

Collected by | Collected date/time 06/24/25 00:00 | Received date/time 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2546710	1	06/26/25 04:27	06/26/25 04:27	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2547269	1	06/30/25 14:11	07/01/25 12:58	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/15/25 23:59	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548818	1	06/28/25 15:15	06/28/25 15:15	DYW	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2547193	1.04	06/28/25 16:20	06/30/25 22:50	HCS	Mt. Juliet, TN

FIELD BLANK L1872967-08

Collected by | Collected date/time 06/24/25 10:00 | Received date/time 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2547591	1	07/05/25 18:42	07/05/25 18:42	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2547269	1	06/30/25 14:11	07/01/25 13:00	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2549645	1	07/03/25 14:33	07/16/25 00:02	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2548818	1	06/28/25 11:12	06/28/25 11:12	DYW	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG2547193	1.04	06/28/25 16:20	06/30/25 23:00	HCS	Mt. Juliet, TN

TRIP BLANK L1872967-09

Collected by | Collected date/time 06/24/25 00:00 | Received date/time 06/25/25 14:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2549473	1	06/30/25 09:37	06/30/25 09:37	DSS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Lab Sample ID	Project Sample ID	Method
L1872967-01	MW-4R	6020B
L1872967-05	SOUTHWEST SPRING	6020B

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	442		20.0	1	06/27/2025 17:20	WG2547241

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	ND		0.100	1	07/01/2025 23:14	WG2550976

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	20.4		20.0	1	06/27/2025 20:26	WG2548374

Wet Chemistry by Method 4500CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	ND		0.0250	5	07/02/2025 09:45	WG2550844

Sample Narrative:

L1872967-01 WG2550844: Dilution due to matrix.

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	3.92		1.00	1	06/26/2025 03:25	WG2546710
Fluoride	ND		0.150	1	06/26/2025 03:25	WG2546710
Nitrate as (N)	ND	T8	0.100	1	06/26/2025 03:25	WG2546710
Sulfate	ND		5.00	1	06/26/2025 03:25	WG2546710

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	3.99		1.00	1	07/04/2025 17:23	WG2553057

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	07/01/2025 12:42	WG2547269

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	07/15/2025 23:40	WG2549645
Arsenic	0.00979		0.00200	1	07/15/2025 23:40	WG2549645
Barium	0.0687		0.00200	1	07/15/2025 23:40	WG2549645
Beryllium	ND		0.00200	1	07/15/2025 23:40	WG2549645
Cadmium	ND		0.00100	1	07/15/2025 23:40	WG2549645
Calcium	27.6		1.00	1	07/15/2025 23:40	WG2549645
Chromium	0.00544		0.00200	1	07/15/2025 23:40	WG2549645
Copper	0.0140		0.00500	1	07/15/2025 23:40	WG2549645
Cobalt	0.0299		0.00200	1	07/15/2025 23:40	WG2549645
Iron	9.24		0.100	1	07/15/2025 23:40	WG2549645
Lead	0.00800		0.00200	1	07/15/2025 23:40	WG2549645

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Magnesium	16.3		1.00	1	07/15/2025 23:40	WG2549645
Manganese,Dissolved	9.65		0.250	50	07/06/2025 11:26	WG2549569
Nickel	0.0284		0.00200	1	07/15/2025 23:40	WG2549645
Potassium	2.96		2.00	1	07/15/2025 23:40	WG2549645
Selenium	ND		0.00200	1	07/15/2025 23:40	WG2549645
Silver	ND		0.00200	1	07/15/2025 23:40	WG2549645
Sodium	ND		2.00	1	07/15/2025 23:40	WG2549645
Thallium	ND		0.00200	1	07/15/2025 23:40	WG2549645
Vanadium	0.00538		0.00500	1	07/15/2025 23:40	WG2549645
Zinc	0.0960		0.0250	1	07/15/2025 23:40	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/28/2025 13:34	WG2548818
Acrylonitrile	ND		0.0100	1	06/28/2025 13:34	WG2548818
Benzene	ND		0.00100	1	06/28/2025 13:34	WG2548818
Bromochloromethane	ND		0.00100	1	06/28/2025 13:34	WG2548818
Bromodichloromethane	ND		0.00100	1	06/28/2025 13:34	WG2548818
Bromoform	ND		0.00100	1	06/28/2025 13:34	WG2548818
Bromomethane	ND	C3	0.00500	1	06/28/2025 13:34	WG2548818
Carbon disulfide	ND		0.00100	1	06/28/2025 13:34	WG2548818
Carbon tetrachloride	ND		0.00100	1	06/28/2025 13:34	WG2548818
Chlorobenzene	ND		0.00100	1	06/28/2025 13:34	WG2548818
Chlorodibromomethane	ND		0.00100	1	06/28/2025 13:34	WG2548818
Chloroethane	ND		0.00500	1	06/28/2025 13:34	WG2548818
Chloroform	ND		0.00500	1	06/28/2025 13:34	WG2548818
Chloromethane	ND	C3	0.00250	1	06/28/2025 13:34	WG2548818
Dibromomethane	ND		0.00100	1	06/28/2025 13:34	WG2548818
1,2-Dichlorobenzene	ND		0.00100	1	06/28/2025 13:34	WG2548818
1,4-Dichlorobenzene	ND		0.00100	1	06/28/2025 13:34	WG2548818
trans-1,4-Dichloro-2-butene	ND	C3	0.00250	1	06/28/2025 13:34	WG2548818
1,1-Dichloroethane	ND		0.00100	1	06/28/2025 13:34	WG2548818
1,2-Dichloroethane	ND		0.00100	1	06/28/2025 13:34	WG2548818
1,1-Dichloroethene	ND		0.00100	1	06/28/2025 13:34	WG2548818
cis-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 13:34	WG2548818
trans-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 13:34	WG2548818
1,2-Dichloropropane	ND		0.00100	1	06/28/2025 13:34	WG2548818
cis-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 13:34	WG2548818
trans-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 13:34	WG2548818
Ethylbenzene	ND		0.00100	1	06/28/2025 13:34	WG2548818
2-Hexanone	ND		0.0100	1	06/28/2025 13:34	WG2548818
Iodomethane	ND	C3	0.0100	1	06/28/2025 13:34	WG2548818
2-Butanone (MEK)	ND		0.0100	1	06/28/2025 13:34	WG2548818
Methylene Chloride	ND		0.00500	1	06/28/2025 13:34	WG2548818
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/28/2025 13:34	WG2548818
Styrene	ND		0.00100	1	06/28/2025 13:34	WG2548818
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 13:34	WG2548818
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 13:34	WG2548818
Tetrachloroethene	ND		0.00100	1	06/28/2025 13:34	WG2548818
Toluene	ND		0.00100	1	06/28/2025 13:34	WG2548818
1,1,1-Trichloroethane	ND		0.00100	1	06/28/2025 13:34	WG2548818
1,1,2-Trichloroethane	ND		0.00100	1	06/28/2025 13:34	WG2548818
Trichloroethene	ND		0.00100	1	06/28/2025 13:34	WG2548818
Trichlorofluoromethane	ND		0.00500	1	06/28/2025 13:34	WG2548818
1,2,3-Trichloropropane	ND		0.00250	1	06/28/2025 13:34	WG2548818

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Vinyl acetate	ND		0.0100	1	06/28/2025 13:34	WG2548818
Vinyl chloride	ND		0.00100	1	06/28/2025 13:34	WG2548818
Xylenes, Total	ND		0.00300	1	06/28/2025 13:34	WG2548818
(S) Toluene-d8	*99.7*		*80.0-120*		*06/28/2025 13:34*	WG2548818
(S) 4-Bromofluorobenzene	*95.4*		*77.0-126*		*06/28/2025 13:34*	WG2548818
(S) 1,2-Dichloroethane-d4	*99.0*		*70.0-130*		*06/28/2025 13:34*	WG2548818

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	ND		0.0000202	1.01	06/27/2025 01:59	WG2546322
1,2-Dibromo-3-Chloropropane	ND		0.0000202	1.01	06/27/2025 01:59	WG2546322
(S) 1,1,1,2-Tetrachloroethane	*103*		*60.0-140*		*06/27/2025 01:59*	WG2546322

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	ND		0.150	1	07/04/2025 15:05	WG2547152

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	07/01/2025 12:44	WG2547269

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	07/15/2025 23:43	WG2549645
Arsenic	ND		0.00200	1	07/15/2025 23:43	WG2549645
Barium	0.00934		0.00200	1	07/15/2025 23:43	WG2549645
Beryllium	ND		0.00200	1	07/15/2025 23:43	WG2549645
Cadmium	ND		0.00100	1	07/15/2025 23:43	WG2549645
Chromium	ND		0.00200	1	07/15/2025 23:43	WG2549645
Copper	ND		0.00500	1	07/15/2025 23:43	WG2549645
Cobalt	ND		0.00200	1	07/15/2025 23:43	WG2549645
Lead	ND		0.00200	1	07/15/2025 23:43	WG2549645
Nickel	ND		0.00200	1	07/15/2025 23:43	WG2549645
Selenium	ND		0.00200	1	07/15/2025 23:43	WG2549645
Silver	ND		0.00200	1	07/15/2025 23:43	WG2549645
Thallium	ND		0.00200	1	07/15/2025 23:43	WG2549645
Vanadium	ND		0.00500	1	07/15/2025 23:43	WG2549645
Zinc	ND		0.0250	1	07/15/2025 23:43	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/28/2025 13:54	WG2548818
Acrylonitrile	ND		0.0100	1	06/28/2025 13:54	WG2548818
Benzene	ND		0.00100	1	06/28/2025 13:54	WG2548818
Bromochloromethane	ND		0.00100	1	06/28/2025 13:54	WG2548818
Bromodichloromethane	ND		0.00100	1	06/28/2025 13:54	WG2548818
Bromoform	ND		0.00100	1	06/28/2025 13:54	WG2548818
Bromomethane	ND	C3	0.00500	1	06/28/2025 13:54	WG2548818
Carbon disulfide	ND		0.00100	1	06/28/2025 13:54	WG2548818
Carbon tetrachloride	ND		0.00100	1	06/28/2025 13:54	WG2548818
Chlorobenzene	ND		0.00100	1	06/28/2025 13:54	WG2548818
Chlorodibromomethane	ND		0.00100	1	06/28/2025 13:54	WG2548818
Chloroethane	ND		0.00500	1	06/28/2025 13:54	WG2548818
Chloroform	ND		0.00500	1	06/28/2025 13:54	WG2548818
Chloromethane	ND	C3	0.00250	1	06/28/2025 13:54	WG2548818
Dibromomethane	ND		0.00100	1	06/28/2025 13:54	WG2548818
1,2-Dichlorobenzene	ND		0.00100	1	06/28/2025 13:54	WG2548818
1,4-Dichlorobenzene	ND		0.00100	1	06/28/2025 13:54	WG2548818
trans-1,4-Dichloro-2-butene	ND	C3	0.00250	1	06/28/2025 13:54	WG2548818
1,1-Dichloroethane	ND		0.00100	1	06/28/2025 13:54	WG2548818
1,2-Dichloroethane	ND		0.00100	1	06/28/2025 13:54	WG2548818
1,1-Dichloroethene	ND		0.00100	1	06/28/2025 13:54	WG2548818
cis-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 13:54	WG2548818
trans-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 13:54	WG2548818
1,2-Dichloropropane	ND		0.00100	1	06/28/2025 13:54	WG2548818
cis-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 13:54	WG2548818

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 13:54	WG2548818
Ethylbenzene	ND		0.00100	1	06/28/2025 13:54	WG2548818
2-Hexanone	ND		0.0100	1	06/28/2025 13:54	WG2548818
Iodomethane	ND	C3	0.0100	1	06/28/2025 13:54	WG2548818
2-Butanone (MEK)	ND		0.0100	1	06/28/2025 13:54	WG2548818
Methylene Chloride	ND		0.00500	1	06/28/2025 13:54	WG2548818
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/28/2025 13:54	WG2548818
Styrene	ND		0.00100	1	06/28/2025 13:54	WG2548818
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 13:54	WG2548818
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 13:54	WG2548818
Tetrachloroethene	ND		0.00100	1	06/28/2025 13:54	WG2548818
Toluene	ND		0.00100	1	06/28/2025 13:54	WG2548818
1,1,1-Trichloroethane	ND		0.00100	1	06/28/2025 13:54	WG2548818
1,1,2-Trichloroethane	ND		0.00100	1	06/28/2025 13:54	WG2548818
Trichloroethene	ND		0.00100	1	06/28/2025 13:54	WG2548818
Trichlorofluoromethane	ND		0.00500	1	06/28/2025 13:54	WG2548818
1,2,3-Trichloropropane	ND		0.00250	1	06/28/2025 13:54	WG2548818
Vinyl acetate	ND		0.0100	1	06/28/2025 13:54	WG2548818
Vinyl chloride	ND		0.00100	1	06/28/2025 13:54	WG2548818
Xylenes, Total	ND		0.00300	1	06/28/2025 13:54	WG2548818
(S) Toluene-d8	*96.7*		*80.0-120*		*06/28/2025 13:54*	WG2548818
(S) 4-Bromofluorobenzene	*93.4*		*77.0-126*		*06/28/2025 13:54*	WG2548818
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*06/28/2025 13:54*	WG2548818

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	ND		0.0000200	1	06/27/2025 02:09	WG2546322
1,2-Dibromo-3-Chloropropane	ND		0.0000200	1	06/27/2025 02:09	WG2546322
(S) 1,1,1,2-Tetrachloroethane	*96.7*		*60.0-140*		*06/27/2025 02:09*	WG2546322

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	ND		0.150	1	07/04/2025 15:54	WG2547152

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	07/01/2025 12:47	WG2547269

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	07/15/2025 23:46	WG2549645
Arsenic	ND		0.00200	1	07/15/2025 23:46	WG2549645
Barium	0.00719		0.00200	1	07/15/2025 23:46	WG2549645
Beryllium	ND		0.00200	1	07/15/2025 23:46	WG2549645
Cadmium	ND		0.00100	1	07/15/2025 23:46	WG2549645
Chromium	ND		0.00200	1	07/15/2025 23:46	WG2549645
Copper	ND		0.00500	1	07/15/2025 23:46	WG2549645
Cobalt	ND		0.00200	1	07/15/2025 23:46	WG2549645
Lead	ND		0.00200	1	07/15/2025 23:46	WG2549645
Nickel	0.00785		0.00200	1	07/15/2025 23:46	WG2549645
Selenium	ND		0.00200	1	07/15/2025 23:46	WG2549645
Silver	ND		0.00200	1	07/15/2025 23:46	WG2549645
Thallium	ND		0.00200	1	07/15/2025 23:46	WG2549645
Vanadium	ND		0.00500	1	07/15/2025 23:46	WG2549645
Zinc	ND		0.0250	1	07/15/2025 23:46	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/28/2025 14:14	WG2548818
Acrylonitrile	ND		0.0100	1	06/28/2025 14:14	WG2548818
Benzene	ND		0.00100	1	06/28/2025 14:14	WG2548818
Bromochloromethane	ND		0.00100	1	06/28/2025 14:14	WG2548818
Bromodichloromethane	ND		0.00100	1	06/28/2025 14:14	WG2548818
Bromoform	ND		0.00100	1	06/28/2025 14:14	WG2548818
Bromomethane	ND	C3	0.00500	1	06/28/2025 14:14	WG2548818
Carbon disulfide	ND		0.00100	1	06/28/2025 14:14	WG2548818
Carbon tetrachloride	ND		0.00100	1	06/28/2025 14:14	WG2548818
Chlorobenzene	ND		0.00100	1	06/28/2025 14:14	WG2548818
Chlorodibromomethane	ND		0.00100	1	06/28/2025 14:14	WG2548818
Chloroethane	ND		0.00500	1	06/28/2025 14:14	WG2548818
Chloroform	ND		0.00500	1	06/28/2025 14:14	WG2548818
Chloromethane	ND	C3	0.00250	1	06/28/2025 14:14	WG2548818
Dibromomethane	ND		0.00100	1	06/28/2025 14:14	WG2548818
1,2-Dichlorobenzene	ND		0.00100	1	06/28/2025 14:14	WG2548818
1,4-Dichlorobenzene	ND		0.00100	1	06/28/2025 14:14	WG2548818
trans-1,4-Dichloro-2-butene	ND	C3	0.00250	1	06/28/2025 14:14	WG2548818
1,1-Dichloroethane	ND		0.00100	1	06/28/2025 14:14	WG2548818
1,2-Dichloroethane	ND		0.00100	1	06/28/2025 14:14	WG2548818
1,1-Dichloroethene	ND		0.00100	1	06/28/2025 14:14	WG2548818
cis-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 14:14	WG2548818
trans-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 14:14	WG2548818
1,2-Dichloropropane	ND		0.00100	1	06/28/2025 14:14	WG2548818
cis-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 14:14	WG2548818

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 14:14	WG2548818
Ethylbenzene	ND		0.00100	1	06/28/2025 14:14	WG2548818
2-Hexanone	ND		0.0100	1	06/28/2025 14:14	WG2548818
Iodomethane	ND	C3	0.0100	1	06/28/2025 14:14	WG2548818
2-Butanone (MEK)	ND		0.0100	1	06/28/2025 14:14	WG2548818
Methylene Chloride	ND		0.00500	1	06/28/2025 14:14	WG2548818
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/28/2025 14:14	WG2548818
Styrene	ND		0.00100	1	06/28/2025 14:14	WG2548818
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 14:14	WG2548818
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 14:14	WG2548818
Tetrachloroethene	ND		0.00100	1	06/28/2025 14:14	WG2548818
Toluene	ND		0.00100	1	06/28/2025 14:14	WG2548818
1,1,1-Trichloroethane	ND		0.00100	1	06/28/2025 14:14	WG2548818
1,1,2-Trichloroethane	ND		0.00100	1	06/28/2025 14:14	WG2548818
Trichloroethene	ND		0.00100	1	06/28/2025 14:14	WG2548818
Trichlorofluoromethane	ND		0.00500	1	06/28/2025 14:14	WG2548818
1,2,3-Trichloropropane	ND		0.00250	1	06/28/2025 14:14	WG2548818
Vinyl acetate	ND		0.0100	1	06/28/2025 14:14	WG2548818
Vinyl chloride	ND		0.00100	1	06/28/2025 14:14	WG2548818
Xylenes, Total	ND		0.00300	1	06/28/2025 14:14	WG2548818
(S) Toluene-d8	*99.8*		*80.0-120*		*06/28/2025 14:14*	WG2548818
(S) 4-Bromofluorobenzene	*96.4*		*77.0-126*		*06/28/2025 14:14*	WG2548818
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*06/28/2025 14:14*	WG2548818

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	ND		0.0000200	1	06/27/2025 02:19	WG2546322
1,2-Dibromo-3-Chloropropane	ND		0.0000200	1	06/27/2025 02:19	WG2546322
(S) 1,1,1,2-Tetrachloroethane	*94.2*		*60.0-140*		*06/27/2025 02:19*	WG2546322

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	ND		0.150	1	07/04/2025 16:43	WG2547152

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	07/01/2025 12:50	WG2547269

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	07/15/2025 23:49	WG2549645
Arsenic	ND		0.00200	1	07/15/2025 23:49	WG2549645
Barium	0.0116		0.00200	1	07/15/2025 23:49	WG2549645
Beryllium	ND		0.00200	1	07/15/2025 23:49	WG2549645
Cadmium	ND		0.00100	1	07/15/2025 23:49	WG2549645
Chromium	ND		0.00200	1	07/15/2025 23:49	WG2549645
Copper	ND		0.00500	1	07/15/2025 23:49	WG2549645
Cobalt	ND		0.00200	1	07/15/2025 23:49	WG2549645
Lead	ND		0.00200	1	07/15/2025 23:49	WG2549645
Nickel	0.00348		0.00200	1	07/15/2025 23:49	WG2549645
Selenium	ND		0.00200	1	07/15/2025 23:49	WG2549645
Silver	ND		0.00200	1	07/15/2025 23:49	WG2549645
Thallium	ND		0.00200	1	07/15/2025 23:49	WG2549645
Vanadium	ND		0.00500	1	07/15/2025 23:49	WG2549645
Zinc	ND		0.0250	1	07/15/2025 23:49	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/28/2025 14:34	WG2548818
Acrylonitrile	ND		0.0100	1	06/28/2025 14:34	WG2548818
Benzene	ND		0.00100	1	06/28/2025 14:34	WG2548818
Bromochloromethane	ND		0.00100	1	06/28/2025 14:34	WG2548818
Bromodichloromethane	ND		0.00100	1	06/28/2025 14:34	WG2548818
Bromoform	ND		0.00100	1	06/28/2025 14:34	WG2548818
Bromomethane	ND	C3	0.00500	1	06/28/2025 14:34	WG2548818
Carbon disulfide	ND		0.00100	1	06/28/2025 14:34	WG2548818
Carbon tetrachloride	ND		0.00100	1	06/28/2025 14:34	WG2548818
Chlorobenzene	ND		0.00100	1	06/28/2025 14:34	WG2548818
Chlorodibromomethane	ND		0.00100	1	06/28/2025 14:34	WG2548818
Chloroethane	ND		0.00500	1	06/28/2025 14:34	WG2548818
Chloroform	ND		0.00500	1	06/28/2025 14:34	WG2548818
Chloromethane	ND	C3	0.00250	1	06/28/2025 14:34	WG2548818
Dibromomethane	ND		0.00100	1	06/28/2025 14:34	WG2548818
1,2-Dichlorobenzene	ND		0.00100	1	06/28/2025 14:34	WG2548818
1,4-Dichlorobenzene	ND		0.00100	1	06/28/2025 14:34	WG2548818
trans-1,4-Dichloro-2-butene	ND	C3	0.00250	1	06/28/2025 14:34	WG2548818
1,1-Dichloroethane	ND		0.00100	1	06/28/2025 14:34	WG2548818
1,2-Dichloroethane	ND		0.00100	1	06/28/2025 14:34	WG2548818
1,1-Dichloroethene	ND		0.00100	1	06/28/2025 14:34	WG2548818
cis-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 14:34	WG2548818
trans-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 14:34	WG2548818
1,2-Dichloropropane	ND		0.00100	1	06/28/2025 14:34	WG2548818
cis-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 14:34	WG2548818

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 14:34	WG2548818
Ethylbenzene	ND		0.00100	1	06/28/2025 14:34	WG2548818
2-Hexanone	ND		0.0100	1	06/28/2025 14:34	WG2548818
Iodomethane	ND	C3	0.0100	1	06/28/2025 14:34	WG2548818
2-Butanone (MEK)	ND		0.0100	1	06/28/2025 14:34	WG2548818
Methylene Chloride	ND		0.00500	1	06/28/2025 14:34	WG2548818
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/28/2025 14:34	WG2548818
Styrene	ND		0.00100	1	06/28/2025 14:34	WG2548818
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 14:34	WG2548818
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 14:34	WG2548818
Tetrachloroethene	ND		0.00100	1	06/28/2025 14:34	WG2548818
Toluene	ND		0.00100	1	06/28/2025 14:34	WG2548818
1,1,1-Trichloroethane	ND		0.00100	1	06/28/2025 14:34	WG2548818
1,1,2-Trichloroethane	ND		0.00100	1	06/28/2025 14:34	WG2548818
Trichloroethene	ND		0.00100	1	06/28/2025 14:34	WG2548818
Trichlorofluoromethane	ND		0.00500	1	06/28/2025 14:34	WG2548818
1,2,3-Trichloropropane	ND		0.00250	1	06/28/2025 14:34	WG2548818
Vinyl acetate	ND		0.0100	1	06/28/2025 14:34	WG2548818
Vinyl chloride	ND		0.00100	1	06/28/2025 14:34	WG2548818
Xylenes, Total	ND		0.00300	1	06/28/2025 14:34	WG2548818
(S) Toluene-d8	*99.5*		*80.0-120*		*06/28/2025 14:34*	WG2548818
(S) 4-Bromofluorobenzene	*94.4*		*77.0-126*		*06/28/2025 14:34*	WG2548818
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*06/28/2025 14:34*	WG2548818

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	ND		0.0000200	1	06/27/2025 02:29	WG2546322
1,2-Dibromo-3-Chloropropane	ND		0.0000200	1	06/27/2025 02:29	WG2546322
(S) 1,1,1,2-Tetrachloroethane	*98.0*		*60.0-140*		*06/27/2025 02:29*	WG2546322

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1480		50.0	1	06/30/2025 08:33	WG2547498

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	6.31		0.100	1	07/01/2025 23:16	WG2550976

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	ND		40.0	2	06/27/2025 20:30	WG2548378

Sample Narrative:

L1872967-05 WG2548378: Dilution due to matrix.

Wet Chemistry by Method 4500CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	ND		0.00500	1	07/02/2025 09:47	WG2550844

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	720		10.0	10	06/26/2025 03:50	WG2546710
Fluoride	0.215		0.150	1	06/26/2025 03:37	WG2546710
Nitrate as (N)	ND		0.100	1	06/26/2025 03:37	WG2546710
Sulfate	ND		5.00	1	06/26/2025 03:37	WG2546710

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	ND		1.00	1	07/04/2025 18:29	WG2553057

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	07/01/2025 12:52	WG2547269

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	07/15/2025 23:53	WG2549645
Arsenic	0.0205		0.00200	1	07/15/2025 23:53	WG2549645
Barium	0.468		0.00200	1	07/15/2025 23:53	WG2549645
Beryllium	ND		0.00200	1	07/15/2025 23:53	WG2549645
Cadmium	ND		0.00100	1	07/15/2025 23:53	WG2549645
Calcium	118		1.00	1	07/15/2025 23:53	WG2549645
Chromium	ND		0.00200	1	07/15/2025 23:53	WG2549645
Copper	ND		0.00500	1	07/15/2025 23:53	WG2549645
Cobalt	0.0168		0.00200	1	07/15/2025 23:53	WG2549645
Iron	16.2		0.100	1	07/15/2025 23:53	WG2549645
Lead	ND		0.00200	1	07/15/2025 23:53	WG2549645

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Magnesium	84.6		1.00	1	07/15/2025 23:53	WG2549645
Manganese,Dissolved	1.60		0.00500	1	07/05/2025 17:36	WG2549569
Nickel	0.0420		0.00200	1	07/15/2025 23:53	WG2549645
Potassium	66.3		10.0	5	07/16/2025 10:30	WG2549645
Selenium	ND		0.00200	1	07/15/2025 23:53	WG2549645
Silver	ND		0.00200	1	07/15/2025 23:53	WG2549645
Sodium	265		2.00	1	07/15/2025 23:53	WG2549645
Thallium	ND		0.00200	1	07/15/2025 23:53	WG2549645
Vanadium	ND		0.00500	1	07/15/2025 23:53	WG2549645
Zinc	ND		0.0250	1	07/15/2025 23:53	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/28/2025 14:55	WG2548818
Acrylonitrile	ND		0.0100	1	06/28/2025 14:55	WG2548818
Benzene	ND		0.00100	1	06/28/2025 14:55	WG2548818
Bromochloromethane	ND		0.00100	1	06/28/2025 14:55	WG2548818
Bromodichloromethane	ND		0.00100	1	06/28/2025 14:55	WG2548818
Bromoform	ND		0.00100	1	06/28/2025 14:55	WG2548818
Bromomethane	ND	C3	0.00500	1	06/28/2025 14:55	WG2548818
Carbon disulfide	ND		0.00100	1	06/28/2025 14:55	WG2548818
Carbon tetrachloride	ND		0.00100	1	06/28/2025 14:55	WG2548818
Chlorobenzene	ND		0.00100	1	06/28/2025 14:55	WG2548818
Chlorodibromomethane	ND		0.00100	1	06/28/2025 14:55	WG2548818
Chloroethane	ND		0.00500	1	06/28/2025 14:55	WG2548818
Chloroform	ND		0.00500	1	06/28/2025 14:55	WG2548818
Chloromethane	ND	C3	0.00250	1	06/28/2025 14:55	WG2548818
Dibromomethane	ND		0.00100	1	06/28/2025 14:55	WG2548818
1,2-Dichlorobenzene	ND		0.00100	1	06/28/2025 14:55	WG2548818
1,4-Dichlorobenzene	0.00109		0.00100	1	06/28/2025 14:55	WG2548818
trans-1,4-Dichloro-2-butene	ND	C3	0.00250	1	06/28/2025 14:55	WG2548818
1,1-Dichloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548818
1,2-Dichloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548818
1,1-Dichloroethene	ND		0.00100	1	06/28/2025 14:55	WG2548818
cis-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 14:55	WG2548818
trans-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 14:55	WG2548818
1,2-Dichloropropane	ND		0.00100	1	06/28/2025 14:55	WG2548818
cis-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 14:55	WG2548818
trans-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 14:55	WG2548818
Ethylbenzene	ND		0.00100	1	06/28/2025 14:55	WG2548818
2-Hexanone	ND		0.0100	1	06/28/2025 14:55	WG2548818
Iodomethane	ND	C3	0.0100	1	06/28/2025 14:55	WG2548818
2-Butanone (MEK)	ND		0.0100	1	06/28/2025 14:55	WG2548818
Methylene Chloride	ND		0.00500	1	06/28/2025 14:55	WG2548818
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/28/2025 14:55	WG2548818
Styrene	ND		0.00100	1	06/28/2025 14:55	WG2548818
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548818
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548818
Tetrachloroethene	ND		0.00100	1	06/28/2025 14:55	WG2548818
Toluene	ND		0.00100	1	06/28/2025 14:55	WG2548818
1,1,1-Trichloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548818
1,1,2-Trichloroethane	ND		0.00100	1	06/28/2025 14:55	WG2548818
Trichloroethene	ND		0.00100	1	06/28/2025 14:55	WG2548818
Trichlorofluoromethane	ND		0.00500	1	06/28/2025 14:55	WG2548818
1,2,3-Trichloropropane	ND		0.00250	1	06/28/2025 14:55	WG2548818

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Vinyl acetate	ND		0.0100	1	06/28/2025 14:55	WG2548818
Vinyl chloride	ND		0.00100	1	06/28/2025 14:55	WG2548818
Xylenes, Total	ND		0.00300	1	06/28/2025 14:55	WG2548818
(S) Toluene-d8	*99.9*		*80.0-120*		*06/28/2025 14:55*	WG2548818
(S) 4-Bromofluorobenzene	*96.6*		*77.0-126*		*06/28/2025 14:55*	WG2548818
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*06/28/2025 14:55*	WG2548818

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	ND		0.0000206	1.03	06/27/2025 02:40	WG2546322
1,2-Dibromo-3-Chloropropane	ND		0.0000206	1.03	06/27/2025 02:40	WG2546322
(S) 1,1,1,2-Tetrachloroethane	*95.0*		*60.0-140*		*06/27/2025 02:40*	WG2546322

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	1.55		0.750	5	06/26/2025 04:02	WG2546710

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.00200	10	07/01/2025 12:55	WG2547269

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	07/16/2025 10:33	WG2549645
Arsenic	0.0759		0.00200	1	07/16/2025 10:33	WG2549645
Barium	0.402		0.00200	1	07/16/2025 10:33	WG2549645
Beryllium	ND		0.00200	1	07/16/2025 10:33	WG2549645
Cadmium	ND		0.00100	1	07/16/2025 10:33	WG2549645
Chromium	0.148		0.00200	1	07/16/2025 10:33	WG2549645
Copper	0.415		0.00500	1	07/16/2025 10:33	WG2549645
Cobalt	0.0729		0.00200	1	07/16/2025 10:33	WG2549645
Lead	0.0123		0.00200	1	07/16/2025 10:33	WG2549645
Nickel	0.193		0.00200	1	07/16/2025 10:33	WG2549645
Selenium	0.00217		0.00200	1	07/16/2025 10:33	WG2549645
Silver	ND		0.00200	1	07/16/2025 10:33	WG2549645
Thallium	ND		0.00200	1	07/16/2025 10:33	WG2549645
Vanadium	0.0502		0.00500	1	07/16/2025 10:33	WG2549645
Zinc	0.276		0.0250	1	07/16/2025 10:33	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.500	10	06/28/2025 16:36	WG2548818
Acrylonitrile	ND		0.100	10	06/28/2025 16:36	WG2548818
Benzene	ND		0.0100	10	06/28/2025 16:36	WG2548818
Bromochloromethane	ND		0.0100	10	06/28/2025 16:36	WG2548818
Bromodichloromethane	ND		0.0100	10	06/28/2025 16:36	WG2548818
Bromoform	ND		0.0100	10	06/28/2025 16:36	WG2548818
Bromomethane	ND	C3	0.0500	10	06/28/2025 16:36	WG2548818
Carbon disulfide	ND		0.0100	10	06/28/2025 16:36	WG2548818
Carbon tetrachloride	ND		0.0100	10	06/28/2025 16:36	WG2548818
Chlorobenzene	ND		0.0100	10	06/28/2025 16:36	WG2548818
Chlorodibromomethane	ND		0.0100	10	06/28/2025 16:36	WG2548818
Chloroethane	ND		0.0500	10	06/28/2025 16:36	WG2548818
Chloroform	ND		0.0500	10	06/28/2025 16:36	WG2548818
Chloromethane	ND	C3	0.0250	10	06/28/2025 16:36	WG2548818
Dibromomethane	ND		0.0100	10	06/28/2025 16:36	WG2548818
1,2-Dichlorobenzene	ND		0.0100	10	06/28/2025 16:36	WG2548818
1,4-Dichlorobenzene	ND		0.0100	10	06/28/2025 16:36	WG2548818
trans-1,4-Dichloro-2-butene	ND	C3	0.0250	10	06/28/2025 16:36	WG2548818
1,1-Dichloroethane	ND		0.0100	10	06/28/2025 16:36	WG2548818
1,2-Dichloroethane	ND		0.0100	10	06/28/2025 16:36	WG2548818
1,1-Dichloroethene	ND		0.0100	10	06/28/2025 16:36	WG2548818
cis-1,2-Dichloroethene	ND		0.0100	10	06/28/2025 16:36	WG2548818
trans-1,2-Dichloroethene	ND		0.0100	10	06/28/2025 16:36	WG2548818
1,2-Dichloropropane	ND		0.0100	10	06/28/2025 16:36	WG2548818
cis-1,3-Dichloropropene	ND		0.0100	10	06/28/2025 16:36	WG2548818

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,3-Dichloropropene	ND		0.0100	10	06/28/2025 16:36	WG2548818
Ethylbenzene	ND		0.0100	10	06/28/2025 16:36	WG2548818
2-Hexanone	ND		0.100	10	06/28/2025 16:36	WG2548818
Iodomethane	ND	C3	0.100	10	06/28/2025 16:36	WG2548818
2-Butanone (MEK)	ND		0.100	10	06/28/2025 16:36	WG2548818
Methylene Chloride	ND		0.0500	10	06/28/2025 16:36	WG2548818
4-Methyl-2-pentanone (MIBK)	ND		0.100	10	06/28/2025 16:36	WG2548818
Styrene	ND		0.0100	10	06/28/2025 16:36	WG2548818
1,1,1,2-Tetrachloroethane	ND		0.0100	10	06/28/2025 16:36	WG2548818
1,1,2,2-Tetrachloroethane	ND		0.0100	10	06/28/2025 16:36	WG2548818
Tetrachloroethene	ND		0.0100	10	06/28/2025 16:36	WG2548818
Toluene	ND		0.0100	10	06/28/2025 16:36	WG2548818
1,1,1-Trichloroethane	ND		0.0100	10	06/28/2025 16:36	WG2548818
1,1,2-Trichloroethane	ND		0.0100	10	06/28/2025 16:36	WG2548818
Trichloroethene	ND		0.0100	10	06/28/2025 16:36	WG2548818
Trichlorofluoromethane	ND		0.0500	10	06/28/2025 16:36	WG2548818
1,2,3-Trichloropropane	ND		0.0250	10	06/28/2025 16:36	WG2548818
Vinyl acetate	ND		0.100	10	06/28/2025 16:36	WG2548818
Vinyl chloride	ND		0.0100	10	06/28/2025 16:36	WG2548818
Xylenes, Total	ND		0.0300	10	06/28/2025 16:36	WG2548818
(S) Toluene-d8	*101*		*80.0-120*		*06/28/2025 16:36*	WG2548818
(S) 4-Bromofluorobenzene	*98.1*		*77.0-126*		*06/28/2025 16:36*	WG2548818
(S) 1,2-Dichloroethane-d4	*102*		*70.0-130*		*06/28/2025 16:36*	WG2548818

Sample Narrative:

L1872967-06 WG2548818: Dilution due to foam.

