GREDELL
ENGINEERING RESOURCES

Sikeston Power Station
2026 Annual Groundwater Monitoring and Corrective Action Report
For Fly Ash Pond
Compliance with USEPA 40 CFR 257.90(e)

Prepared for:

BMU Sikeston
Board of Municipal Utilities

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July 2026

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1.0 EXECUTIVE SUMMARY

This report has been developed to fulfill the requirements of the United States Environmental Protection Agency (USEPA) 40 CFR 257 Subpart A – Classification of Solid Waste Disposal Facilities and Practices (CCR Rule), which requires owners or operators to provide an Annual Groundwater Monitoring Report. Sikeston Board of Municipal Utilities (SBMU) provides this report of groundwater sampling activities completed between July 2025 and March 2026 for the Fly Ash Pond (FAP) at the Sikeston Power Station (SPS).

At the start of the current reporting period the FAP was in assessment monitoring status, which also includes detection monitoring. Detection monitoring statistical evaluations are completed after each sampling event to determine if SSIs relative to the baseline data are apparent.

Results from the 14th semiannual Compliance/Detection Monitoring (7th Assessment Monitoring) event for CCR rule groundwater sampling compliance suggested eight apparent SSIs of pH (MW-1R, MW-2, MW-7, and MW-9); Sulfate, and TDS (MW-7); and Boron (MW-3, and MW-7). The results from the 15th Compliance/Detection (8th Assessment) event confirmed SSIs pH (MW-9); and Boron, Sulfate and TDS (MW-7), and suggested apparent (unconfirmed) SSIs (Chloride at MW-7). As a result, the FAP will remain in assessment monitoring during the 16th semiannual Compliance/Detection Monitoring (9th Assessment Monitoring) event, which is conducted for both detection and assessment monitoring constituents (§257 Appendix III & IV).

Since assessment monitoring was established for the FAP and verification sampling was completed in accordance with §257.95(d)(1), statistical evaluations are completed to determine if assessment monitoring constituents are present at Statistically Significant Levels (SSLs) relative to the Groundwater Protection Standards (GWPS). Following the assessment monitoring conducted during the 14th and 15th CCR compliance groundwater sampling events initiated on July 17, 2025 and March 21, 2026, SSLs of Molybdenum (in MW-1R, MW-7, and MW-9) and Cobalt (MW-1R) were confirmed. As a result, Corrective Action (CA) Monitoring was established in late 2025 with the addition of MW-4, and NE-3 as additional down gradient CA monitoring wells.

CA Monitoring results following the 14th and 15th CCR compliance groundwater sampling events indicated that GWPS are exceeded by the Upper Confidence Limits (UCLs) for Molybdenum (in MW-1R, MW-7, and MW-9), Cobalt (in MW-1R), and Lithium (in MW-7). As a result, CA monitoring for the FAP will continue with Assessment and Detection Monitoring.

Following this reporting cycle (and 15th CCR Compliance Sampling Event), SPS will remain in Detection and Assessment Monitoring status and continue CA monitoring.

Table 1. Fly Ash Pond Groundwater Sampling Event Summary and Statistical Evaluations for Detection, Assessment, and Corrective Action Monitoring

Event Name and Purpose	Event Start	Final Data Received from Laboratory	Constituents Sampled	Apparent SSIs Detection Monitoring Constituents	Confirmed SSIs Detection Monitoring	Verified SSLs (LCL and UCL over GWPS) Assessment Monitoring	Verified SSLs (UCL over GWPS) Corrective Action Monitoring	Statistical Analysis Results Completed
14th CCR Compliance Sampling Event (2nd 2025 Semi-annual Detection and Assessment and CA Monitoring Event)	7/17/2025	8/29/2025 & 1-23-2026 (CA Background)	App III & IV Constituents	pH (MW-1R, MW-2, MW-7, MW-9) Boron (MW-3, MW-7), and TDS & Sulfate (MW-7)	pH (MW-1R, MW-9)	Molybdenum (MW-1R, MW-7,& MW-9), and Cobalt (MW-1R)	Molybdenum (MW-1R, MW-7,& MW-9), and Cobalt (MW-1R)	1/26/2026
15th CCR Compliance Sampling Event (1st 2026 Semi-annual Detection and Assessment and CA Monitoring Event)	3/21/2026	4/1/2026	App III & detected IV (App III & As, Ba, Co, Fl, Li, Mo, & Se)	pH (MW-9), & Boron, Chloride, Sulfate & TDS (MW-7)	pH (MW-9) Boron, Sulfate & TDS (MW-7)	Molybdenum (MW-1R, MW-7,& MW-9), and Cobalt (MW-1R)	Molybdenum (MW-1R, MW-7,& MW-9), Cobalt (MW-1R), and Lithium (MW-7)	4/10/2026

LCL = Lower Confidence Limit
UCL = Upper Confidence Limit
GWPS = Groundwater Protection Standards
SSI = Statistically Significant Increase relative to background
SSL = Statistically Significant Level above respective Groundwater Protection Standard

2.0 INTRODUCTION

The Sikeston Power Station (SPS), owned and operated by the Sikeston Board of Municipal Utilities (SBMU), is an electric power producer and distributor located within the western city limits of Sikeston, in southern Scott County, Missouri. The SBMU-SPS began operation in 1981 and produces approximately 235 megawatts of electricity. The facility's two coal ash surface impoundments are located immediately east of the power station and are on properties owned and controlled by SBMU. The Fly Ash Pond (FAP) measures approximately 30 acres in size and borders the north edge of the Bottom Ash Pond (BAP), which measures approximately 61 acres. The FAP is subject to the alternate compliance schedule specified by the United States Environmental Protection Agency (USEPA) under 40 CFR Part 257.100(e)(5)(ii) ((§257.100(e)(5)(ii)) due to its initial inactive status and the Response to Partial Vacatur (the Direct Final Rule). This report, prepared by GREDELL Engineering Resources, Inc. (GER), pertains specifically to the FAP.

Pursuant to USEPA's §257 Federal Criteria for Classification of Solid Waste Disposal Facilities and Practices, Subpart D – Standards for Disposal of Coal Combustion Residuals (CCR) in Landfills and Surface Impoundments (ponds), the establishment of a groundwater monitoring system and routine detection sampling and reporting is required at all coal ash surface impoundments. The purpose of a monitoring well system is to evaluate the quality of groundwater as it passes beneath the waste mass within an impoundment. Groundwater samples are collected and analyzed on a semi-annual basis in accordance with §257.93, or as otherwise detailed in a site-specific Groundwater Monitoring and Sampling Plan (GMSAP) (GER, 2018; 2021a; & 2025a). Analytical data also are subjected to statistical analysis in accordance with §257.93(f), with the results included in this Annual Groundwater Monitoring Report in accordance with §257.90(e).

If detection monitoring results suggest that a statistically significant increase (SSI) in one or more constituents for detection monitoring listed in §257 Appendix III (Table 2) has occurred, a written demonstration is required to determine if the SSI is attributable to alternate causative factors. If a successful demonstration is not made, an assessment monitoring program must be initiated as required under §257.95. If assessment monitoring is required, and results suggest that one or more concentrations of the assessment monitoring constituents listed in §257 Appendix IV (Table 2) are present at a statistically significant level (SSL) above GWPS, a written demonstration is required to determine if the SSL(s) is/are attributable to alternate causative factors. If a successful demonstration is not made, nature and extent of the release must be characterized in accordance with §257.95(g)(1), to support an Assessment of Corrective Measures as required by §257.96.

Following confirmation of Cobalt and Molybdenum SSLs above Groundwater Protection Standards (GWPS), a Nature and Extent Characterization (GER, 2023b) of Molybdenum and Cobalt and an Assessment of Corrective Measures (GER, 2025b) were completed. In May 2025,

SPS selected the most appropriate corrective measure based on the ACM and public comments (GER, 2025c). CA Monitoring was initiated for the FAP. Monitoring wells MW-4 and NE-3 were added to the FAP groundwater monitoring system for the purposes of CA Monitoring in accordance with §257.98.

This report describes the results of the following semi-annual events:

- 14th Compliance Sampling Event (2nd 2025 Detection and Assessment, and 1st CA Event), and
- 15th Compliance Sampling Event (1st 2026 Detection and Assessment, and 2nd CA Event).

As summarized on Table 1, these events were initiated on July 17, 2025 (14th event) and March 21, 2026 (15th event). Included is a description of the sampling events, groundwater elevations, water table maps, field activity summaries, final analytical data, and statistical analysis results.

3.0 GROUNDWATER MONITORING SYSTEM

The Detection and Assessment groundwater monitoring system for the FAP consists of six wells following the addition of MW-10 in early 2023. Well locations are depicted on Figures 1 and 2. The wells are identified as MW-1R, MW-2, MW-3, MW-7, MW-9, and MW-10. Monitoring wells MW-2 and MW-3 are located hydraulically upgradient of the FAP, whereas MW-1R, MW-7, MW-9, and MW-10 are located hydraulically downgradient of the FAP. Monitoring wells MW-2 and MW-3 were installed on April 26 and 27, 2016 by Smith & Company of Poplar Bluff, Missouri during hydrogeologic characterization of the site (GER, 2017). Monitoring wells MW-7 and MW-9 were installed on April 18, 2017, and November 13, 2017, respectively, by Bulldog Drilling, Inc. of Dupo, Illinois to serve as additional downgradient monitoring wells. Monitoring well MW-1R was installed on September 3, 2021, by Bulldog Drilling, Inc. to replace MW-1. Monitoring well MW-10 was installed on February 9, 2023, by Bulldog Drilling, Inc. to serve as a downgradient compliance well at the facility boundary.

Coincident with implementation of FAP CA monitoring, wells MW-4 and NE-3 were added to the FAP groundwater monitoring system. Monitoring well MW-4 was installed in May 2016 by Smith & Company, and NE-3 was installed by Bulldog Drilling, Inc. during the Nature and Extent Characterization (GER, 2023b).

Table 3 presents a construction summary of the wells comprising the FAP groundwater monitoring system. Figures 1 and 2 depict groundwater contour maps of the uppermost aquifer for the 14th (Figure 1) and 15th (Figure 2) semi-annual CCR compliance groundwater sampling events. Groundwater elevations have been monitored regularly in each well since installation, and these historical water levels are summarized on Table 4. Figures 1 and 2 confirm that groundwater in the uppermost aquifer continues to move in a west-southwesterly direction, consistent with the conclusions of the Site Characterization Report (GER, 2017) and the historical data in Table 4. All groundwater wells are equipped with dedicated tubing for use with a peristaltic pump. The FAP groundwater monitoring system is described in more detail in the revised site-specific GMSAP for this facility (GER, 2018; 2021a; & 2025a).

3.1 Installation or Decommissioning of Monitoring Wells

No monitoring wells were installed or decommissioned for the FAP detection and/or assessment groundwater monitoring systems since the previous Annual Groundwater Monitoring Report (GER, 2024). However, monitoring well NE-3, installed during the Nature and Extent Characterization (GER, 2023b), and MW-4, previously used for BAP detection monitoring were added to the monitoring system for the FAP in late 2025. The groundwater monitoring system wells are identified as MW-1R, MW-2, MW-3, MW-4, MW-7, MW-9, MW-10, and NE-3. MW-2 and MW-3 are located hydraulically upgradient of the Fly Ash Pond whereas MW-1R, MW-4, MW-7, MW-9, MW-10, and NE-3 are located hydraulically downgradient of the Fly Ash Pond.