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	ND		0.0000226	1.13	06/30/2025 22:39	WG2547193
1,2-Dibromo-3-Chloropropane	ND		0.0000226	1.13	06/30/2025 22:39	WG2547193
(S) 1,1,1,2-Tetrachloroethane	*114*		*60.0-140*		*06/30/2025 22:39*	WG2547193

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Fluoride	ND		0.150	1	06/26/2025 04:27	WG2546710

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	07/01/2025 12:58	WG2547269

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.00400	1	07/15/2025 23:59	WG2549645
Arsenic	ND		0.00200	1	07/15/2025 23:59	WG2549645
Barium	0.0104		0.00200	1	07/15/2025 23:59	WG2549645
Beryllium	ND		0.00200	1	07/15/2025 23:59	WG2549645
Cadmium	ND		0.00100	1	07/15/2025 23:59	WG2549645
Chromium	ND		0.00200	1	07/15/2025 23:59	WG2549645
Copper	ND		0.00500	1	07/15/2025 23:59	WG2549645
Cobalt	ND		0.00200	1	07/15/2025 23:59	WG2549645
Lead	ND		0.00200	1	07/15/2025 23:59	WG2549645
Nickel	0.00348		0.00200	1	07/15/2025 23:59	WG2549645
Selenium	ND		0.00200	1	07/15/2025 23:59	WG2549645
Silver	ND		0.00200	1	07/15/2025 23:59	WG2549645
Thallium	ND		0.00200	1	07/15/2025 23:59	WG2549645
Vanadium	ND		0.00500	1	07/15/2025 23:59	WG2549645
Zinc	ND		0.0250	1	07/15/2025 23:59	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Acetone	ND		0.0500	1	06/28/2025 15:15	WG2548818
Acrylonitrile	ND		0.0100	1	06/28/2025 15:15	WG2548818
Benzene	ND		0.00100	1	06/28/2025 15:15	WG2548818
Bromochloromethane	ND		0.00100	1	06/28/2025 15:15	WG2548818
Bromodichloromethane	ND		0.00100	1	06/28/2025 15:15	WG2548818
Bromoform	ND		0.00100	1	06/28/2025 15:15	WG2548818
Bromomethane	ND	C3	0.00500	1	06/28/2025 15:15	WG2548818
Carbon disulfide	ND		0.00100	1	06/28/2025 15:15	WG2548818
Carbon tetrachloride	ND		0.00100	1	06/28/2025 15:15	WG2548818
Chlorobenzene	ND		0.00100	1	06/28/2025 15:15	WG2548818
Chlorodibromomethane	ND		0.00100	1	06/28/2025 15:15	WG2548818
Chloroethane	ND		0.00500	1	06/28/2025 15:15	WG2548818
Chloroform	ND		0.00500	1	06/28/2025 15:15	WG2548818
Chloromethane	ND	C3	0.00250	1	06/28/2025 15:15	WG2548818
Dibromomethane	ND		0.00100	1	06/28/2025 15:15	WG2548818
1,2-Dichlorobenzene	ND		0.00100	1	06/28/2025 15:15	WG2548818
1,4-Dichlorobenzene	ND		0.00100	1	06/28/2025 15:15	WG2548818
trans-1,4-Dichloro-2-butene	ND	C3	0.00250	1	06/28/2025 15:15	WG2548818
1,1-Dichloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548818
1,2-Dichloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548818
1,1-Dichloroethene	ND		0.00100	1	06/28/2025 15:15	WG2548818
cis-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 15:15	WG2548818
trans-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 15:15	WG2548818
1,2-Dichloropropane	ND		0.00100	1	06/28/2025 15:15	WG2548818
cis-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 15:15	WG2548818

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 15:15	WG2548818
Ethylbenzene	ND		0.00100	1	06/28/2025 15:15	WG2548818
2-Hexanone	ND		0.0100	1	06/28/2025 15:15	WG2548818
Iodomethane	ND	C3	0.0100	1	06/28/2025 15:15	WG2548818
2-Butanone (MEK)	ND		0.0100	1	06/28/2025 15:15	WG2548818
Methylene Chloride	ND		0.00500	1	06/28/2025 15:15	WG2548818
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/28/2025 15:15	WG2548818
Styrene	ND		0.00100	1	06/28/2025 15:15	WG2548818
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548818
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548818
Tetrachloroethene	ND		0.00100	1	06/28/2025 15:15	WG2548818
Toluene	ND		0.00100	1	06/28/2025 15:15	WG2548818
1,1,1-Trichloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548818
1,1,2-Trichloroethane	ND		0.00100	1	06/28/2025 15:15	WG2548818
Trichloroethene	ND		0.00100	1	06/28/2025 15:15	WG2548818
Trichlorofluoromethane	ND		0.00500	1	06/28/2025 15:15	WG2548818
1,2,3-Trichloropropane	ND		0.00250	1	06/28/2025 15:15	WG2548818
Vinyl acetate	ND		0.0100	1	06/28/2025 15:15	WG2548818
Vinyl chloride	ND		0.00100	1	06/28/2025 15:15	WG2548818
Xylenes, Total	ND		0.00300	1	06/28/2025 15:15	WG2548818
(S) Toluene-d8	*98.8*		*80.0-120*		*06/28/2025 15:15*	WG2548818
(S) 4-Bromofluorobenzene	*93.6*		*77.0-126*		*06/28/2025 15:15*	WG2548818
(S) 1,2-Dichloroethane-d4	*100*		*70.0-130*		*06/28/2025 15:15*	WG2548818

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	ND		0.0000208	1.04	06/30/2025 22:50	WG2547193
1,2-Dibromo-3-Chloropropane	ND		0.0000208	1.04	06/30/2025 22:50	WG2547193
(S) 1,1,1,2-Tetrachloroethane	*112*		*60.0-140*		*06/30/2025 22:50*	WG2547193

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Fluoride	ND		0.150	1	07/05/2025 18:42	WG2547591

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	07/01/2025 13:00	WG2547269

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	07/16/2025 00:02	WG2549645
Arsenic	ND		0.00200	1	07/16/2025 00:02	WG2549645
Barium	ND		0.00200	1	07/16/2025 00:02	WG2549645
Beryllium	ND		0.00200	1	07/16/2025 00:02	WG2549645
Cadmium	ND		0.00100	1	07/16/2025 00:02	WG2549645
Chromium	ND		0.00200	1	07/16/2025 00:02	WG2549645
Copper	ND		0.00500	1	07/16/2025 00:02	WG2549645
Cobalt	ND		0.00200	1	07/16/2025 00:02	WG2549645
Lead	ND		0.00200	1	07/16/2025 00:02	WG2549645
Nickel	ND		0.00200	1	07/16/2025 00:02	WG2549645
Selenium	ND		0.00200	1	07/16/2025 00:02	WG2549645
Silver	ND		0.00200	1	07/16/2025 00:02	WG2549645
Thallium	ND		0.00200	1	07/16/2025 00:02	WG2549645
Vanadium	ND		0.00500	1	07/16/2025 00:02	WG2549645
Zinc	ND		0.0250	1	07/16/2025 00:02	WG2549645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	06/28/2025 11:12	WG2548818
Acrylonitrile	ND		0.0100	1	06/28/2025 11:12	WG2548818
Benzene	ND		0.00100	1	06/28/2025 11:12	WG2548818
Bromochloromethane	ND		0.00100	1	06/28/2025 11:12	WG2548818
Bromodichloromethane	ND		0.00100	1	06/28/2025 11:12	WG2548818
Bromoform	ND		0.00100	1	06/28/2025 11:12	WG2548818
Bromomethane	ND	C3	0.00500	1	06/28/2025 11:12	WG2548818
Carbon disulfide	ND		0.00100	1	06/28/2025 11:12	WG2548818
Carbon tetrachloride	ND		0.00100	1	06/28/2025 11:12	WG2548818
Chlorobenzene	ND		0.00100	1	06/28/2025 11:12	WG2548818
Chlorodibromomethane	ND		0.00100	1	06/28/2025 11:12	WG2548818
Chloroethane	ND		0.00500	1	06/28/2025 11:12	WG2548818
Chloroform	ND		0.00500	1	06/28/2025 11:12	WG2548818
Chloromethane	ND	C3	0.00250	1	06/28/2025 11:12	WG2548818
Dibromomethane	ND		0.00100	1	06/28/2025 11:12	WG2548818
1,2-Dichlorobenzene	ND		0.00100	1	06/28/2025 11:12	WG2548818
1,4-Dichlorobenzene	ND		0.00100	1	06/28/2025 11:12	WG2548818
trans-1,4-Dichloro-2-butene	ND	C3	0.00250	1	06/28/2025 11:12	WG2548818
1,1-Dichloroethane	ND		0.00100	1	06/28/2025 11:12	WG2548818
1,2-Dichloroethane	ND		0.00100	1	06/28/2025 11:12	WG2548818
1,1-Dichloroethene	ND		0.00100	1	06/28/2025 11:12	WG2548818
cis-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 11:12	WG2548818
trans-1,2-Dichloroethene	ND		0.00100	1	06/28/2025 11:12	WG2548818
1,2-Dichloropropane	ND		0.00100	1	06/28/2025 11:12	WG2548818
cis-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 11:12	WG2548818

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
trans-1,3-Dichloropropene	ND		0.00100	1	06/28/2025 11:12	WG2548818
Ethylbenzene	ND		0.00100	1	06/28/2025 11:12	WG2548818
2-Hexanone	ND		0.0100	1	06/28/2025 11:12	WG2548818
Iodomethane	ND	C3	0.0100	1	06/28/2025 11:12	WG2548818
2-Butanone (MEK)	ND		0.0100	1	06/28/2025 11:12	WG2548818
Methylene Chloride	ND		0.00500	1	06/28/2025 11:12	WG2548818
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/28/2025 11:12	WG2548818
Styrene	ND		0.00100	1	06/28/2025 11:12	WG2548818
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 11:12	WG2548818
1,1,2,2-Tetrachloroethane	ND		0.00100	1	06/28/2025 11:12	WG2548818
Tetrachloroethene	ND		0.00100	1	06/28/2025 11:12	WG2548818
Toluene	ND		0.00100	1	06/28/2025 11:12	WG2548818
1,1,1-Trichloroethane	ND		0.00100	1	06/28/2025 11:12	WG2548818
1,1,2-Trichloroethane	ND		0.00100	1	06/28/2025 11:12	WG2548818
Trichloroethene	ND		0.00100	1	06/28/2025 11:12	WG2548818
Trichlorofluoromethane	ND		0.00500	1	06/28/2025 11:12	WG2548818
1,2,3-Trichloropropane	ND		0.00250	1	06/28/2025 11:12	WG2548818
Vinyl acetate	ND		0.0100	1	06/28/2025 11:12	WG2548818
Vinyl chloride	ND		0.00100	1	06/28/2025 11:12	WG2548818
Xylenes, Total	ND		0.00300	1	06/28/2025 11:12	WG2548818
(S) Toluene-d8	*99.2*		*80.0-120*		*06/28/2025 11:12*	WG2548818
(S) 4-Bromofluorobenzene	*94.1*		*77.0-126*		*06/28/2025 11:12*	WG2548818
(S) 1,2-Dichloroethane-d4	*95.6*		*70.0-130*		*06/28/2025 11:12*	WG2548818

EDB / DBCP by Method 8011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ethylene Dibromide	ND		0.0000208	1.04	06/30/2025 23:00	WG2547193
1,2-Dibromo-3-Chloropropane	ND		0.0000208	1.04	06/30/2025 23:00	WG2547193
(S) 1,1,1,2-Tetrachloroethane	*112*		*60.0-140*		*06/30/2025 23:00*	WG2547193

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	C3 J3	0.0500	1	06/30/2025 09:37	WG2549473
Acrylonitrile	ND		0.0100	1	06/30/2025 09:37	WG2549473
Benzene	ND		0.00100	1	06/30/2025 09:37	WG2549473
Bromochloromethane	ND		0.00100	1	06/30/2025 09:37	WG2549473
Bromodichloromethane	ND		0.00100	1	06/30/2025 09:37	WG2549473
Bromoform	ND	C3 J4	0.00100	1	06/30/2025 09:37	WG2549473
Bromomethane	ND	C3	0.00500	1	06/30/2025 09:37	WG2549473
Carbon disulfide	ND		0.00100	1	06/30/2025 09:37	WG2549473
Carbon tetrachloride	ND	C3 J4	0.00100	1	06/30/2025 09:37	WG2549473
Chlorobenzene	ND		0.00100	1	06/30/2025 09:37	WG2549473
Chlorodibromomethane	ND	C3 J4	0.00100	1	06/30/2025 09:37	WG2549473
Chloroethane	ND		0.00500	1	06/30/2025 09:37	WG2549473
Chloroform	ND		0.00500	1	06/30/2025 09:37	WG2549473
Chloromethane	ND		0.00250	1	06/30/2025 09:37	WG2549473
Dibromomethane	ND		0.00100	1	06/30/2025 09:37	WG2549473
1,2-Dichlorobenzene	ND		0.00100	1	06/30/2025 09:37	WG2549473
1,4-Dichlorobenzene	ND		0.00100	1	06/30/2025 09:37	WG2549473
trans-1,4-Dichloro-2-butene	ND	C3	0.00250	1	06/30/2025 09:37	WG2549473
1,1-Dichloroethane	ND		0.00100	1	06/30/2025 09:37	WG2549473
1,2-Dichloroethane	ND		0.00100	1	06/30/2025 09:37	WG2549473
1,1-Dichloroethene	ND		0.00100	1	06/30/2025 09:37	WG2549473
cis-1,2-Dichloroethene	ND		0.00100	1	06/30/2025 09:37	WG2549473
trans-1,2-Dichloroethene	ND		0.00100	1	06/30/2025 09:37	WG2549473
1,2-Dichloropropane	ND		0.00100	1	06/30/2025 09:37	WG2549473
cis-1,3-Dichloropropene	ND		0.00100	1	06/30/2025 09:37	WG2549473
trans-1,3-Dichloropropene	ND		0.00100	1	06/30/2025 09:37	WG2549473
Ethylbenzene	ND		0.00100	1	06/30/2025 09:37	WG2549473
2-Hexanone	ND		0.0100	1	06/30/2025 09:37	WG2549473
Iodomethane	ND		0.0100	1	06/30/2025 09:37	WG2549473
2-Butanone (MEK)	ND		0.0100	1	06/30/2025 09:37	WG2549473
Methylene Chloride	ND		0.00500	1	06/30/2025 09:37	WG2549473
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	06/30/2025 09:37	WG2549473
Styrene	ND		0.00100	1	06/30/2025 09:37	WG2549473
1,1,1,2-Tetrachloroethane	ND		0.00100	1	06/30/2025 09:37	WG2549473
1,1,2,2-Tetrachloroethane	ND	C3 J4	0.00100	1	06/30/2025 09:37	WG2549473
Tetrachloroethene	ND		0.00100	1	06/30/2025 09:37	WG2549473
Toluene	ND		0.00100	1	06/30/2025 09:37	WG2549473
1,1,1-Trichloroethane	ND		0.00100	1	06/30/2025 09:37	WG2549473
1,1,2-Trichloroethane	ND		0.00100	1	06/30/2025 09:37	WG2549473
Trichloroethene	ND		0.00100	1	06/30/2025 09:37	WG2549473
Trichlorofluoromethane	ND		0.00500	1	06/30/2025 09:37	WG2549473
1,2,3-Trichloropropane	ND		0.00250	1	06/30/2025 09:37	WG2549473
Vinyl acetate	ND	C3	0.0100	1	06/30/2025 09:37	WG2549473
Vinyl chloride	ND		0.00100	1	06/30/2025 09:37	WG2549473
Xylenes, Total	ND		0.00300	1	06/30/2025 09:37	WG2549473
(S) Toluene-d8	*101*		*80.0-120*		*06/30/2025 09:37*	WG2549473
(S) 4-Bromofluorobenzene	*100*		*77.0-126*		*06/30/2025 09:37*	WG2549473
(S) 1,2-Dichloroethane-d4	*92.9*		*70.0-130*		*06/30/2025 09:37*	WG2549473

Method Blank (MB)

(MB) R4239409-1 06/27/25 17:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U	J	10.0	10.0

L1872436-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1872436-01 06/27/25 17:20 • (DUP) R4239409-3 06/27/25 17:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	539	533	1	1.12		10

L1872967-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1872967-01 06/27/25 17:20 • (DUP) R4239409-4 06/27/25 17:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	442	480	1	8.24		10

Laboratory Control Sample (LCS)

(LCS) R4239409-2 06/27/25 17:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8870	101	90.0-110	

Method Blank (MB)

(MB) R4239479-1 06/30/25 08:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1872796-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1872796-01 06/30/25 08:33 • (DUP) R4239479-3 06/30/25 08:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	162	163	1	0.615		10

L1873080-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1873080-01 06/30/25 08:33 • (DUP) R4239479-4 06/30/25 08:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1440	1440	1	0.416		10

Laboratory Control Sample (LCS)

(LCS) R4239479-2 06/30/25 08:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8840	100	90.0-110	

QUALITY CONTROL SUMMARY

L1872967-01,05

Method Blank (MB)

(MB) R4239134-1 07/01/25 22:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	U		0.0539	0.100

L1872931-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1872931-02 07/01/25 22:58 • (DUP) R4239134-3 07/01/25 22:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1872931-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1872931-03 07/01/25 23:08 • (DUP) R4239134-6 07/01/25 23:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4239134-2 07/01/25 22:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.24	96.6	90.0-110	

L1872931-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872931-02 07/01/25 22:58 • (MS) R4239134-4 07/01/25 23:01 • (MSD) R4239134-5 07/01/25 23:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	ND	4.65	4.70	92.9	94.1	1	90.0-110			1.20	10

L1872931-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1872931-03 07/01/25 23:08 • (MS) R4239134-7 07/01/25 23:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	4.91	98.1	1	90.0-110	

Method Blank (MB)

(MB) R4237505-1 06/27/25 20:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
COD	U		14.1	20.0

Laboratory Control Sample (LCS)

(LCS) R4237505-2 06/27/25 20:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500	467	93.5	90.0-110	

L1872849-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872849-03 06/27/25 20:24 • (MS) R4237505-3 06/27/25 20:24 • (MSD) R4237505-4 06/27/25 20:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	ND	459	457	91.8	91.4	1	90.0-110			0.437	20

L1872853-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872853-01 06/27/25 20:24 • (MS) R4237505-5 06/27/25 20:25 • (MSD) R4237505-6 06/27/25 20:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	ND	484	471	93.9	91.3	1	90.0-110			2.79	20

Method Blank (MB)

(MB) R4237506-1 06/27/25 20:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
COD	U		14.1	20.0

Laboratory Control Sample (LCS)

(LCS) R4237506-2 06/27/25 20:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500	482	96.4	90.0-110	

L1872978-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872978-01 06/27/25 20:30 • (MS) R4237506-3 06/27/25 20:30 • (MSD) R4237506-6 06/27/25 20:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	286	740	748	90.7	92.4	1	90.0-110			1.09	20

L1873008-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1873008-01 06/27/25 20:30 • (MS) R4237506-4 06/27/25 20:30 • (MSD) R4237506-5 06/27/25 20:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	33.5	492	499	91.8	93.1	1	90.0-110			1.39	20

Method Blank (MB)

(MB) R4239306-1 07/02/25 09:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00210	0.00500

L1873318-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1873318-05 07/02/25 09:57 • (DUP) R4239306-5 07/02/25 10:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

L1873318-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1873318-06 07/02/25 10:03 • (DUP) R4239306-6 07/02/25 10:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4239306-2 07/02/25 09:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.102	102	87.1-120	

L1872931-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872931-03 07/02/25 09:35 • (MS) R4239306-3 07/02/25 09:37 • (MSD) R4239306-4 07/02/25 09:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0936	0.0905	93.6	90.5	1	90.0-110			3.37	20

Method Blank (MB)

(MB) R4236504-1 06/25/25 23:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Nitrate as (N)	U		0.0884	0.100
Sulfate	U		0.637	5.00

L1870568-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1870568-01 06/25/25 23:38 • (DUP) R4236504-3 06/25/25 23:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.517	0.501	1	3.14		15
Nitrate as (N)	3.20	3.27	1	2.14		15

L1872406-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1872406-02 06/26/25 00:41 • (DUP) R4236504-6 06/26/25 00:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	47.7	45.4	1	4.99		15
Fluoride	0.261	0.244	1	6.49		15
Nitrate as (N)	0.989	0.902	1	9.20		15
Sulfate	20.6	19.8	1	4.24		15

Laboratory Control Sample (LCS)

(LCS) R4236504-2 06/25/25 23:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	41.3	103	80.0-120	
Fluoride	8.00	8.20	102	80.0-120	
Nitrate as (N)	8.00	8.42	105	80.0-120	
Sulfate	40.0	40.3	101	80.0-120	

L1870568-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1870568-01 06/25/25 23:38 • (MS) R4236504-4 06/26/25 00:03 • (MSD) R4236504-5 06/26/25 00:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	125	144	140	48.3	39.7	1	80.0-120	E J6	E J6	2.42	15
Fluoride	8.00	0.517	8.59	8.45	101	99.2	1	80.0-120			1.63	15
Nitrate as (N)	8.00	3.20	11.2	10.9	99.7	96.3	1	80.0-120	E	E	2.46	15
Sulfate	40.0	839	753	730	0.000	0.000	1	80.0-120	E V	E V	3.09	15

L1872406-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1872406-02 06/26/25 00:41 • (MS) R4236504-7 06/26/25 01:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	47.7	79.8	80.3	1	80.0-120	
Fluoride	8.00	0.261	8.70	106	1	80.0-120	
Nitrate as (N)	8.00	0.989	9.63	108	1	80.0-120	
Sulfate	40.0	20.6	57.0	90.8	1	80.0-120	

Method Blank (MB)

(MB) R4240990-1 07/04/25 11:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Fluoride	U		0.0761	0.150

L1872716-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1872716-01 07/04/25 13:27 • (DUP) R4240990-3 07/04/25 13:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	ND	ND	1	0.000		15

L1872967-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1872967-02 07/04/25 15:05 • (DUP) R4240990-6 07/04/25 15:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	ND	ND	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R4240990-2 07/04/25 11:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluoride	8.00	8.57	107	80.0-120	

L1872716-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872716-01 07/04/25 13:27 • (MS) R4240990-4 07/04/25 14:00 • (MSD) R4240990-5 07/04/25 14:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	8.00	ND	9.04	9.08	113	113	1	80.0-120			0.382	15

L1872967-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1872967-02 07/04/25 15:05 • (MS) R4240990-7 07/04/25 15:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	8.00	ND	8.51	106	1	80.0-120	

Method Blank (MB)

(MB) R4241473-1 07/05/25 18:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Fluoride	U		0.0761	0.150

L1872967-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1872967-08 07/05/25 18:42 • (DUP) R4241473-3 07/05/25 18:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	ND	ND	1	0.000		15

L1873318-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1873318-01 07/08/25 18:01 • (DUP) R4242509-1 07/08/25 18:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.189	0.205	1	8.33		15

Laboratory Control Sample (LCS)

(LCS) R4241473-2 07/05/25 18:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluoride	8.00	8.55	107	80.0-120	

L1872967-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872967-08 07/05/25 18:42 • (MS) R4241473-4 07/05/25 19:09 • (MSD) R4241473-5 07/05/25 19:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	8.00	ND	8.36	8.47	104	106	1	80.0-120			1.37	15

L1873318-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1873318-01 07/08/25 18:01 • (MS) R4242509-2 07/08/25 18:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	8.00	0.189	8.61	105	1	80.0-120	

Method Blank (MB)

(MB) R4240692-2 07/04/25 11:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TOC (Total Organic Carbon)	U		0.495	1.00

L1872352-69 Original Sample (OS) • Duplicate (DUP)

(OS) L1872352-69 07/04/25 14:10 • (DUP) R4240692-5 07/04/25 14:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	23.1	23.4	1	0.989		20

L1872967-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1872967-05 07/04/25 18:29 • (DUP) R4240692-8 07/04/25 18:48

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	ND	ND	1	1.80		20

Laboratory Control Sample (LCS)

(LCS) R4240692-1 07/04/25 10:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25.0	25.3	101	80.0-120	

L1872352-66 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872352-66 07/04/25 12:57 • (MS) R4240692-3 07/04/25 13:20 • (MSD) R4240692-4 07/04/25 13:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25.0	4.09	29.9	30.0	103	103	1	75.0-125			0.234	20

L1872967-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872967-01 07/04/25 17:23 • (MS) R4240692-6 07/04/25 17:46 • (MSD) R4240692-7 07/04/25 18:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25.0	3.99	29.8	29.7	103	103	1	75.0-125			0.134	20

QUALITY CONTROL SUMMARY

L1872967-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R4238849-1 07/01/25 11:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.0000700	0.000200

Laboratory Control Sample (LCS)

(LCS) R4238849-2 07/01/25 11:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00278	92.7	80.0-120	

L1873072-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1873072-01 07/01/25 11:58 • (MS) R4238849-4 07/01/25 12:11 • (MSD) R4238849-5 07/01/25 12:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00259	0.00257	86.2	85.6	1	75.0-125			0.646	20

Method Blank (MB)

(MB) R4240984-1 07/05/25 16:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Manganese,Dissolved	0.00123	J	0.000700	0.00500

Laboratory Control Sample (LCS)

(LCS) R4240984-2 07/05/25 16:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Manganese,Dissolved	0.0500	0.0516	103	80.0-120	

L1868517-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1868517-06 07/05/25 17:01 • (MS) R4240984-4 07/05/25 17:07 • (MSD) R4240984-5 07/05/25 17:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese,Dissolved	0.0500	0.759	0.794	0.800	68.4	80.7	5	75.0-125	V		0.768	20

Method Blank (MB)

(MB) R4245579-1 07/15/25 22:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.000310	0.00400
Arsenic	U		0.000120	0.00200
Barium	U		0.000500	0.00200
Beryllium	U		0.000200	0.00200
Cadmium	U		0.000120	0.00100
Calcium	U		0.0925	1.00
Chromium	U		0.000900	0.00200
Copper	U		0.000700	0.00500
Cobalt	U		0.000100	0.00200
Iron	U		0.0226	0.100
Lead	U		0.000500	0.00200
Magnesium	U		0.0827	1.00
Nickel	U		0.000500	0.00200
Potassium	U		0.0965	2.00
Selenium	U		0.000250	0.00200
Silver	U		0.000110	0.00200
Sodium	U		0.142	2.00
Thallium	U		0.000130	0.00200
Vanadium	U		0.000520	0.00500
Zinc	U		0.00400	0.0250

Laboratory Control Sample (LCS)

(LCS) R4245579-2 07/15/25 22:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0522	104	80.0-120	
Arsenic	0.0500	0.0489	97.8	80.0-120	
Barium	0.0500	0.0478	95.6	80.0-120	
Beryllium	0.0500	0.0452	90.4	80.0-120	
Cadmium	0.0500	0.0504	101	80.0-120	
Calcium	5.00	4.97	99.5	80.0-120	
Chromium	0.0500	0.0490	98.1	80.0-120	
Copper	0.0500	0.0498	99.6	80.0-120	
Cobalt	0.0500	0.0500	99.9	80.0-120	
Iron	1.00	0.958	95.8	80.0-120	
Lead	0.0500	0.0479	95.7	80.0-120	
Magnesium	5.00	4.88	97.6	80.0-120	
Nickel	0.0500	0.0504	101	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4245579-2 07/15/25 22:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Potassium	5.00	4.96	99.1	80.0-120	
Selenium	0.0500	0.0486	97.3	80.0-120	
Silver	0.0500	0.0519	104	80.0-120	
Sodium	5.00	4.75	95.0	80.0-120	
Thallium	0.0500	0.0461	92.1	80.0-120	
Vanadium	0.0500	0.0490	98.1	80.0-120	
Zinc	0.0500	0.0469	93.7	80.0-120	

L1872931-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1872931-05 07/15/25 22:57 • (MS) R4245579-4 07/15/25 23:03 • (MSD) R4245579-5 07/15/25 23:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	ND	0.0547	0.0534	109	107	1	75.0-125			2.35	20
Arsenic	0.0500	ND	0.0501	0.0500	99.6	99.3	1	75.0-125			0.302	20
Barium	0.0500	0.147	0.196	0.196	97.0	97.6	1	75.0-125			0.168	20
Beryllium	0.0500	ND	0.0451	0.0457	90.2	91.4	1	75.0-125			1.28	20
Cadmium	0.0500	ND	0.0516	0.0523	102	104	1	75.0-125			1.35	20
Calcium	5.00	70.4	75.2	74.3	96.0	77.9	1	75.0-125			1.21	20
Chromium	0.0500	ND	0.0506	0.0510	101	102	1	75.0-125			0.773	20
Copper	0.0500	ND	0.0509	0.0512	96.4	97.0	1	75.0-125			0.576	20
Cobalt	0.0500	0.0116	0.0624	0.0629	102	103	1	75.0-125			0.817	20
Iron	1.00	0.223	1.18	1.18	95.9	96.1	1	75.0-125			0.167	20
Lead	0.0500	ND	0.0487	0.0497	97.4	99.3	1	75.0-125			1.94	20
Magnesium	5.00	29.7	34.1	33.9	88.6	84.4	1	75.0-125			0.611	20
Nickel	0.0500	0.00341	0.0525	0.0530	98.2	99.2	1	75.0-125			0.967	20
Potassium	5.00	59.8	64.0	63.4	83.5	72.1	1	75.0-125		V	0.892	20
Selenium	0.0500	ND	0.0491	0.0485	98.1	96.9	1	75.0-125			1.24	20
Silver	0.0500	ND	0.0521	0.0533	104	107	1	75.0-125			2.37	20
Sodium	5.00	115	118	117	70.4	49.9	1	75.0-125	V	V	0.873	20
Thallium	0.0500	ND	0.0468	0.0477	93.1	94.9	1	75.0-125			1.90	20
Vanadium	0.0500	ND	0.0509	0.0510	102	102	1	75.0-125			0.333	20
Zinc	0.0500	0.0346	0.0839	0.0858	98.7	102	1	75.0-125			2.19	20

Method Blank (MB)

(MB) R4237948-2 06/28/25 08:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromochloromethane	U		0.000128	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
trans-1,4-Dichloro-2-butene	U		0.000467	0.00250
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Iodomethane	U		0.00600	0.0100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100

Method Blank (MB)

(MB) R4237948-2 06/28/25 08:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
Vinyl acetate	U		0.000692	0.0100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*91.1*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*88.9*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4237948-1 06/28/25 07:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0303	121	19.0-160	
Acrylonitrile	0.0250	0.0258	103	55.0-149	
Benzene	0.00500	0.00464	92.8	70.0-123	
Bromochloromethane	0.00500	0.00478	95.6	76.0-122	
Bromodichloromethane	0.00500	0.00442	88.4	75.0-120	
Bromoform	0.00500	0.00405	81.0	68.0-132	
Bromomethane	0.00500	0.00258	51.6	10.0-160	
Carbon disulfide	0.00500	0.00451	90.2	61.0-128	
Carbon tetrachloride	0.00500	0.00425	85.0	68.0-126	
Chlorobenzene	0.00500	0.00465	93.0	80.0-121	
Chlorodibromomethane	0.00500	0.00426	85.2	77.0-125	
Chloroethane	0.00500	0.00626	125	47.0-150	
Chloroform	0.00500	0.00435	87.0	73.0-120	
Chloromethane	0.00500	0.00317	63.4	41.0-142	
Dibromomethane	0.00500	0.00453	90.6	80.0-120	
1,2-Dichlorobenzene	0.00500	0.00443	88.6	79.0-121	
1,4-Dichlorobenzene	0.00500	0.00420	84.0	79.0-120	
trans-1,4-Dichloro-2-butene	0.00500	0.00351	70.2	33.0-144	
1,1-Dichloroethane	0.00500	0.00498	99.6	70.0-126	
1,2-Dichloroethane	0.00500	0.00418	83.6	70.0-128	
1,1-Dichloroethene	0.00500	0.00444	88.8	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00435	87.0	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00463	92.6	73.0-120	
1,2-Dichloropropane	0.00500	0.00450	90.0	77.0-125	
cis-1,3-Dichloropropene	0.00500	0.00443	88.6	80.0-123	

Laboratory Control Sample (LCS)

(LCS) R4237948-1 06/28/25 07:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
trans-1,3-Dichloropropene	0.00500	0.00418	83.6	78.0-124	
Ethylbenzene	0.00500	0.00451	90.2	79.0-123	
2-Hexanone	0.0250	0.0240	96.0	67.0-149	
Iodomethane	0.0250	0.00981	39.2	33.0-147	
2-Butanone (MEK)	0.0250	0.0257	103	44.0-160	
Methylene Chloride	0.00500	0.00471	94.2	67.0-120	
4-Methyl-2-pentanone (MIBK)	0.0250	0.0268	107	68.0-142	
Styrene	0.00500	0.00476	95.2	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00467	93.4	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00471	94.2	65.0-130	
Tetrachloroethene	0.00500	0.00423	84.6	72.0-132	
Toluene	0.00500	0.00450	90.0	79.0-120	
1,1,1-Trichloroethane	0.00500	0.00413	82.6	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00442	88.4	80.0-120	
Trichloroethene	0.00500	0.00444	88.8	78.0-124	
Trichlorofluoromethane	0.00500	0.00464	92.8	59.0-147	
1,2,3-Trichloropropane	0.00500	0.00431	86.2	73.0-130	
Vinyl acetate	0.0250	0.0253	101	11.0-160	
Vinyl chloride	0.00500	0.00425	85.0	67.0-131	
Xylenes, Total	0.0150	0.0131	87.3	79.0-123	
(S) Toluene-d8			*101*	*80.0-120*	
(S) 4-Bromofluorobenzene			*99.4*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*93.4*	*70.0-130*	

Method Blank (MB)

(MB) R4239077-3 06/30/25 08:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromochloromethane	U		0.000128	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
Carbon disulfide	U		0.0000962	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
trans-1,4-Dichloro-2-butene	U		0.000467	0.00250
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
Ethylbenzene	U		0.000137	0.00100
2-Hexanone	U		0.000787	0.0100
Iodomethane	U		0.00600	0.0100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100

Method Blank (MB)

(MB) R4239077-3 06/30/25 08:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
Vinyl acetate	U		0.000692	0.0100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*102*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*92.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4239077-1 06/30/25 07:29 • (LCSD) R4239077-2 06/30/25 07:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0196	0.0273	78.4	109	19.0-160		J3	32.8	27
Acrylonitrile	0.0250	0.0234	0.0239	93.6	95.6	55.0-149			2.11	20
Benzene	0.00500	0.00516	0.00475	103	95.0	70.0-123			8.27	20
Bromochloromethane	0.00500	0.00544	0.00497	109	99.4	76.0-122			9.03	20
Bromodichloromethane	0.00500	0.00419	0.00396	83.8	79.2	75.0-120			5.64	20
Bromoform	0.00500	0.00326	0.00340	65.2	68.0	68.0-132	J4		4.20	20
Bromomethane	0.00500	0.00156	0.00166	31.2	33.2	10.0-160			6.21	25
Carbon disulfide	0.00500	0.00506	0.00458	101	91.6	61.0-128			9.96	20
Carbon tetrachloride	0.00500	0.00358	0.00321	71.6	64.2	68.0-126		J4	10.9	20
Chlorobenzene	0.00500	0.00479	0.00444	95.8	88.8	80.0-121			7.58	20
Chlorodibromomethane	0.00500	0.00374	0.00363	74.8	72.6	77.0-125	J4	J4	2.99	20
Chloroethane	0.00500	0.00435	0.00387	87.0	77.4	47.0-150			11.7	20
Chloroform	0.00500	0.00498	0.00468	99.6	93.6	73.0-120			6.21	20
Chloromethane	0.00500	0.00466	0.00436	93.2	87.2	41.0-142			6.65	20
Dibromomethane	0.00500	0.00485	0.00474	97.0	94.8	80.0-120			2.29	20
1,2-Dichlorobenzene	0.00500	0.00444	0.00439	88.8	87.8	79.0-121			1.13	20
1,4-Dichlorobenzene	0.00500	0.00460	0.00441	92.0	88.2	79.0-120			4.22	20
trans-1,4-Dichloro-2-butene	0.00500	0.00248	0.00264	49.6	52.8	33.0-144			6.25	20
1,1-Dichloroethane	0.00500	0.00479	0.00449	95.8	89.8	70.0-126			6.47	20
1,2-Dichloroethane	0.00500	0.00460	0.00453	92.0	90.6	70.0-128			1.53	20
1,1-Dichloroethene	0.00500	0.00499	0.00442	99.8	88.4	71.0-124			12.1	20
cis-1,2-Dichloroethene	0.00500	0.00489	0.00459	97.8	91.8	73.0-120			6.33	20
trans-1,2-Dichloroethene	0.00500	0.00487	0.00456	97.4	91.2	73.0-120			6.57	20
1,2-Dichloropropane	0.00500	0.00504	0.00508	101	102	77.0-125			0.791	20
cis-1,3-Dichloropropene	0.00500	0.00438	0.00420	87.6	84.0	80.0-123			4.20	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4239077-1 06/30/25 07:29 • (LCSD) R4239077-2 06/30/25 07:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.00500	0.00419	0.00402	83.8	80.4	78.0-124			4.14	20
Ethylbenzene	0.00500	0.00482	0.00457	96.4	91.4	79.0-123			5.32	20
2-Hexanone	0.0250	0.0242	0.0258	96.8	103	67.0-149			6.40	20
Iodomethane	0.0250	0.0269	0.0283	108	113	33.0-147			5.07	26
2-Butanone (MEK)	0.0250	0.0216	0.0259	86.4	104	44.0-160			18.1	20
Methylene Chloride	0.00500	0.00485	0.00450	97.0	90.0	67.0-120			7.49	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0234	0.0234	93.6	93.6	68.0-142			0.000	20
Styrene	0.00500	0.00484	0.00451	96.8	90.2	73.0-130			7.06	20
1,1,1,2-Tetrachloroethane	0.00500	0.00457	0.00428	91.4	85.6	75.0-125			6.55	20
1,1,2,2-Tetrachloroethane	0.00500	0.00308	0.00300	61.6	60.0	65.0-130	J4	J4	2.63	20
Tetrachloroethene	0.00500	0.00512	0.00468	102	93.6	72.0-132			8.98	20
Toluene	0.00500	0.00488	0.00450	97.6	90.0	79.0-120			8.10	20
1,1,1-Trichloroethane	0.00500	0.00481	0.00454	96.2	90.8	73.0-124			5.78	20
1,1,2-Trichloroethane	0.00500	0.00488	0.00473	97.6	94.6	80.0-120			3.12	20
Trichloroethene	0.00500	0.00587	0.00546	117	109	78.0-124			7.24	20
Trichlorofluoromethane	0.00500	0.00458	0.00415	91.6	83.0	59.0-147			9.85	20
1,2,3-Trichloropropane	0.00500	0.00556	0.00543	111	109	73.0-130			2.37	20
Vinyl acetate	0.0250	0.0144	0.0119	57.6	47.6	11.0-160			19.0	20
Vinyl chloride	0.00500	0.00426	0.00394	85.2	78.8	67.0-131			7.80	20
Xylenes, Total	0.0150	0.0151	0.0139	101	92.7	79.0-123			8.28	20
(S) Toluene-d8				*103*	*102*	*80.0-120*				
(S) 4-Bromofluorobenzene				*101*	*100*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*93.3*	*91.2*	*70.0-130*				

Method Blank (MB)

(MB) R4237131-1 06/26/25 22:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylene Dibromide	U		0.00000550	0.0000200
1,2-Dibromo-3-Chloropropane	U		0.00000380	0.0000200
(S) 1,1,1,2-Tetrachloroethane	*102*			*60.0-140*

L1872188-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1872188-06 06/26/25 23:03 • (DUP) R4237131-3 06/26/25 22:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	ND	ND	1	0.000		20
1,2-Dibromo-3-Chloropropane	ND	ND	1	0.000		20
(S) 1,1,1,2-Tetrachloroethane		*97.8*				*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4237131-4 06/27/25 00:46 • (LCSD) R4237131-5 06/27/25 03:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylene Dibromide	0.000250	0.000249	0.000238	99.6	95.2	60.0-140			4.52	20
1,2-Dibromo-3-Chloropropane	0.000250	0.000207	0.000197	82.8	78.8	60.0-140			4.95	20
(S) 1,1,1,2-Tetrachloroethane				*98.4*	*96.6*	*60.0-140*				

L1872188-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1872188-07 06/26/25 22:42 • (MS) R4237131-2 06/26/25 22:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.0000979	ND	0.000133	136	1	64.0-159	
1,2-Dibromo-3-Chloropropane	0.0000979	ND	0.000104	106	1	72.0-148	
(S) 1,1,1,2-Tetrachloroethane				*100*		*60.0-140*	

Method Blank (MB)

(MB) R4238980-1 06/30/25 21:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylene Dibromide	U		0.00000550	0.0000200
1,2-Dibromo-3-Chloropropane	U		0.00000380	0.0000200
(S) 1,1,1,2-Tetrachloroethane	*113*			*60.0-140*

L1873053-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1873053-07 06/30/25 22:29 • (DUP) R4238980-3 06/30/25 22:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ethylene Dibromide	ND	ND	1.01	0.000		20
1,2-Dibromo-3-Chloropropane	ND	ND	1.01	0.000		20
(S) 1,1,1,2-Tetrachloroethane		*111*				*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4238980-4 07/01/25 00:12 • (LCSD) R4238980-5 07/01/25 02:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylene Dibromide	0.000250	0.000232	0.000223	92.8	89.2	60.0-140			3.96	20
1,2-Dibromo-3-Chloropropane	0.000250	0.000198	0.000196	79.2	78.4	60.0-140			1.02	20
(S) 1,1,1,2-Tetrachloroethane				*106*	*107*	*60.0-140*				

L1873053-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1873053-08 06/30/25 22:09 • (MS) R4238980-2 06/30/25 21:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ethylene Dibromide	0.000101	ND	0.000117	116	1.01	64.0-159	
1,2-Dibromo-3-Chloropropane	0.000101	ND	0.000104	103	1.01	72.0-148	
(S) 1,1,1,2-Tetrachloroethane				*104*		*60.0-140*	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Republic Services - CEC

117 Seaboard Ln.
Suite E100
Franklin. TN 37067

Billing Information:
Accounts Payable
621 Hill Ave
Nashville, TN 37210

Report to: Michael Johnson 615-333-7797

Email To: mjohnson@cecinc.com;hvankirk@republicservic

Project Description: Matlock Bend LF - Loudon, TN

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # 313-710

Lab Project # REPCECTN-MATLOCK

Collected by (print):

Site/Facility ID #

P.O. # 31327749

Collected by (signature):

Immediately Packed on Ice N____ Y____

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day ____ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**NO3,F,Cl,SO4** 125mlHDPE-NoPres	CN 250mlHDPEAmb-NaOH	COD,NH3 250mlHDPE-H2SO4	FLUORIDE 125mlHDPE-NoPres	M6020AP1 250mlHDPE-HNO3	MNDG 250mlHDPE-NoPres	SV8011 40mlClr-NaThio	TDS 1L-HDPE NoPres	TOC 250mlAmb-HCl	Total Metals 250mlHDPE-HNO3	Remarks	Sample # (lab only)
Pres Chk								7/2	7/2		7/2							
MW-4R		GW		6-23-25	0900	13	X	X	X			X	X	X	X	X	☆	-01
MW-5		GW		6-24-25	1237	8				X	X		X					02
MW-6R		GW		6-24-25	1425	8				X	X		X					03
MW-7		GW		6-24-25	1335	8				X	X		X					04
SOUTHWEST SPRING		GW		6-24-25	1425	13	X	X	X			X	X	X	X	X		05
LEACHATE		GW		6-24-25	1520	8				X	X		X					06
DUPLICATE		GW		6-24-25		13	X	X	X			X	X	X	X	X	☆☆	07
FIELD BLANK		GW		6-24-25	1000	8				X	X		X				MW-6R	08
TRIP BLANK		GW				5												09

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Total Metals = M6020AP1+Ca,Fe,K,Mg,Na
5 needs dissolved metals
☆☆ - need 4 vial amber HCl VOC's

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier CLT

Tracking # 5

Sample Receipt Checklist

COC Seal Present/Intact:	NP	N
COC Signed/Accurate:		N
Bottles arrive intact:		N
Correct bottles used:	Y	N
Sufficient volume sent:	Y	N
If Applicable		
VOA Zero Headspace:	Y	N
Preservation Correct/Checked:	Y	N
RAD Screen <0.5 mR/hr:	Y	N

ice

Relinquished by : (Signature)	Date: 6-25-25	Time: 1610	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature) Susan Poach	Temp: °C Bottles Received: Multi	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Elijah Anderson	Date: 6/25/25 Time: 1415	Hold: Condition: NCF / OK

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1672967
M080

Acctnum: REPCECTN
Template: T276057
Prelogin: P1160613
PM: 526 - Chris McCord
PB: 6/19/25 mN
Shipped Via: Courier

Multiple Parcel Form L# L1672967

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
Cliat Dropoff	TLA9	3.4	+0.4	3.8	Yes / No / Not Present
↓	TLA9	2.1	+0.4	2.5	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Elijah Wilson
Name

06/25/25
Date

6/25 L1872967 REPCECTN NCF

Shortholds

Time estimate: oh **Time spent:** oh

Members

Jeremy Watkins (responsible) Christopher McCord

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Custody seal not intact
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [x] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [x] Date/Time: 6/25/25 16:22
- [x] PM initials: CM
- [x] Client Contact: Liz McCurry

Comments

Jeremy Watkins *25 June 2025 3:37 PM*

Did not receive CN, TOC, TDS, COD, NH3 for DUPLICATE

Christopher McCord *25 June 2025 4:25 PM*

Testing not needed on this sample.

ANALYTICAL REPORT

September 18, 2025

Revised Report

Republic Services - CEC

Sample Delivery Group:	L1893368
Samples Received:	08/28/2025
Project Number:	313-710
Description:	Matlock Bend LF - Loudon, TN

Report To:

Michael Johnson
117 Seaboard Ln.
Suite E100
Franklin, TN 37067

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-01 L1893368-01

Collected by: Tony Baomgurt | Collected date/time: 08/28/25 12:10 | Received date/time: 08/28/25 16:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2592830	1	09/02/25 15:38	09/04/25 10:08	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2593045	1	09/04/25 10:17	09/04/25 10:17	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2592444	1	09/02/25 15:20	09/02/25 15:20	LAS	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2591955	1	09/01/25 08:14	09/01/25 11:24	DAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2593799	1	09/04/25 10:18	09/04/25 19:59	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2590509	1	08/29/25 18:17	08/29/25 18:17	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2591687	1	08/31/25 21:42	08/31/25 21:42	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2592878	1	09/04/25 13:17	09/08/25 19:45	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2593372	1	09/05/25 10:17	09/09/25 13:55	JDB	Mt. Juliet, TN

MW-01A L1893368-02

Collected by: Tony Baomgurt | Collected date/time: 08/28/25 13:00 | Received date/time: 08/28/25 16:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2592784	1	09/02/25 14:39	09/03/25 10:43	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2593045	1	09/04/25 10:23	09/04/25 10:23	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2592444	1	09/02/25 15:21	09/02/25 15:21	LAS	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2591955	1	09/01/25 08:14	09/01/25 11:24	DAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2593799	1	09/04/25 10:18	09/04/25 20:02	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2590509	1	08/29/25 20:35	08/29/25 20:35	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2591687	1	08/31/25 21:59	08/31/25 21:59	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2592878	1	09/04/25 13:17	09/08/25 19:48	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2593372	1	09/05/25 10:17	09/09/25 13:58	JDB	Mt. Juliet, TN

MW-02 L1893368-03

Collected by: Tony Baomgurt | Collected date/time: 08/28/25 13:50 | Received date/time: 08/28/25 16:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2592784	1	09/02/25 14:39	09/03/25 10:43	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2593045	1	09/04/25 10:28	09/04/25 10:28	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2592444	1	09/02/25 15:23	09/02/25 15:23	LAS	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2591955	1	09/01/25 08:14	09/01/25 11:24	DAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2593799	1	09/04/25 10:18	09/04/25 20:03	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2590509	1	08/29/25 22:36	08/29/25 22:36	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2591687	1	08/31/25 22:16	08/31/25 22:16	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2592878	1	09/04/25 13:17	09/08/25 19:51	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2593372	1	09/05/25 10:17	09/09/25 14:01	JDB	Mt. Juliet, TN

MW-03 L1893368-04

Collected by: Tony Baomgurt | Collected date/time: 08/28/25 12:42 | Received date/time: 08/28/25 16:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2592784	1	09/02/25 14:39	09/03/25 10:43	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2593045	1	09/04/25 10:31	09/04/25 10:31	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2592444	1	09/02/25 15:24	09/02/25 15:24	LAS	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2591955	1	09/01/25 08:14	09/01/25 11:25	DAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2594990	1	09/05/25 14:57	09/07/25 19:38	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2590509	1	08/29/25 19:26	08/29/25 19:26	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2591687	1	08/31/25 22:34	08/31/25 22:34	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2593372	1	09/05/25 10:17	09/09/25 14:04	JDB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2593372	10	09/05/25 10:17	09/09/25 15:56	JDB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2594399	1	09/05/25 03:30	09/07/25 18:53	LD	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

SOUTHWEST SPRING L1893368-05

Collected by: Tony Baomgurt | Collected date/time: 08/28/25 13:30 | Received date/time: 08/28/25 16:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2592784	1	09/02/25 14:39	09/03/25 10:43	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2593045	1	09/04/25 10:42	09/04/25 10:42	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2592444	1	09/02/25 15:26	09/02/25 15:26	LAS	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2591955	2	09/01/25 08:14	09/01/25 11:25	DAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2593799	1	09/04/25 10:18	09/04/25 20:12	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2590509	20	08/30/25 01:15	08/30/25 01:15	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2590509	5	08/29/25 21:50	08/29/25 21:50	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2601878	1	09/17/25 07:59	09/17/25 07:59	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2591687	1	08/31/25 22:50	08/31/25 22:50	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2592878	1	09/04/25 13:17	09/08/25 19:55	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2593372	5	09/05/25 10:17	09/09/25 16:00	JDB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2591706	1	08/31/25 16:00	08/31/25 16:00	JHH	Mt. Juliet, TN

SPRING L1893368-06

Collected by: Tony Baomgurt | Collected date/time: 08/28/25 13:55 | Received date/time: 08/28/25 16:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2592784	1	09/02/25 14:39	09/03/25 10:43	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2593045	1	09/04/25 10:36	09/04/25 10:36	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2592444	1	09/02/25 15:27	09/02/25 15:27	LAS	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2591955	1	09/01/25 08:14	09/01/25 11:25	DAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2593799	1	09/04/25 10:18	09/04/25 20:13	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2590509	1	08/29/25 22:58	08/29/25 22:58	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2590509	5	08/30/25 01:38	08/30/25 01:38	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2591687	1	08/31/25 23:07	08/31/25 23:07	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2592878	1	09/04/25 13:17	09/08/25 19:58	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2593372	5	09/05/25 10:17	09/09/25 16:03	JDB	Mt. Juliet, TN

LEACHATE L1893368-07

Collected by: Tony Baomgurt | Collected date/time: 08/28/25 14:15 | Received date/time: 08/28/25 16:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2592784	1	09/02/25 14:39	09/03/25 10:43	JDG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2594458	1	09/07/25 10:48	09/07/25 10:48	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2592444	200	09/02/25 15:33	09/02/25 15:33	LAS	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2591955	5	09/01/25 08:14	09/01/25 11:25	DAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2016	WG2593799	1	09/04/25 10:18	09/04/25 20:15	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2590509	10	08/29/25 23:21	08/29/25 23:21	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2590509	50	08/30/25 02:01	08/30/25 02:01	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2601878	1	09/17/25 08:11	09/17/25 08:11	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2591687	20	08/31/25 23:44	08/31/25 23:44	ASH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2593372	10	09/05/25 10:17	09/09/25 14:26	JDB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2594399	1	09/05/25 03:30	09/07/25 22:50	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2594399	20	09/05/25 03:30	09/07/25 18:56	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2594399	5	09/05/25 03:30	09/07/25 22:53	LD	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Report Revision History

Level II Report - Version 1: 09/10/25 17:14

Project Narrative

9/17/25: Revised to report lower dilutions for Anions on -05, -07.

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Lab Sample ID	Project Sample ID	Method
L1893368-01	MW-01	6020B
L1893368-02	MW-01A	6020B
L1893368-03	MW-02	6020B
L1893368-04	MW-03	6020B
L1893368-05	SOUTHWEST SPRING	6020B
L1893368-06	SPRING	6020B
L1893368-07	LEACHATE	6020B

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
L1893368-07	LEACHATE	9060A

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	236		10.0	1	09/04/2025 10:08	WG2592830

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	194		20.0	1	09/04/2025 10:17	WG2593045

Sample Narrative:

L1893368-01 WG2593045: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	09/02/2025 15:20	WG2592444

Wet Chemistry by Method 410.4

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
COD	ND		20.0	1	09/01/2025 11:24	WG2591955

Wet Chemistry by Method 4500CN E-2016

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.00500	1	09/04/2025 19:59	WG2593799

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	18.6	J6	1.00	1	08/29/2025 18:17	WG2590509
Nitrate as (N)	1.17		0.100	1	08/29/2025 18:17	WG2590509
Sulfate	ND		5.00	1	08/29/2025 18:17	WG2590509

Wet Chemistry by Method 9060A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	ND		1.00	1	08/31/2025 21:42	WG2591687

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	38.8		1.00	1	09/08/2025 19:45	WG2592878
Iron	0.121		0.100	1	09/08/2025 19:45	WG2592878
Lead	ND		0.00200	1	09/08/2025 19:45	WG2592878
Lead,Dissolved	ND		0.00200	1	09/09/2025 13:55	WG2593372
Magnesium	23.3		1.00	1	09/08/2025 19:45	WG2592878
Manganese,Dissolved	ND		0.00500	1	09/09/2025 13:55	WG2593372
Potassium	2.86		2.00	1	09/08/2025 19:45	WG2592878
Sodium	10.8		2.00	1	09/08/2025 19:45	WG2592878

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	468		10.0	1	09/03/2025 10:43	WG2592784

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	299		20.0	1	09/04/2025 10:23	WG2593045

Sample Narrative:

L1893368-02 WG2593045: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	ND		0.100	1	09/02/2025 15:21	WG2592444

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	ND		20.0	1	09/01/2025 11:24	WG2591955

Wet Chemistry by Method 4500CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	0.00664		0.00500	1	09/04/2025 20:02	WG2593799

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	88.5	J6	1.00	1	08/29/2025 20:35	WG2590509
Nitrate as (N)	3.77		0.100	1	08/29/2025 20:35	WG2590509
Sulfate	24.3	J6	5.00	1	08/29/2025 20:35	WG2590509

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	ND		1.00	1	08/31/2025 21:59	WG2591687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	80.4		1.00	1	09/08/2025 19:48	WG2592878
Iron	ND		0.100	1	09/08/2025 19:48	WG2592878
Magnesium	34.4		1.00	1	09/08/2025 19:48	WG2592878
Manganese,Dissolved	0.00931		0.00500	1	09/09/2025 13:58	WG2593372
Potassium	36.8		2.00	1	09/08/2025 19:48	WG2592878
Sodium	59.9		2.00	1	09/08/2025 19:48	WG2592878

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	59.0		10.0	1	09/03/2025 10:43	WG2592784

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	ND		20.0	1	09/04/2025 10:28	WG2593045

Sample Narrative:

L1893368-03 WG2593045: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	09/02/2025 15:23	WG2592444

Wet Chemistry by Method 410.4

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
COD	ND		20.0	1	09/01/2025 11:24	WG2591955

Wet Chemistry by Method 4500CN E-2016

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.00500	1	09/04/2025 20:03	WG2593799

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3.83		1.00	1	08/29/2025 22:36	WG2590509
Nitrate as (N)	4.24		0.100	1	08/29/2025 22:36	WG2590509
Sulfate	ND		5.00	1	08/29/2025 22:36	WG2590509

Wet Chemistry by Method 9060A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	ND		1.00	1	08/31/2025 22:16	WG2591687

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	2.13		1.00	1	09/08/2025 19:51	WG2592878
Iron	ND		0.100	1	09/08/2025 19:51	WG2592878
Magnesium	1.88		1.00	1	09/08/2025 19:51	WG2592878
Manganese,Dissolved	0.190		0.00500	1	09/09/2025 14:01	WG2593372
Nickel	0.0435		0.00200	1	09/08/2025 19:51	WG2592878
Nickel,Dissolved	0.0440		0.00200	1	09/09/2025 14:01	WG2593372
Potassium	3.05		2.00	1	09/08/2025 19:51	WG2592878
Sodium	3.88		2.00	1	09/08/2025 19:51	WG2592878

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	110		10.0	1	09/03/2025 10:43	WG2592784

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	30.5		20.0	1	09/04/2025 10:31	WG2593045

Sample Narrative:

L1893368-04 WG2593045: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.594		0.100	1	09/02/2025 15:24	WG2592444

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	ND		20.0	1	09/01/2025 11:25	WG2591955

Wet Chemistry by Method 4500CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	ND		0.00500	1	09/07/2025 19:38	WG2594990

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	25.5		1.00	1	08/29/2025 19:26	WG2590509
Nitrate as (N)	1.18		0.100	1	08/29/2025 19:26	WG2590509
Sulfate	12.8		5.00	1	08/29/2025 19:26	WG2590509

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	1.19		1.00	1	08/31/2025 22:34	WG2591687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	ND		0.00200	1	09/07/2025 18:53	WG2594399
Arsenic,Dissolved	ND		0.00200	1	09/09/2025 14:04	WG2593372
Calcium	7.97		1.00	1	09/07/2025 18:53	WG2594399
Cobalt	0.0117		0.00200	1	09/07/2025 18:53	WG2594399
Cobalt,Dissolved	0.00746		0.00200	1	09/09/2025 14:04	WG2593372
Iron	0.112		0.100	1	09/07/2025 18:53	WG2594399
Lead	ND		0.00200	1	09/07/2025 18:53	WG2594399
Lead,Dissolved	ND		0.00200	1	09/09/2025 14:04	WG2593372
Magnesium	2.49		1.00	1	09/07/2025 18:53	WG2594399
Manganese,Dissolved	3.00		0.0500	10	09/09/2025 15:56	WG2593372
Potassium	3.35		2.00	1	09/07/2025 18:53	WG2594399
Sodium	24.7		2.00	1	09/07/2025 18:53	WG2594399

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1460		50.0	1	09/03/2025 10:43	WG2592784

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	372		20.0	1	09/04/2025 10:42	WG2593045

Sample Narrative:

L1893368-05 WG2593045: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	5.80		0.100	1	09/02/2025 15:26	WG2592444

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	ND		40.0	2	09/01/2025 11:25	WG2591955

Sample Narrative:

L1893368-05 WG2591955: Dilution due to matrix.