4.0 GROUNDWATER MONITORING SUMMARY

The 14th and 15th CCR compliance groundwater sampling events for the FAP were completed by SPS environmental staff. The 14th CCR compliance groundwater sampling event (2nd 2025 semi-annual event) was initiated on July 17, 2025 and the 15th event (1st 2026 semi-annual event) was initiated on March 21, 2026.

Assessment Monitoring was established for the SBMU-SPS FAP in November 2022 in accordance with §257.94(e). In accordance with §257.95(b), assessment monitoring was initiated on November 2, 2022, concurrently with detection monitoring.

In accordance with §257.95(d)(2), GWPS were established as specified in §257.95(h) for all detected §257 Appendix IV constituents. Statistical results for the 14th and 15th detection groundwater sampling events are discussed in detail in Section 6.0. Assessment and CA monitoring statistical results for the most recent compliance events are presented in Appendix 9.

Field procedures for the groundwater compliance sampling events were conducted in accordance with the GMSAP for this facility (GER, 2018; 2021a; & 2025a). Field notes documenting the groundwater sampling events are presented in Appendix 1. The field sampling notes are summarized in Table 5, including initial and final water level measurements, purge volumes, and pH. Laboratory analytical reports for each sampling event, including field blank, and sample duplicate results, are included in Appendix 2. Quality Assurance/Quality Control (QA/QC) documentation is presented in Appendix 3. A summary of baseline (data set used as the basis for comparison to compliance samples), detection, and assessment monitoring analytical data for each well, including field parameters, is presented in Appendix 4.

4.1 Field Quality Assurance/Quality Control

Field QA/QC during each sampling event included the collection of one field blank and one field duplicate sample. The duplicate during the 14th event was collected at MW-1R, and the duplicate from the 15th event was collected at MW-2. The samples and their duplicates collected during the sampling events were analyzed for detection and assessment monitoring constituents. Duplicate results and Relative Percent Differences (RPDs) calculated to assess laboratory reproducibility are summarized in Table 6. Rinsate blanks were not collected because dedicated sampling equipment was used. Samples were shipped to Teklab, Inc. Environmental Laboratory facility located in Collinsville, Illinois using standard chain-of-custody documentation/procedures. Teklab subcontracted the Radium analysis to Summit Environmental Technologies, Inc.

Samples collected during the 14th event were received by the primary facility on July 22, 2025, and subsequently analyzed for six (pH is field measured) detection monitoring and fourteen assessment monitoring constituents listed in §257 Appendix III and IV (Table 2) and required under §257.94(b). Final analytical results were received on August 29, 2025.

Samples collected during the 15th event were received by the primary facility on March 24, 2026, and subsequently analyzed for detection monitoring and the seven previously detected assessment monitoring constituents (arsenic, barium, cobalt, lithium, molybdenum, selenium and fluoride; Appendix 9). Final analytical results were received April 1, 2026.

5.0 ANALYTICAL SUMMARY

Analytical data reports for each monitoring well sampled during the 14th and 15th compliance groundwater sampling events are provided in Appendix 2. The data pertain to groundwater quality results from the uppermost aquifer in the area bordering the FAP, along with sample duplicate and field blank results.

5.1 Laboratory Quality Control

Laboratory analyses of the groundwater samples collected during the 14th and 15th events were completed by Teklab, Inc. Environmental Laboratories. The results were accompanied by appropriate QA/QC documentation. That documentation is presented in Appendix 3.

5.2 Precision and Accuracy

Precision is a measure of the reproducibility of analytical results, generally expressed as an RPD. Laboratory quality control procedures to measure precision consist of laboratory control sample (LCS) analysis and analysis of matrix spike/matrix spike duplicates (MS/MSD). These analyses are used to define analytical variability. Accuracy is defined as the degree of agreement between the measured amount of a species and the amount actually present, expressed as a percentage. It is generally determined by calculating the percent recoveries for analyses of surrogate compounds, laboratory control samples, continuing calibration check standards and matrix spike samples. Acceptable percent recoveries are established for SW-846 and USEPA methods. Field and laboratory blank analyses are also used to address measurement bias.

The analyses were performed within appropriate hold times, and both initial and continuing calibrations met acceptance criteria for all analyses except as noted below. Similarly, method blanks and LCS analyses met acceptance criteria. The case narratives for the 14th and 15th event analytical reports indicate that quality controls met acceptance criteria with the following exceptions:

14th Compliance Sampling Event (2nd 2025 Detection and Assessment Monitoring Event (July 17, 2025)):

- The MW-2 result for Calcium is flagged “S” because the spike recovery was outside recovery limits.
- Several results for Fluoride, Chloride, and/or Sulfate are flagged “J” because the analyte detected was below quantitation limits.
- The Combined Radium results (all samples) are flagged “U” because results were not detected above the MDL.
- All quality controls met for verification sampling event.

15th Compliance Sampling Event (1st 2026 Detection and Assessment Monitoring Event (March 21, 2026)):

- Several results for Fluoride, Chloride, and/or Sulfate are flagged "J" because the analyte detected was below quantitation limits.
- All quality controls met for verification sampling event.

Additional QA/QC comments include the following:

- *Field Duplicates:* Analyses of duplicate samples are used to define the total variability of the sampling/analytical system as a whole. One field duplicate was collected during each monitoring event. The RPD was calculated for all detected chemical parameters. A summary table showing the results of the RPD calculations is included as Table 6. Using a tolerance level of ±20 percent, all calculated RPDs are within acceptable ranges for each detected parameter reported during the 14th and 15th events.
- *Field Blank:* One field blank was incorporated into the data set for each sampling event. Results for the field blanks (Appendix 2) documented no reportable concentrations during the 14th and 15th events.
- *Trip Blank:* One trip blank was incorporated into the data set for each sampling event. These laboratory-prepared trip blanks also accompanied the sample containers from the time they were shipped from the lab to SPS and until the samples arrived back at Teklab, Inc. (Teklab) for analysis. Results for the trip blanks (Appendix 2) documented no reportable concentrations during the 14th and 15th events.
- *Laboratory Blanks:* Method blanks, artificial, and matrix-less samples are analyzed to monitor the laboratory system for interferences and contamination from glassware, reagents, etc. Method blanks are taken throughout the entire sample preparation process. They are included with each batch of extractions or digestions prepared, or with each 20 samples, whichever was more frequent. Reference to Appendix 3 should be made for comments related to these and other laboratory control samples.

5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely reflect site conditions. Representativeness of the data is determined by comparing actual sampling procedures to those delineated in the field sampling plan, comparing results from field duplicate samples, and reviewing the results of field blanks.

Approved sampling procedures are described in the GMSAP (GER, 2018; 2021a; & 2025a) and were followed. Approved sampling procedures should be reviewed annually. Review of field blank data, duplicate analysis results, and RPDs do not suggest representativeness issues (Table

6 and Appendix 2). Groundwater sampling data are evaluated using appropriate statistical analysis methodologies and is conducted separately for each constituent in each monitoring well in accordance with §257.93(f) and the performance standards in §257.93(g).

5.4 Comparability

Comparability expresses the confidence with which one data set can be compared to another data set measuring the same property. Comparability is ensured by using established and approved sample collection techniques and analytical methods, consistent basis of analysis, consistent reporting units, and analyzing standard reference materials.

5.5 Completeness

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount expected under controlled laboratory conditions. Completeness is defined as the valid data percentage of the total tests requested. Valid data are defined as those where the sample arrived at the laboratory intact, properly preserved, in sufficient quantity to perform the requested analyses, and accompanied by a completed chain-of-custody form (Appendix 3). Furthermore, the sample must have been analyzed within the specified holding time and in such a manner that analytical QC acceptance criteria are met.

6.0 STATISTICAL ANALYSIS

As discussed in Section 3.0, the FAP is in CA monitoring status at the time of this report, and sampling activities for detection, assessment, and CA monitoring were conducted concurrently during the 14th and 15th compliance groundwater monitoring events.

The statistical analysis method used to evaluate detection monitoring data within the uppermost aquifer for the FAP monitoring system at SBMU-SPS consists of intra-well analysis using prediction limits to ascertain if detection monitoring constituent concentrations have increased (or pH changed) significantly.

The statistical analysis methods for the FAP assessment and CA monitoring data consists of intra-well analysis using confidence interval comparison of monitoring constituent concentrations to GWPS (Appendix 9). It is noted that confidence intervals are the recommended general statistical strategy in compliance/assessment monitoring or CA monitoring according to Unified Guidance (USEPA, 2009).

Groundwater sampling data are evaluated using appropriate statistical analysis methodologies and is conducted separately for each constituent in each monitoring well in accordance with §257.93(f) and the performance standards in §257.93(g).

6.1 Detection Monitoring Statistical Procedures

A complete background data set has been obtained for groundwater, representing the uppermost aquifer, moving below the FAP at the SPS. Data from the groundwater compliance sampling events are periodically added to the background data set to create the baseline data set that is the basis for comparison to compliance (detection) data. The baseline data is presented in Appendix 4. The baseline data was used to evaluate detection monitoring compliance results during the 14th and 15th groundwater compliance sampling events initiated at the SPS FAP in July 2025 and March 2026, respectively. Data from each event is compared to a comprehensive baseline data set resulting from previous sampling events. The baseline data set for MW-1R is based on 15 rounds of background data collected from October 2021 to May 2025, and the baseline data set for MW-10 is based on 12 rounds of background data collected from February 2023 to May 2025. The baseline data sets for MW-2, MW-3, MW-7, and MW-9 are based on 21 rounds of background data collected from March 2018 to May 2025. Updates to the baseline data set are permitted every two years, but SSIs will not be included in baseline unless they are unconfirmed in accordance with Unified Guidance (USEPA, 2009). The next baseline update may be conducted following the 17th groundwater compliance sampling event or later in accordance with Unified Guidance.

Statistical analysis was performed in accordance with §257.93 using Sanitas© for Ground Water. The groundwater analytical results from the 14th and 15th detection monitoring events were compared to the respective intra-well prediction limits at the 99 percent confidence level (Table 8) to determine if SSIs over baseline were apparent in the data sets.

6.2 Exploratory Data Analysis and Detection Data Screening

Exploratory Data Analysis (EDA) refers to a collection of descriptive and graphical statistical tools used to explore and understand a data set (ITRC, 2013). Generally, EDA includes a numerical summary and graphical displays such as Time Series Plots, Box and Whisker Plots, Histograms and Probability Plots. EDA methods were supplemented with outlier and trend analysis tools included with Sanitas© software.