Wet Chemistry by Method 4500CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	ND		0.00500	1	09/04/2025 20:12	WG2593799

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	743		20.0	20	08/30/2025 01:15	WG2590509
Fluoride	ND		0.150	1	09/17/2025 07:59	WG2601878
Nitrate as (N)	ND		0.500	5	08/29/2025 21:50	WG2590509
Sulfate	ND		5.00	1	09/17/2025 07:59	WG2601878

Sample Narrative:

L1893368-05 WG2590509: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	ND		1.00	1	08/31/2025 22:50	WG2591687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	0.0203		0.00200	1	09/08/2025 19:55	WG2592878
Barium	0.455		0.00200	1	09/08/2025 19:55	WG2592878
Calcium	128		1.00	1	09/08/2025 19:55	WG2592878
Cobalt	0.0131		0.00200	1	09/08/2025 19:55	WG2592878
Iron	10.5		0.100	1	09/08/2025 19:55	WG2592878

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Magnesium	83.3		1.00	1	09/08/2025 19:55	WG2592878
Manganese,Dissolved	1.30		0.0250	5	09/09/2025 16:00	WG2593372
Nickel	0.0334		0.00200	1	09/08/2025 19:55	WG2592878
Potassium	70.5		2.00	1	09/08/2025 19:55	WG2592878
Sodium	287		2.00	1	09/08/2025 19:55	WG2592878

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,4-Dichlorobenzene	ND		0.00100	1	08/31/2025 16:00	WG2591706
(S) Toluene-d8	*103*		*80.0-120*		*08/31/2025 16:00*	WG2591706
(S) 4-Bromofluorobenzene	*98.7*		*77.0-126*		*08/31/2025 16:00*	WG2591706
(S) 1,2-Dichloroethane-d4	*88.6*		*70.0-130*		*08/31/2025 16:00*	WG2591706

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	664		13.3	1	09/03/2025 10:43	WG2592784

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	218		20.0	1	09/04/2025 10:36	WG2593045

Sample Narrative:

L1893368-06 WG2593045: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.840		0.100	1	09/02/2025 15:27	WG2592444

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	21.4		20.0	1	09/01/2025 11:25	WG2591955

Wet Chemistry by Method 4500CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	ND		0.00500	1	09/04/2025 20:13	WG2593799

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	230		5.00	5	08/30/2025 01:38	WG2590509
Nitrate as (N)	6.69		0.100	1	08/29/2025 22:58	WG2590509
Sulfate	12.1		5.00	1	08/29/2025 22:58	WG2590509

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	1.02		1.00	1	08/31/2025 23:07	WG2591687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	70.5		1.00	1	09/08/2025 19:58	WG2592878
Iron	0.330		0.100	1	09/08/2025 19:58	WG2592878
Magnesium	30.9		1.00	1	09/08/2025 19:58	WG2592878
Manganese,Dissolved	0.837		0.0250	5	09/09/2025 16:03	WG2593372
Potassium	45.0		2.00	1	09/08/2025 19:58	WG2592878
Sodium	96.9		2.00	1	09/08/2025 19:58	WG2592878

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4580		10.0	1	09/03/2025 10:43	WG2592784

Sample Narrative:

L1893368-07 WG2592784: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	4280		20.0	1	09/07/2025 10:48	WG2594458

Sample Narrative:

L1893368-07 WG2594458: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	845		20.0	200	09/02/2025 15:33	WG2592444

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	1630		100	5	09/01/2025 11:25	WG2591955

Wet Chemistry by Method 4500CN E-2016

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	0.0106		0.00500	1	09/04/2025 20:15	WG2593799

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	982		50.0	50	08/30/2025 02:01	WG2590509
Nitrate as (N)	ND		1.00	10	08/29/2025 23:21	WG2590509
Sulfate	10.9		5.00	1	09/17/2025 08:11	WG2601878

Sample Narrative:

L1893368-07 WG2590509: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	502		20.0	20	08/31/2025 23:44	WG2591687

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	114		1.00	1	09/07/2025 22:50	WG2594399
Iron	6.11		0.500	5	09/07/2025 22:53	WG2594399
Magnesium	62.4		1.00	1	09/07/2025 22:50	WG2594399
Manganese,Dissolved	0.722		0.0500	10	09/09/2025 14:26	WG2593372
Potassium	345		40.0	20	09/07/2025 18:56	WG2594399
Sodium	1060		10.0	5	09/07/2025 22:53	WG2594399

Method Blank (MB)

(MB) R4269769-1 09/03/25 10:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1893368-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1893368-02 09/03/25 10:43 • (DUP) R4269769-3 09/03/25 10:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	468	484	1	3.36		10

L1893889-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1893889-04 09/03/25 10:43 • (DUP) R4269769-4 09/03/25 10:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	154	153	1	0.651		10

Laboratory Control Sample (LCS)

(LCS) R4269769-2 09/03/25 10:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8360	95.0	90.0-110	

Method Blank (MB)

(MB) R4269997-1 09/04/25 10:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1893537-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1893537-01 09/04/25 10:08 • (DUP) R4269997-3 09/04/25 10:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1240	1240	1	0.322		10

L1893863-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1893863-01 09/04/25 10:08 • (DUP) R4269997-4 09/04/25 10:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	359	354	1	1.40		10

Laboratory Control Sample (LCS)

(LCS) R4269997-2 09/04/25 10:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8710	99.0	90.0-110	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4268667-2 09/04/25 09:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	U		4.75	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1893458-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1893458-02 09/04/25 10:04 • (DUP) R4268667-3 09/04/25 10:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	210	204	1	3.04		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1893537-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1893537-15 09/04/25 12:14 • (DUP) R4268667-4 09/04/25 12:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	267	267	1	0.00958		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4268667-1 09/04/25 09:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	105	105	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4269844-2 09/07/25 10:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	U		4.75	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1893416-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1893416-02 09/07/25 10:26 • (DUP) R4269844-3 09/07/25 10:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	397	392	1	1.51		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1894924-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1894924-01 09/07/25 12:27 • (DUP) R4269844-4 09/07/25 12:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	461	458	1	0.676		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4269844-1 09/07/25 10:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	99.8	99.8	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4267664-1 09/02/25 15:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	U		0.0539	0.100

L1894057-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1894057-13 09/02/25 15:47 • (DUP) R4267664-5 09/02/25 15:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1894057-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1894057-21 09/02/25 16:00 • (DUP) R4267664-7 09/02/25 16:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4267664-2 09/02/25 15:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.59	101	90.0-110	

L1894057-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1894057-05 09/02/25 15:38 • (MS) R4267664-3 09/02/25 15:39 • (MSD) R4267664-4 09/02/25 15:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	ND	5.21	5.24	104	105	1	90.0-110			0.708	10

L1894057-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L1894057-17 09/02/25 15:56 • (MS) R4267664-6 09/02/25 15:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.08	102	1	90.0-110	

Method Blank (MB)

(MB) R4267020-1 09/01/25 11:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
COD	U		14.1	20.0

Laboratory Control Sample (LCS)

(LCS) R4267020-2 09/01/25 11:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500	488	97.7	90.0-110	

L1893447-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1893447-01 09/01/25 11:26 • (MS) R4267020-3 09/01/25 11:26 • (MSD) R4267020-4 09/01/25 11:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	ND	515	514	100	99.9	1	90.0-110			0.167	20

L1893447-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1893447-02 09/01/25 11:27 • (MS) R4267020-5 09/01/25 11:27 • (MSD) R4267020-6 09/01/25 11:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500	ND	508	500	102	99.9	1	90.0-110			1.70	20

Method Blank (MB)

(MB) R4268966-1 09/04/25 19:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00210	0.00500

L1893368-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1893368-01 09/04/25 19:59 • (DUP) R4268966-3 09/04/25 20:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

L1893544-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1893544-01 09/04/25 20:36 • (DUP) R4268966-8 09/04/25 20:46

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4268966-2 09/04/25 19:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.106	106	87.1-120	

Method Blank (MB)

(MB) R4269887-1 09/07/25 19:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00210	0.00500

L1894762-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1894762-02 09/07/25 19:57 • (DUP) R4269887-7 09/07/25 19:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4269887-2 09/07/25 19:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0951	95.1	87.1-120	

L1894690-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1894690-01 09/07/25 19:46 • (MS) R4269887-3 09/07/25 19:50 • (MSD) R4269887-4 09/07/25 19:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0878	0.0684	87.8	68.4	1	90.0-110	J6	J3 J6	24.8	20

L1894753-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1894753-02 09/07/25 19:53 • (MS) R4269887-5 09/07/25 19:54 • (MSD) R4269887-6 09/07/25 19:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0852	0.0728	85.2	72.8	1	90.0-110	J6	J6	15.7	20

Method Blank (MB)

(MB) R4266971-1 08/29/25 15:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.547	1.00
Nitrate as (N)	U		0.0884	0.100
Sulfate	U		0.637	5.00

L1893368-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1893368-01 08/29/25 18:17 • (DUP) R4266971-3 08/29/25 18:34

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	18.6	18.7	1	0.0579		15
Nitrate as (N)	1.17	1.17	1	0.187		15
Sulfate	ND	ND	1	0.455		15

L1893368-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1893368-02 08/29/25 20:35 • (DUP) R4266971-6 08/29/25 20:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	88.5	88.5	1	0.0235		15
Nitrate as (N)	3.77	3.76	1	0.135		15
Sulfate	24.3	24.3	1	0.0819		15

Laboratory Control Sample (LCS)

(LCS) R4266971-2 08/29/25 15:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	34.4	86.1	80.0-120	
Nitrate as (N)	8.00	7.08	88.5	80.0-120	
Sulfate	40.0	34.4	85.9	80.0-120	

L1893368-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1893368-01 08/29/25 18:17 • (MS) R4266971-4 08/29/25 18:51 • (MSD) R4266971-5 08/29/25 19:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	18.6	50.5	52.1	79.6	83.5	1	80.0-120	J6		3.09	15
Nitrate as (N)	8.00	1.17	8.43	8.72	90.7	94.3	1	80.0-120			3.32	15
Sulfate	40.0	ND	37.4	38.5	87.9	90.8	1	80.0-120			3.02	15

L1893368-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1893368-02 08/29/25 20:35 • (MS) R4266971-7 08/29/25 21:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	88.5	104	38.1	1	80.0-120	E J6
Nitrate as (N)	8.00	3.77	10.8	88.1	1	80.0-120	E
Sulfate	40.0	24.3	56.1	79.6	1	80.0-120	J6

Method Blank (MB)

(MB) R4274543-1 09/17/25 04:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Fluoride	U		0.0761	0.150
Sulfate	U		0.637	5.00

L1898364-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1898364-01 09/17/25 04:40 • (DUP) R4274543-3 09/17/25 04:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	ND	ND	1	0.000		15
Sulfate	6.03	5.70	1	5.60		15

L1898364-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1898364-08 09/17/25 06:25 • (DUP) R4274543-5 09/17/25 06:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	ND	ND	1	0.000		15
Sulfate	11.9	10.9	1	8.77		15

Laboratory Control Sample (LCS)

(LCS) R4274543-2 09/17/25 04:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluoride	8.00	8.04	100	80.0-120	
Sulfate	40.0	39.5	98.7	80.0-120	

L1898364-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1898364-01 09/17/25 04:40 • (MS) R4274543-4 09/17/25 05:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	8.00	ND	8.97	112	1	80.0-120	
Sulfate	40.0	6.03	48.2	105	1	80.0-120	

L1898364-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1898364-08 09/17/25 06:25 • (MS) R4274543-6 09/17/25 06:49 • (MSD) R4274543-7 09/17/25 07:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	8.00	ND	1.90	8.35	23.7	104	1	80.0-120	J6	J3	126	15
Sulfate	40.0	11.9	11.1	49.8	0.000	94.6	1	80.0-120	J6	J3	127	15

Method Blank (MB)

(MB) R4267081-2 08/31/25 14:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TOC (Total Organic Carbon)	U		0.495	1.00

L1891308-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1891308-04 08/31/25 15:47 • (DUP) R4267081-5 08/31/25 16:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	ND	ND	1	0.000		20

L1891315-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1891315-10 08/31/25 20:47 • (DUP) R4267081-8 08/31/25 21:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	2.93	3.01	1	2.56		20

Laboratory Control Sample (LCS)

(LCS) R4267081-1 08/31/25 13:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25.0	24.7	98.8	80.0-120	

L1891308-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1891308-03 08/31/25 14:42 • (MS) R4267081-3 08/31/25 15:06 • (MSD) R4267081-4 08/31/25 15:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25.0	ND	25.3	25.0	101	99.8	1	75.0-125			1.19	20

L1891315-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1891315-09 08/31/25 19:38 • (MS) R4267081-6 08/31/25 20:02 • (MSD) R4267081-7 08/31/25 20:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25.0	2.28	26.9	27.0	98.5	98.7	1	75.0-125			0.186	20

Method Blank (MB)

(MB) R4270372-1 09/08/25 18:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000120	0.00200
Barium	U		0.000500	0.00200
Calcium	U		0.0925	1.00
Cobalt	U		0.000100	0.00200
Iron	U		0.0226	0.100
Lead	U		0.000500	0.00200
Magnesium	U		0.0827	1.00
Nickel	U		0.000500	0.00200
Potassium	U		0.0965	2.00
Sodium	U		0.142	2.00

Laboratory Control Sample (LCS)

(LCS) R4270372-2 09/08/25 19:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0509	102	80.0-120	
Barium	0.0500	0.0473	94.7	80.0-120	
Calcium	5.00	5.08	102	80.0-120	
Cobalt	0.0500	0.0525	105	80.0-120	
Iron	1.00	1.08	108	80.0-120	
Lead	0.0500	0.0501	100	80.0-120	
Magnesium	5.00	4.98	99.5	80.0-120	
Nickel	0.0500	0.0534	107	80.0-120	
Potassium	5.00	5.02	100	80.0-120	
Sodium	5.00	5.23	105	80.0-120	

L1893517-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1893517-02 09/08/25 19:03 • (MS) R4270372-4 09/08/25 19:09 • (MSD) R4270372-5 09/08/25 19:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	ND	0.0515	0.0518	102	103	1	75.0-125			0.704	20
Barium	0.0500	0.0379	0.0873	0.0871	98.9	98.3	1	75.0-125			0.328	20
Calcium	5.00	7.00	12.0	11.9	100	97.8	1	75.0-125			0.947	20
Cobalt	0.0500	0.00831	0.0610	0.0615	105	106	1	75.0-125			0.734	20
Iron	1.00	4.14	5.16	5.14	102	99.5	1	75.0-125			0.508	20
Lead	0.0500	ND	0.0509	0.0505	102	101	1	75.0-125			0.761	20
Magnesium	5.00	3.77	8.81	8.77	101	100	1	75.0-125			0.500	20

L1893517-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1893517-02 09/08/25 19:03 • (MS) R4270372-4 09/08/25 19:09 • (MSD) R4270372-5 09/08/25 19:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nickel	0.0500	0.00962	0.0631	0.0632	107	107	1	75.0-125			0.285	20
Potassium	5.00	2.18	7.31	7.28	102	102	1	75.0-125			0.302	20
Sodium	5.00	16.3	21.1	21.3	97.7	100	1	75.0-125			0.553	20

Method Blank (MB)

(MB) R4270916-1 09/09/25 13:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.000120	0.00200
Cobalt,Dissolved	U		0.000100	0.00200
Lead,Dissolved	U		0.000500	0.00200
Manganese,Dissolved	U		0.000700	0.00500
Nickel,Dissolved	0.00105	J	0.000500	0.00200

Laboratory Control Sample (LCS)

(LCS) R4270916-2 09/09/25 13:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic,Dissolved	0.0500	0.0507	101	80.0-120	
Cobalt,Dissolved	0.0500	0.0525	105	80.0-120	
Lead,Dissolved	0.0500	0.0502	100	80.0-120	
Manganese,Dissolved	0.0500	0.0523	105	80.0-120	
Nickel,Dissolved	0.0500	0.0525	105	80.0-120	

L1893666-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1893666-01 09/09/25 13:32 • (MS) R4270916-4 09/09/25 13:39 • (MSD) R4270916-5 09/09/25 13:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0160	0.0688	0.0688	106	106	1	75.0-125			0.0663	20
Cobalt,Dissolved	0.0500	ND	0.0520	0.0519	100	100	1	75.0-125			0.151	20
Lead,Dissolved	0.0500	ND	0.0497	0.0502	96.6	97.5	1	75.0-125			0.921	20
Manganese,Dissolved	0.0500	0.00647	0.0557	0.0556	98.5	98.3	1	75.0-125			0.211	20
Nickel,Dissolved	0.0500	0.0843	0.134	0.134	99.7	98.7	1	75.0-125			0.383	20

Method Blank (MB)

(MB) R4269866-1 09/07/25 16:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.000120	0.00200
Calcium	0.138	J	0.0925	1.00
Cobalt	U		0.000100	0.00200
Iron	U		0.0226	0.100
Lead	U		0.000500	0.00200
Magnesium	U		0.0827	1.00
Potassium	U		0.0965	2.00
Sodium	0.203	J	0.142	2.00

Laboratory Control Sample (LCS)

(LCS) R4269866-2 09/07/25 16:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	0.0500	0.0529	106	80.0-120	
Calcium	5.00	5.47	109	80.0-120	
Cobalt	0.0500	0.0539	108	80.0-120	
Iron	1.00	1.05	105	80.0-120	
Lead	0.0500	0.0520	104	80.0-120	
Magnesium	5.00	5.33	107	80.0-120	
Potassium	5.00	5.06	101	80.0-120	
Sodium	5.00	5.38	108	80.0-120	

L1894781-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1894781-01 09/07/25 16:35 • (MS) R4269866-4 09/07/25 16:42 • (MSD) R4269866-5 09/07/25 16:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00237	0.0556	0.0559	106	107	1	75.0-125			0.612	20
Calcium	5.00	111	115	116	86.7	104	1	75.0-125			0.748	20
Cobalt	0.0500	ND	0.0534	0.0542	106	107	1	75.0-125			1.45	20
Iron	1.00	0.226	1.31	1.39	108	116	1	75.0-125			6.10	20
Lead	0.0500	ND	0.0542	0.0528	106	104	1	75.0-125			2.60	20
Magnesium	5.00	51.7	56.4	57.4	93.7	114	1	75.0-125			1.79	20
Potassium	5.00	6.96	11.6	11.8	93.4	97.3	1	75.0-125			1.67	20
Sodium	5.00	85.5	90.9	91.8	108	127	1	75.0-125		V	1.05	20

Method Blank (MB)

(MB) R4268053-3 08/31/25 11:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,4-Dichlorobenzene	U		0.000277	0.00100
(S) Toluene-d8	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*100*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*86.5*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4268053-1 08/31/25 10:03 • (LCSD) R4268053-2 08/31/25 10:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dichlorobenzene	0.0250	0.0211	0.0206	84.4	82.4	79.0-120			2.40	20
(S) Toluene-d8				*104*	*95.6*	*80.0-120*				
(S) 4-Bromofluorobenzene				*101*	*93.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*99.1*	*92.0*	*70.0-130*				

L1893185-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1893185-05 08/31/25 12:14 • (MS) R4268053-4 08/31/25 20:02 • (MSD) R4268053-5 08/31/25 20:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dichlorobenzene	0.0250	ND	0.0190	0.0212	76.0	84.8	1	35.0-142			10.9	27
(S) Toluene-d8					*96.6*	*95.8*		*80.0-120*				
(S) 4-Bromofluorobenzene					*95.3*	*93.8*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*99.8*	*101*		*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Republic Services - CEC

117 Seaboard Ln.
Suite E100
Franklin. TN 37067

Billing Information:
Accounts Payable
621 Hill Ave
Nashville, TN 37210

Report to:
Michael Johnson 615-333-7797

Email To:
mjohnson@cecinc.com;spickrell@republicservic

Project Description:
Matlock Bend LF - Loudon, TN

City/State Collected: Loudon, TN

Please Circle: PT MT CT (ET)

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
313-710

Lab Project #
REPCECTN-MATLOCK

Collected by (print): Tony Baumgardner

Site/Facility ID #

P.O. #
31327749

Collected by (signature):

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	**NO3,Cl,F,SO4** 125mlHDPE-NoPres	**NO3,Cl,SO4** 125mlHDPE-NoPres	1,4-DCB 8260 40mlAmb-HCl	ALK 100ml Amb NoPres	CN 250mlHDPEAmb-NaOH	COD,NH3 250mlHDPE-H2SO4	Diss. As,Co,Mn,Pb 250mlHDPE-NoPres	Diss. Mn 250mlHDPE-NoPres	Diss. Mn,Ni 250mlHDPE-NoPres	Diss. Mn,Pb 250mlHDPE-NoPres	Remarks	Sample # (lab only)
MW-01	G	GW		8-28-25	1210	8		X		X	X	X				X		-01
MW-01A	G	GW		8-28-25	1300	8		X		X	X	X		X				-02
MW-02	G	GW		8-28-25	1350	8		X		X	X	X			X			-03
MW-03	G	GW		8-28-25	1242	8		X		X	X	X	X					-04
~~MW-4R~~		~~GW~~				~~8~~		~~X~~		~~X~~	~~X~~	~~X~~						
SOUTHWEST SPRING	G	GW		8-28-25	1330	11	X		X	X	X	X		X				-05
SPRING	G	GW		8-28-25	1355	8		X		X	X	X		X				-06
LEACHATE	G	GW		8-28-25	1415	8		X		X	X	X		X				-07

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:Tot. Metals = Ca,Fe,K,Mg,Na 6020

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier CFT

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: Y __N
ice

	Date:	Time:		
Relinquished by : (Signature)	8-28-25	1610	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 59
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/26/25 Time: 1610

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1893268

J231

Acctnum: **REPCECTN**
Template:**T279785**
Prelogin: **P1174548**
PM: **526 - Chris McCord**
PB: 8/26/25 mv
Shipped Via: **Courier**

Company Name/Address:
Republic Services - CEC

117 Seaboard Ln.
Suite E100
Franklin. TN 37067

Billing Information:
Accounts Payable
621 Hill Ave
Nashville, TN 37210

Report to:
Michael Johnson 615-333-7797

Email To:
mjohnson@cecinc.com;spickrell@republicservic

Project Description:
Matlock Bend LF - Loudon, TN

City/State Collected: **loudon, TN**

Please Circle: PT MT CT (ET)

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
313-710

Lab Project #
REPCECTN-MATLOCK

Collected by (print):
Tony Baumgart

Site/Facility ID #

P.O. #
31327749

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Diss. Mn,Zn 250mlHDPE-NoPres	TDS 1L-HDPE NoPres	TOC 250mlAmb-HCl	Tot. Met+As,Ba,Co,Ni 250mlHDPE-HNO3	Tot. Metals 250mlHDPE-HNO3	Tot. Metals+As,Co,Pb 250mlHDPE-HNO3	Tot. Metals+Ni 250mlHDPE-HNO3	Tot. Metals+Pb 250mlHDPE-HNO3	Tot. Metals+Zn 250mlHDPE-HNO3			Remarks	Sample # (lab only)
								X	X	Y	X	X	X	X	X				
MW-01	G	GW		8-28-25	1210	8		X	X					X					-01
MW-01A	G	GW		8-28-25	1300	8		X	X		X								-02
MW-02	G	GW		8-28-25	1350	8		X	X				X						-03
MW-03	G	GW		8-28-25	1242	8		X	X			X							-04
MW-4R		GW				8	X	X	X						X				
SOUTHWEST SPRING	G	GW		8-28-25	1330	11		X	X	X									-05
SPRING	G	GW		8-28-25	1355	8		X	X		X								-06
LEACHATE	G	GW		8-28-25	1415	8		X	X		X								-07

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1693368

Table #

Acctnum: **REPCECTN**
Template: **T279785**
Prelogin: **P1174548**
PM: **526 - Chris McCord**
PB: **8/26/25 MV**
Shipped Via: **Courier**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:Tot. Metals = Ca,Fe,K,Mg,Na 6020

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier **Clt**

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N
ice

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	82825	1610		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 59
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/28/25 Time: 1610
				Hold: Condition: NCF / OK

Multiple Parcel Form

L# 1893368

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
	TLA9	0.6	-.1	0.5	Yes / No / Not Present
	1	1.6	-.1	1.5	Yes / No / Not Present
	4	2.3	-.1	2.2	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Name

8/28/25
Date

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-01
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	83, humid and sunny
DATE & TIME	06/25/25, 1015	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Low-Flow	**FIELD REPRESENTATIVE**	Tbaumgart
TOTAL WELL DEPTH (feet)	45.00	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	6.66	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	38.34	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Initial	6.66	10:25	17.6	7	436.2	375.5	11.11	23.4	168
0.25	7.5	10:30	16.7	6.83	441.2	372.2	7.16	11.1	154
0.50	7.62	10:35	16.6	6.8	440.3	371	5.79	8.7	149
0.75	7.74	10:40	16.8	6.79	438.2	369.4	4.54	5.7	145
1.0	7.92	10:45	16.8	6.79	436	368.1	4.01	3.8	201
1.25	7.92	10:50	16.8	6.77	428.6	361.2	2.98	-0.1	196
1.50	8.43	10:55	15.3	6.82	418.9	342.6	2.72	0	139
1.75	8.9	11:00	15.3	6.8	415.2	339.6	2.44	0.4	108
2.0	9.4	11:05	15.4	6.81	414.8	337.8	2.32	1	99.7
2.25	9.5	11:10	15.2	6.8	414.2	337.1	2.27	2.9	68.7
2.50	9.85	11:15	15.3	6.81	415	337.3	2.18	3.1	70.4
2.75	9.88	11:20	15.1	6.81	415.9	337.6	2.12	4	77.7

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
2.75	9.88	11:20	15.1	6.81	415.9	337.6	2.12	4	77.7

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Cloudy, then clear, orange in color
Number of Containers	See COC	**Sampler Signature**	Tbaumgart

WELL DATA

Number of Baffles	2	**Well Cap Dedicated/In Place?**	Yes
Lock Condition	Good	**Fittings/Well Head Condition**	Good
Pad/Casing Quality	Buried under sediment	**Well Clear of Weeds/Accessible?**	Down a treacherous hill

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-1A
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	74, sunny
DATE & TIME	6/25/2025, 0720	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Low-Flow	**FIELD REPRESENTATIVE**	Tbaumgart
TOTAL WELL DEPTH (feet)	38.00	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	10.72	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	27.28	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Initial	10.72	0730	15.5	7.2	1049	856	7.49	2.3	9.44
0.25	12.3	0735	15.8	7.22	1090	899	6.66	0.8	3.91
0.50	12.3	0740	16	7.26	1107	915	6.23	-8.6	6.58
0.75	12.3	0745	15.5	7.27	1090	889	6	-9.1	6.67
1.0	12.3	0750	15.2	7.28	1081	883	5.72	-9.7	6.74

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
1.0	12.3	0750	15.2	7.28	1081	883	5.72	-9.7	6.74

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear, no odor
Number of Containers	See COC	**Sampler Signature**	Tbaumgart

WELL DATA

Number of Baffles	1	**Well Cap Dedicated/In Place?**	Yes
Lock Condition	Good	**Fittings/Well Head Condition**	Good
Pad/Casing Quality	Buried	**Well Clear of Weeds/Accessible?**	Yes

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-02
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	77, sunny
DATE & TIME	06/25/2025, 0800	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Low-Flow	**FIELD REPRESENTATIVE**	Tbaumgart
TOTAL WELL DEPTH (feet)	43.10	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	17.27	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	25.83	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Initial	17.27	08:10	18.2	5.83	94.7	77.6	6.43	77.9	11.1
0.25	18.7	0815	16.5	5.47	86.3	72.3	4.75	97.3	10.1
0.50	19	0820	15.5	5.37	78.5	64.2	3.94	132.5	10.8
0.75	19	0825	15.5	5.38	76	62.2	8.30	134.7	7.6
1.0	19	0830	15.4	5.38	74.9	61.3	8.31	135	8.97

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
1.0	19	0830	15.4	5.38	74.9	61.3	8.31	135	8.97

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear, no odor
Number of Containers	See COC	**Sampler Signature**	Tbaumgart

WELL DATA

Number of Baffles	2	**Well Cap Dedicated/In Place?**	Yes
Lock Condition	Good	**Fittings/Well Head Condition**	Good
Pad/Casing Quality	Buried	**Well Clear of Weeds/Accessible?**	Yes

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-03
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	75, sunny
DATE & TIME	6/25/2025, 0855	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Low-Flow	**FIELD REPRESENTATIVE**	Tbaumgart
TOTAL WELL DEPTH (feet)	41.60	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	19.18	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	22.42	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Initial	19.18	0905	15.5	6.21	271.2	223.6	5.78	99.4	89.7
0.25	22.56	0910	16.2	6.22	271.8	227	5.19	81	64.6
0.50	23.65	0915	15.7	6.24	269.4	220.8	6.74	71.4	56.2
0.75	25.15	0920	16.4	6.24	266.2	219.9	7.96	66	64.4
1.0	26.89	0925	16 6	6.28	266.5	223.3	7.01	62.5	45.3
1.25	26.9	0930	18.6	6:18	263.8	231.8	7:65	64.7	48.5
1.50	27.4	0935	17.7	6.22	267.4	230.2	7.49	62.4	45
1.75	27.65	0940	18.6	6.17	267.3	234.7	6.98	63.2	38.6
2.0	27.7	0945	19.6	6.13	267.8	240.3	6.93	64.5	34.8
2.25	27.7	0950	20.3	6.1	267.9	244	6.43	63.4	28.1
2.5	28.6	0955	16.5	6.13	270	226.9	7.64	65.9	30.7
2.75	29.4	1000	17.1	6.1	267.3	227	7.38	59.2	33.8

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
2.75	29.4	1000	17.1	6.1	267.3	227	7.38	59.2	33.8

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear, no odor
Number of Containers	See COC	**Sampler Signature**	Tbaumgart

WELL DATA

Number of Baffles	0	**Well Cap Dedicated/In Place?**	Yes
Lock Condition	Good	**Fittings/Well Head Condition**	Good
Pad/Casing Quality	Buried under sediment	**Well Clear of Weeds/Accessible?**	Poor*

*Almost completely buried due to high construction in the area

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-4R
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	91, humid and partly cloudy
DATE & TIME	06/23/25, 1320	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Low-Flow	**FIELD REPRESENTATIVE**	LMcCurry
TOTAL WELL DEPTH (feet)	107.13	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	101.36	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	5.77	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	1V = .94, 2V = .1.88, 3V = 2.82	**EQUIPMENT BLANK COLLECTED?**	No

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Initial	101.37	1339	27.2	11.12*	186.1	193.1	4.80	-182.7	14.1
1V	105.32	1346	26.8	-	162.3	144.8	5.63	-177.4	OR
2V	Dry	-	-	-	-	-	-	-	-
3V									

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Final: 06/24/25	102.25	0900	25.2	-	188.5	150.2	3.9	-165.2	201

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear, no odor
Number of Containers	See COC	**Sampler Signature**	LMcCurry

WELL DATA

Number of Baffles	3	**Well Cap Dedicated/In Place?**	Yes
Lock Condition	Good	**Fittings/Well Head Condition**	Good
Pad/Casing Quality	Buried under vegetation and sediment	**Well Clear of Weeds/Accessible?**	Needs weed-eating

*YSI #2 pH probe is malfuctioning. Was reading in the 11's. Conducted field calibration with no success.

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-5
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	90, sunny and humid
DATE & TIME	06/24/25, 1135	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Low-Flow	**FIELD REPRESENTATIVE**	LMcCurry
TOTAL WELL DEPTH (feet)	169.50	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	102.49	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	67.01	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Initial	102.49	1142	16.6	12.5*	277.7	229.4	8.93	-75.9	17.8
.41	102.04	1147	17.4	-	275.3	235.7	8.18	-76.2	16.8
.82	102.46	1152	16.8	-	276.2	233.9	8.63	-75.0	28
1.23	102.48	1157	16.9	-	277.0	233.6	8.89	-72.3	30.4
1.64	102.43	1202	16.9	-	277.1	234.3	8.89	-68.5	29.2
2.05	102.45	1207	16.9	-	276.0	234.3	9.36	-70.9	26.6
2.45	102.54	1212	17.1	-	275.6	234.9	9.43	-70.8	22.3
2.86	102.67	1217	19.0	-	279.7	244.2	9.09	-68.7	22.5
3.27	102.58	1222	17.4	-	277.6	237.3	9.91	-68.7	19.4
3.68	102.59	1227	17.4	--	276.7	236.6	9.86	-69.6	18.7
4.09	102.63	1232	17.8	-	275.2	238.6	9.69	-71.9	14.7
4.5	102.57	1237	17.7	-	275.6	238.9	9.74	-72.5	13.1

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
4.5	102.57	1237	17.7	-	275.6	238.9	9.74	-72.5	13.1

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear, no odor
Number of Containers	See COC	**Sampler Signature**	LMcCurry

WELL DATA

Number of Baffles	0	**Well Cap Dedicated/In Place?**	Yes
Lock Condition	Poor - needs a new one	**Fittings/Well Head Condition**	Good
Pad/Casing Quality	Good	**Well Clear of Weeds/Accessible?**	Yes

*YSI #2 pH probe is malfuctioning. Was reading in the 12's. Conducted field calibration with no success.

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-6R
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	83, humid and sunny
DATE & TIME	06/24/25, 0935	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Low- Flow	**FIELD REPRESENTATIVE**	LMcCurry
TOTAL WELL DEPTH (feet)	62.60	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	48.8	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	13.8	**FIELD BLANK COLLECTED?**	Yes, 06/24/25, 1000
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Initial	48.8	0949	16.6	7.55	33.1	28.6	13.03	-21.0	17.5
.25	51.34	0954	15.6	5.98	24.6	20.1	9.41	34.8	10.1
.5	53.78	0959	15.4	5.85	22.7	18.4	9.20	47.7	8.24
.75	56.11	1004	15.4	5.66	22.8	18.5	9.14	52.5	9.91
1	57.96	1009	15.4	5.57	23.0	18.8	8.82	54.5	23.0
1.25	58.15	1014	17.1	5.58	23.1	19.6	7.72	37.1	35.4
1.5	58.48	1019	17.1	5.67	23.7	20.0	7.51	50.2	40.3
1.75	T.O.P	1024	17.6	5.51	24.2	20.8	7.52	52.0	37.7
2	T.O.P.	1029	17.4	5.53	24.3	20.8	7.55	50.3	18.6
2.25	T.O.P.	1034	17.6	5.10	24.4	22.1	8.44	62.5	20.1
2.5	T.O.P.	1039	17.9	4.62	24.5	24.6	10.3	74.1	37.5
2.75	T.O.P.	1044	19.0	4.64	24.7	21.8	9.81	68.7	36.0

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
2.75	50.56	1425*	19.0	4.64	24.7	21.8	9.81	68.7	36.0

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear, no odor
Number of Containers	See COC	**Sampler Signature**	LMcCurry

WELL DATA

Number of Baffles	4	**Well Cap Dedicated/In Place?**	Yes
Lock Condition	Good	**Fittings/Well Head Condition**	Good
Pad/Casing Quality	Good	**Well Clear of Weeds/Accessible?**	Yes

*Sampled later the same day to allow well to recharge properly.

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-7
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	94, humid and sunny
DATE & TIME	06/24/25, 1259	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Low-Flow	**FIELD REPRESENTATIVE**	LMcCurry
TOTAL WELL DEPTH (feet)	35.45	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	29.11	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	Yes, 06/24/25
WATER COLUMN (feet)	6.34	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Initial	29.11	1305	15.8	7.21	29.3	23.8	11.15	-58.3	2.95
.46	29.81	1310	14.8	6.33	25.3	20.5	9.12	23	3.49
.92	30.25	1315	14.6	6.08	25.0	20.0	8.70	23.5	4.96
1.38	30.92	1320	14.6	5.95	24.5	19.6	8.33	33.0	3.07
1.84	31.33	1325	14.6	5.71	24.2	19.4	8.46	38.0	2.11
2.30	31.7	1330	14.5	5.65	24.2	19.3	8.32	42.7	2.76
2.75	31.89	1335	14.7	5.69	23.9	19.2	8.19	50.4	2.55

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
2.75	31.89	1335	14.7	5.69	23.9	19.2	8.19	50.4	2.55

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear, no odor
Number of Containers	See COC	**Sampler Signature**	LMcCurry

WELL DATA

Number of Baffles	4	**Well Cap Dedicated/In Place?**	Yes
Lock Condition	Good	**Fittings/Well Head Condition**	Good
Pad/Casing Quality	Good	**Well Clear of Weeds/Accessible?**	Yes

GROUNDWATER MONITORING FIELD INFORMATION LOG

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SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	SOUTHWEST SPRING
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	97, humid and sunny
DATE & TIME	06/24/2025, 1420	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Grab	**FIELD REPRESENTATIVE**	T. Baumgart
TOTAL WELL DEPTH (feet)	-	**SAMPLING EQUIPMENT**	Grab
DEPTH TO WATER (feet)	-	**IS SAMPLE EQUIPMENT DEDICATED?**	No
CASING DIAMETER (inches)	-	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	-	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
-	-	14:25	17.90	6.72	2952.00	2555.00	9.05	104	6.32

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear no odor
Number of Containers	See COC	**Sampler Signature**	T. Baumgart

DATA

Number of Baffles	-	**Well Cap Dedicated/In Place?**	-
Lock Condition	-	**Fittings/Well Head Condition**	-
Pad/Casing Quality	-	**Well Clear of Weeds/Accessible?**	-

GROUNDWATER MONITORING FIELD INFORMATION LOG

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SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	SPRING
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	98 sunny
DATE & TIME	6/24/2025, 1345	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Grab	**FIELD REPRESENTATIVE**	T. Baumgart
TOTAL WELL DEPTH (feet)	-	**SAMPLING EQUIPMENT**	Grab
DEPTH TO WATER (feet)	-	**IS SAMPLE EQUIPMENT DEDICATED?**	No
CASING DIAMETER (inches)	-	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	-	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
-	-	13:50	18.7	6.96	1441	1271	14.57	31.4	22.3
Preservatives Used	See COC			**Sample Charateristics (Odor, Color)**			Murky. No odor		
Number of Containers	See COC			**Sampler Signature**			T. Baumgart		

DATA

Number of Baffles	-	**Well Cap Dedicated/In Place?**	-
Lock Condition	-	**Fittings/Well Head Condition**	-
Pad/Casing Quality	-	**Well Clear of Weeds/Accessible?**	-

GROUNDWATER MONITORING FIELD INFORMATION LOG

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SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	LEACHATE internal
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	95, humid and sunny
DATE & TIME	06/24/2025, 1515	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Grab	**FIELD REPRESENTATIVE**	Tbaumgart
TOTAL WELL DEPTH (feet)	-	**SAMPLING EQUIPMENT**	Grab
DEPTH TO WATER (feet)	-	**IS SAMPLE EQUIPMENT DEDICATED?**	No
CASING DIAMETER (inches)	-	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	-	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
-	-	15:20	30.6	7.76	12052	13316	1.53	0.1	OR

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Black, pungent odor
Number of Containers	See COC	**Sampler Signature**	Tbaumgart

DATA

Sample port/Casing Quality	Good	**Clear of Weeds/Accessible?**	Yes

EQUIPMENT CALIBRATION LOG

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EQUIPMENT CALIBRATION FORM

NAME OF REPRESENTATIVE	Liz McCurry
LOCATION	CEC (Franklin TN)
DATE AND TIME	6/23/25 05:10A
Equipment and Model # (ex. YSI Pro Plus 556)	YSI #2
Equipment Serial #	24B103761

pH Calibration

pH buffer Calibration Standard	Buffer solution exp. date	Pre-Cal Reading (S.U.)	ph mV Value	Accepted Range mV	Within Range? (Yes or No)	Post-Cal Reading (S.U.)	Calibrated? (yes/no)
4	5/11/26	4.51	123.7	160 to 180	N	4.37	y
7	8/20/26	7.32	-44.2	+/-50	N	7.38	y
10	9/19/26	9.82	-189.3	-160 to -180	N	9.99	y

Temperature Calibration Check

Cert. Thermometer Value (deg C)	Meter Value (deg C)
—	—

DO Calibration

Actual Barometric Pressure	Barometric Pressure (mm Hg)	D.O. Value (% Saturated)	Unit reading (%)	% DO accepted?
766	766	90-100	95.8	y

Specific Conductivity Calibration

Sp. Conductivity Calibration Standard buffer solution	Buffer solution exp. date	Pre Cal Reading (umhos)	Post Cal Reading (umhos)
1409	12/5/26	1435	1409

ORP Calibration

ORP Calibration (mV)	Buffer solution exp. date	Pre Cal Reading (mV)	Post Cal Reading (mV)
220	2/18/26	218.5	218.5

Hach Model 2100P Turbidimeter Calibration Hach #4

Calibration verification Test performed and passed?	NTU Standard	Within Range? (Yes/No)	Measured Value	Stored?	Final Verification test passed? (Yes/No)
Yes	20	y	20.3	y	y
No	100	y	99.6	y	y
Note: if verification passed, calibration not required	800	y	802	y	y
	10	y	9.89	y	y

EQUIPMENT CALIBRATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

EQUIPMENT CALIBRATION FORM

NAME OF REPRESENTATIVE	~~EBT~~ Liz McCurry
LOCATION	CEC (Franklin, TN) for Marlock Bend (Day 1)
DATE AND TIME	6/23/25 05:05A
Equipment and Model # (ex. YSI Pro Plus 556)	YSI #3
Equipment Serial #	18E106563

pH Calibration

pH buffer Calibration Standard	Buffer solution exp. date	Pre-Cal Reading (S.U.)	ph mV Value	Accepted Range mV	Within Range? (Yes or No)	Post-Cal Reading (S.U.)	Calibrated? (yes/no)
4	5/11/26	4.45	153.2	160 to 180	N	4.38	Y
7	8/20/26	7.30	-17.2	+/-50	N	7.29	Y
10	9/19/26	10.08	-181.0	-160 to -180	N	10.10	Y

Temperature Calibration Check

Cert. Thermometer Value (deg C)	Meter Value (deg C)
—	—

DO Calibration

Actual Barometric Pressure	Barometric Pressure (mm Hg)	D.O. Value (% Saturated)	Unit reading (%)	% DO accepted?
766	766	40-100	93.3	Y

Specific Conductivity Calibration

Sp. Conductivity Calibration Standard buffer solution	Buffer solution exp. date	Pre Cal Reading (umhos)	Post Cal Reading (umhos)
1409	12/5/26	1364	1409

ORP Calibration

ORP Calibration (mV)	Buffer solution exp. date	Pre Cal Reading (mV)	Post Cal Reading (mV)
220	245.7	2/18/26	220.1

Hach Model 2100P Turbidimeter Calibration

Hach #7

Calibration verification Test performed and passed?	NTU Standard	Within Range? (Yes/No)	Measured Value	Stored?	Final Verification test passed? (Yes/No)
Yes	20	Y	21.4	Y	Y
No	100	Y	106	Y	Y
Note: if verification passed, calibration not required	800	Y	817	Y	Y
	10	Y	9.44	Y	Y

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-01
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	69 sunny
DATE & TIME	8/28/2025	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Low-Flow	**FIELD REPRESENTATIVE**	T. Baumgart
TOTAL WELL DEPTH (feet)	45.00	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	9.26	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	N
WATER COLUMN (feet)	35.74	**FIELD BLANK COLLECTED?**	N
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	N

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
0.25	9.33	1110	16.20	6.75	436.50	362.30	9.52	55.7	101.4
0.5	9.87	1115	15.80	6.49	438.10	360.80	4.97	49.2	46.9
0.75	9.65	1120	16.40	6.47	438.20	366.50	4.73	47.3	27.1
1	9.8	1125	15.70	6.42	435.90	359.20	4.19	48.7	25.2
1.25	9.8	1130	16.60	6.43	435.40	365.90	4.07	47.6	25.9
1.5	9.81	1135	17.50	6.60	437.90	375.40	3.91	38.7	24.1
1.75	9.78	1140	17.70	6.52	440.40	379.30	3.84	43.4	25.7
2	9.75	1150	17.90	6.44	442.20	381.90	3.58	49.3	26.8
2.25	9.77	1200	17.90	6.44	444.50	383.90	3.41	46.7	27.2
2.5	9.8	1210	18.20	6.44	441.50	384.30	3.28	46.8	30.3

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
2.5	9.8	1210	18.20	6.44	441.50	384.30	3.28	46.8	30.3

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear, no odor
Number of Containers	See COC	**Sampler Signature**	TBaumgart

WELL DATA

Number of Baffles	2	**Well Cap Dedicated/In Place?**	yes
Lock Condition	Good	**Fittings/Well Head Condition**	good
Pad/Casing Quality	Buried	**Well Clear of Weeds/Accessible?**	yes

GROUNDWATER MONITORING FIELD INFORMATION LOG

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SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-1A
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	71 sunny
DATE & TIME	8/28/2025	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Low-Flow	**FIELD REPRESENTATIVE**	T. Baumgart
TOTAL WELL DEPTH (feet)	38.00	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	14.58	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	N
WATER COLUMN (feet)	23.42	**FIELD BLANK COLLECTED?**	N
PURGE VOLUME (gallons)		**EQUIPMENT BLANK COLLECTED?**	N

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Initial	14.58	1240	16.30	6.82	789.00	659.00	6.12	41.5	5.13
0.25	14.6	1245	16.10	6.72	954.00	797.00	3.7	39.9	4.35
0.5	14.72	1250	15.90	6.91	1123.00	929.00	2.53	17.9	3.46
0.75	14.8	1255	15.90	6.93	1073.00	887.00	2.51	3	2.78
1	14.8	1300	16.00	6.93	1047.00	866.00	2.5	6.7	2.45

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
1	14.8	1300	16.00	6.93	1047.00	866.00	2.5	6.7	2.45

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear no odor
Number of Containers	See COC	**Sampler Signature**	Tbaumgart

WELL DATA

Number of Baffles	2	**Well Cap Dedicated/In Place?**	Yes
Lock Condition	Good	**Fittings/Well Head Condition**	Good
Pad/Casing Quality	Buried	**Well Clear of Weeds/Accessible?**	Yes

GROUNDWATER MONITORING FIELD INFORMATION LOG

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SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-02
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	74 suny
DATE & TIME	8/28/2025	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Low-Flow	**FIELD REPRESENTATIVE**	T. Baumgart
TOTAL WELL DEPTH (feet)	43.10	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	23.07	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	N
WATER COLUMN (feet)	20.03	**FIELD BLANK COLLECTED?**	N
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	N

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Initial	23.07	1320	16.50	6.30	125.10	104.80	6.48	10.3	5.58
0.25	25.9	1325	16.00	5.08	112.90	93.70	2.7	93.1	1.41
0.5	26.42	1330	15.50	5.22	108.40	88.80	4.82	131.7	0.93
0.75	26.6	1335	16.00	4.97	105.80	88.40	7.57	183.1	0.86
1	26.7	1340	16.50	5.16	105.40	88.30	9.03	210.3	1.15
1.25	26.72	1345	16.60	5.16	105.90	89.00	9.01	215.8	0.85
1.5	26.79	1350	16.50	5.15	104.00	88.00	9.32	222.5	0.84

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
1.5	26.79	1350	16.50	5.15	104.00	88.00	9.32	222.5	0.84

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear no odor
Number of Containers	See COC	**Sampler Signature**	Tbaumgart

Number of Baffles	2	**Well Cap Dedicated/In Place?**	Yes
Lock Condition	Good	**Fittings/Well Head Condition**	Good
Pad/Casing Quality	Buried	**Well Clear of Weeds/Accessible?**	Yes

GROUNDWATER MONITORING FIELD INFORMATION LOG

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SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	MW-03
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	75, sunny and humid
DATE & TIME	08/28/25, 1100	**EVENT FREQUENCY**	Re-sample
PURGE METHOD	Low-Flow	**FIELD REPRESENTATIVE**	LMcCurry
TOTAL WELL DEPTH (feet)	41.60	**SAMPLING EQUIPMENT**	QED Bladder Pump (MP10)
DEPTH TO WATER (feet)	20.94	**IS SAMPLE EQUIPMENT DEDICATED?**	Yes
CASING DIAMETER (inches)	2	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	20.66	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

PURGE INFORMATION

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
Initial	20.94	1222	18	7.36	258.1	212.9	5.24	192.2	1.9
	24.39	1227	15.9	7.12	230.1	189.9	1.69	243.9	5.84
	26.61	1232	15.8	6.58	217.4	179.1	2.41	251.7	4.11
	26.69	1237	16.2	6.57	214.4	178.2	2.60	255.5	3.37
1.75	26.70	1242	16.3	6.58	214.8	179.1	2.65	257.9	2.88

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
1.75	26.70	1242	16.3	6.58	214.8	179.1	2.65	257.9	2.88

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear, no odor
Number of Containers	See COC	**Sampler Signature**	LMcCurry

WELL DATA

Number of Baffles	1	**Well Cap Dedicated/In Place?**	Yes
Lock Condition	Good	**Fittings/Well Head Condition**	Good
Pad/Casing Quality	Buried under sediment	**Well Clear of Weeds/Accessible?**	Nearly buried in sediment, and surrounded by foliage

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	SPRING
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	75 Sunny
DATE & TIME	8/28/2025	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Grab	**FIELD REPRESENTATIVE**	Liz McCurry
TOTAL WELL DEPTH (feet)	-	**SAMPLING EQUIPMENT**	Grab
DEPTH TO WATER (feet)	-	**IS SAMPLE EQUIPMENT DEDICATED?**	No
CASING DIAMETER (inches)	-	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	-	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)		**EQUIPMENT BLANK COLLECTED?**	No

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
-	-	1330	18.90	9.32	3299.00	2916.00	1	-56.7	1.12

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Clear, no odor
Number of Containers	See COC	**Sampler Signature**	lm

DATA

Sample port/Casing Quality	good	**Clear of Weeds/Accessible?**	yes

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	SPRING
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	75 Sunny
DATE & TIME	8/28/2025	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Grab	**FIELD REPRESENTATIVE**	Liz McCurry
TOTAL WELL DEPTH (feet)	-	**SAMPLING EQUIPMENT**	Grab
DEPTH TO WATER (feet)	-	**IS SAMPLE EQUIPMENT DEDICATED?**	No
CASING DIAMETER (inches)	-	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	-	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)		**EQUIPMENT BLANK COLLECTED?**	No

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
-	-	1355	18.60	8.89	1367.00	1199.00	1.57	100.1	16.5

Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	clear, no odor
Number of Containers	See COC	**Sampler Signature**	lm

DATA

Sample port/Casing Quality	-	**Clear of Weeds/Accessible?**	yes

GROUNDWATER MONITORING FIELD INFORMATION LOG

Civil & Environmental Consultants, Inc. 117 Seaboard Lane Suite E100 Franklin, Tennessee 37067 - 800-763-2326 - www.cecinc.com

SITE AND MONITORING WELL DATA

FACILITY NAME	Matlock Bend Landfill	**MONITORING WELL I.D.**	LEACHATE
LOCATION	Loudon, TN	**TEMPERATURE & WEATHER**	75 Sunny
DATE & TIME	8/28/2025	**EVENT FREQUENCY**	Semi-Annual
PURGE METHOD	Grab	**FIELD REPRESENTATIVE**	T. Baumgart
TOTAL WELL DEPTH (feet)	-	**SAMPLING EQUIPMENT**	Grab
DEPTH TO WATER (feet)	-	**IS SAMPLE EQUIPMENT DEDICATED?**	No
CASING DIAMETER (inches)	-	**DUPLICATE COLLECTED?**	No
WATER COLUMN (feet)	-	**FIELD BLANK COLLECTED?**	No
PURGE VOLUME (gallons)	-	**EQUIPMENT BLANK COLLECTED?**	No

SAMPLE DATA

Gallons Purged	DTW (ft)	Time (00:00)	°C	pH	Specific Cond (µs/cm)	Conductivity (µs/cm)	DO (mg/L)	ORP	NTU
	-	1415	24.90	7.64	10478.00	10455.00	0.62	-206.1	OR

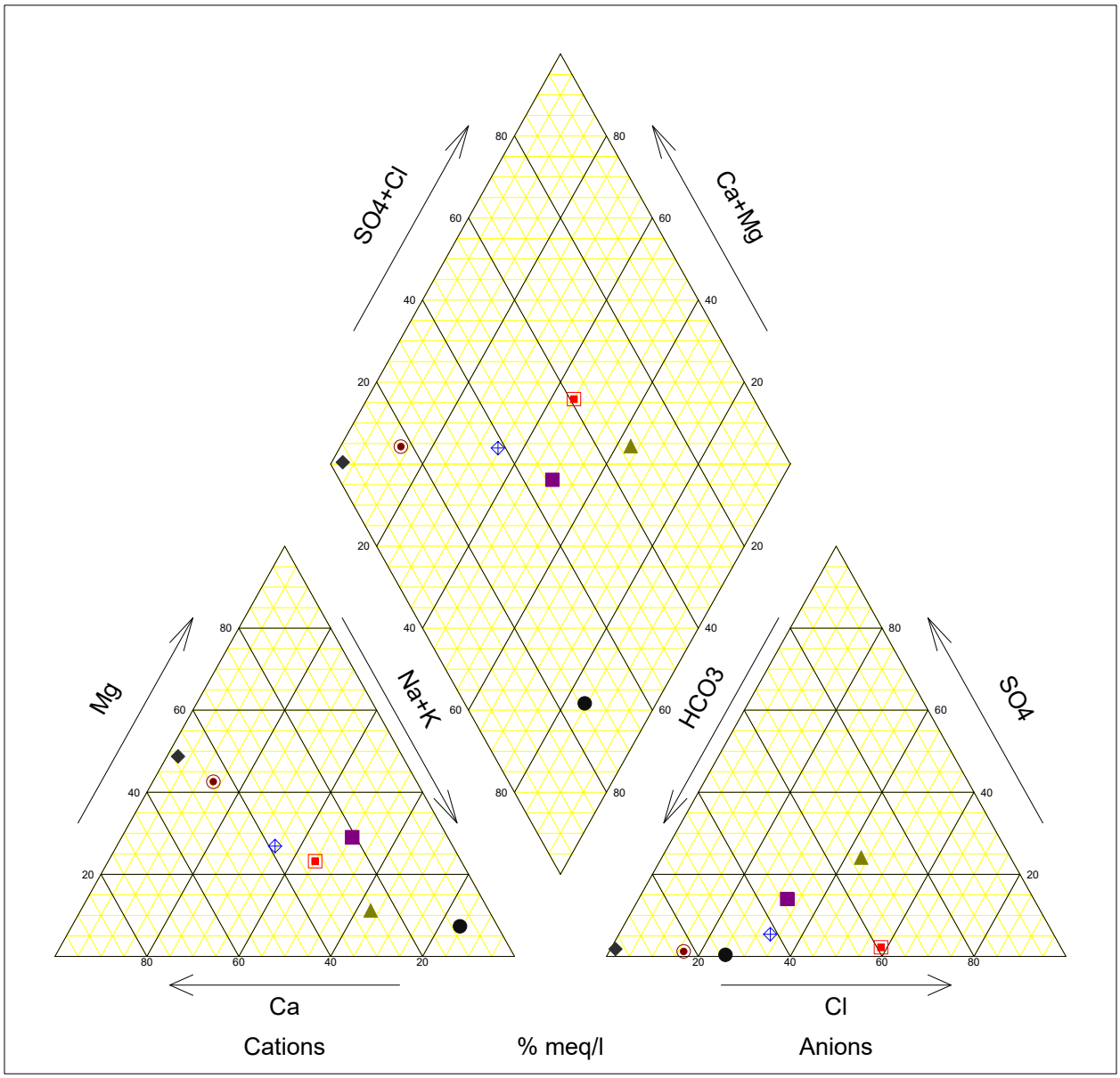
Preservatives Used	See COC	**Sample Charateristics (Odor, Color)**	Vey sweet Odor, Very dark
Number of Containers	See COC	**Sampler Signature**	Tbaumgart

DATA

Sample port/Casing Quality	-	**Clear of Weeds/Accessible?**	Yes

APPENDIX D
PIPER AND STIFF DIAGRAMS

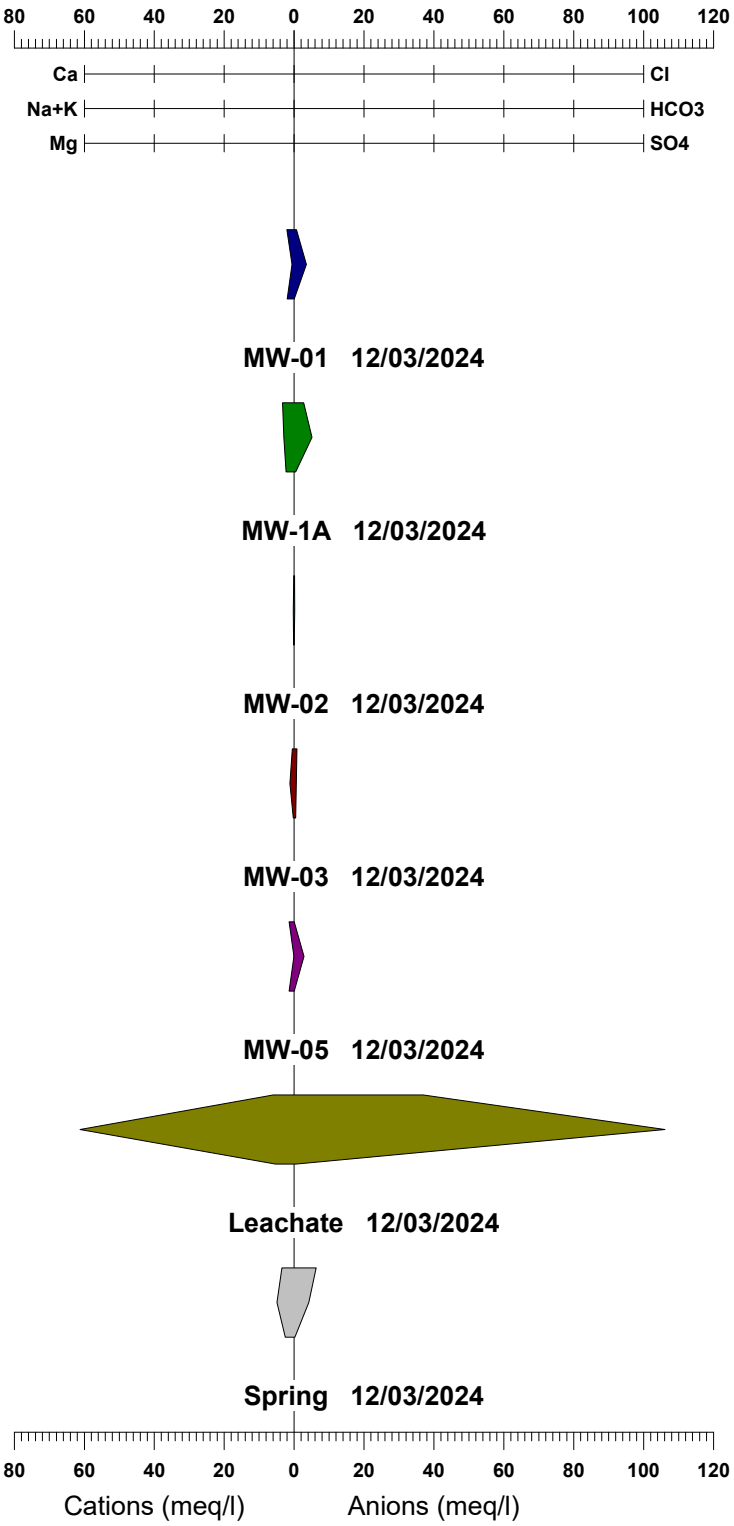
MATLOCK BEND LF - DECEMBER 2024 - PIPER TRILINEAR DIAGRAM



MW-01	12/03/2024
MW-1A	12/03/2024
MW-02	12/03/2024
MW-03	12/03/2024
MW-05	12/03/2024
Leachate	12/03/2024
Spring	12/03/2024

Prepared by: Eagon & Associates, Inc.

MATLOCK BEND LF - DECEMBER 2024 - STIFF DIAGRAMS



Prepared by: Eagon & Associates, Inc.

Table 4
Summary of Indicator Parameter Results (mg/L)
August 28, 2025 Supplemental Monitoring Event

Parameter	Alkalinity	Calcium	COD	Chloride	Cyanide	Iron	Magnesium	Manganese (dissolved)	Nitrogen (Ammonia)	Nitrogen (Nitrate)	Potassium	Sodium	Sulfate	TDS	TOC
MCL/GWPS	N/A	NA	NA	250 [1]	0.2	0.3 [1]	NA	0.43 [2]	NA	10	NA	NA	250 [1]	500 [1]	NA
MW-4R	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW-01	**194**	**38.8**	<20	**18.6**	<0.005	**0.12**	**23.3**	<0.005	<0.1	**1.17**	**2.86**	**10.80**	<5	**236**	<1
MW-1A	**299**	**80.4**	<20	**88.5**	**0.00664**	<0.1	**34.4**	**0.00931**	<0.1	**3.77**	**36.8**	**59.9**	**24.3**	**468**	<1
MW-02	<20	**2.13**	<20	**3.83**	<0.005	<0.1	**1.9**	**0.190**	<0.1	**4.24**	**3.05**	**3.88**	<5	**59**	<1
MW-03	**30.5**	**7.97**	<20	**25.5**	<0.005	**0.11**	**2.49**	**3.00**	**0.59**	**1.18**	**3.35**	**24.7**	**12.8**	**110**	**1.19**
Southwest Spring	**372**	**128**	<40	**743**	<0.005	**10.50**	**83.3**	**1.30**	**5.80**	<0.50	**70.5**	**287**	<25	**1,460**	<1
Spring	**218**	**70.5**	**21.4**	**230**	<0.005	**0.33**	**30.9**	**0.837**	**0.84**	**6.69**	**45.0**	**96.9**	**12.1**	**664**	**1.02**
Leachate	**4280**	**114**	**1630**	**982**	**0.0106**	**6.11**	**62.4**	**0.722**	**845**	<1.0	**345.0**	**1060**	**10.9**	**4580**	**502**

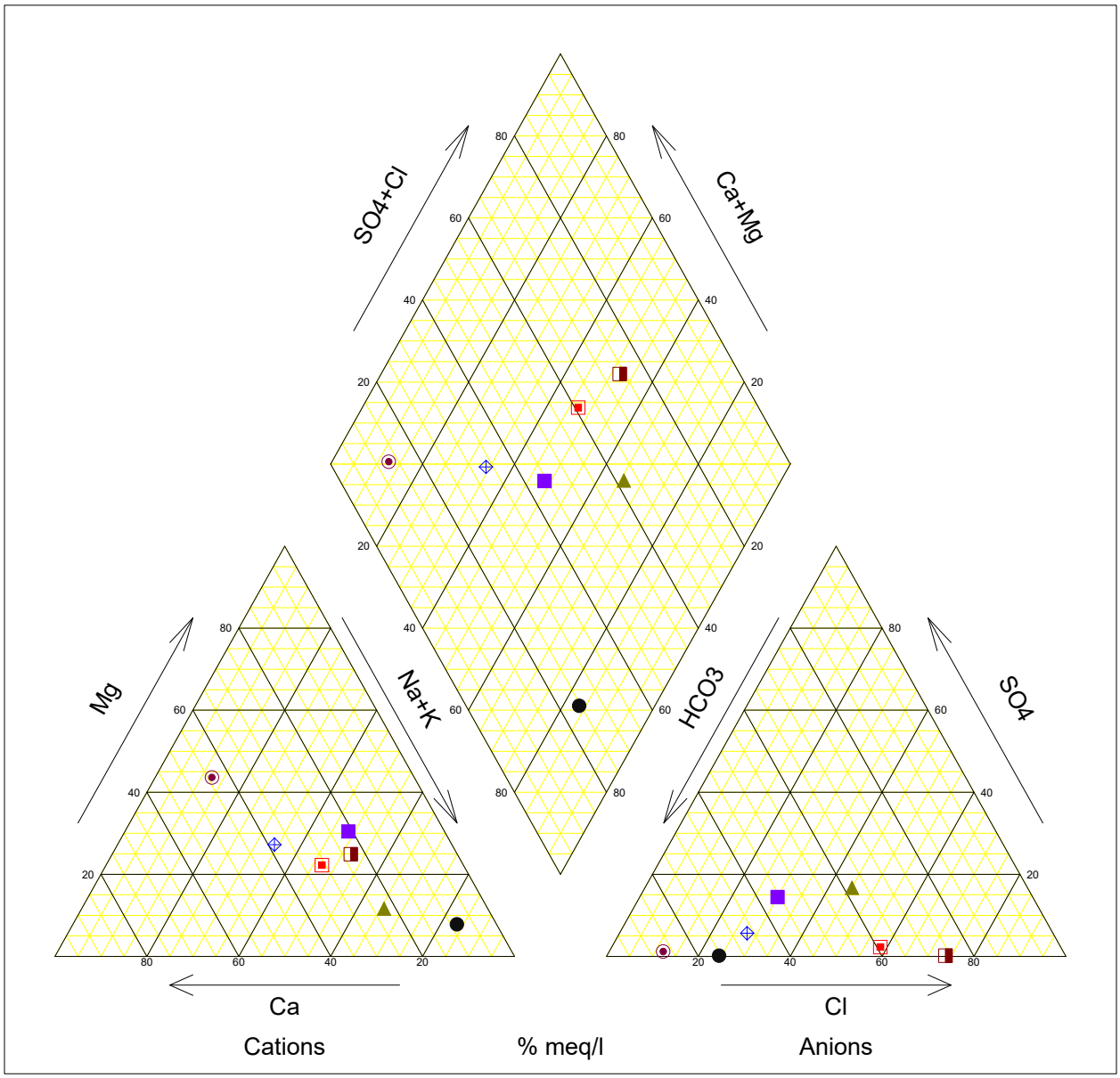
[1] -GWPS referenced value obtained from EPA secondary drinking water standards (non-enforceable).

[2] -GWPS referenced value obtained from most recent EPA Regional Screening Levels (THQ=1.0).

Bold value indicates result detected above the laboratory reporting limit.

NA: Parameter does not have an established MCL or EPA RSL.