6.2.1 Detection Data Outlier Screening

The detection monitoring data were initially evaluated for possible outliers using the EDA outputs, which included Time Series Plots, Box and Whisker Plots, Histograms and Probability Plots. Procedures have been developed and provide the basis for the 'statistical' evaluation of possible outliers. The procedures have been documented in previous annual reports for the FAP (GER, 2023). Using these outlier analysis procedures, three outliers were confirmed in the database (two associated with Chloride at MW-4, and one associated with TDS at MW-2). Three confirmed outliers represent less than one percent of the 777 data points, which include 588 data points for MW-2, MW-3, MW-7, and MW-9 (7 constituents x 4 wells x 21 sampling events), 105 individual data points for MW-1R (7 constituents x 1 well x 15 sampling events), and 84 individual data points for MW-10 (7 constituents x 1 well x 12 sampling events). Following future updates to the baseline data set, the identification of potential outliers will be re-evaluated.

6.2.2 Detection Data Trend Screening

The confirmed outliers were removed from the baseline data sets, as appropriate, prior to trend testing. The Sen's Slope/Mann-Kendall (non-parametric) trend test within Sanitas© was selected to identify statistically significant downward or upward trends in the detection monitoring baseline data for each of the FAP groundwater monitoring system wells. Trend testing identified several trends in the data, however, significant increasing trends in constituent concentrations, and both decreasing and increasing significant trends in pH are of primary interest for detection monitoring at this site. During the baseline database update in 2025, two increasing trends were determined to be significant at the 98% confidence level by Sanitas©. These increasing trends were associated with pH at upgradient well MW-3, and Calcium at downgradient well MW-9.

Following Trend analysis, trend correction was performed for pH at MW-3, and Calcium at MW-9. Trend elimination is accomplished by iteratively removing early data from the set and re-checking for trends. Removed values are indicated in Appendix 4, and the data range for the

resulting alternate data set is summarized in Table 7. The resulting alternate data set was tested using Sanitas© to verify successful trend elimination.

6.3 Detection Monitoring Statistical Results

The results of the statistical analysis for the detection monitoring data from the 14th and 15th sampling events are described below. A complete database summarizing the sample results, screened data, dates of sampling, and the purpose of sampling event, as per §257.90(e)(3), is provided in Appendix 4. A statistical power curve, based on the updated baseline data for detection monitoring, is provided in Appendix 5. Time-series plots of baseline data for all detection and assessment monitoring constituents are presented in Appendix 6. Box and whiskers plots for all detection and assessment monitoring data are presented in Appendix 7. Prediction limit charts for detection monitoring data are provided in Appendix 8.

The statistical analysis for the 14th FAP groundwater sampling event suggested eight apparent (unconfirmed) detection constituent SSIs (pH at MW-1R, MW-2, MW-7, & MW-9; Boron at MW-3 & MW-7); and Sulfate and TDS at MW-7, but only two SSIs were confirmed (pH in MW-1R, and MW-9) as summarized in Table 1.

The statistical analysis for the 15th FAP groundwater sampling event suggests five apparent (unconfirmed) detection constituent SSIs (Boron, Chloride, Sulfate, and TDS at MW-7; and pH at MW-9), but only four were confirmed (Boron, Sulfate, and TDS at MW-7; and pH at MW-9) as summarized in Table 1. The associated prediction limits for these and all other well constituent pairs are summarized in Table 8.

6.4 Assessment and Corrective Action Monitoring Statistical Results

The §257 Appendix IV - Constituents for Assessment Monitoring were not compared to baseline values because at least one concentration was greater than the GWPS (Table 9). These comparisons would be performed in accordance with §257.95(e) and (f), if the possibility of returning to Detection Monitoring status appeared probable, by using Sanitas© to calculate prediction intervals based on the established baseline data for Appendix III and IV constituents to determine if concentrations are below baseline values.

The analytical results for §257 Appendix IV - Constituents for Assessment Monitoring were evaluated to determine if SSLs over GWPS (Table 9) are apparent. Sanitas© was used to calculate confidence intervals based on the monitoring data following traditional data review, quality control, and outlier testing (Appendix 9). Sanitas© identified three outliers in the Appendix IV database, associated with Arsenic (one value at MW-1R) and Selenium (two values at MW-2), which were subsequently removed from the Appendix IV database prior to calculating confidence intervals.

Assessment Monitoring confidence Intervals were calculated for each well constituent pair as summarized in Appendix 9. If the LCL is greater than the GWPS, an SSL is apparent. Four Assessment Monitoring SSLs were identified in the data. These are indicated below:

- Molybdenum (MW-1R, MW-7, and MW-9), and
- Cobalt (MW-1R).

In CA Monitoring, the UCL is of greatest concern. If the UCL is greater than its respective GWPS, the system remains in CA monitoring status. Five CA Monitoring SSLs were identified in the data. These are indicated in Appendix 9 and below:

- Molybdenum (MW-1R, MW-7, and MW-9),
- Cobalt (MW-1R), and
- Lithium (MW-7).

Trend analysis was also conducted to determine if the SSLs are symptomatic of increasing concentrations of these constituents with time. Results of the trend analysis are provided in Appendix 9, and they demonstrate the following about the constituent well pairs with apparent SSLs over GWPS:

- Lithium concentrations at MW-7 and MW-9 are increasing with a statistically significant trend,
- Molybdenum concentrations at MW-7, and MW-9 are decreasing with statistically significant trends, and
- Molybdenum and Cobalt concentrations at MW-1R have increasing trends but they are not statistically significant trends.

7.0 RECOMMENDATIONS

Based on the results of the data evaluations, concentrations of several detection and assessment monitoring constituents have increased relative to the baseline database. Therefore, assessment monitoring must continue in accordance with §257.95. Cobalt and Molybdenum were again detected at SSLs (LCL above GWPS). Therefore, corrective measures were instituted and must continue.

In summary, GER recommends:

1. Continue Assessment and Detection Monitoring for the FAP in accordance with the CCR Rule §257.94 & 95 with the monitoring well system established in accordance with §257.91;
2. Continue implementation of the selected remedy (GER, 2025b & c) in accordance with §257.98; and
3. Continue CA Monitoring in accordance with §257.98.

8.0 SUMMARY

The 14th and 15th semi-annual sampling events for the FAP were initiated by SPS environmental staff for detection and assessment monitoring on July 17, 2025 and March 21, 2026, respectively. Two detection constituent SSIs (pH in MW-1R, and MW-9) were confirmed with the 14th event results, and four detection constituent SSIs (pH in MW-9; and Boron, Sulfate & TDS in MW-7)) were confirmed with the 15th event results as summarized in Table 1.

The 14th and 15th semi-annual sampling event results both confirmed the presence of four assessment monitoring constituent SSLs above GWPS (Molybdenum in MW-1R, MW-7, and MW-9, and Cobalt in MW-1R) as summarized in Table 1. As a result of the SSLs, SPS continues assessment monitoring for the FAP, and has implemented corrective measures to prevent release of constituents of concern above their GWPS from the FAP, remediate the constituents identified by groundwater monitoring to be above their GWPS, and restore groundwater in the affected area to conditions that do not exceed GWPS for those constituents.

The 14th and 15th semi-annual sampling events for the FAP also included CA Monitoring with the addition of MW-4 and NE-3 to the monitoring system. These events suggest five CA Monitoring SSLs (UCL exceeds GWPS). These are: Cobalt in MW-1R; Lithium in MW-7; and Molybdenum in MW-1R, MW-7, and MW-9.

9.0 LIMITATIONS

This report has been prepared for the exclusive use of the client and GREDELL Engineering Resources, Inc. for the specific project discussed in accordance with generally accepted environmental practices common to this locale at this time. No other warranties, expressed or implied, are provided.

Interpretations of data and recommendations made in this report are based on observations of data that were available and referred to in this report unless otherwise noted. The report is applicable only to this specific project and known site conditions as they existed at the time of report preparation.

This report is not a guarantee of subsurface conditions. Variations in subsurface conditions may be present that were not identified during this or previous investigations. The use of this report and interpretations of data or conclusions developed by others are the sole responsibility of those firms or individuals.

10.0 REFERENCES

GER, 2017, *Sikeston Power Station Site Characterization for Compliance with Missouri State Operating Permit #MO-0095575*, dated May 2017.

GER, 2018, *Sikeston Power Station Groundwater Monitoring and Sampling Plan for Compliance with Missouri State Operating Permit #MO-0095575*, dated September 2018.

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GER, 2025b, *Sikeston Power Station Fly Ash Pond Assessment of Corrective Measures,* dated March 2025.

GER, 2025c, *Sikeston Power Station Fly Ash ACM Remedy Selection Report,* dated May 2025.

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FIGURES

FILE PATH: O:\CADDFiles\SIKESTON\GROUNDWATER MAP\FAP\2025-2026\Site-GW-Map-01.dwg



MONITORING WELL ID	GROUNDWATER ELEVATION (FEET)	CASING ELEVATION (FEET)	NORTHING	EASTING
MW-1R	297.74	314.34	382926.45	1078801.61
MW-2	298.91	308.01	383207.42	1079751.30
MW-3	298.42	308.55	384130.00	1079946.62
MW-4	295.36	305.61	380804.62	1077766.95
MW-7	297.20	315.03	381584.50	1078847.00
MW-9	297.60	314.68	382429.94	1078825.60
MW-10	294.03	304.28	381324.39	1076261.22
NE-3	294.15	303.40	380948.04	1076633.18

NOTES:
1. IMAGE PROVIDED BY BING MAPS.
2. MONITORING WELL LOCATIONS, CASING ELEVATIONS & GROUNDWATER ELEVATIONS SURVEYED BY BOWEN ENGINEERING & SURVEYING.
3. GROUNDWATER ELEVATIONS MEASURED BY SIKESTON POWER STATION STAFF ON DATE OF MEASUREMENT.
4. MAP DEVELOPMENT BASED ON CONTOURS GENERATED BY SURFER® SOFTWARE.
5. RANGE OF GROUNDWATER FLOW GRADIENT GENERALLY 0.0003 FT./FT. TO 0.003 FT./FT.

LEGEND
PROPERTY LINE — PL
GROUNDWATER CONTOUR (DASHED WHERE INFERRED) — CI = 0.5 FT
MONITORING WELL — MW-10
PIEZOMETER — P NE-3
HIGH-CAPACITY WELL — W "D"
UP GRADIENT MONITORING LOCATION — UG
DOWN GRADIENT MONITORING LOCATION — DG
GROUNDWATER FLOW

SCALE: 1" = 300'
0 150 300
N

GREDELL ENGINEERING RESOURCES
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MO CORP. ENGINEERING LICENSE NO. E-2001001669-D

SIKESTON POWER STATION
FLY ASH POND
2026 ANNUAL GROUNDWATER MONITORING & REPORT

FIGURE 1
GROUNDWATER CONTOUR MAP
JULY 17, 2025

SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	DATE	SCALE	PROJECT NAME	FILE NAME	SHEET #
N/A	KE	CM	TG	KE	08/2025	1" = 600'	SKSTN/GWMASP/FAP	Site-GW-Map-01	1 OF 2

THE GEOLOGIST WHO REVIEWED AND APPROVED THIS REPORT ASSUMES RESPONSIBILITY ONLY FOR GEOLOGIC INTERPRETATIONS OF DATA APPEARING ON THE PAGE AND DISCLAIMS PURSUANT TO SECTION 256.456 RSMO ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS NOT PREPARED UNDER THE SUPERVISION OF THE GEOLOGIST RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS FIGURE REFERS.