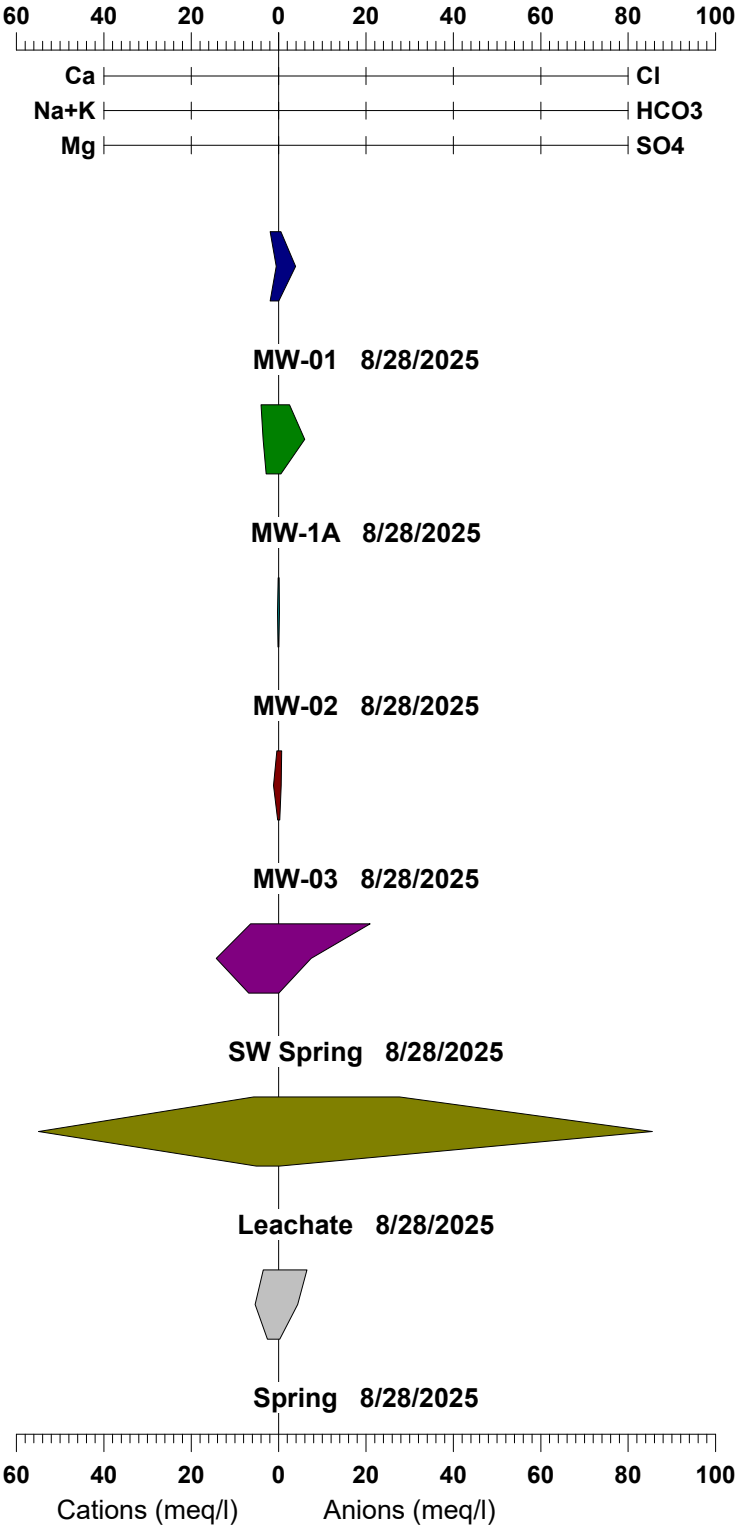
MATLOCK BEND LF - AUGUST 2025 - PIPER TRILINEAR DIAGRAM



MW-01	8/28/2025
MW-1A	8/28/2025
MW-02	8/28/2025
MW-03	8/28/2025
SW Spring	8/28/2025
Leachate	8/28/2025
Spring	8/28/2025

Prepared by: Eagon & Associates, Inc.

MATLOCK BEND LF - AUGUST 2025 - STIFF DIAGRAMS



Prepared by: Eagon & Associates, Inc.

Matlock Bend Landfill
21712 TN-72, Loudon, TN 37774
o 865.458.2651 republicservices.com

October 13, 2025

Ms. Paula Plont
Tennessee Department of Environment & Conservation
Division of Solid and Hazardous Waste Management
3711 Middlebrook Pike
Knoxville, TN 37921

Re: 3rd Quarter 2025 LFG Monitoring Report
Matlock Bend Landfill, TDEC MSW Permit No. SNL 53-0203
Loudon County, Tennessee

Dear Ms. Plont:

The purpose of this letter is to provide the Tennessee Department of Environment and Conservation (TDEC) with the quarterly landfill gas (LFG) monitoring report for the Matlock Bend Landfill.

The quarterly LFG monitoring probe readings were taken on July 11, 2025, and all probes/enclosed structures methane readings were below the regulatory limit for this monitoring event. The monitoring was performed by SCS Engineers personnel. The quarterly probe/enclosed structures readings are included in the Attachment.

During your review, if you need additional information or have any questions, please contact me at 828-708-1271.

Sincerely,

Pickrell, Stoddard

Digitally signed by: Pickrell, Stoddard
DN: CN = Pickrell, Stoddard
OU = *Regions, East, Users
Date: 2025.10.13 15:25:08 -04'00'

Stoddard Pickrell
Environmental Manager

Attachment 1: Monitoring Location Figures
Attachment 2: Quarterly LFG Monitoring Readings

August 7, 2025
File No. 07225132.00

Ms. Holly VanKirk
Republic Services
1018 E 38th St
Chattanooga, TN 37407

Subject: Landfill Gas Monitoring Report, **Third Quarter 2025**
Methane Perimeter Probes and Buildings Sampling
Loudon County (Matlock Bend) Landfill, Loudon,
Tennessee Permit # SNL530000203

Dear Ms. VanKirk:

SCS Engineers (SCS) is pleased to provide the results of the third quarter 2025 landfill gas (LFG) monitoring probes and buildings monitoring at Loudon County Landfill in accordance with Rule 0400-11-01-.04 5 (a), TDEC SWM (Tennessee Department of Environment and Conservation Solid Waste Management) rules. Provided below is a description of our activities and a summary of the monitoring results.

Background

The Loudon County landfill also known as the Matlock Bend landfill is an active Class I landfill. The landfill currently has several gas vents within the waste footprint but does not have an active gas system.

LFG monitoring probes are designed to monitor whether methane and other gases are migrating underground outside of the landfill area. When permanent probes are not installed bar-hole punches along the perimeter outline of the waste mass are utilized to assure no landfill gas migrates away from the landfill. There is one (1) permanent LFG monitoring probe located on site. Additional data were collected from 6 bar-hole punches installed along the perimeter of the landfill. Attachment 1 shows the location of the LFG monitoring probe and the perimeter boundary along which the 6 bar punches were installed and sampled.

Additionally, Rule 0400-11-01-.04 5 (a) of the TDEC SWM rules requires the following:

- The concentration of explosive gases in facility structures (excluding gas control or recovery system components) does not exceed 25 percent of the lower explosive limit (LEL) for the gases;

Monitoring results

On July 11, 2025, SCS personnel monitored the LFG monitoring probe, the barhole punches, and on-site structures using an Envision 200B gas monitor to measure gas composition. The Envision 200B measures gas by percent volume of methane, carbon dioxide, oxygen, and balance gas, which is considered to be composed primarily of nitrogen. The instrument was calibrated prior to use during the sampling event.

LFG Monitoring Barhole Punches

Attachment 2 shows the readings obtained from the 1 LFG monitoring probe and the perimeter barhole punches monitoring along the property boundary, no methane above the LEL was detected in the monitoring probes.

Monitoring of On-Site Structures

SCS monitored the scale house and shop. Readings were taken while walking around the buildings and interior rooms in a continuous manner. The location of the structures monitored can be seen in Attachment 1, and Attachment 2 shows the readings of the two on-site structures.

Conclusions

The methane percentage values are all below the regulatory threshold for the 7 LFG monitoring locations and 2 structures. The facility is thus in compliance with its operations permit for gas migration and monitoring and no further tests are required until the fourth quarter of 2025.

Please call George Whitehorn at (678) 888 - 7669 if you have questions or require additional information.

Sincerely,

George Whitehorn
Project Manager
SCS Field Services

Joe Schillaci
Project Manager
SCS Field Services

Enclosure - Attachments

ATTACHMENT 1

LFG MONITORING PROBE LOCATIONS

▽ calibration record
From : Not Assigned
To : Not Assigned

△ monitoring probe
From : 07/01/2025
To : 09/30/2025

Point Type Legend

▽ calibration record

△ monitoring probe

* For a list of point-specific monitoring requirements please download the Points Specific Monitoring Report

N

■ Monitored Points

□ Not Monitored Points

Loudon County (Matlock Bend) Landfill
Monitoring Status Map

Map generation date : 08/07/2025

ATTACHMENT 2

2nd QUARTER PROBE/BUILDING MONITORING RESULTS

ATTACHMENT 2
LANDFILL GAS MIGRATION MONITORING
3rd QUARTER 2025
LOUDON COUNTY LANDFILL, TENNESSEE

Methane Monitoring Locations	CH_4 (%)	% LEL
MMW-1 (Methane Monitoring Probe)	0.0	0.0
Perimeter (#1 barhole punch)	0.0	0.0
Perimeter (#2 barhole punch)	0.0	0.0
Perimeter (#3 barhole punch)	0.0	0.0
Perimeter (#4 barhole punch)	0.0	0.0
Perimeter (#5 barhole punch)	0.0	0.0
Perimeter (#6 barhole punch)	0.0	0.0

On-Site Structures	CH_4 (%)	% LEL
Scale House	0.0	0.0
Shop	0.0	0.0

Notes:

1. Monitoring performed by SCS Engineers on: 07/11/2025
2. Temperature: 79°F
3. Barometric Pressure: 29.01"
4. % LEL = % CH_4 above background / 5% Volume for CH_4 LEL * 100

60 Vesta Road
Lebanon, TN 37090

SOUTHEASTERN TANK

p: 615-466-5220
f: 615-466-5222
www.southeasterntank.com

Matlock Bend Landfill
London, TN

Leachate Tank
INSPECTION REPORT

Date Inspected: May 23, 2025

General Information:

Identifier:	Leachate Storage
Diameter:	25’
Height:	29’
Capacity:	106,000 Gal.
Tank S/N:	8101105
Type:	Aquastore

TANK EXTERIOR

ROOF

Type – Knuckle, Glass Fused to Steel

Roof Walkway:	Good
Handrail:	Good
Panel Coating:	Good
Sealant:	Poor - <20%
Bolts:	Good
Overall Condition:	Fair
Laps:	Good

Roof Vent

Screen Installed:	Yes
Overall Condition:	Good

Roof Manway

Overall Condition:	Good
Pad Lock Installed:	No

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Lebanon, TN 37090

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f: 615-466-5222
www.southeasterntank.com

SIDEWALL & ACCESSORIES

Tank Panels:

Vertical Fillet:	Good – 80%
Horizontal Fillet:	Good – 80%
Bolt Condition:	Good
Exterior Caps:	Good
Coating Missing:	No
Overall Condition:	Good

Sidewall Manway:

Size:	24”
Quantity:	1
Neck Weldment:	Hot Dip Galvanized
Gasket Condition:	Good
Corrosion Present:	No
Overall Condition:	Good

Tank ID Plate:

Installed:	Yes
Readable:	Yes

Concrete Curbing:

Cracks Present:	Yes
Signs of Leaks:	No
Overall Condition:	Poor

Exterior Ladder/Cage Assembly:

Any Damage:	No
Corrosion Present:	No
Ladder Gate Installed:	Yes
Padlock Installed:	No
Overall Condition:	Good

Web Truss Assembly:

Condition:	Good

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Lebanon, TN 37090

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Level Indicator:

Level Marks Readable:	Yes
Cable & Pulley Assembly:	Good
Float Assembly:	Good
Operational:	Yes
Manufacturer:	Tank Products – Ontario, CA

Safety Placards:

Installed:	Yes
Readable:	Yes

Exterior Summary:

1. Level indicator roof penetration flange mounting surface is corroded all the way through the roof sheet.
2. 7 of 8 anchor bolts sheared and/or pulled.
3. The tank seems to have positioned itself correctly after floating.
4. The pipe brackets for exterior piping seem to be fine after potential damage.
5. Containment was filled with liquid while the tank was empty causing it to float.
6. Inlet is disconnected.
7. The target board tape is fading.
8. The overall condition of the tank exterior is good.

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Lebanon, TN 37090

SOUTHEASTERN TANK

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TANK INTERIOR

Tank Panels:

Vertical Fillet:	Good – 90-100%
Horizontal Fillet:	Good – 90-100%
Four Corner Joints:	Good – 90-100%
Exposed Edges:	No
Bolt Corrosion:	No
Coating Missing:	No

Cathodic Protection:

Number of Bars:	3
Type:	Zinc
Overall Condition:	Good – 60-70%

Inside Ladder: N/A

Type:	
Overall Condition:	
Safety Climb Installed:	

Steel Floor Condition:

Silt:	None
Cracks or Leakage:	No
Condition:	Good

Interior Summary:

1. Overall condition of the interior looks fine.
2. No damage to the floor seams or panels.
3. No recognizable to anchor bolt saddle mounting area.
4. Sidewalls have mild scale build-up.
5. Overall condition of the tank interior is good.

60 Vesta Road
Lebanon, TN 37090

SOUTHEASTERN TANK

p: 615-466-5220
f: 615-466-5222
www.southeasterntank.com

PIPING

Overflow:

Location:	Exterior Piping
Pipe Size:	4”
Pipe Type:	Sch. 80 PVC
Screen Installed:	No
Flapper Installed:	Yes
Pipe Brackets:	Good
Overall Condition:	Good

Inlet: 4” Stainless Steel

Common Inlet/Outlet:

Outlet: 4” Stainless Steel with Vortex Breaker

Silt Stop: Yes

Drain: No

60 Vesta Road
Lebanon, TN 37090

p: 615-466-5220
f: 615-466-5222
www.southeasterntank.com

RECOMMENDED MAINTENANCE:

1. Reseal roof panels.
2. Remove and replace anchor bolts.
3. Replace target board tape.
4. Reattach inlet pipe.
5. Install patch plate over level indicator nozzle penetration.

Report Prepared By: Alex Chartrau
Date: May 23, 2025

GENERAL NOTES:

1. EXISTING TOPOGRAPHICAL INFORMATION TAKEN FROM AN AERIAL SURVEY PROVIDED BY FIRMATEK, DATED 12-13-2024.
2. PROPERTY LINE INFORMATION TAKEN FROM A BOUNDARY SURVEY PROVIDED BY PINNACLE LAND SURVEYING, INC., DATED 09-03-2025.
3. AQUATIC RESOURCE DELINEATION PERFORMED BY HHNT SCIENTISTS ON JANUARY 29 AND 30, 2025. DEPICTED WATERS OF THE U.S. DELINEATION REMAINS AN OPINION OF HHNT UNTIL FORMALLY VERIFIED IN WRITING BY THE U.S. ACOE VIA A FORMAL DETERMINATION LETTER.
4. COORDINATE SYSTEM IS TENNESSEE STATE PLANE NAD 27.
5. THE RECEIVING WATERS FOR THE PROJECT SITE IS AN UNNAMED TRIBUTARY TO THE WATTS BAR RESERVOIR / TENNESSEE RIVER.
6. THE PROPOSED CONTOURS REPRESENT THE TOP OF FINISHED GRADE.

THE BORROW AREA DESIGN SHOWN ON THIS SHEET REPRESENTS THE INTIAL DEVELOPMENT AREA AND IS SUBJECT TO CHANGE BASED ON ZONING PROPERTY BUFFER REQUIREMENTS.

SOIL CLASSIFICATION TEST PIT LOCATIONS SHOWN ON THIS SHEET SHALL BE CONSIDERED APPROXIMATE. ACTUAL SOIL CLASSIFICATION TEST PIT LOCATIONS WILL BE DETERMINED BASED ON ACCESS AND PROPERTY BUFFER REQUIREMENTS. TEST PITS WILL BE CONDUCTED AT AN APPROXIMATE SPACING OF 1 TEST PIT EVERY 2 - 4 ACRES.

THE FOLLOWING PROCEDURES WILL BE FOLLOWED FOR EACH TEST PIT TO CLASSIFY AND QUANTIFY SOILS AVAILABLE:
-SAMPLES WILL BE TAKEN OF EACH SOIL TYPE ENCOUNTERED FOR LAB TESTING
-TEST PIT LOGS WILL BE DOCUMENTED FOR EACH LOCATION INCLUDING DESCRIPTIONS OF SOIL TYPES AND DEPTHS OF EACH LAYER

SEDIMENT BASIN DATA

UNDISTURBED DRAINAGE AREA TO BASIN (ACRES)	0.00
DISTURBED DRAINAGE AREA TO BASIN (ACRES)	12.00
RUN-ON DRAINAGE AREA DIVERTED (ACRES)	12.65
BOTTOM OF BASIN ELEVATION (FT)	820.00
PERMANENT POOL ELEVATION (FT)	823.00
WET SEDIMENT STORAGE VOLUME REQUIRED @ 67 CY/AC WITHIN PERMANENT POOL (CF)	21,708
WET SEDIMENT STORAGE VOLUME PROVIDED WITHIN PERMANENT POOL (CF)	40,364
BOTTOM OF FOREBAY ELEVATION (FT)	823.00
TOP OF FOREBAY BERM ELEVATION (FT)	826.00
DRY SEDIMENT STORAGE VOLUME REQUIRED @ 67 CY/AC WITHIN FOREBAY (CF)	5,427
DRY SEDIMENT STORAGE VOLUME PROVIDED WITHIN FOREBAY (CF)	13,881
TOP OF PRINCIPAL SPILLWAY ELEVATION (FT)	827.00
DRY SEDIMENT STORAGE VOLUME REQUIRED @ 67 CY/AC (CF)	21,708
DRY SEDIMENT STORAGE VOLUME PROVIDED (CF)	112,319
5YR, 24-HOUR STORM EVENT ELEVATION (FT)	826.63
25YR, 24-HOUR STORM EVENT ELEVATION (FT)	827.23
100YR, 24-HOUR STORM EVENT ELEVATION (FT)	827.62
TOP OF BERM ELEVATION (FT)	830.00
LENGTH TO WIDTH RATIO (L:W)	4:1

PROPOSED DRAINAGE STRUCTURES

PIPE NO.	SIZE	LENGTH	SLOPE	MATERIAL	INLET INVERT	OUTLET INVERT
100	24"	78'	6.41%	RCP	823.00	818.00
101	(3) 24"	68'	8.82%	HDPE	856.00	850.00

HEADWALL NO.	INVERT
100	818.00

PROPERTY LINE (TYP.)

50' PROPERTY BUFFER (TYP.) (SUBJECT TO CHANGE)

NON-JURISDICTIONAL EPHEMERAL CHANNEL

PROPOSED RIP-RAP OUTLET PROTECTION (TYP.)

NPDES OUTFALL SAMPLING POINT NO. 001

PROPOSED OVERFLOW STRUCTURE W/ 6" FAIRCLOTH SURFACE SKIMMER @ 70%

PROPOSED NON-POROUS BAFFLE

PROPOSED CONCRETE HEADWALL NO. 100

NON-JURISDICTIONAL INTERMITTENT STREAM

PROPOSED SEDIMENT BASIN (BOTTOM EL. 820.00)

PROPOSED DITCH NO. 5
TRAPEZOIDAL-SHAPED (BOTTOM WIDTH = 2 FT)
EXCELSIOR MATTING LINING
2H:1V SIDE SLOPES

PROPOSED 15' WIDE ACCESS ROAD

PROPOSED DITCH NO. 6
TRAPEZOIDAL-SHAPED (BOTTOM WIDTH = 2 FT)
GROUTED CLASS A-1 RIP-RAP
2H:1V SIDE SLOPES

PROPOSED T.D.O.T CLASS A-1 ROCK BERM

PROPOSED FOREBAY (BOTTOM EL. 823.00)

PROPOSED STONE CHECK DAM

NON-JURISDICTIONAL EPHEMERAL CHANNEL

PROPOSED POROUS BAFFLE (TYP.)

PROPOSED DITCH NO. 4
TRAPEZOIDAL-SHAPED (BOTTOM WIDTH = 2 FT)
GROUTED CLASS A-1 RIP-RAP
2H:1V SIDE SLOPES

PROPOSED DITCH NO. 7
TRAPEZOIDAL-SHAPED (BOTTOM WIDTH = 5 FT)
GROUTED CLASS A-1 RIP-RAP
5H:1V SIDE SLOPES

PROPOSED SINGLE-ROW EC-STR-3C SILT FENCE

PROPOSED SURPLUS SOIL STOCKPILE AREA

PROPOSED 40' WIDE ACCESS ROAD

NPDES OUTFALL SAMPLING POINT NO. 002

PROPOSED CPP FLARED END SECTION

PROPOSED DITCH NO. 3
TRAPEZOIDAL-SHAPED (BOTTOM WIDTH = 2 FT)
GROUTED CLASS A-1 RIP-RAP
2H:1V SIDE SLOPES

PROPOSED DITCH NO. 2
TRAPEZOIDAL-SHAPED (BOTTOM WIDTH = 2 FT)
GROUTED CLASS A-1 RIP-RAP
2H:1V SIDE SLOPES

PROPOSED STORMWATER RUN-ON DIVERSION CHANNEL

PROPOSED DITCH NO. 1
V-SHAPED
GROUTED CLASS A-1 RIP-RAP
2H:1V SIDE SLOPES

NON-JURISDICTIONAL INTERMITTENT STREAM

NON-JURISDICTIONAL EPHEMERAL CHANNEL

ADJACENT PROPERTY LINE (TYP.)

EXISTING UNPAVED ROAD (TYP.)

PROPOSED LIMITS OF DISTURBANCE (±16.64 AC)

APPROXIMATE SOIL CLASSIFICATION TEST PIT LOCATION TO BE PERFORMED BY BLE (TYP.)

ABANDONED BUILDING

ABANDONED BUILDING

FUTURE BORROW AREA (TO BE DESIGNED AND DEVELOPED AT A LATER DATE)

FUTURE BORROW AREA (TO BE DESIGNED AND DEVELOPED AT A LATER DATE)

TP-1 TP-2 TP-3 TP-4 TP-5 TP-6 TP-7 TP-8 TP-9 TP-10 TP-11 TP-12 TP-13 TP-14 TP-15 TP-16 TP-17 TP-18 TP-19 TP-20 TP-21 TP-22 TP-23 TP-24 TP-25 TP-26 TP-27 TP-28 TP-29 TP-30 TP-31 TP-32 TP-33 TP-34 TP-35 TP-36 TP-37 TP-38 TP-39 TP-40

LEGEND

EXISTING

- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- PROPERTY LINE
- PROPERTY BUFFER
- EXISTING UNPAVED ROAD
- NON-JURISDICTIONAL CHANNEL/STREAM

PROPOSED

- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED STORMWATER DITCH
- PROPOSED STORMWATER PIPE
- PROPOSED HEADWALL
- PROPOSED OUTFALL STRUCTURE
- PROPOSED ACCESS ROAD
- PROPOSED SINGLE-ROW SILT FENCE
- PROPOSED APPROX. TEST PIT LOCATION

EROSION CONTROL NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
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8. SOIL IS NOT TO BE STOCKPILED WITHIN 25 FEET OF THE EDGE OF ANY TRENCH EXCAVATION.
9. EXCELSIOR MATTING SLOPE STABILIZATION SHALL BE INSTALLED ON ALL SIDE SLOPES GREATER THAN 3(H):1(V).
10. THE INSTALLATION OF SILT FENCE SHALL BE COMPLETED PRIOR TO EARTH MOVING ACTIVITIES.
11. LIMITS OF DISTURBANCE SHALL BE CLEARLY MARKED BY SILT FENCE OR HIGH VISIBILITY FENCE.

EROSION CONTROL LEGEND

ECB	SLOPE STABILIZATION	PS	DIST. AREA W/ PERMANENT COVER
	STONE CHECK DAM	CRS	CONSTRUCTION ROAD STABILIZATION
X	SINGLE ROW EC-STR-3C SILT FENCE		

RIP-RAP OUTLET PROTECTION (OP)

W2, L, W1

	RIP-RAP SIZE	LENGTH(L)	W1	W2
RR1	CLASS A-1	13'	6'	19'
RR2	CLASS A-1	23'	18'	29'

NOTES: ALL OUTLET PROTECTION RIP-RAP SHALL BE GROUTED.

PROPOSED DITCH PROTECTION	DITCH NO.	LENGTH	SLOPE	DITCH LINING
	1	309'	VARIES	CLASS A-1 RIP-RAP
	2	372'	VARIES	CLASS A-1 RIP-RAP
	3	256'	3.52%	CLASS A-1 RIP-RAP
	4	300'	6.67%	CLASS A-1 RIP-RAP
	5	393'	1.02%	EXCELSIOR MATTING
	6	91'	1.50%	CLASS A-1 RIP-RAP
	7	50'	0.50%	CLASS A-1 RIP-RAP

NOTES: ALL DITCH PROTECTION RIP-RAP SHALL BE GROUTED.

DRAFT

FOR REVIEW AND DISCUSSION PURPOSES ONLY

100 50 0 100 200
GRAPHIC SCALE IN FEET

INITIAL DEVELOPMENT PLAN

MATLOCK BEND BORROW AREA DEVELOPMENT

FOR

REPUBLIC SERVICES, INC.

LOUDON COUNTY, TENNESSEE

HHNT ENVIRONMENTAL CONSULTANTS
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
3920 ARKWRIGHT RD.
SUITE 101
MACON, GEORGIA 31210
(478) 743-7175

REPUBLIC SERVICES

PROJ. NO.	6703-1209-01	MB_FIGURES.DWG	EDIT 09-25-2025
SCALE	1" = 100'	SHEET	1 OF 2
DATE	SEPTEMBER 2025		

GENERAL NOTES:

1. EXISTING TOPOGRAPHICAL INFORMATION TAKEN FROM AN AERIAL SURVEY PROVIDED BY FIRMATEK, DATED 12-13-2024.
2. PROPERTY LINE INFORMATION TAKEN FROM A BOUNDARY SURVEY PROVIDED BY PINNACLE LAND SURVEYING, INC., DATED 09-03-2025.
3. AQUATIC RESOURCE DELINEATION PERFORMED BY HHNT SCIENTISTS ON JANUARY 29 AND 30, 2025. DEPICTED WATERS OF THE U.S. DELINEATION REMAINS AN OPINION OF HHNT UNTIL FORMALLY VERIFIED IN WRITING BY THE U.S. ACOE VIA A FORMAL DETERMINATION LETTER.
4. COORDINATE SYSTEM IS TENNESSEE STATE PLANE NAD 27.
5. THE RECEIVING WATERS FOR THE PROJECT SITE IS AN UNNAMED TRIBUTARY TO THE WATTS BAR RESERVOIR / TENNESSEE RIVER.
6. THE PROPOSED CONTOURS REPRESENT THE TOP OF FINISHED GRADE.

THE BORROW AREA DESIGN SHOWN ON THIS SHEET REPRESENTS THE FUTURE TOTAL BORROW AREA SOUTH OF THE ON-SITE DRAINAGE FEATURE AND IS SUBJECT TO CHANGE BASED ON ZONING PROPERTY BUFFER REQUIREMENTS.

SOIL CLASSIFICATION TEST PIT LOCATIONS SHOWN ON THIS SHEET SHALL BE CONSIDERED APPROXIMATE. ACTUAL SOIL CLASSIFICATION TEST PIT LOCATIONS WILL BE DETERMINED BASED ON ACCESS AND PROPERTY BUFFER REQUIREMENTS. TEST PITS WILL BE CONDUCTED AT AN APPROXIMATE SPACING OF 1 TEST PIT EVERY 2 - 4 ACRES.

THE FOLLOWING PROCEDURES WILL BE FOLLOWED FOR EACH TEST PIT TO CLASSIFY AND QUANTIFY SOILS AVAILABLE:
-SAMPLES WILL BE TAKEN OF EACH SOIL TYPE ENCOUNTERED FOR LAB TESTING
-TEST PIT LOGS WILL BE DOCUMENTED FOR EACH LOCATION INCLUDING DESCRIPTIONS OF SOIL TYPES AND DEPTHS OF EACH LAYER

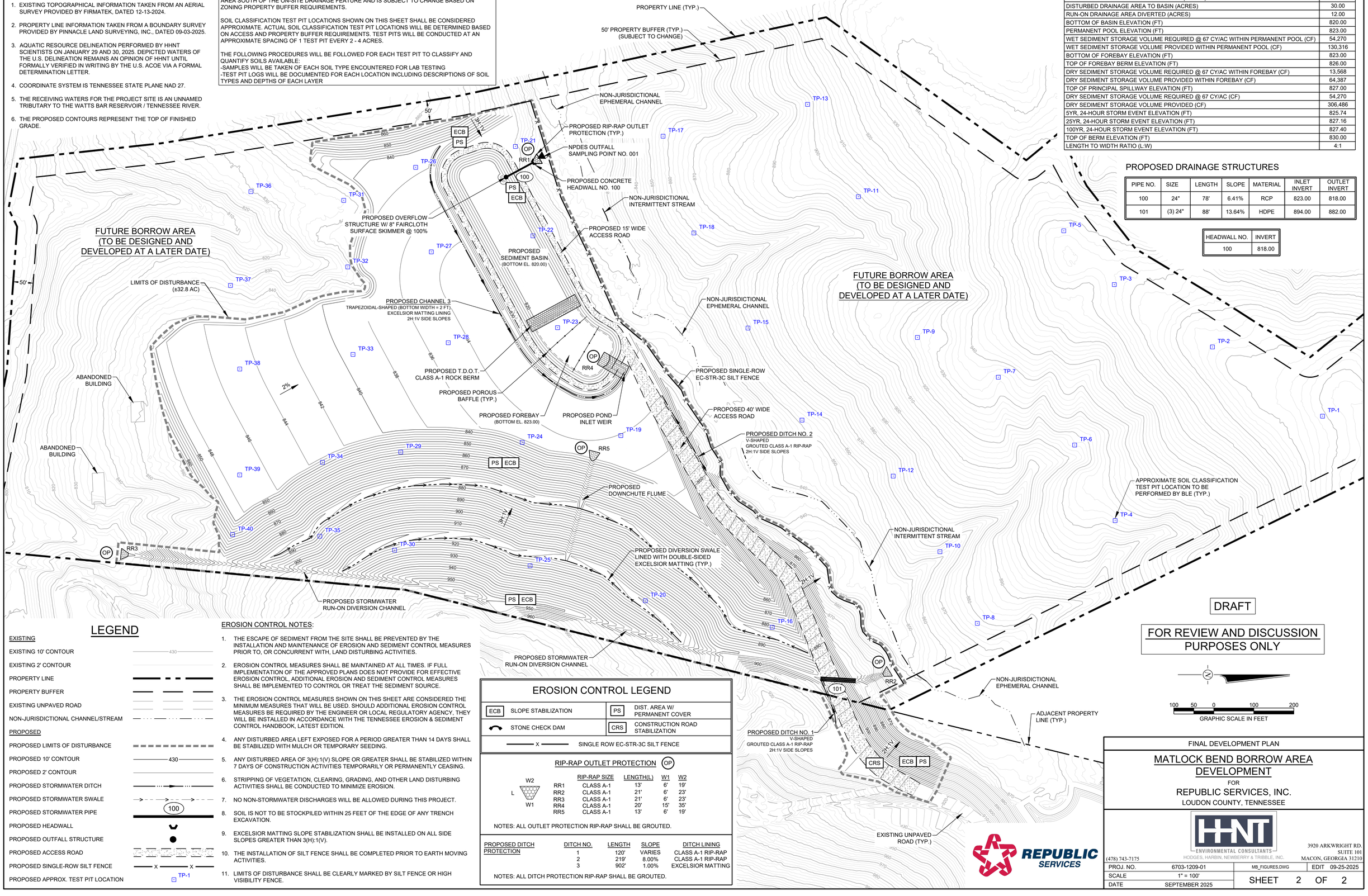
SEDIMENT BASIN DATA

UNDISTURBED DRAINAGE AREA TO BASIN (ACRES)	0.00
DISTURBED DRAINAGE AREA TO BASIN (ACRES)	30.00
RUN-ON DRAINAGE AREA DIVERTED (ACRES)	12.00
BOTTOM OF BASIN ELEVATION (FT)	820.00
PERMANENT POOL ELEVATION (FT)	823.00
WET SEDIMENT STORAGE VOLUME REQUIRED @ 67 CY/AC WITHIN PERMANENT POOL (CF)	54,270
WET SEDIMENT STORAGE VOLUME PROVIDED WITHIN PERMANENT POOL (CF)	130,316
BOTTOM OF FOREBAY ELEVATION (FT)	823.00
TOP OF FOREBAY BERM ELEVATION (FT)	826.00
DRY SEDIMENT STORAGE VOLUME REQUIRED @ 67 CY/AC WITHIN FOREBAY (CF)	13,568
DRY SEDIMENT STORAGE VOLUME PROVIDED WITHIN FOREBAY (CF)	64,387
TOP OF PRINCIPAL SPILLWAY ELEVATION (FT)	827.00
DRY SEDIMENT STORAGE VOLUME REQUIRED @ 67 CY/AC (CF)	54,270
DRY SEDIMENT STORAGE VOLUME PROVIDED (CF)	306,486
5YR, 24-HOUR STORM EVENT ELEVATION (FT)	825.74
25YR, 24-HOUR STORM EVENT ELEVATION (FT)	827.16
100YR, 24-HOUR STORM EVENT ELEVATION (FT)	827.40
TOP OF BERM ELEVATION (FT)	830.00
LENGTH TO WIDTH RATIO (L:W)	4:1

PROPOSED DRAINAGE STRUCTURES

PIPE NO.	SIZE	LENGTH	SLOPE	MATERIAL	INLET INVERT	OUTLET INVERT
100	24"	78'	6.41%	RCP	823.00	818.00
101	(3) 24"	88'	13.64%	HDPE	894.00	882.00

HEADWALL NO.	INVERT
100	818.00



LEGEND

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- EXISTING 2' CONTOUR
- PROPERTY LINE
- PROPERTY BUFFER
- EXISTING UNPAVED ROAD
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EROSION CONTROL LEGEND

ECB	SLOPE STABILIZATION	PS	DIST. AREA W/ PERMANENT COVER
	STONE CHECK DAM	CRS	CONSTRUCTION ROAD STABILIZATION
	X — SINGLE ROW EC-STR-3C SILT FENCE		

RIP-RAP OUTLET PROTECTION (OP)

	RIP-RAP SIZE	LENGTH(L)	W1	W2
RR1	CLASS A-1	13'	6'	19'
RR2	CLASS A-1	21'	6'	23'
RR3	CLASS A-1	21'	6'	23'
RR4	CLASS A-1	20'	15'	35'
RR5	CLASS A-1	13'	6'	19'

NOTES: ALL OUTLET PROTECTION RIP-RAP SHALL BE GROUTED.

PROPOSED DITCH PROTECTION	DITCH NO.	LENGTH	SLOPE	DITCH LINING
	1	120'	VARIES	CLASS A-1 RIP-RAP
	2	219'	8.00%	CLASS A-1 RIP-RAP
	3	902'	1.00%	EXCELSIOR MATTING

NOTES: ALL DITCH PROTECTION RIP-RAP SHALL BE GROUTED.

DRAFT

FOR REVIEW AND DISCUSSION PURPOSES ONLY

FINAL DEVELOPMENT PLAN

MATLOCK BEND BORROW AREA DEVELOPMENT

FOR

REPUBLIC SERVICES, INC.

LOUDON COUNTY, TENNESSEE

HHNT ENVIRONMENTAL CONSULTANTS
HODGES, HARBIN, NEWBERRY & TRIBBLE, INC.
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REPUBLIC SERVICES

PROJ. NO.	6703-1209-01	MB_FIGURES.DWG	EDIT 09-25-2025
SCALE	1" = 100'	SHEET	2 OF 2
DATE	SEPTEMBER 2025		

REPUBLIC SERVICES

Monthly Operations Report
Matlock Bend Landfill
October 16, 2025

Presented by:

Republic Services, Inc.

I. OPERATIONS
   - A. Tonnage Report
   - B. Customer Activity Report
   - C. Materials Classification Report
   - D. Waste Characterization Report
   - E. Tire Report
   - F. Landfill Comments
   - G. 3rd Quarter Origin Report

II. Engineering Report
III. Airspace Utilization Report
IV. TDEC Inspection(s) – Sept and Oct 2025
V. Host and Security Fees Letter
VI. Loudon Financial Information

Loudon Landfill Monthly Tonnages
Month Ending September 2025

Matlock Bend Landfill

Month	2024	2025	2024 to 2025
Jan	11,601	**14,498**	2,897
Feb	14,407	**14,212**	(195)
Mar	14,328	**17,577**	3,248
Apr	15,194	**17,012**	1,818
May	14,517	**15,581**	1,064
Jun	14,735	**15,462**	727
Jul	15,766	**16,720**	955
Aug	16,204	**16,475**	271
Sep	13,937	**16,364**	2,428
Oct	16,577	**0**	0
Nov	13,794	**0**	0
Dec	15,052	**0**	0
Total	176,112	**143,901**	13,212
% of Total Tonnage		**100%**	

Daily Avg. for any Running 30 Day Period **545**

Loudon County

Month	2024	2025	2024 to 2025
Jan	529	**477**	(51)
Feb	541	**478**	(64)
Mar	574	**603**	29
Apr	607	**562**	(44)
May	596	**621**	24
Jun	613	**611**	(2)
Jul	615	**620**	5
Aug	599	**592**	(7)
Sep	486	**519**	34
Oct	572	**0**	0
Nov	516	**0**	0
Dec	554	**0**	0
Total	6,804	**5,083**	(78)
% of Total Tonnage		**4%**	

Daily Avg. for any Running 22.5 Day Period **727**

Lenoir City

Month	2024	2025	2024 to 2025
Jan	434	**395**	(39)
Feb	478	**408**	(71)
Mar	529	**483**	(46)
Apr	524	**517**	(7)
May	565	**521**	(44)
Jun	455	**478**	23
Jul	484	**504**	19
Aug	485	**450**	(35)
Sep	424	**472**	48
Oct	494	**0**	0
Nov	399	**0**	0
Dec	403	**0**	0
Total	5,675	**4,227**	(153)
% of Total Tonnage		**3%**	

Loudon, City of

Month	2024	2025	2024 to 2025
Jan	452	**502**	50
Feb	467	**433**	(34)
Mar	521	**523**	2
Apr	572	**579**	7
May	572	**592**	20
Jun	538	**544**	6
Jul	573	**555**	(19)
Aug	557	**522**	(34)
Sep	498	**532**	34
Oct	526	**0**	0
Nov	444	**0**	0
Dec	517	**0**	0
Total	6,237	**4,783**	32
% of Total Tonnage		**3%**	

Republic Services, Inc.

Month	2024	2025	2024 to 2025
Jan	2,653	**2,501**	(152)
Feb	3,063	**2,499**	(565)
Mar	2,917	**2,584**	(334)
Apr	3,197	**2,695**	(502)
May	3,226	**2,867**	(359)
Jun	2,812	**2,848**	36
Jul	3,169	**3,045**	(123)
Aug	3,259	**3,011**	(248)
Sep	2,904	**2,935**	32
Oct	3,056	**0**	0
Nov	2,558	**0**	0
Dec	2,539	**0**	0
Total	35,353	**24,985**	(2,215)
% of Total Tonnage		**17%**	

Waste Management

Month	2024	2025	2024 to 2025
Jan	1,385	**1,401**	16
Feb	1,680	**1,546**	(134)
Mar	1,679	**1,604**	(75)
Apr	1,727	**1,690**	(37)
May	1,629	**1,580**	(49)
Jun	1,492	**1,589**	97
Jul	1,504	**1,575**	71
Aug	1,505	**1,532**	27
Sep	1,400	**1,458**	58
Oct	1,526	**0**	0
Nov	1,311	**0**	0
Dec	1,293	**0**	0
Total	18,132	**13,974**	(27)
% of Total Tonnage		**10%**	

Five Star Waste

Month	2024	2025	2024 to 2025
Jan	493	**932**	440
Feb	547	**1,155**	608
Mar	534	**1,463**	930
Apr	677	**1,566**	888
May	716	**1,633**	916
Jun	1,097	**1,680**	583
Jul	1,292	**1,377**	86
Aug	1,219	**1,847**	628
Sep	1,328	**1,410**	81
Oct	1,680	**0**	0
Nov	1,104	**0**	0
Dec	1,380	**0**	0
Total	12,067	**13,063**	5,160
% of Total Tonnage		**9%**	

Ward Waste

Month	2024	2025	2024 to 2025
Jan	0	**526**	526
Feb	0	**506**	506
Mar	0	**583**	583
Apr	0	**641**	641
May	0	**640**	640
Jun	0	**632**	632
Jul	0	**888**	888
Aug	0	**787**	787
Sep	0	**809**	809
Oct	0	**0**	0
Nov	287	**0**	0
Dec	605	**0**	0
Total	892	**6,013**	6,013
% of Total Tonnage		**4%**	

KCC ADC Material

Month	2024	2025	2024 to 2025
Jan	1,361	**3,503**	2,142
Feb	1,925	**3,012**	1,087
Mar	2,577	**4,440**	1,863
Apr	2,561	**3,643**	1,082
May	1,783	**2,266**	483
Jun	3,095	**2,471**	(624)
Jul	3,057	**3,134**	78
Aug	3,498	**3,130**	(368)
Sep	2,560	**3,301**	741
Oct	3,630	**0**	0
Nov	3,716	**0**	0
Dec	3,808	**0**	0
Total	33,571	**28,901**	6,483
% of Total Tonnage		**20%**	

All Other Tons

Month	2024	2025	2024 to 2025
Jan	4,036	**4,260**	224
Feb	6,039	**4,176**	(1,863)
Mar	5,530	**5,294**	(236)
Apr	6,005	**5,118**	(887)
May	6,146	**4,862**	(1,284)
Jun	5,730	**4,609**	(1,121)
Jul	6,363	**5,022**	(1,341)
Aug	6,301	**4,603**	(1,698)
Sep	5,664	**4,928**	(736)
Oct	6,773	**0**	0
Nov	4,850	**0**	0
Dec	5,939	**0**	0
Total	69,376	**42,873**	(8,941)
% of Total Tonnage		**30%**	

Materials Classification Report

Matlock Bend Landfill

Monthly Tonnage Summary August 2025

Material	Tonnage
MSW	
MSW	**10,373**
Special Waste	
Other	5,381
Ash	0
Sludge	611
Total Special Waste	**5,992**
Total MSW & SW	**16,365**
Tires	0
Total Material	**16,365**
% MSW	63%
% Special Waste	37%
% Sludge *	4%

* Sludge % is stand alone,
% Special Waste includes "Sludge"

2022 Sludge %		2023 Sludge %	
January	7%	January	6%
February	6%	February	9%
March	6%	March	7%
April	5%	April	7%
May	5%	May	4%
June	2%	June	6%
July	10%	July	4%
August	4%	August	6%
September	7%	September	6%
October	5%	October	5%
November	5%	November	8%
December	7%	December	7%

2024 Sludge %		2025 Sludge %	
January	4%	January	5%
February	7%	February	7%
March	8%	March	7%
April	7%	April	5%
May	5%	May	6%
June	6%	June	5%
July	4%	July	3%
August	6%	August	4%
September	5%	September	4%
October	5%	October	0%
November	6%	November	0%
December	6%	December	0%

2025 Loudon MSW and Special Waste Analysis

Material	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
MSW	7,862	8,286	9,661	10,153	10,376	10,558	10,972	10,776	10,373	0	0	0	**89,017**
Special Waste	6,635	5,926	7,916	6,859	5,204	4,904	5,749	5,699	5,992	0	0	0	**54,884**
Tires	0	0	0	0	1	0	0	0	0	0	0	0	**1**
Total	14,497	14,212	17,577	17,012	15,581	15,462	16,721	16,475	16,365	0	0	0	**143,902**
%													
MSW	54%	58%	55%	60%	67%	68%	66%	65%	63%	0%	0%	0%	**62%**
Special Waste	46%	42%	45%	40%	33%	32%	34%	35%	37%	0%	0%	0%	**38%**
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%	0%	**100%**

2025-2026 Matlock Bend Landfill Tire Report

Month	Tons (OB)	Each (IB)
Jul-25	42.47	1,099
Aug-25	55.79	1,208
Sep-25	21.05	842
Oct-25	0.00	0
Nov-25	0.00	0
Dec-25	0.00	0
Jan-26	0.00	0
Feb-26	0.00	0
Mar-26	0.00	0
Apr-26	0.00	0
May-26	0.00	0
Jun-26	0.00	0
Total	**119.31**	**3,149**

Loudon Landfill Comments Log September 2025

Calendar Day	Day of Week	Time of Day	Complaintant Name	Complaintant Number	Complaint	Resolution	Res Time
1	W			( ) -			
2	TH						
3	F						
4	SA						
5	SU						
6	M						
7	T						
8	W						
9	TH						
10	F						
11	SA						
12	SU						
13	M						
14	T						
15	W						
16	TH						
17	F						
18	SA						
19	SU						
20	M						
21	T						
22	W						
23	TH						
24	F						
25	SA						
26	SU						
27	M						
28	T						
29	W						
30	TH						
31	F						

2025 Origin Report for the Loudon County Landfill

Origin	1st Quarter Tons	%	2nd Quarter Tons	%	3rd Quarter Tons	%	4th Quarter Tons	%	YTD Total Tons	%
Anderson County	116	0%	113	0%	143	0%	0	0%	**373**	0%
Blount County	365	1%	466	1%	507	1%	0	0%	**1,338**	1%
Bradley County	0	0%	2	0%	0	0%	0	0%	**2**	0%
Knox County	3,335	7%	3,695	8%	4,268	9%	0	0%	**11,298**	8%
Loudon County	38,043	82%	39,953	83%	40,899	83%	0	0%	**118,896**	83%
McMinn County	88	0%	129	0%	132	0%	0	0%	**349**	0%
Monroe County	1,769	4%	1,041	2%	888	2%	0	0%	**3,697**	3%
Roane County	2,569	6%	2,654	6%	2,715	5%	0	0%	**7,939**	6%
Rhea County	1	0%	0	0%	8	0%	0	0%	**9**	0%
Total	46,287	100%	48,055	100%	49,559	100%	0	100%	**143,901**	100%

2025 Loudon MSW and Special Waste Analysis

Material	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
MSW	7,862	8,286	9,661	10,153	10,376	10,558	10,972	10,776	10,373	0	0	0	**89,017**
Special Waste	6,635	5,926	7,916	6,859	5,204	4,904	5,749	5,699	5,992	0	0	0	**54,884**
Tires	0	0	0	0	1	0	0	0	0	0	0	0	**1**
Total	14,497	14,212	17,577	17,012	15,581	15,462	16,721	16,475	16,365	0	0	0	**143,902**
%													
MSW	54%	58%	55%	60%	67%	68%	66%	65%	63%	0%	0%	0%	**62%**
Special Waste	46%	42%	45%	40%	33%	32%	34%	35%	37%	0%	0%	0%	**38%**
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%	0%	**100%**

Summary Origin Activity Report

All Ticket Types
History and Waiting
* - Confirmed Qty Applied to Billing

July 01, 2025 to September 30, 2025
All Origins

All Facilities

Origin	Weight Inbound	Weight Outbound	Volume Inbound	Volume Outbound	Count Inbound	Count Outbound	Billing Qty	Material Total	Tax Total	Total	Item Count	Ticket Count
ANDERSON COUNTY												
MSW	80.05	0.00 TN	0.00	0.00 YD	0.00	0.00	80.05 TN	$2,478.34	$100.09	$2,578.43	18	
SW-ASBESTOS-NON FRIABLE	45.06	0.00 TN	0.00	0.00 YD	0.00	0.00	45.06 TN	$2,476.02	$19.69	$2,495.71	17	
SW-PLANT TRASH	17.95	0.00 TN	0.00	0.00 YD	0.00	0.00	17.95 TN	$798.95	$0.00	$798.95	4	
Origin Totals:	143.06	0.00 TN	0.00	0.00 YD	0.00	0.00	143.06 TN	$5,753.31	$119.78	$5,873.09	39	39
BLOUNT COUNTY												
MSW	454.95	0.00 TN	0.00	0.00 YD	0.00	0.00	454.95 TN	$14,085.25	$568.73	$14,653.98	104	
C&D	1.01	0.00 TN	0.00	0.00 YD	0.00	0.00	1.01 TN	$47.05	$0.00	$47.05	1	
SW-ASBESTOS-NON FRIABLE	2.21	0.00 TN	0.00	0.00 YD	0.00	0.00	2.21 TN	$92.82	$2.76	$95.58	1	
SW-FILTER CAKE	48.73	0.00 TN	0.00	0.00 YD	0.00	0.00	48.73 TN	$3,039.29	$60.93	$3,100.22	5	
Origin Totals:	506.90	0.00 TN	0.00	0.00 YD	0.00	0.00	506.90 TN	$17,264.41	$632.42	$17,896.83	111	111
KNOX COUNTY												
MSW	4,112.11	0.00 TN	0.00	0.00 YD	0.00	0.00	4,112.11 TN	$160,235.57	$2,084.29	$162,319.86	960	
C&D	154.97	0.00 TN	0.00	0.00 YD	0.00	0.00	154.97 TN	$7,955.63	$138.02	$8,093.65	80	
SW-ASBESTOS-NON FRIABLE	0.55	0.00 TN	0.00	0.00 YD	0.00	0.00	0.55 TN	$200.00	$0.69	$200.69	1	
Origin Totals:	4,267.63	0.00 TN	0.00	0.00 YD	0.00	0.00	4,267.63 TN	$168,391.20	$2,223.00	$170,614.20	1041	1041

Summary Origin Activity Report

July 01, 2025 to September 30, 2025
All Origins

Origin	Weight Inbound	Weight Outbound	Volume Inbound	Volume Outbound	Count Inbound	Count Outbound	Billing Qty	Material Total	Tax Total	Total	Item Count	Ticket Count
LOUDON COUNTY												
MSW	11,512.26	0.00 TN	90.00	0.00 YD	0.00	0.00	11,512.26 TN	$359,657.82	$14,298.49	$373,956.31	2108	
C&D	9,432.31	0.00 TN	30.00	0.00 YD	0.00	0.00	9,432.31 TN	$439,551.94	$10,286.18	$449,838.12	4625	
C&D	3,181.88	0.00 TN	12,220.00	0.00 YD	0.00	0.00	12,220.00 YD	$76,375.00	$3,977.68	$80,352.68	464	
C&D-SHINGLES	27.90	0.00 TN	0.00	0.00 YD	0.00	0.00	27.90 TN	$1,418.66	$34.89	$1,453.55	8	
C&D - DISASTER DEBRIS	66.59	0.00 TN	0.00	0.00 YD	0.00	0.00	66.59 TN	$3,483.02	$0.00	$3,483.02	15	
YARD WASTE/COMPOST	430.91	0.00 TN	0.00	0.00 YD	0.00	0.00	430.91 TN	$15,553.54	$538.82	$16,092.36	157	
TIRE	0.00	0.00 TN	0.00	0.00 YD	3,149.00	0.00	3,149.00 EA	$4,093.70	$0.00	$4,093.70	91	
TIRE	0.00	119.31 TN	0.00	0.00 YD	0.00	0.00	119.31 TN	$0.00	$0.00	$0.00	8	
MATTRESS\BOX SPRING	0.00	0.00 TN	0.00	0.00 YD	59.00	0.00	59.00 EA	$1,298.00	$0.00	$1,298.00	25	
ANIMAL	42.50	0.00 TN	0.00	0.00 YD	0.00	0.00	42.50 TN	$2,211.73	$53.15	$2,264.88	29	
SW INDUSTRIAL	686.65	0.00 TN	0.00	0.00 YD	0.00	0.00	686.65 TN	$26,986.41	$858.43	$27,844.84	109	
SW-ASBESTOS-NON FRIABLE	35.51	0.00 TN	0.00	0.00 YD	0.00	0.00	35.51 TN	$1,766.75	$44.40	$1,811.15	10	
SW-OFF SPEC MATERIAL	563.76	0.00 TN	0.00	0.00 YD	0.00	0.00	563.76 TN	$21,487.56	$704.86	$22,192.42	196	
SW-SLUDGE	48.57	0.00 TN	0.00	0.00 YD	0.00	0.00	48.57 TN	$1,503.74	$60.72	$1,564.46	8	
SW-SLUDGE-WWTP-MUNICIPAL	329.44	0.00 TN	0.00	0.00 YD	0.00	0.00	329.44 TN	$10,199.45	$411.83	$10,611.28	34	
SW-SLUDGE-WWTP-INDUSTRIAL	1,102.39	0.00 TN	0.00	0.00 YD	0.00	0.00	1,102.39 TN	$29,819.64	$1,378.02	$31,197.66	60	
SW-FILTER CAKE	6.79	0.00 TN	0.00	0.00 YD	0.00	0.00	6.79 TN	$360.82	$8.50	$369.32	4	
SW-FILTER OTHER	3,311.22	0.00 TN	0.00	0.00 YD	0.00	0.00	3,311.22 TN	$45,694.90	$4,139.17	$49,834.07	283	
SW-PLANT TRASH	489.17	0.00 TN	0.00	0.00 YD	0.00	0.00	489.17 TN	$19,440.70	$565.42	$20,006.12	227	
SW-SANDBLASTING MEDIA	65.91	0.00 TN	0.00	0.00 YD	0.00	0.00	65.91 TN	$3,427.32	$0.00	$3,427.32	5	
SW DAILY COVER	9,565.73	0.00 TN	0.00	0.00 YD	0.00	0.00	9,565.73 TN	$132,007.04	$11,957.59	$143,964.63	566	
Origin Totals:	40,899.49	119.31 TN	12,340.00	0.00 YD	3,208.00	0.00	3,208.00 EA 37,836.92 TN 12,220.00 YD	$1,196,337.74	$49,318.15	$1,245,655.89	9032	9008
MCMINN COUNTY												
MSW	1.59	0.00 TN	0.00	0.00 YD	0.00	0.00	1.59 TN	$49.23	$1.99	$51.22	1	
SW-PLANT TRASH	130.25	0.00 TN	0.00	0.00 YD	0.00	0.00	130.25 TN	$5,908.14	$162.96	$6,071.10	86	
Origin Totals:	131.84	0.00 TN	0.00	0.00 YD	0.00	0.00	131.84 TN	$5,957.37	$164.95	$6,122.32	87	87
MONROE COUNTY												
MSW	125.94	0.00 TN	0.00	0.00 YD	0.00	0.00	125.94 TN	$3,922.70	$157.45	$4,080.15	34	
C&D	0.30	0.00 TN	0.00	0.00 YD	0.00	0.00	0.30 TN	$50.79	$0.38	$51.17	1	
SW-OFF SPEC MATERIAL	292.36	0.00 TN	0.00	0.00 YD	0.00	0.00	292.36 TN	$11,479.10	$365.48	$11,844.58	71	
SW-SLUDGE-WWTP-MUNICIPAL	47.59	0.00 TN	0.00	0.00 YD	0.00	0.00	47.59 TN	$2,617.45	$0.00	$2,617.45	4	
SW-PLANT TRASH	421.53	0.00 TN	0.00	0.00 YD	0.00	0.00	421.53 TN	$16,419.80	$526.99	$16,946.79	198	
Origin Totals:	887.72	0.00 TN	0.00	0.00 YD	0.00	0.00	887.72 TN	$34,489.84	$1,050.30	$35,540.14	308	308

All Ticket Types
History and Waiting
* - Confirmed Qty Applied to Billing

Summary Origin Activity Report

July 01, 2025 to September 30, 2025
All Origins

All Facilities

Origin	Weight Inbound	Weight Outbound	Volume Inbound	Volume Outbound	Count Inbound	Count Outbound	Billing Qty	Material Total	Tax Total	Total	Item Count	Ticket Count
ROANE COUNTY												
MSW	2,275.65	0.00 TN	0.00	0.00 YD	0.00	0.00	2,275.65 TN	$70,454.11	$2,844.80	$73,298.91	299	
C&D	254.70	0.00 TN	1,020.00	0.00 YD	0.00	0.00	254.70 TN	$13,091.29	$318.40	$13,409.69	37	
SW-SLUDGE-WWTP-MUNICIPAL	181.51	0.00 TN	0.00	0.00 YD	0.00	0.00	181.51 TN	$11,263.93	$226.91	$11,490.84	20	
SW-PLANT TRASH	3.19	0.00 TN	0.00	0.00 YD	0.00	0.00	3.19 TN	$184.92	$0.00	$184.92	2	
Origin Totals:	2,715.05	0.00 TN	1,020.00	0.00 YD	0.00	0.00	2,715.05 TN	$94,994.25	$3,390.11	$98,384.36	358	358
RHEA COUNTY												
MSW	7.75	0.00 TN	0.00	0.00 YD	0.00	0.00	7.75 TN	$239.94	$9.69	$249.63	1	
Origin Totals:	7.75	0.00 TN	0.00	0.00 YD	0.00	0.00	7.75 TN	$239.94	$9.69	$249.63	1	1
	49,559.44	119.31 TN	13,360.00	0.00 YD	3,208.00	0.00	3,208.00 EA 46,496.87 TN 12,220.00 YD	$1,523,428.06	$56,908.40	$1,580,336.46	10977	10953

Material Summary		Weight Inbound	Weight Outbound	Volume Inbound	Volume Outbound	Count Inbound	Count Outbound	Billing Quantity	Material Total	Tax Total	Total
AA	MSW	18,570.30	0.00 TN	90.00	0.00 YD	0.00	0.00	18,570.30 TN	$611,122.96	$20,065.53	$631,188.49
CA	C&D	9,843.29	0.00 TN	1,050.00	0.00 YD	0.00	0.00	9,843.29 TN	$460,696.70	$10,742.98	$471,439.68
CA	C&D	3,181.88	0.00 TN	12,220.00	0.00 YD	0.00	0.00	12,220.00 YD	$76,375.00	$3,977.68	$80,352.68
CS	C&D-SHINGLES	27.90	0.00 TN	0.00	0.00 YD	0.00	0.00	27.90 TN	$1,418.66	$34.89	$1,453.55
D0	C&D - DISASTER DEBRIS	66.59	0.00 TN	0.00	0.00 YD	0.00	0.00	66.59 TN	$3,483.02	$0.00	$3,483.02
FA	YARD WASTE/COMPOST	430.91	0.00 TN	0.00	0.00 YD	0.00	0.00	430.91 TN	$15,553.54	$538.82	$16,092.36
HA	TIRE	0.00	0.00 TN	0.00	0.00 YD	3,149.00	0.00	3,149.00 EA	$4,093.70	$0.00	$4,093.70
HA	TIRE	0.00	119.31 TN	0.00	0.00 YD	0.00	0.00	119.31 TN	$0.00	$0.00	$0.00
HC	MATTRESS\BOX SPRING	0.00	0.00 TN	0.00	0.00 YD	59.00	0.00	59.00 EA	$1,298.00	$0.00	$1,298.00
UN	ANIMAL	42.50	0.00 TN	0.00	0.00 YD	0.00	0.00	42.50 TN	$2,211.73	$53.15	$2,264.88
V6	SW INDUSTRIAL	686.65	0.00 TN	0.00	0.00 YD	0.00	0.00	686.65 TN	$26,986.41	$858.43	$27,844.84
VD	SW-ASBESTOS-NON FRIABLE	83.33	0.00 TN	0.00	0.00 YD	0.00	0.00	83.33 TN	$4,535.59	$67.54	$4,603.13
VQ	SW-OFF SPEC MATERIAL	856.12	0.00 TN	0.00	0.00 YD	0.00	0.00	856.12 TN	$32,966.66	$1,070.34	$34,037.00
WA	SW-SLUDGE	48.57	0.00 TN	0.00	0.00 YD	0.00	0.00	48.57 TN	$1,503.74	$60.72	$1,564.46
WP	SW-SLUDGE-WWTP-MUNICIPAL	558.54	0.00 TN	0.00	0.00 YD	0.00	0.00	558.54 TN	$24,080.83	$638.74	$24,719.57
WQ	SW-SLUDGE-WWTP-INDUSTRIAL	1,102.39	0.00 TN	0.00	0.00 YD	0.00	0.00	1,102.39 TN	$29,819.64	$1,378.02	$31,197.66
WV	SW-FILTER CAKE	55.52	0.00 TN	0.00	0.00 YD	0.00	0.00	55.52 TN	$3,400.11	$69.43	$3,469.54
XC	SW-FILTER OTHER	3,311.22	0.00 TN	0.00	0.00 YD	0.00	0.00	3,311.22 TN	$45,694.90	$4,139.17	$49,834.07
XK	SW-PLANT TRASH	1,062.09	0.00 TN	0.00	0.00 YD	0.00	0.00	1,062.09 TN	$42,752.51	$1,255.37	$44,007.88
XN	SW-SANDBLASTING MEDIA	65.91	0.00 TN	0.00	0.00 YD	0.00	0.00	65.91 TN	$3,427.32	$0.00	$3,427.32
ZL	SW DAILY COVER	9,565.73	0.00 TN	0.00	0.00 YD	0.00	0.00	9,565.73 TN	$132,007.04	$11,957.59	$143,964.63

REPUBLIC SERVICES

Matlock Bend Landfill
21712 TN-72, Loudon, TN 37774
o 865.458.2651 republicservices.com

October 16, 2025

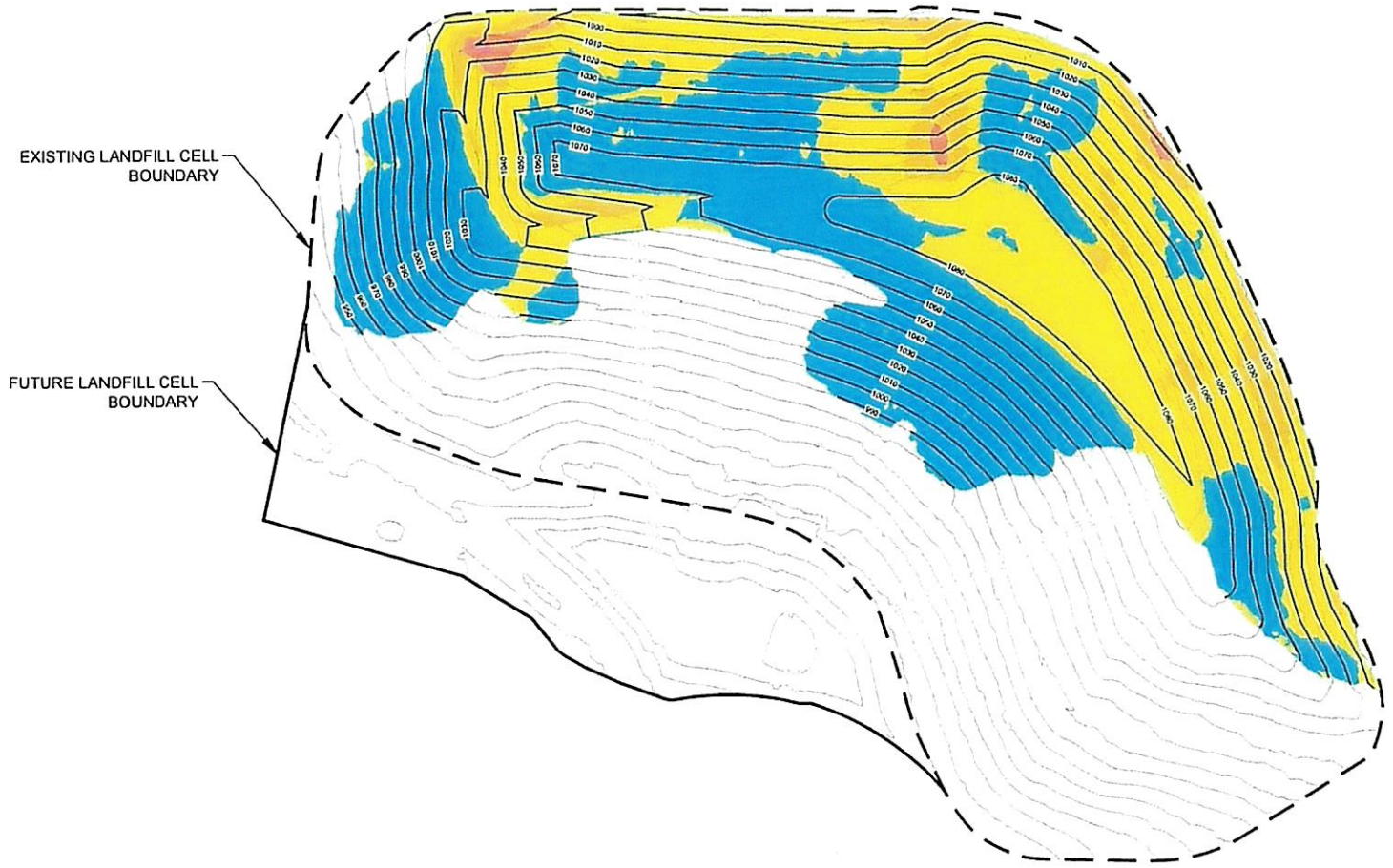
Loudon County (Matlock Bend) Landfill Engineering October Update

1) Module 1 and Module 2 Construction
    a. Construction Completed by 10/10
        i. Riser pumps effectively pushed liquids to the tank.
        ii. Lew on site 10/10 or 10/13 to observe cell completion.
            1. Certification of Cell / Review of CQA Report could take up to 30-days.
    b. Slip-line of Module A Gravity Line.
        i. Slip-line through penetration pipe project completed.
            1. 3" diameter HDPE with 2' perforated SS stinger rod inserted into low point of Module A through existing 6" pipe.
            2. Annular space grouted.
            3. Penetration line that ties into new cell will be able to support the weight of additional waste.
2) CA-1 Capping Event
    a. Provided revised plans including toe-drain to 3rd Party Engineer for review.
    b. Schedule for 2025:
        i. Rework perimeter ditch and begin grading slope week of 10/20.
            1. Includes some relocation of waste at toe of slopes.
            2. Implement stormwater controls and prepare for winter.
            3. Complete project following winter/wet months.
3) East Perimeter Ditch
    a. Currently plugged from discharging into downgradient channels and Pond #2.
    b. Current infrastructure is preventing leachate from flowing into perimeter ditch.
    c. Accumulation of rainwater and stormwater runoff from slopes being treated as leachate. Vac contents out as needed.
4) Pond #2
    a. No discharge and still remediating.
    b. Aerating for 24 weeks.
        i. September samples not available at time of this update.
        ii. August sampling event results show elevated COD.
            1. All other Section L parameters below limits.
    c. Will continue to remediate until back into Section L compliance.
5) Leachate Tank
    a. Tank was returned to operation on 10/2.
        i. TDEC Inspector, Paula Plont, approved return to operation.
    b. Tested liquid containment on 10/8.