FILE PATH: O:\CADDFiles\SIKESTON\GROUNDWATER MAP\FAP\2025-2026\Site-GW-Map-02.dwg



LEGEND

PROPERTY LINE — PL

GROUNDWATER CONTOUR (DASHED WHERE INFERRED) CI = 0.5 FT

MONITORING WELL — MW-10

PIEZOMETER — NE-3

HIGH-CAPACITY WELL — "D"

UP GRADIENT MONITORING LOCATION — UG

DOWN GRADIENT MONITORING LOCATION — DG

GROUNDWATER FLOW

NOTES:

1. IMAGE PROVIDED BY BING MAPS.
2. MONITORING WELL LOCATIONS, CASING ELEVATIONS & GROUNDWATER ELEVATIONS SURVEYED BY BOWEN ENGINEERING & SURVEYING.
3. GROUNDWATER ELEVATIONS MEASURED BY SIKESTON POWER STATION STAFF ON DATE OF MEASUREMENT.
4. MAP DEVELOPMENT BASED ON CONTOURS GENERATED BY SURFER® SOFTWARE.
5. RANGE IN GROUNDWATER FLOW GRADIENT GENERALLY 0.0003 FT./FT. TO 0.001 FT./FT.

MONITORING WELL ID	GROUNDWATER ELEVATION (FEET)	CASING ELEVATION (FEET)	NORTHING	EASTING
MW-1R	295.84	314.34	382926.45	1078801.61
MW-2	296.37	308.01	383207.42	1079751.30
MW-3	295.85	308.55	384130.00	1079946.62
MW-4	294.20	305.61	380804.62	1077766.95
MW-7	295.23	315.03	381584.50	1078847.00
MW-9	295.66	314.68	382429.94	1078825.60
MW-10	293.45	304.28	381324.39	1076261.22
NE-3	293.43	303.40	380948.04	1076633.18

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SIKESTON POWER STATION
FLY ASH POND
2026 ANNUAL GROUNDWATER MONITORING & REPORT

FIGURE 2
GROUNDWATER CONTOUR MAP
MARCH 21, 2026

SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	DATE	SCALE	PROJECT NAME	FILE NAME	SHEET #
N/A	KE	CM	TG	KE	03/2026	1" = 600'	SKSTN/GWMASP/FAP	Site-GW-Map-02	2 OF 2

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TABLES

Annual Groundwater Monitoring Report for Fly Ash Pond
USEPA 40 CFR 257.90(e)
SBMU - Sikeston Power Station
Scott County, Missouri

Table 2
Groundwater Monitoring Constituents

USEPA 40 CFR 257			
Appendix III - Constituents for Detection Monitoring		**Appendix IV - Constituents for Assessment Monitoring**	
Chemical Constituent	**Method**	**Chemical Constituent**	**Method**
pH (S.U.)	Field	Antimony (µg/L)	SW 6020 A
Boron (µg/L)	SW 6020 A	Arsenic (µg/L)	SW 6020 A
Calcium (mg/L)	SW 6020 A	Barium (µg/L)	SW 6020 A
Chloride (mg/L)	EPA 300.0 REV 2.1	Beryllium (µg/L)	SW 6020 A
Fluoride (mg/L)	EPA 300.0 REV 2.1	Cadmium (µg/L)	SW 6020 A
Sulfate (mg/L)	EPA 300.0 REV 2.1	Chromium (µg/L)	SW 6020 A
Total Dissolved Solids (mg/L)	SM 2540C	Cobalt (µg/L)	SW 6020 A
		Fluoride (mg/L)	EPA 300 REV 2.1
		Lead (µg/L)	SW 6020 A
		Lithium (µg/L)	SW 6010 A
		Mercury (µg/L)	SW 6020 A
		Molybdenum (µg/L)	SW 6020 A
		Selenium (µg/L)	SW 6020 A
		Thallium (µg/L)	SW 6020 A
		Radium 226 and 228 combined (pCi/L)	EPA 903.1 & 904.0

NOTES:
1. S.U. = Standard Unit.
2. µg/L = micrograms per liter.
3. mg/L = milligrams per liter.
4. pCi/L = picocurie per liter.

Annual Groundwater Monitoring Report for Fly Ash Pond
USEPA 40 CFR 257.90(e)
SBMU - Sikeston Power Station
Scott County, Missouri

Table 3
Groundwater Monitoring Well Summary

Monitoring Well ID[1,2]	Northing Location[3,4]	Easting Location[3,4]	Ground Surface Elevation[3,4] (feet)	Top of Riser Elevation[3,4] (feet)	Well Depth[5] (feet)	Base of Well Elevation[6] (feet)	Screen Length[7] (feet)	Top of Screen Elevation (feet)
MW-1R	382926.45	1078801.61	311.41	314.34	38.16	276.10	10	286.4
MW-2	383207.42	1079751.30	305.53	308.01	37.42	270.59	10	280.8
MW-3	381130.00	1079946.62	306.11	308.55	37.21	271.34	10	281.5
NE-3	380948.04	1076633.18	300.10	303.40	32.4	271.00	10	281.1
MW-4	380804.62	1077766.95	303.26	305.61	37.55	268.06	10	278.3
MW-7	381584.50	1078847.00	312.70	315.03	37.37	277.66	10	287.9
MW-9	382429.94	1078825.60	311.85	314.68	37.28	277.40	10	287.6
MW-10	381324.39	1076261.22	300.70	304.28	33.58	270.70	10	280.7

NOTES:

1. Refer to Figure 1 for monitoring well locations.
2. Refer to Sikeston Power Station On-Site Operating Record for well construction diagrams.
3. Monitoring well survey data provided by Bowen Engineering & Surveying, Inc.
4. Horizontal Datum: Missouri State Plane Coordinates - NAD 83 (Feet), Vertical Datum: NAVD 88 (Feet).
5. Depth measurements relative to surveyed point on top of well casing.
6. Sump installed at base of screen (0.2 feet length).
8. MW-4 and NE-3 added to Fly Ash Pond Monitoring System for Corrective Action Monitoring in July 2025.
9. MW-10 added to Fly Ash Pond Monitoring System following installation and completion of Background sampling in December 2023.

Prepared by: GREDELL Engineering Resources, Inc.

Prepared by: CMH
Checked by: KAE
Approved by: KAE

Annual Groundwater Monitoring Report for Fly Ash Pond
USEPA 40 CFR 257.90(e)
SBMU - Sikeston Power Station
Scott County, Missouri

Table 4
Historical Groundwater Level Summary

Well ID	MW-1R	MW-2	MW-3	NE-3	MW-4	MW-7	MW-9	MW-10
04/09/22	297.29	298.06	297.60	NI	NM	296.78	297.18	NI
08/02/22	296.04	297.01	296.55	NI	NM	295.38	295.85	NI
08/03/22	NM	NM	NM	NI	293.79	NM	NM	NI
11/01/22	NM	NM	NM	NI	293.19	NM	NM	NI
11/02/22	294.96	295.79	295.24	NI	NM	294.33	294.78	NI
03/12/23	296.45	297.21	296.75	NI	NM	295.80	296.27	NM
12/11/23	295.44	296.31	295.81	NI	NM	294.86	295.28	292.83
12/13/23	NM	NM	NM	NI	293.08	NM	NM	NM
04/18/23	NM	NM	NM	NI	295.50	NM	NM	NM
04/23/24	296.30	296.71	296.20	NI	NM	295.38	295.83	293.18
05/23/23	NM	NM	NM	NI	295.23	NM	NM	NM
10/11/23	NM	NM	NM	NI	293.91	NM	NM	NM
04/24/24	NM	NM	NM	NI	294.11	NM	NM	NM
09/17/24	NM	NM	NM	NI	**292.91**	NM	NM	NM
09/25/24	**294.69**	**295.61**	**295.10**	NI	NM	**294.13**	**294.53**	**291.93**
10/22/24	NM	NM	NM	NI	293.01	NM	NM	NM
04/15/24	NM	NM	NM	NI	296.36	NM	NM	NM
04/16/25	**298.57**	299.61	299.22	NI	NM	297.95	298.40	**295.18**
05/06/25	297.94	299.09	298.61	NI	NM	297.33	297.78	294.33
06/16/25	NM	NM	NM	**295.27**	NM	NM	NM	NM
07/17/25	297.74	298.91	298.42	294.15	295.36	297.20	297.60	294.03
03/21/26	295.84	296.37	295.85	**293.43**	294.20	295.23	295.66	293.45

NOTES:
1. Refer to Figure 1 for monitoring well locations.
2. Refer to Sikeston Power Station On-Site Operating Record for well construction diagrams.
3. NM - Not Measured.
4. NI - Not Installed.
5. Maximum and minimum groundwater elevations occuring after 2022 are shaded.
6. MW-10 added to Fly Ash Pond Monitoring System following background sampling in December 2023.
7. MW-4 and NE-3 added to Fly Ash Pond Monitoring System for Corrective Action Monitoring in July 2025.

Historical Maximum	298.57	300.40	300.09	295.27	297.66	298.99	299.41	295.18
Date of Maximum	Apr-25	Apr-20	Mar-20	Jun-25	Mar-20	Apr-20	Apr-20	Apr-25
Historical Minimum	294.69	295.61	295.10	293.43	292.91	294.13	294.53	291.93
Date of Minimum	Sep-24	Sep-24	Sep-24	Mar-26	Sep-24	Sep-24	Sep-24	Sep-24
Variability	3.88	4.79	4.99	1.84	4.75	4.86	4.88	3.25

Prepared by: GREDELL Engineering Resources, Inc.

Prepared by: CMH
Checked by: KAE
Approved by: KAE

Annual Groundwater Monitoring Report for Fly Ash Pond
USEPA 40 CFR 257.90(e)
SBMU - Sikeston Power Station
Scott County, Missouri

Table 5
Water Levels and Field Parameter Summary

14th Compliance Sampling Event initiated July 17, 2025

Monitoring Well I.D.	Hydraulic Position	Initial Water Level (ft, BTOC[2])	Final Water Level (ft, BTOC[2])	Minimum[3] Purge Vol. (ml[4])	Actual Purge Vol. (ml[4])	pH (S.U.[5])
MW-1R	Downgradient	16.6	16.6	300	6,440	6.35
MW-2	Upgradient	9.1	9.1	300	3,160	6.02
MW-3	Upgradient	10.13	10.13	300	3,680	6.32
NE-3	Downgradient	9.25	9.25	300	3,660	6.93
MW-4	Downgradient	10.25	10.25	300	3,740	7.10
MW-7	Downgradient	17.83	17.83	300	3,680	7.16
MW-9	Downgradient	17.08	17.08	300	3,100	6.86
MW-10	Downgradient	10.25	10.25	300	4,480	6.93

NOTES:

1. Sequence of sampling is MW-1R, MW-9, MW-7, MW-3, MW-4, MW-10, NE-3.
2. BTOC: Below Top of Casing.
3. Purge calculations based on 1/4" ID tubing and complete evacuation of single tubing volume.
4. ml: milliliter.
5. S.U.: Standard Unit.