REPUBLIC SERVICES
Matlock Bend Landfill
21712 TN-72, Loudon, TN 37774
o 865.458.2651 republicservices.com

i. No leaks.

6) New Leachate Tank (250K-gallon)
    a. A requirement associated with Permit expansion – install in 2026.
    b. Install in a new location near the maintenance shop.
        i. Will allow for better access around the landfill and tanker accessibility (if needed)
        ii. The current tank will not be relocated.
7) Stormwater Basin Near Cell Construction
    a. Returned to compliance/operation in August 2025.
    b. Construction of the outfall completed 10/10.
8) Borrow Area
    a. Provided additional information to 3rd Party Engineer for review.
    b. Will need to rezone borrow area parcel with code enforcement before County land disturbance permit (LDP) can be issued.
    c. Construction General Permit (CGP) will be required by TDEC.
9) Brush Pile
    a. Grinding completed in September
        i. Mulch is used around site to assist with cover and roads.



CUT: 53,391 CY
FILL: 43,562 CY
NET: 9,829 <CUT>

NOTES:
1. THIS VOLUME ISOPACH WAS DEVELOPED FROM THE FOLLOWING SURFACES:

BOTTOM SURFACE
AERIAL TOPOGRAPHIC SURVEY BY FIRMATEK, LLC., DATED JULY 7, 2025.

TOP SURFACE
OPERATIONAL CONSTRUCTED GRADING PLAN DEVELOPED BY HHNT AT THE DIRECTION AND APPROVAL OF REPUBLIC SERVICES, INC. CONTOURS REPRESENT TOP OF INTERMEDIATE COVER.

ELEVATIONS TABLE

NUMBER	MINIMUM ELEVATION	MAXIMUM ELEVATION	COLOR
1	-20.00	-15.00	
2	-15.00	-10.00	
3	-10.00	-5.00	
4	-5.00	0.00	
5	0.00	5.00	
6	5.00	10.00	
7	10.00	15.00	

CONSTRUCTED REMAINING CAPACITY

MATLOCK BEND LANDFILL
REPUBLIC SERVICES, INC.
LOUDON COUNTY, TENNESSEE

0 200 400
GRAPHIC SCALE IN FEET

DATE: 07-17-2025

STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF SOLID WASTE MANAGEMENT
DAVY CROCKETT TOWER, 7TH FLOOR
500 JAMES ROBERTSON PARKWAY
NASHVILLE, TN 37243

Choose Inspection Type...

CLASS I FACILITY INSPECTION CHECKLIST

CHECK IF UNDER ENFORCEMENT ACTION ☐

DATE	TIME	WEATHER
9/12/2025	09:51	70F sunny

Loudon County Landfill SNL530000203 21712 Highway 72 North Loudon

EFO: KNOX

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
RECORDS AND REPORTS					
CERTIFIED PERSONNEL NOT PRESENT DURING OPERATING HOURS	0400-11-01-.04(2)(b)5.	■ NA	☐	☐	
COMMENTS					
TRAINED PERSONNEL NOT PRESENT DURING OPERATING HOURS	0400-11-01-.04(2)(b)5. 0400-11-01-.04(2)(b)4.	■ NA	☐	☐	
COMMENTS					
PERMITS, PLANS, OPERATING MANUAL NOT AVAILABLE	0400-11-01-.02(5)(a)(7).	■ NA	☐	☐	
COMMENTS					
INADEQUATE RANDOM INSPECTION PROGRAM	0400-11-01-.04(2)(s)	■	☐	☐	☐
COMMENTS					
NO OPERATING SCALES AND/OR FAILURE TO MAINTAIN WASTE RECORDS	T.C.A. 68-211-862(a)(b)(1)(2)	■ NA	☐	☐	
COMMENTS					
OPERATION DOES NOT CORRESPOND WITH ENGINEERING PLANS	T.C.A. 68-211-104(3) T.C.A. 68-211-105(b)	■	☐	☐	☐
COMMENTS					
OPERATION DOES NOT CORRESPOND WITH PERMIT CONDITIONS	T.C.A. 68-211-104(3) 0400-11-01-.02(5)(a)1.	■ NA	☐	☐	
COMMENTS					

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
GENERAL FACILITY STANDARDS					
ACCESS NOT LIMITED TO OPERATING HOURS	0400-11-01-.04(2)(a)4.	■	☐	☐	☐
COMMENTS					
INADEQUATE INFORMATION SIGNS	0400-11-01-.04(2)(b)2	■	☐	☐	☐
COMMENTS					
INADEQUATE ARTIFICIAL OR NATURAL BARRIER	0400-11-01-.04(2)(b)1.	■	☐	☐	☐
COMMENTS					
INADEQUATE EMPLOYEE FACILITIES	0400-11-01-.04(2)(e)	■	☐	☐	☐
COMMENTS					
UNSATISFACTORY ACCESS ROAD(S)/ PARKING AREA(S)	0400-11-01-.04(2)(b)3.	■	☐	☐	☐
COMMENTS					
NO COMMUNICATION DEVICES	0400-11-01-.04(2)(f)	■	☐	☐	☐
COMMENTS					
INADEQUATE FIRE PROTECTION	0400-11-01-.04(2)(c)2.	■	☐	☐	☐
COMMENTS					
NO PERMANENT BENCHMARK	0400-11-01-.04(2)(o)	■	☐	☐	☐
COMMENTS					
BUFFER ZONE STANDARD VIOLATED	0400-11-01-.04(3)(a)	■	☐	☐	☐
COMMENTS					

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
OVERALL PERFORMANCE STANDARDS					
UNSATISFACTORY LITTER CONTROL	0400-11-01-.04(2)(d)	☐	■	☐	☐
COMMENTS	As the current fill is on the top of the slope. Better control of wind blown litter is advised to avoid compliance issues.				
INADEQUATE DUST CONTROL	0400-11-01-.04(2)(j)	■	☐	☐	☐
COMMENTS					
INADEQUATE VECTOR CONTROL	0400-11-01-.04(2)(a)1.	■	☐	☐	☐
COMMENTS					
POTENTIAL FOR EXPLOSIONS OR UNCONTROLLED FIRES	0400-11-01-.04(2)(a)2. 0400-11-01-.04(5)(a)	■	☐	☐	☐
COMMENTS					
UNAPPROVED SALVAGING OF WASTE	0400-11-01-.04(2)(b)6.	■	☐	☐	☐
COMMENTS					
LEACHATE MANAGEMENT					
LEACHATE OBSERVED AT THE SITE	0400-11-01-.04(2)(a)(3).				
***LEACHATE ON EXTERNAL SLOPE**		☐	■	☐	☐
***LEACHATE ENTERING RUN-OFF**		☐	☐	☐	☐
***LEACHATE ENTERING A WATER COURSE**		☐	NA	NA	☐
COMMENTS	Leachate ponding at edge of former cell just avoid currently unapproved cell was discussed ad being managed to avoid issues.				
INADEQUATE MAINTENANCE OF LEACHATE MANAGEMENT SYSTEM (Inspector check and record (i) Sump Levels (ii) Interception surfaces and piping (iii) Tanks. "Sumps: <12" NVO, 12"<36" V1, >36" V2")	0400-11-01-.04(2)(a)(3). 0400-11-01-.04(4)(a)7.	■	☐	☐	☐
COMMENTS					
Leachate Improperly Managed	0400-11-01-.04(4)(a)8.(i-iii)	■	☐	☐	☐
COMMENTS					

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
LEACHATE MANAGEMENT					
INADEQUATE LEACHATE COLLECTION SYSTEM	0400-11-01-.04(4)(a)7.	■	☐	☐	☐
COMMENTS					
EROSION CONTROL					
INADEQUATE EROSION CONTROL	0400-11-01-.04(2)(i)6. & 0400-11-01-.04(8)(c)4(ii)	■	☐	☐	☐
COMMENTS					
INADEQUATE MAINTENANCE OF RUN-ON/RUN-OFF SYSTEM(S)	0400-11-01-.04(2)(i)1-5 0400-11-01-.04(8)(c)4(i)	■	☐	☐	☐
COMMENTS					
EXPOSED SOLID WASTE	0400-11-01-.04(2)(a)(3).	■	☐	☐	☐
COMMENTS					
GAS AND GROUNDWATER MIGRATION					
INADEQUATE GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	■	☐	☐	☐
COMMENTS					
INADEQUATE MAINTENANCE OF GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	■	☐	☐	☐
COMMENTS					
GROUNDWATER MONITORING SYSTEM IMPROPERLY MAINTAINED	0400-11-01-.02(5)(a)4.	■	☐	☐	☐
COMMENTS					
COVER REQUIREMENTS					
UNAVAILABILITY OF COVER MATERIAL	0400-11-01-.04(2)(h)	■	☐	☐	☐
COMMENTS					
UNSATISFACTORY INITIAL COVER	0400-11-01-.04(6)(a)3. 0400-11-01-.04(6)(a)5.	■	☐	☐	☐
COMMENTS					

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
COVER REQUIREMENTS					
UNSATISFACTORY INTERMEDIATE COVER	0400-11-01-.04(6)(a)4. 0400-11-01-.04(6)(a)5.	■	☐	☐	☐
COMMENTS					
UNSATISFACTORY FINAL COVER	0400-11-01-.04(6)(a)6. 0400-11-01-.04(8(c)3(i)	■	☐	☐	☐
COMMENTS					
UNSATISFACTORY STABILIZATION OF COVER	0400-11-01-.04(6)(a)5	■	☐	☐	☐
COMMENTS					
OPERATIONS AND WASTE HANDLING					
INADEQUATE OPERATING EQUIPMENT	0400-11-01-.04(2)(g)	■	☐	☐	☐
COMMENTS					
UNAVAILABILITY OF BACKUP EQUIPMENT	0400-11-01-.04(2)(g)	■	☐	☐	☐
COMMENTS					
WASTE NOT CONFINED TO A MANAGEABLE AREA	0400-11-01-.04(6)(a)1.	■	☐	☐	☐
COMMENTS					
IMPROPER SPREADING OF WASTE	0400-11-01-.04(6)(a)2.	■	☐	☐	☐
COMMENTS					
IMPROPER COMPACTING OF WASTE	0400-11-01-.04(6)(a)2.	■	☐	☐	☐
COMMENTS					

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
OPERATIONS AND WASTE HANDLING					
MISHANDLING OF SPECIAL WASTE	0400-11-01-.01(4)(d)1.	■ NA			
COMMENTS					
EVIDENCE OF OPEN BURNING	0400-11-01-.04(2)(c)1.	■ NA			
COMMENTS					
DUMPING OF WASTE INTO WATER	0400-11-01-.04 (2)(a)3.	■			
COMMENTS					
WASTE RESTRICTIONS					
UNAUTHORIZED WASTE ACCEPTED	0400-11-01-.04(2)(k)1.	■ NA			
COMMENTS					
UNAPPROVED SPECIAL WASTE ACCEPTED	0400-11-01-.01(4)(b) 0400-11-01-.01(4)(c)5	■ NA			
COMMENTS					
DEAD ANIMALS IMPROPERLY HANDLED	0400-11-01-.04(2)(k)5.(ii) (I-III)	■ NA			
COMMENTS					
TIRES IMPROPERLY HANDLED	0400-11-01-.04(2)(k)3.	■			
COMMENTS					
MEDICAL WASTE IMPROPERLY HANDLED	0400-11-01-.04(2)(k)4.	■			
COMMENTS					

*SEE DISCLAIMER ON LAST PAGE

LEACHATE LEVELS

Disclaimer:
The information contained in the checklists is not intended to be all inclusive and is subject to change, and are intended solely for use by Division of Solid Waste Management. These checklists are not a substitute for evaluation of compliance in accordance with applicable laws and regulations, and are not intended for, nor can they be relied upon, to create any rights, substantive or procedural, enforceable or usable by any party in litigation with the State of Tennessee or its employees.

SAVE FORM

Follow-Up Inspection Date

Inspector Name Lewis L Haynes IV Digitally signed by Lewis L Haynes IV Date: 2025.09.18 12:07:24 -04'00'

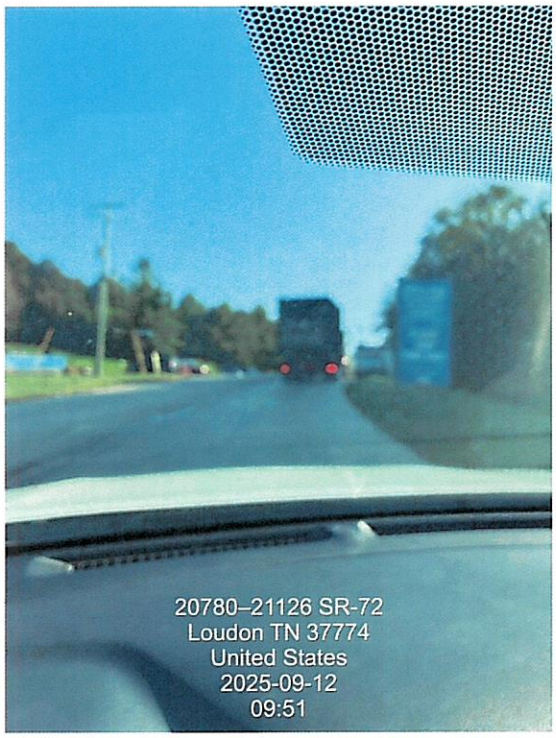
ADDITIONAL COMMENTS

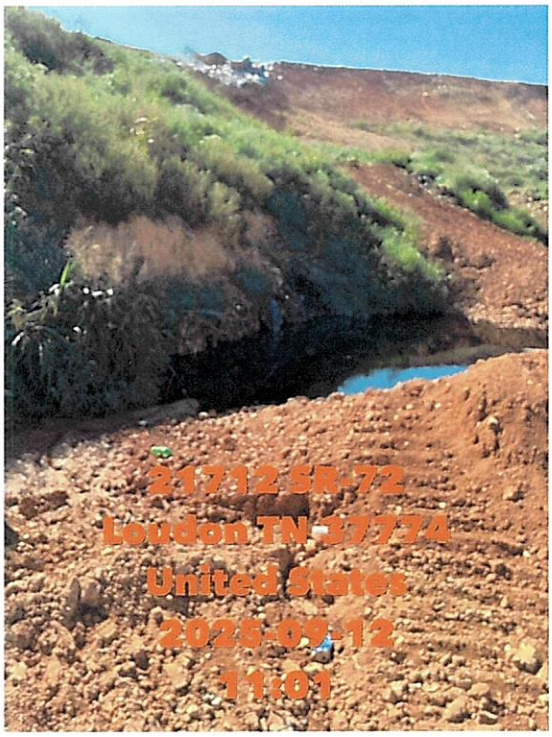
Pond two was still being treated at time of inspection.

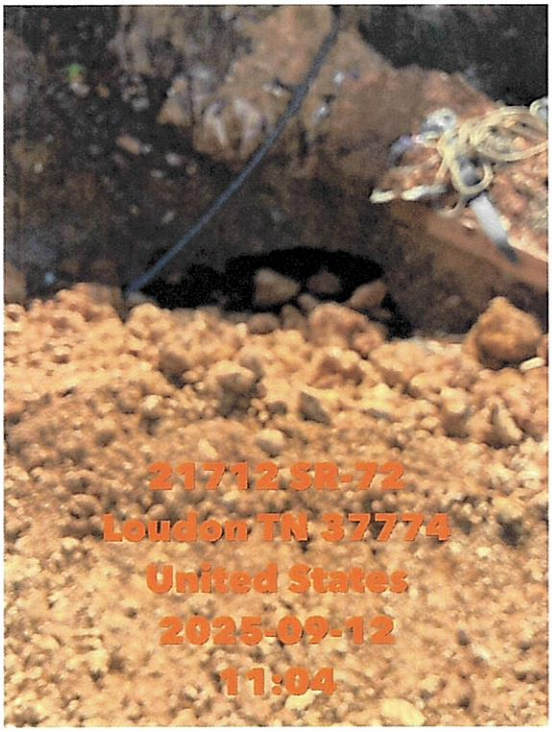
Pond three was open for discharge, but currently not connected to an outfall, which will be corrected as part of new cell construction.

The leachate storage tank was not operational at time of inspection, but was expected to be certified for operation shortly, approve temporary measures are still in place.

The removal or repositioning of the old scale pad exposed during construction was discussed as as the vertical expansion of the cell could lead to damage of the under liner if it is left in place.







STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF SOLID WASTE MANAGEMENT
DAVY CROCKETT TOWER, 7TH FLOOR
500 JAMES ROBERTSON PARKWAY
NASHVILLE, TN 37243

CLASS I FACILITY INSPECTION CHECKLIST

Initial Inspection

CHECK IF UNDER ENFORCEMENT ACTION ☐

DATE	TIME	WEATHER
10/2/2025	13:15	89 f CLEAR

Loudon County Landfill SNL530000203 21712 Highway 72 North Loudon

EFO: KNOX

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
RECORDS AND REPORTS					
CERTIFIED PERSONNEL NOT PRESENT DURING OPERATING HOURS	0400-11-01-.04(2)(b)5.	■ NA	☐	☐	
COMMENTS					
TRAINED PERSONNEL NOT PRESENT DURING OPERATING HOURS	0400-11-01-.04(2)(b)5. 0400-11-01-.04(2)(b)4.	■ NA	☐	☐	
COMMENTS					
PERMITS, PLANS, OPERATING MANUAL NOT AVAILABLE	0400-11-01-.02(5)(a)(7).	■ NA	☐	☐	
COMMENTS					
INADEQUATE RANDOM INSPECTION PROGRAM	0400-11-01-.04(2)(s)	■	☐	☐	☐
COMMENTS	Inspector reviewed log & compared to random day for truck count. 5% confirmed. Tied also to special waste letters, random choice confirmed letters are maintained.				
NO OPERATING SCALES AND/OR FAILURE TO MAINTAIN WASTE RECORDS	T.C.A. 68-211-862(a)(b)(1)(2)	■ NA	☐	☐	
COMMENTS					
OPERATION DOES NOT CORRESPOND WITH ENGINEERING PLANS	T.C.A. 68-211-104(3) T.C.A. 68-211-105(b)	■	☐	☐	☐
COMMENTS					
OPERATION DOES NOT CORRESPOND WITH PERMIT CONDITIONS	T.C.A. 68-211-104(3) 0400-11-01-.02(5)(a)1.	■ NA	☐	☐	
COMMENTS					

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
GENERAL FACILITY STANDARDS					
ACCESS NOT LIMITED TO OPERATING HOURS	0400-11-01-.04(2)(a)4.	■	☐	☐	☐
COMMENTS					
INADEQUATE INFORMATION SIGNS	0400-11-01-.04(2)(b)2	■	☐	☐	☐
COMMENTS					
INADEQUATE ARTIFICIAL OR NATURAL BARRIER	0400-11-01-.04(2)(b)1.	■	☐	☐	☐
COMMENTS					
INADEQUATE EMPLOYEE FACILITIES	0400-11-01-.04(2)(e)	■	☐	☐	☐
COMMENTS					
UNSATISFACTORY ACCESS ROAD(S)/ PARKING AREA(S)	0400-11-01-.04(2)(b)3.	■	☐	☐	☐
COMMENTS	photos of the road Hwy 72 & the access drive were taken and noted as acceptable. Truck wash cleaning of sediments identified & acceptable.				
NO COMMUNICATION DEVICES	0400-11-01-.04(2)(f)	■	☐	☐	☐
COMMENTS					
INADEQUATE FIRE PROTECTION	0400-11-01-.04(2)(c)2.	■	☐	☐	☐
COMMENTS					
NO PERMANENT BENCHMARK	0400-11-01-.04(2)(o)	■	☐	☐	☐
COMMENTS					
BUFFER ZONE STANDARD VIOLATED	0400-11-01-.04(3)(a)	■	☐	☐	☐
COMMENTS					

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
OVERALL PERFORMANCE STANDARDS					
UNSATISFACTORY LITTER CONTROL	0400-11-01-.04(2)(d)	■	☐	☐	☐
COMMENTS					
INADEQUATE DUST CONTROL	0400-11-01-.04(2)(j)	■	☐	☐	☐
COMMENTS					
INADEQUATE VECTOR CONTROL	0400-11-01-.04(2)(a)1.	■	☐	☐	☐
COMMENTS					
POTENTIAL FOR EXPLOSIONS OR UNCONTROLLED FIRES	0400-11-01-.04(2)(a)2. 0400-11-01-.04(5)(a)	■	☐	☐	☐
COMMENTS					
UNAPPROVED SALVAGING OF WASTE	0400-11-01-.04(2)(b)6.	■	☐	☐	☐
COMMENTS					
LEACHATE MANAGEMENT					
LEACHATE OBSERVED AT THE SITE	0400-11-01-.04(2)(a)(3).				
***LEACHATE ON EXTERNAL SLOPE**		■	☐	☐	☐
***LEACHATE ENTERING RUN-OFF**		☐	■	☐	☐
***LEACHATE ENTERING A WATER COURSE**		■	NA	NA	☐
COMMENTS	Leachate pooled in ditch infront of module G. Pumper truck due today. The culvert is blocked and good freeboard exists. The pumps are working and pushing leachate liquids to the other side currently to manage. Clay berms exist on slope below these pumps but some wet & some transfer considered occurring. Berm and collection considered acceptable mitigation until closure of area, if berms get saturated ditch must be controlled/isolated and it was today but still An Area of Concern. It is understood contractors are moving from back cell construction to final cap/closure up in this area b/c of this flat section weeping to address fully with seamed cover geomembrane. AOC considered appropriate - treat liquids as leachate had some dark but no migration to culvert confirmed today inspector walked.				
INADEQUATE MAINTENANCE OF LEACHATE MANAGEMENT SYSTEM (Inspector check and record (i) Sump Levels (ii) Interception surfaces and piping (iii) Tanks. "Sumps: <12" NVO, 12"<36" V1, >36" V2")	0400-11-01-.04(2)(a)(3). 0400-11-01-.04(4)(a)7.	■	☐	☐	☐
COMMENTS	15 inch observed in meter on inside curve up from new cells.				
Leachate Improperly Managed	0400-11-01-.04(4)(a)8.(i-iii)	■	☐	☐	☐
COMMENTS					

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
LEACHATE MANAGEMENT					
INADEQUATE LEACHATE COLLECTION SYSTEM	0400-11-01-.04(4)(a)7.	■	☐	☐	☐
COMMENTS	Tank has been repaired by South East Tank, Initial Assessment Report and summary of work performed by them was reviewed & hereby accepted. Report documents placed in the file. The restored tank may be returned to service now. Monitor the tank as loaded with leachate and periodic observe not issues or leaks are noted with update emails to confirm via email to site inspector.				
EROSION CONTROL					
INADEQUATE EROSION CONTROL	0400-11-01-.04(2)(i)6. & 0400-11-01-.04(8)(c)4(ii)	■	☐	☐	☐
COMMENTS	The subcontractor needs to replace the line of sed fencing below the tank & inside pond. Limited free-board found and justifies replacement as grassing outside toe areas will still take some time. Once complete, send photo via email.				
INADEQUATE MAINTENANCE OF RUN-ON/RUN-OFF SYSTEM(S)	0400-11-01-.04(2)(i)1-5 0400-11-01-.04(8)(c)4(i)	■	☐	☐	☐
COMMENTS					
EXPOSED SOLID WASTE	0400-11-01-.04(2)(a)(3).	■	☐	☐	☐
COMMENTS					
GAS AND GROUNDWATER MIGRATION					
INADEQUATE GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	■	☐	☐	☐
COMMENTS	Inspector reviewed today the April gas monitoring report provided (cover letter July) and no issues identified.				
INADEQUATE MAINTENANCE OF GAS MIGRATION CONTROL SYSTEM	0400-11-01-.04(5)(a)	■	☐	☐	☐
COMMENTS					
GROUNDWATER MONITORING SYSTEM IMPROPERLY MAINTAINED	0400-11-01-.02(5)(a)4.	■	☐	☐	☐
COMMENTS					
COVER REQUIREMENTS					
UNAVAILABILITY OF COVER MATERIAL	0400-11-01-.04(2)(h)	■	☐	☐	☐
COMMENTS					
UNSATISFACTORY INITIAL COVER	0400-11-01-.04(6)(a)3. 0400-11-01-.04(6)(a)5.	■	☐	☐	☐
COMMENTS	flagging on inside back slope on south west side had been identified at last visit (AOC level). New dirt has been worked for ~85% and items observed stagged lower on the slope to be picked up/recovered. Dress up cover work considered good today.				

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
COVER REQUIREMENTS					
UNSATISFACTORY INTERMEDIATE COVER	0400-11-01-.04(6)(a)4. 0400-11-01-.04(6)(a)5.	■	☐	☐	☐
COMMENTS					
UNSATISFACTORY FINAL COVER	0400-11-01-.04(6)(a)6. 0400-11-01-.04(8(c)3(i)	■	☐	☐	☐
COMMENTS					
UNSATISFACTORY STABILIZATION OF COVER	0400-11-01-.04(6)(a)5	■	☐	☐	☐
COMMENTS					
OPERATIONS AND WASTE HANDLING					
INADEQUATE OPERATING EQUIPMENT	0400-11-01-.04(2)(g)	■	☐	☐	☐
COMMENTS					
UNAVAILABILITY OF BACKUP EQUIPMENT	0400-11-01-.04(2)(g)	■	☐	☐	☐
COMMENTS					
WASTE NOT CONFINED TO A MANAGEABLE AREA	0400-11-01-.04(6)(a)1.	■	☐	☐	☐
COMMENTS					
IMPROPER SPREADING OF WASTE	0400-11-01-.04(6)(a)2.	■	☐	☐	☐
COMMENTS					
IMPROPER COMPACTING OF WASTE	0400-11-01-.04(6)(a)2.	■	☐	☐	☐
COMMENTS					

*SEE DISCLAIMER ON LAST PAGE

VIOLATION	REGULATION	OBSERVATION NVO	AOC	V1	V2
OPERATIONS AND WASTE HANDLING					
MISHANDLING OF SPECIAL WASTE	0400-11-01-.01(4)(d)1.	■ NA			
COMMENTS					
EVIDENCE OF OPEN BURNING	0400-11-01-.04(2)(c)1.	■ NA			
COMMENTS					
DUMPING OF WASTE INTO WATER	0400-11-01-.04 (2)(a)3.	■			
COMMENTS					
WASTE RESTRICTIONS					
UNAUTHORIZED WASTE ACCEPTED	0400-11-01-.04(2)(k)1.	■ NA			
COMMENTS					
UNAPPROVED SPECIAL WASTE ACCEPTED	0400-11-01-.01(4)(b) 0400-11-01-.01(4)(c)5	■ NA			
COMMENTS					
DEAD ANIMALS IMPROPERLY HANDLED	0400-11-01-.04(2)(k)5.(ii) (I-III)	■ NA			
COMMENTS					
TIRES IMPROPERLY HANDLED	0400-11-01-.04(2)(k)3.	■			
COMMENTS					
MEDICAL WASTE IMPROPERLY HANDLED	0400-11-01-.04(2)(k)4.	■			
COMMENTS					

*SEE DISCLAIMER ON LAST PAGE

LEACHATE LEVELS

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SAVE FORM

Follow-Up Inspection Date

Inspector Name Paula Plont Digitally signed by Paula Plont Date: 2025.10.03 14:04:24 -04'00'

ADDITIONAL COMMENTS

SITE MOBILE TANKS NO LONGER ON SITE AND THE LEACHATE TANK HAS NOW BEEN RESTORED. SOUTH EAST TANK INITIAL ASSESSMENT REPORT & WORK SUMMARY REVIEWED BY INSPECTOR & HEREBY ACCEPTS THE RESTORATION PROJECT COMPLETED. tHE TANK MAY BE RETURNED TO SERVICE. DSWM KEFO requests site observation periodically as the leachate is added to the tank and updates to confirm the liquids are confined with updates to be provided via email.

Last inspection noted some flagging in cover at or just below the crown where the working face had been located. New fresh dirt was observed today with flagging or items pushed down in pile for recovered at bench road. Looked good.

Module G ditch berms are noted as wet so transference is noted. the ditch is blocked and pump trucks cycle to collect for leachate disposal. Inspector walked exit culverts and no flow away from this confined area was observed. Maintain pumping (inside & externally in that ditch as needed & continue to block). Site contractor will remain mobilized and closure of this area will be started once the new cell is finished (couple/few weeks current projected finish for new cell). Adequate efforts to include the cyclic pumping of the ditch until geomembrane closure can be performed in this area. AOC cited as it is an area of concern.

The pond behind the office remains blocked. Pumps are moving water and new configuration was attempted with an other modification/improvement ordered and expected in endevor to increase effectiveness of aeration treatment. Last data set reviewed on site with mgr.

Small working face.

REPUBLIC SERVICES

October 1, 2025

Loudon County Solid Waste Disposal Commission
Attn: Chief Deputy Clerk
101 Mulberry Street Suite 203
Loudon, TN 37774

Dear Trustee:

Pursuant to Section 10.6 and 10.7 of the Sanitary Landfill Operation Agreement between Loudon and Santek as of July 1, 2007, Second Amendment Section 10.6 dated July 12, 2022, Santek agreed to pay the Commission a host fee and security fee as defined in the agreement. The following recap reflects the calculation for the period of September 2025:

	Host Fees (Greater of below)		
Total Tip Fees Billed	$527,809.83	Total Tonnage Received	16,364.43
Host Fee Percentage	5.5%	Rate per Ton	$1.00
	$29,029.54		$16,364.43
Minimum Fee	$10,750.00		
	==========		
	Security Fees		
Total Tip Fees Billed	$527,809.83		
Security Fee Percentage	5%		
	$26,390.49		
	=========		
	Minutes Payment		
Loudon County Minutes	$100.00		
	=========		
Total amount to be received	$55,520.03		
	=========		

Our checks in payment of the above fees have been remitted to the above address for the Commission. Should you have any questions or need additional information, please let me know.

Sincerely,

David L. Hollinshead
Manager Municipal Sales

Loudon County Department of Accounts and Budgets
Solid Waste Disposal Fund 207
Monthly Cash Report
September 2025

August 2025 Combined Ending Cash Balance per Monthly Report		6,668,701.35	
Adjustments:			
Less Aug Trustee Commission	(462.17)		
Total Adjustments		(462.17)	
Adjusted August 2025 Combined Ending Balance per Loudon Co Trustee			**6,668,239.18**
Solid Waste Disposal Commission Operating Fund			
Operating Fund Ending Balance August 2025		**6,639,099.29**	
Cash Receipts:			
Trustee's Collections - Prior Year			
Surcharge - Host Fees	27,507.02		
Surcharge - Security Fees	24,915.47		
Investment Income	17,801.33		
Investment Income (Proration for Popular Springs S/F)	(229.74)		
Total Monthly Revenue		69,994.08	
Cash Disbursements:			
Board & Committee Members Fees	(475.00)		
Social Security	(4.65)		
Medicare	(1.08)		
Audit Services			
Legal Services			
Legal Notices			
Other Contracted Services			
Building & Content Insurance			
Total Cash Disbursements		(480.73)	
Expenditure Credit:			
Trustee Commission Adjustment		5.92	
Operating Fund Ending Balance September 2025			**6,708,618.56**
Poplar Springs Subfund			
Poplar Springs Subfund Balance August 2025		**29,139.89**	
Cash Receipts:			
Investment Income - Proration based on % of balance	229.74		
Total Monthly Revenue		229.74	
Cash Disbursements:			
Trustee's Commission - Proration = % of balance	(5.92)		
Total Cash Disbursements		(5.92)	
Poplar Springs Subfund Balance September 2025			**29,363.71**
TOTAL COMBINED OPERATING AND POPLAR SPRINGS SEPTEMBER 2025 BALANCE			**6,737,982.27**

Combined Summary - September 2025	
Beginning Balance	**6,668,239.18**
Plus Operating Revenue	**70,223.82**
Less Operating and Poplar Springs Disbursements	**(480.73)**
TOTAL COMBINED BALANCE - SEPTEMBER 2025	**6,737,982.27**

NOTE: Accounting Dept did not have Trustee's Sep report at the time of preparation.