15th Compliance Sampling Event initiated March 21, 2026

Monitoring Well I.D.	Hydraulic Position	Initial Water Level (ft, BTOC[2])	Final Water Level (ft, BTOC[2])	Minimum[3] Purge Vol. (ml[4])	Actual Purge Vol. (ml[4])	pH (S.U.[5])
MW-1R	Downgradient	18.50	18.50	300	4,800	6.44
MW-2	Upgradient	11.64	11.64	300	4,380	6.18
MW-3	Upgradient	12.70	12.70	300	4,620	6.30
NE-3	Downgradient	9.97	9.97	300	6,800	6.99
MW-4	Downgradient	11.41	11.41	300	9,400	7.19
MW-7	Downgradient	19.80	19.80	300	5,040	7.17
MW-9	Downgradient	19.02	19.02	300	4,800	6.79
MW-10	Downgradient	10.83	10.83	300	8,800	7.01

NOTES:

1. Sequence of sampling is MW-1R, MW-9, MW-7, MW-3, MW-4, MW-10, NE-3.
2. BTOC: Below Top of Casing.
3. Purge calculations based on 1/4" ID tubing and complete evacuation of single tubing volume.
4. ml: milliliter.
5. S.U.: Standard Unit.

Annual Groundwater Monitoring Report for Fly Ash Pond
USEPA 40 CFR 257.90(e)
SBMU - Sikeston Power Station
Scott County, Missouri

Table 6
Relative Percent Differences Summary

14th Compliance Sampling Event initiated July 17, 2025

Chemical Parameter	Units	MW-1R	DUP	Relative Percent Difference
Total Dissolved Solids	mg/L	380	376	1.1
Sulfate	mg/L	161	151	6.4
Fluoride	mg/L	0.14	0.14	0.0
Chloride	mg/L	10.5	9.83	6.6
Barium	µg/L	19.3	21.9	12.6
Boron	µg/L	2,710	2,730	0.7
Calcium	mg/L	66.0	67.2	1.8
Cobalt	µg/L	10.9	9.7	11.7
Molybdenum	µg/L	202	177.0	13.2

15th Compliance Sampling Event initiated March 21, 2026

Chemical Parameter	Units	MW-2	DUP	Relative Percent Difference
Total Dissolved Solids	mg/L	74	68	8.5
Sulfate	mg/L	10.7	11.1	3.7
Fluoride	mg/L	0.12	0.10	18.2
Chloride	mg/L	3.3	3.9	16.7
Barium	µg/L	128.0	126.0	1.6
Boron	µg/L	28	29	5.6
Calcium	mg/L	14.8	14.5	2.0
Cobalt	µg/L	<2.0	<2.0	NA
Molybdenum	µg/L	<1.0	<1.0	NA

NOTES:
1. S.U. = Standard Unit.
2. µg/L = micrograms per liter.
3. mg/L = milligrams per liter.
4. pCi/L = picoCuries per liter.
5. Relative Percent Difference tolerance = 20%.
6. Not calculated if sample or Dup is below Reporting Limit.

Prepared by: TH
Checked by: KAE
Approved by: KAE

Annual Groundwater Monitoring Report for Fly Ash Pond
USEPA 40 CFR 257.90(e)
SBMU - Sikeston Power Station
Scott County, Missouri

Table 7
Alternate Data Sets

Constituent-Well Pair[1]		Proposed Background Data Base (to eliminate trending data)[2]	Background set size (n)
Well ID	**Constituent**		
MW-3	pH	September 2019 through May 2025	12
MW-9	Ca	June 2018 through May 2025	18

Notes:

1. Constituent-well pairs identified based on Mann-Kendall Sen's Slope Trend Analysis of data set summarized in Appendix 4.

Annual Groundwater Monitoring Report for Fly Ash Pond
USEPA 40 CFR 257.90(e)
SBMU - Sikeston Power Station
Scott County, Missouri

Table 8
Intra-Well Prediction Limit Summaries

Chemical Parameter	Units	MW-1R	MW-2	MW-3	MW-7	MW-9	MW-10
Appendix III Constituents for							
pH Upper	S.U.	6.686	6.445	6.962	7.437	7.609	7.258
pH Lower	S.U.	6.387	6.025	6.26	7.168	7.023	6.673
Chloride	mg/L	20.91	7.584	4	15.08	21.36	24.81
Fluoride	mg/L	0.366	0.336	0.386	0.8404	1.253	0.42
Sulfate	mg/L	282.5	22.25	22.63	295	282.1	224.1
Total Dissolved Solids	mg/L	582.8	252.9	168.2	610.5	639.2	523.7
Boron	µg/L	4,611	69.21	36.05	3,730	6,272	434.6
Calcium	mg/L	119.7	24.89	19.56	146.8	111.3	96.22

NOTES:

1. MW-1R prediction limits based on eight rounds of background data spanning October 2021 to July 2025.
2. MW-10 prediction limits based on eight rounds of background data spanning February 2023 to July 2025.
3. Prediction limits for MW-2, MW-3, MW-7, and MW-9 based on 13 rounds of background data spanning March 2018 to July 2025, except where detrending or outlier removal was necessary (Table 7).
4. Prediction limits summarized from Sanitas outputs provided in Appendix 8.

Annual Groundwater Monitoring Report for Fly Ash Pond
USEPA 40 CFR 257.90(e)
SBMU - Sikeston Power Station
Scott County, Missouri

Table 9
Groundwater Protection Standards for Assessment Monitoring Constituents

Constituent	Units	MCL or Health-Based GWPS
Antimony	ug/L	6
Arsenic	ug/L	10
Barium	ug/L	2000
Beryllium	ug/L	4
Cadmium	ug/L	5
Chromium	ug/L	100
Cobalt	ug/L	6
Fluoride	mg/L	4
Lead	ug/L	15
Lithium	ug/L	40
Mercury	ug/L	2
Molybdenum	ug/L	100
Selenium	ug/L	50
Thallium	ug/L	2
Radium 226/228 (Combined)	pCi/L	5

NOTES:
1. ug/L - micrograms per liter.
2. mg/L - milligrams per liter.
3. pCi/L - picocuries per liter.
4. MCL - Maximum Contaminant Level per CFR 40 Subchapter D Part 141 subpart G Section 141.62 & 141.66, or Part 257 subpart D Section 257.95(h)(2).

APPENDICES

Appendix 1

Field Sampling Notes

Appendix 1

Field Sampling Notes

7.17.2025

Drop-Off Package Receipt: 1 of 1

THIS IS NOT A SHIPPING LABEL. PLEASE SAVE FOR YOUR RECORDS.

DROP-OFF LOCATION:
THE UPS STORE #3054
223 N MAIN ST
SIKESTON MO 63801-4211

DROP-OFF DATE/TIME:
Mon 21 Jul 2025 1:50 PM

ESTIMATED PICKUP DATE:
UPS Mon 21 Jul 2025 6pkgs

CUSTOMER:
Not Provided
ID Type: Not Provided

TOTAL PACKAGES: 6pkgs

TRACKING/REFERENCE	CARRIER & SERVICE	WEIGHT
1Z67302701492177757	UPS Next Day Air Com	60 lb 1.6 oz
1Z67302701490498O4	UPS Next Day Air Com	64 lb 0.8 oz
1Z67302701515439B0	UPS Next Day Air Com	60 lb 2.0 oz
1Z67302701509013Q9	UPS Next Day Air Com	62 lb 14.6 oz
1Z67302701518775Z6	UPS Next Day Air Com	55 lb 8.2 oz
1Z67302701498021G9	UPS Next Day Air Com	37 lb 3.0 oz

7/21/25 FAP

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07/21/2025 01:51 PM Pacific Time
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RDR025

Drop off L ...tion
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 2 Work order # _____

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities		
Address:	107 E Malone Ave		
City / State / Zip	Sikeston, MO 63801		
Contact:	Luke St. Mary	**Phone:**	(573) 475-3119
E-Mail:	lstmary@sbmu.net	**Fax:**	

Samples on: ■ ICE ■ BLUE ICE ■ NO ICE ____ °C LTG# _____
Preserved in: ☐ LAB ■ FIELD **FOR LAB USE ONLY**
Lab Notes:

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Client Comments Report QC LVL: 2

Total Metals = Ba Be B Cd Ca Cr (ICP), Sb As Co Pb Li Mo Se Tl (ICP/MS) and Hg

Project Name/Number
Fly Ash Pond (FAP)

Sample Collector's Name
Alicia Powell

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	MATRIX: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: Cl SO4 F-	Field pH	Ra226/228 (SUB)	TDS	Total Metals
	MW-1R	7/17/25 0710	1	3		X		X	X	X	X	X
	MW-2	7/17/25 1328	1	3		X		X	X	X	X	X
	MW-3	7/17/25 0932	1	3		X		X	X	X	X	X
	MW-4	7/17/25 1014	1	3		X		X	X	X	X	X
	NE-3	7/17/25 1213	1	3		X		X	X	X	X	X
	MW-7	7/17/25 0844	1	3		X		X	X	X	X	X
	MW-9	7/17/25 0806	1	3		X		X	X	X	X	X
	MW-10	7/17/25 1100	1	3			X	X	X	X	X	X
	Duplicate	7/17/25	1	3	X			X		X	X	X
	Trip Blank		1	3		X		X		X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	7/21/25 1300		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 101254

Drop off L .on
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY pg. 2 of 2 Work order # _____

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	107 E Malone Ave
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	(573) 475-3119
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☐ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____
Preserved in: ☒ LAB ☒ FIELD **FOR LAB USE ONLY**
Lab Notes:

Client Comments Report QC LVL: 2

Total Metals = Ba Be B Cd Ca Cr (ICP), Sb As Co Pb Li Mo Se Tl (ICP/MS) and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: Fly Ash Pond (FAP)

Sample Collector's Name: Alicia Powell

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	MATRIX: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: Cl SO4 F-	Field pH	Ra226/228 (SUB)	TDS	Total Metals
	Field Blank	7/17/25 1213	1	3		X		X		X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	7/21/25 1300		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 101254

Field Instrumentation Calibration Log

Facility: Ameren RIEC Ash Ponds - Groundwater Monitoring

Calibrated by: Justin Lowes/Alicia Powell

Field Instruments: In-Situ SmarTROLL MP or In-Situ AquaTROLL 400 | HF scientific, inc. Micro TPI Field Portable Turbidimeter

S/N #: 893508 | 2023020683

	Date	Time	pH Standards (S.U.)		pH Measurements (S.U./mV)	Specific Conductance Standard (µS/cm)		Specific Conductance Measurement (µS/cm)	Oxidation Reduction Potential Standard (mV)		Oxidation Reduction Potential Measurement (mV)	Dissolved Oxygen (%)		Turbidity Standards (NTU)		Turbidity Measurements (NTU)
Beginning of Day Calibration	7/17/25	0610	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	3.99 156.3	1413 @25.00°C	=	1410.8 @ 21.11	220 mV at 25.00°C	=	226.2 @ 21.21	Temperature (°C)	= 25.87	0.02	=	0.02
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.01 -19.3	1413 @ 25			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU	10.0	=	10.05
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.04 -191.7							Barometric Pressure (mm/Hg)	= 752.63	1000	=	1009
												Measurement	= 100.02			
End of Day Check	7/17/25	1405	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	4.05 NA	1413 @25.00°C	=	1410.9 @ 21.66	220 mV at 25.00°C	=	280.1 @ 22.41	Temperature (°C)	= 35.88	0.02	=	0.04
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.04 NA	1413 @ 25			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU	10.0	=	10.34
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.09 NA							Barometric Pressure (mm/Hg)	= 752.49	1000	=	1031
												Measurement	= 99.62			

Notes: The In-Situ SmarTROLL MP Field Meter and In-Situ AquaTROLL 400 measure Temperature, Specific Conductance, Dissolved Oxygen, pH, and Oxidation Reduction Potential.
The HF scientific, inc. Micro TPI Field Portable Turbidimeter measures Turbidity.
Dissolved oxygen is calibrated via % saturation method, however, field measurements are recorded as mg/L.

I certify that the aforementioned meters were calibrated within the manufacturers specifications.

Date: 7/17/25 By: Justin Lowes/Alicia Powell

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: _____
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 7/17/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification: Alicia Powell (Signed) Lab Tech. (Title) 7/17/25 (Date)

Field Sampling Log

Monitoring Well ID: MW1R Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 16.6 Date: 7/17/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 7/17/25

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 0644 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 16.6 Total Volume Purged (mL): 6440

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 38.27 Water Level after Sampling (feet btoc): 16.6 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 0745

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
0644	240	480	22.20	670.36	4.58	6.28	646.6	33.8	16.6	white Flakes
0646	240	960	19.57	563.47	1.03	6.43	933.8	30.63	16.6	white Flakes
0648	250	1460	18.21	570.72	0.82	6.42	972.1	43.46	16.6	white Flakes
0650	240	1940	17.99	571.84	0.79	6.41	980.0	28.76	16.6	white Flakes
0652	250	2440	17.86	572.49	0.61	6.38	990.6	17.24	16.6	white Flakes
0654	260	2960	17.78	580.47	0.64	6.38	994.4	17.44	16.6	white Flakes
0656	240	3440	17.73	575.39	0.61	6.39	1005.2	8.6	16.6	white Flakes
0658	250	3940	17.76	562.41	0.64	6.37	1007.4	11.75	16.6	clear
0700	250	4440	17.72	575.14	0.69	6.38	1009.2	15.13	16.6	white Flakes
0702	250	4940	17.75	562.79	0.57	6.38	1009.8	13.46	16.6	white Flakes
0704	250	5440	17.74	566.69	0.56	6.37	1013.2	7.09	16.6	clear
0706	250	5940	17.73	563.50	0.61	6.36	1016.6	6.12	16.6	clear
0708	250	6440	17.72	567.85	0.54	6.35	1017.0	6.34	16.6	clear

btoc - below top of casing

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW1R

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 16.6

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
7/17/25 0710	250	17.72	567.85	0.54	6.35	1017.0	6.34

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny, some clouds

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations: Took Dup. 1

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 7/17/25 By: Alicia Powell Title: Lab Tech.

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW9
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 7/17/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼" ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification: Alicia Powell (Signed) Lab Tech (Title) 7/17/25 (Date)

Field Sampling Log

Monitoring Well ID: MW9 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 17.08 Date: 7/17/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 7/17/25

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 0754 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 17.08 Total Volume Purged (mL): 3100

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 37.34 Water Level after Sampling (feet btoc): 17.08 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 0823

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
0754	250	500	25.69	836.39	4.08	6.95	757.8	14.0	17.08	clear
0756	250	1000	20.54	820.51	1.18	6.94	943.2	6.78	17.08	clear
0758	260	1526	19.20	850.54	0.92	6.92	955.9	5.57	17.08	clear
0800	250	2020	18.73	860.46	0.80	6.90	955.8	5.18	17.08	clear
0802	280	2586	18.62	850.82	0.59	6.86	954.4	4.85	17.08	clear
0804	260	3100	18.62	850.18	0.49	6.86	951.4	4.65	17.08	clear

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Prepared by: GREDELL Engineering Resources, Inc.

January 2017

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW9

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 17.08

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
7/17/25 0806	260	18.62	850.18	0.49	6.86	951.4	4.65

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: sunny, some clouds

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 7/17/25 By: Alicia Powell Title: Lab Tech

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW7
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 7/17/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼" ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification: Alicia Powell (Signed) Lab Tech (Title) 7/17/25 (Date)

Field Sampling Log

Monitoring Well ID: MW7 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 17.83 Date: 7/17/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 7/17/25

Name (Sample Collector): Justin ~~[illegible]~~ AP Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 0830 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 17.83 Total Volume Purged (mL): 3680

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 37.5 Water Level after Sampling (feet btoc): 17.83 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 0902

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
0830	270	540	24.76	1023.5	1.96	7.17	804.6	6.61	17.83	black specks
0832	250	1040	20.73	1124.8	0.58	7.25	846.1	6.37	17.83	black specks
0834	260	1560	18.88	1191.1	0.40	7.28	777.3	5.78	17.83	clear
0836	260	2080	18.48	1188.3	0.35	7.24	744.3	6.21	17.83	clear
0838	270	2620	18.35	1186.6	0.33	7.21	701.5	6.57	17.83	clear
0840	260	3140	18.27	1190.7	0.33	7.18	669.8	6.72	17.83	clear
0842	270	3680	18.35	1165.8	0.33	7.16	636.5	6.32	17.83	clear

btoc - below top of casing

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW7

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 17.83

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
7/17/25 0844	270	18.35	1165.8	0.33	7.16	636.5	6.32

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny some clouds

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 7/17/25 By: Alicia Powell Title: Lab Tech.

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW3
Name (Field Staff): Justin Lowes/Alicia Powell
Date: 7/17/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼" ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification: Alicia Powell (Signed) Lab Tech (Title) 7/17/25 (Date)

Field Sampling Log

Monitoring Well ID: MW3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 10.13 Date: 7/17/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 7/17/25

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 0920 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 10.13 Total Volume Purged (mL): 3680

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 37.2 Water Level after Sampling (feet btoc): 10.13 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 0948

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
0920	320	660	21.39	153.07	2.63	6.79	831.5	9.61	10.13	clear
0922	310	1280	20.31	160.83	1.33	6.34	978.2	5.98	10.13	clear
0924	300	1880	18.84	164.25	1.26	6.28	988.2	5.35	10.13	clear
0926	290	2460	18.36	165.44	1.18	6.27	995.0	4.71	10.13	clear
0928	320	3100	18.25	164.53	1.07	6.29	996.0	5.05	10.13	clear
0930	290	3680	18.24	164.46	0.95	6.32	996.9	4.58	10.13	clear

btoc - below top of casing

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 10.13

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
7/17/25 0932	290	18.24	164.46	0.95	6.32	996.9	4.58

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny, some clouds

Sample Characteristics: Clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 7/17/25 By: Alicia Powell Title: Lab Tech

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW4
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 7/17/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech (Title) 7/17/25 (Date)

Field Sampling Log

Monitoring Well ID: MW4 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 10.25 Date: 7/17/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 7/17/25

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1000 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 10.25 Total Volume Purged (mL): 3740

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 37.5 Water Level after Sampling (feet btoc): 10.25 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1032

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1000	280	560	26.03	726.63	1.45	7.18	488.7	5.05	10.25	clear
1002	260	1080	21.30	771.67	0.91	7.12	490.7	6.92	10.25	clear
1004	260	1600	19.69	784.51	0.84	7.10	483.5	5.16	10.25	clear
1006	290	2180	19.38	800.22	0.72	7.10	482.4	5.07	10.25	clear
1008	260	2700	19.20	793.02	0.62	7.11	486.5	4.81	10.25	clear
1010	260	3220	19.06	787.40	0.56	7.12	497.9	5.31	10.25	clear
1012	260	3740	19.04	803.48	0.51	7.10	518.4	5.61	10.25	clear

btoc - below top of casing

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW4

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 10.25

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
7/17/25 1014	260	19.04	803.48	0.51	7.10	518.4	5.61

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: sunny, some clouds

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 7/17/25 By: Alicia Powell Title: Lab Tech.

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW10
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 7/17/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech. (Title) 7/17/25 (Date)

Field Sampling Log

Monitoring Well ID: MW10 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 10.25 Date: 7/17/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 7/17/25

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1044 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 10.25 Total Volume Purged (mL): 4480

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 33.2 Water Level after Sampling (feet btoc): 10.25 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1117

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1044	300	600	29.44	611.50	2.12	7.16	399.7	5.12	10.25	clear
1046	270	1140	21.97	672.21	0.43	6.96	560.0	4.94	10.25	clear
1048	280	1700	21.03	673.82	0.38	6.94	626.4	5.02	10.25	clear
1050	300	2300	20.49	694.16	0.43	6.93	711.8	4.79	10.25	clear
1052	270	2840	20.35	686.31	0.42	6.93	804.4	5.53	10.25	clear
1054	270	3380	20.32	683.33	0.40	6.93	898.5	4.70	10.25	clear
1056	280	3940	20.31	680.73	0.37	6.94	914.5	4.64	10.25	clear
1058	270	4480	20.17	684.46	0.34	6.93	941.6	4.96	10.25	clear

btoc - below top of casing

Prepared by: GREDELL Engineering Resources, Inc.

January 2017

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW10

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 10.25

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
7/17/25 1100	270	20.17	684.46	0.34	6.93	941.6	4.96

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny, some clouds

Sample Characteristics: clear, colorless, odorless.

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 7/17/25 By: Alicia Powell Title: Lab Tech.

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: NE3
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 7/17/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech (Title) 7/17/25 (Date)

Field Sampling Log

Monitoring Well ID: NE3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 9.25 Date: 7/17/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 7/17/25

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1159 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 9.25 Total Volume Purged (mL): AP 9.25 - 3660

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 32.4 Water Level after Sampling (feet btoc): 9.25 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1230

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1159	260	520	30.45	588.18	2.80	7.01	379.3	11.61	9.25	clear
1201	~~300~~ 250 RF	1020	23.36	588.71	0.45	6.93	611.2	10.27	9.25	clear
1203	270	1560	21.43	597.55	0.41	6.91	799.6	12.53	9.25	clear
1205	250	2060	21.03	600.89	0.39	6.91	803.1	7.99	9.25	clear
1207	270	2600	20.86	600.84	0.34	6.92	811.4	6.78	9.25	clear
1209	270	3140	20.66	601.74	0.33	6.92	817.9	7.90	9.25	clear
1211	260	3660	20.59	601.74	0.33	6.93	829.2	7.88	9.25	clear

btoc - below top of casing

Prepared by: GREDELL Engineering Resources, Inc.

January 2017

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: NE3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 9.25

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
7/17/25 1213	260	20.59	601.74	0.33	6.93	829.2	7.88

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny, some clouds

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations: Field Blank

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 7/17/25 By: Alicia Powell Title: Lab Tech.

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW2
Name (Field Staff): Justin Lowes/Alicia Powell
Date: 7/17/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech (Title) 7/17/25 (Date)

Field Sampling Log

Monitoring Well ID: MW2 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 9.1 Date: 7/17/25

Initial Groundwater Elevation (NAVD88): Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 7/17/25

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1316 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 9.1 Total Volume Purged (mL): 3160

Beginning Groundwater Elevation (NAVD88): Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 37.4 Water Level after Sampling (feet btoc): 9.1 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1345

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1316	270	540	32.19	173.95	2.01	6.62	640.4	7.27	9.1	clear
1318	260	1060	22.81	176.24	0.67	6.08	858.8	6.54	9.1	clear
1320	250	1560	26.53	177.64	0.64	6.03	868.1	6.13	9.1	clear
1322	270	2100	20.00	182.53	0.66	6.01	870.9	5.22	9.1	clear
1324	270	2640	19.86	183.72	0.70	6.01	873.9	6.18	9.1	clear
1326	260	3160	19.79	182.11	0.63	6.02	874.3	5.31	9.1	clear

btoc - below top of casing

Prepared by: GREDELL Engineering Resources, Inc.

January 2017

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW2

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 9.1

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
7/17/25 1328	260	19.79	182.11	0.63	6.02	874.3	5.31

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny, some clouds

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 7/17/25 By: Alicia Powell Title: Lab Tech.

Appendix 1

Field Sampling Notes

6.16.2025

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # _____

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____
Preserved in: ☒ LAB ☒ FIELD
FOR LAB USE ONLY
Lab Notes

Client Comments: Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☐ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☐ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☐ No

Project Name/Number: NE-3

Sample Collector's Name: Justin Lowes

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
	NE-3	6/14/25 0848	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	6/16/25 1300		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Field Instrumentation Calibration Log

Facility: Ameren RIEC Ash Ponds - Groundwater Monitoring

Calibrated by: JL/AP

Field Instruments: In-Situ SmarTROLL MP or In-Situ AquaTROLL 400 | HF scientific, inc. Micro TPI Field Portable Turbidimeter

S/N #: 893508 | 202302 0683

	Date	Time	pH Standards (S.U.)		pH Measurements (S.U./mV)	Specific Conductance Standard (µS/cm)		Specific Conductance Measurement (µS/cm)	Oxidation Reduction Potential Standard (mV)		Oxidation Reduction Potential Measurement (mV)	Dissolved Oxygen (%)			Turbidity Standards (NTU)		Turbidity Measurements (NTU)
Beginning of Day Calibration	6/16/25	0745	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	4.02	1413 @25.00°C	=	1413.5 @ 21.43	220 mV at 25.00°C	=	225.1 21.40°C	Temperature (°C)	=	21.2	0.02	=	0.02
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.03 21.39	1413 @ 25°C			Standard is 229 mV @ 25 °C			Tap Water Source	=	SBMU	10.0	=	10.0
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.05 21.33							Barometric Pressure (mm/Hg)	=	752.21	1000	=	994.1
												Measurement	=	100.22			
End of Day Check	6/16/25	0924	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	4.07 NA	1413 @25.00°C	=	1412.9 @ 21.66	220 mV at 25.00°C	=	232.5 @ 21.78	Temperature (°C)	=	29.09	0.02	=	0.03
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.08 NA	1413 @ 25°C			Standard is 229 mV @ 25 °C			Tap Water Source	=	SBMU	10.0	=	10.10
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.10 NA							Barometric Pressure (mm/Hg)	=	752.02	1000	=	1004
												Measurement	=	100.0			

Notes: The In-Situ SmarTROLL MP Field Meter and In-Situ AquaTROLL 400 measure Temperature, Specific Conductance, Dissolved Oxygen, pH, and Oxidation Reduction Potential.
The HF scientific, inc. Micro TPI Field Portable Turbidimeter measures Turbidity.
Dissolved oxygen is calibrated via % saturation method; however, field measurements are recorded as mg/L.

I certify that the aforementioned meters were calibrated within the manufacturers specifications.

Date: 6/16/25 By: JL/AP

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: NE 3
Name (Field Staff): JL / AP
Date: 6/16/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech (Title) 6/16/25 (Date)

Field Sampling Log

Monitoring Well ID: NE3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 8.13 Date: 6/16/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 6/16/25

Name (Sample Collector): Justin Lowes

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 0824 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 8.13 Total Volume Purged (mL): 6020

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 33.42 Water Level after Sampling (feet btoc): 8.13 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 0905

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
0824	220	440	22.85	612.92	4.29	5.70	373.7	56.64	8.13	red flakes
0826	250	940	19.38	676.03	0.52	6.29	395.8	46.37	8.13	red flakes
0828	230	1400	18.64	684.63	0.45	6.41	410.2	53.04	8.13	red flakes
0830	250	1900	18.32	686.74	0.39	6.55	385.3	29.27	8.13	red flakes
0832	250	2400	18.23	684.54	0.35	6.64	411.1	18.76	8.13	red flakes
0834	250	2900	18.18	681.42	0.32	6.70	439.3	22.11	8.13	white flakes
0836	260	3420	18.17	682.49	0.30	6.76	446.1	12.81	8.13	white flakes
0838	250	3920	18.12	678.07	0.29	6.81	399.6	12.31	8.13	white flakes
0840	270	4460	18.11	672.11	0.28	6.85	362.9	9.04	8.13	white flakes
0842	270	5000	18.12	664.71	0.28	6.87	346.4	7.88	8.13	white flakes
0844	250	5500	18.13	685.49	0.27	6.90	336.6	7.63	8.13	clear
0846	260	6020	18.13	681.06	0.25	6.91	331.4	7.78	8.13	clear

btoc - below top of casing

Prepared by: GREDELL Engineering Resources, Inc.

January 2017

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: NE 3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 8.13

Monitoring Event: Annual ( ) Semi-Annual ( ) Quarterly ( ) Monthly ( ) Other (✓)

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
6/16/25 0848	260	18.13	681.06	0.25	6.91	331.40	7.78

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: cloudy

Sample Characteristics: Clear

Sample Collection Order: Per SAP

Comments and Observations:

Colorless / odorless

Background screen #1

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 6/16/25 By: Alicia Powell Title: Lab Tech.

Appendix 1

Field Sampling Notes

7.16.2025

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # _____

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities		
Address:	Sikeston Power Station		
City / State / Zip	Sikeston, MO 63801		
Contact:	Luke St. Mary	**Phone:**	
E-Mail:	lstmary@sbmu.net	**Fax:**	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes Tracking 1Z6730270151024344 7/17/25

Client Comments: Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number	**Sample Collector's Name**
NE-3	Justin Lowes

Results Requested (call for PFAS TAT and surcharges)
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
	NE-3	7/16/25 0847	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	7/17/25 1300		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Field Instrumentation Calibration Log

Facility: Ameren RIEC Ash Ponds - Groundwater Monitoring

Calibrated by: Justin Lowes/Alicia Powell

Field Instruments: In-Situ SmarTROLL MP or In-Situ AquaTROLL 400 — S/N #: 893508

HF scientific, inc. Micro TPI Field Portable Turbidimeter — S/N #: 2023020683

	Date	Time	pH Standards (S.U.)		pH Measurements (S.U./mV)	Specific Conductance Standard (µS/cm)		Specific Conductance Measurement (µS/cm)	Oxidation Reduction Potential Standard (mV)		Oxidation Reduction Potential Measurement (mV)	Dissolved Oxygen (%)		Turbidity Standards (NTU)		Turbidity Measurements (NTU)
Beginning of Day Calibration	7/16/25	0750	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	3.99	1413 @25.00°C	=	1430.7 @ 21.4	220 mV at 25.00°C	=	228.4 @ 21.65	Temperature (°C)	= 29.88	0.02	=	0.02
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.02 / -21.5	1413 @ 25			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU	10.0	=	10.03
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.05 / -196.6							Barometric Pressure (mm/Hg)	= 752.60	1000	=	998.3
												Measurement	= 99.89			
End of Day Check	7/16/25	0915	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	4.02 NA	1413 @25.00°C	=	1458.4 @ 21.59	220 mV at 25.00°C	=	230 @ 21.78	Temperature (°C)	= 34.08	0.02	=	0.01
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.05 NA	1413 @ 25			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU	10.0	=	9.84
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.08 NA							Barometric Pressure (mm/Hg)	= 752.84	1000	=	999.3
												Measurement	= 99.99			

Notes: The In-Situ SmarTROLL MP Field Meter and In-Situ AquaTROLL 400 measure Temperature, Specific Conductance, Dissolved Oxygen, pH, and Oxidation Reduction Potential.
The HF scientific, inc. Micro TPI Field Portable Turbidimeter measures Turbidity.
Dissolved oxygen is calibrated via % saturation method, however, field measurements are recorded as mg/L.

I certify that the aforementioned meters were calibrated within the manufacturers specifications.

Date: 7/16/25 By: Justin Lowes/Alicia Powell

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: NE3
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 7/16/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification: Alicia Powell (Signed) Lab Tech (Title) 7/16/25 (Date)

Field Sampling Log

Monitoring Well ID: NE3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 9.4 Date: 7/16/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 7/16/25

Name (Sample Collector): Justin Lowes

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 0817 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 9.4 Total Volume Purged (mL): 7840

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 32.43 Water Level after Sampling (feet btoc): 9.4 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 0902

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
0817	240	480	25.3	628.95	3.73	6.80	841.7	17.08	9.4	clear
0819	240	960	21.62	634.61	0.59	7.04	981.6	15.65	9.4	white flakes
0821	250	1460	20.44	640.24	0.46	7.05	992.7	12.56	9.4	clear
0823	250	1960	20.05	641.90	0.40	7.05	998.8	6.85	9.4	clear
0825	270	2500	19.81	641.93	0.35	7.04	1005.8	13.95	9.4	clear
0827	260	3020	19.86	641.02	0.32	7.03	1011.8	6.88	9.4	clear
0829	250	3520	19.73	635.39	0.29	7.03	1016.1	13.33	9.4	clear
0831	260	4040	19.77	635.74	0.28	7.02	1017.5	17.19	9.4	white flakes
0833	270	4580	19.73	638.25	0.27	7.02	1018.0	9.84	9.4	white flakes
0835	280	5140	19.62	635.87	0.26	7.01	1035.0	7.85	9.4	white flakes
0837	270	5680	19.66	635.55	0.25	7.00	1030.7	8.78	9.4	clear
0839	260	6200	19.64	635.05	0.24	7.00	1048.4	6.96	9.4	clear
0841	270	6740	19.64	635.69	0.23	6.99	1045.6	5.86	9.4	clear
0843	270	7280	19.66	634.62	0.23	6.99	1047.8	5.90	9.4	clear
0845	280	7840	19.69	632.05	0.23	6.98	1051.8	6.29	9.4	clear

btoc - below top of casing

Prepared by: GREDELL Engineering Resources, Inc.

January 2017

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: NE3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 9.4

Monitoring Event: Annual ( ) Semi-Annual ( ) Quarterly ( ) Monthly ( ) Other (✓)

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
7/16/25 0847	280	19.69	632.05	0.23	6.98	1051.8	6.29

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 7/16/25 By: Alicia Powell Title: Lab Tech.

Appendix 1

Field Sampling Notes

7.29.2025

Drop off Location:
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # _____

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____
Preserved in: ☒ LAB ☒ FIELD
FOR LAB USE ONLY
Lab Notes

Client Comments: Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Tracking - 1Z 673 027 01 5471 1597

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: NE-3

Sample Collector's Name: Justin Lowes

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
	NE-3	7/29/25 0817	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	7/30/25 1000		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Field Instrumentation Calibration Log

Facility: Ameren RIEC Ash Ponds - Groundwater Monitoring

Calibrated by: Justin Lowes, Alicia Powell

Field Instruments: In-Situ SmarTROLL MP or In-Situ AquaTROLL 400 — S/N #: 893508

HF scientific, inc. Micro TPI Field Portable Turbidimeter — S/N #: 2023020683

	Date	Time	pH Standards (S.U.)	pH Measurements (S.U./mV)	Specific Conductance Standard (µS/cm)	Specific Conductance Measurement (µS/cm)	Oxidation Reduction Potential Standard (mV)	Oxidation Reduction Potential Measurement (mV)	Dissolved Oxygen (%)	Turbidity Standards (NTU)	Turbidity Measurements (NTU)
Beginning of Day Calibration	7/29/25	0715	4.00 @ 25.00°C Standard is 4 @ 25 °C	3.998	1413 @25.00°C	1414 @ 21.49	220 mV at 25.00°C	213 @ 21.56	Temperature (°C) = 26.19	0.02	0.02
			7.00 @25.00°C Standard is 7 @ 25 °C	7.009 / -15.2	1413 @ 25		Standard is 229 mV @ 25 °C		Tap Water Source = SBMU	10.0	10.16
			10.00 @25.00°C Standard is 10 @ 25 °C	10.05 / -190.5					Barometric Pressure (mm/Hg) = 755.7	1000	1001
									Measurement = 99.99		
End of Day Check	7/29/25	0845	4.00 @ 25.00°C Standard is 4 @ 25 °C	4.045 / NA	1413 @25.00°C	1412 @ 21.68	220 mV at 25.00°C	220.5 @ 21.82	Temperature (°C) = 29.46	0.02	0.01
			7.00 @25.00°C Standard is 7 @ 25 °C	7.018 / NA	1413 @ 25		Standard is 229 mV @ 25 °C		Tap Water Source = SBMU	10.0	10.08
			10.00 @25.00°C Standard is 10 @ 25 °C	10.09 / NA					Barometric Pressure (mm/Hg) = 756.5	1000	1003
									Measurement = 99.77		

Notes: The In-Situ SmarTROLL MP Field Meter and In-Situ AquaTROLL 400 measure Temperature, Specific Conductance, Dissolved Oxygen, pH, and Oxidation Reduction Potential.
The HF scientific, inc. Micro TPI Field Portable Turbidimeter measures Turbidity.
Dissolved oxygen is calibrated via % saturation method; however, field measurements are recorded as mg/L.

I certify that the aforementioned meters were calibrated within the manufacturers specifications.

Date: 7/29/25 By: Alicia Powell

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: NE3
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 7/29/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification: Alicia Powell (Signed) Lab Tech (Title) 7/29/25 (Date)

Field Sampling Log

Monitoring Well ID: NE3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 9.88 Date: 7/29/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 7/29/25

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 0759 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 9.88 Total Volume Purged (mL): 4440

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 32.43 Water Level after Sampling (feet btoc): 9.88 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 0834

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
0759	210	420	23.79	612.7	5.015	7.018	159.9	6.83	9.88	clear
0801	210	840	21.88	581.4	0.792	7.10	174.9	6.47	9.88	clear
0803	220	1280	20.40	591.4	0.477	7.083	181.7	5.77	9.88	clear
0805	250	1780	20.09	595.4	0.482	7.071	185.7	5.96	9.88	clear
0807	270	2320	19.92	592.7	0.395	7.061	188.1	6.61	9.88	clear
0809	260	2840	19.70	591.1	0.363	7.047	189.6	5.06	9.88	clear
0811	270	3380	19.63	589.1	0.312	7.037	190.3	5.84	9.88	clear
0813	240	3860	19.59	592.8	0.298	7.029	190.9	5.44	9.88	clear
0815	290	4440	19.62	596.8	0.288	7.026	191.3	5.53	9.88	clear

btoc - below top of casing

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: NE3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 9.88

Monitoring Event: Annual ( ) Semi-Annual ( ) Quarterly ( ) Monthly ( ) Other (✓)

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
7/29/25 0814	290	19.62	590.8	0.288	7.026	191.3	5.53

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: clear, sunny

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 7/29/25 By: Alicia Powell Title: Lab Tech.

Appendix 1

Field Sampling Notes

8.14.2025

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # _____

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes
Tracking 1Z 673 027 01 5071 3084

Client Comments: Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: NE-3

Sample Collector's Name: Anthony Deuster

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
	NE-3	8/14/25 0829	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	8/14/25 1330		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Field Instrumentation Calibration Log

Facility: Ameren RIEC Ash Ponds - Groundwater Monitoring

Calibrated by: AD/AP

Field Instruments: In-Situ SmarTROLL MP or In-Situ AquaTROLL 400 | HF scientific, inc. Micro TPI Field Portable Turbidimeter

S/N #: 893508 | 2023020683

	Date	Time	pH Standards (S.U.)		pH Measurements (S.U./mV)	Specific Conductance Standard (µS/cm)		Specific Conductance Measurement (µS/cm)	Oxidation Reduction Potential Standard (mV)		Oxidation Reduction Potential Measurement (mV)	Dissolved Oxygen (%)		Turbidity Standards (NTU)		Turbidity Measurements (NTU)
Beginning of Day Calibration	8/14/25	0725	4.00 @ 25.00°C	=	3.99	1413 @25.00°C	=	1412 @ 21.64	220 mV at 25.00°C	=	228.9 @ 21.54	Temperature (°C)	= 21.06	0.02	=	0.01
			Standard is 4 @ 25 °C	=	159.6							Tap Water Source	= SBMU	10.0	=	10.30
			7.00 @25.00°C	=	7.01	1413 @ 25			Standard is 229 mV @ 25 °C			Barometric Pressure (mm/Hg)	= 753.0	1000	=	986.9
			Standard is 7 @ 25 °C	=	-14.7							Measurement	= 99.96			
			10.00 @25.00°C		10.04											
			Standard is 10 @ 25 °C	=	-190.2											
End of Day Check	8/14/25	0920	4.00 @ 25.00°C		3.97	1413 @25.00°C	=	1386 @ 21.96	220 mV at 25.00°C	=	219.5 @ 22.22	Temperature (°C)	= 25.20	0.02	=	0.02
			Standard is 4 @ 25 °C	=	NA							Tap Water Source	= SBMU	10.0	=	9.98
			7.00 @25.00°C	=	6.97	1413 @ 25			Standard is 229 mV @ 25 °C			Barometric Pressure (mm/Hg)	= 753.5	1000	=	998.6
			Standard is 7 @ 25 °C	=	NA							Measurement	= 100.0			
			10.00 @25.00°C	=	10.07											
			Standard is 10 @ 25 °C	=	NA											

Notes: The In-Situ SmarTROLL MP Field Meter and In-Situ AquaTROLL 400 measure Temperature, Specific Conductance, Dissolved Oxygen, pH, and Oxidation Reduction Potential.
The HF scientific, inc. Micro TPI Field Portable Turbidimeter measures Turbidity.
Dissolved oxygen is calibrated via % saturation method; however, field measurements are recorded as mg/L.

I certify that the aforementioned meters were calibrated within the manufacturers specifications.

Date: 8/14/25 By: Alicia Powell

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: NE3
Name (Field Staff): AD/AP
Date: 8/14/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼" ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification: Alicia Powell (Signed) Lab Tech (Title) 8/14/25 (Date)

Field Sampling Log

Monitoring Well ID: NE3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 10.2 Date: 8/14/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 8/14/25

Name (Sample Collector): Anthony Deuster

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 0829 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 10.2 Total Volume Purged (mL): 4740

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 32.45 Water Level after Sampling (feet btoc): 10.2 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 0853

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
0809	200	400	24.24	607.7	26.18	6.825	283.6	8.11	10.2	clear
0811	220	840	21.47	575.5	0.814	7.071	636.4	6.37	10.2	clear
0813	240	1320	20.45	582.3	0.788	7.082	684.0	7.65	10.2	clear
0815	230	1780	20.15	587.2	0.753	7.085	699.5	5.83	10.2	clear
0817	230	2240	19.95	580.9	0.391	7.077	713.0	6.39	10.2	clear
0819	260	2760	19.91	586.1	0.342	7.070	720.5	8.22	10.2	clear
0821	250	3260	19.82	587.4	0.289	7.064	732.0	11.66	10.2	clear
0823	250	3760	19.79	591.2	0.363	7.055	741.9	8.98	10.2	clear
0825	260	4280	19.80	591.7	0.298	7.049	744.0	8.14	10.2	clear
0827	230	4740	19.81	592.8	0.284	7.041	769.6	8.30	10.2	clear

btoc - below top of casing

Prepared by: GREDELL Engineering Resources, Inc.

January 2017

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: NE3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 10.2

Monitoring Event: Annual ( ) Semi-Annual ( ) Quarterly ( ) Monthly ( ) Other (✓)

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
8/14/25 0829	230	19.81	592.8	0.284	7.041	769.6	8.30

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny

Sample Characteristics: clear, odorless, colorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 8/14/25 By: Alicia Powell Title: Lab Tech

Appendix 1

Field Sampling Notes

9.8.2025

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # _____

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes
Tracking 1Z673027015274440 3

Client Comments:

Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number
NE-3

Sample Collector's Name
Justin Lowes

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

 # and Type of Containers

MATRIX

INDICATE ANALYSIS REQUESTED

Lab Use Only	Sample Identification	Date/Time Sampled	UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS									
	NE-3	9/8/25 1047	1	3																											

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	9/8/25 1315		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Field Instrumentation Calibration Log

Facility: Ameren RIEC Ash Ponds - Groundwater Monitoring

Calibrated by: JL/AP

Field Instruments: In-Situ SmarTROLL MP or In-Situ AquaTROLL 400 | HF scientific, inc. Micro TPI Field Portable Turbidimeter

S/N #: 893508 | 2023020683

	Date	Time	pH Standards (S.U.)		pH Measurements (S.U./mV)	Specific Conductance Standard (µS/cm)		Specific Conductance Measurement (µS/cm)	Oxidation Reduction Potential Standard (mV)		Oxidation Reduction Potential Measurement (mV)	Dissolved Oxygen (%)		Turbidity Standards (NTU)		Turbidity Measurements (NTU)
Beginning of Day Calibration	9/8/25	0945	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	7.02 -17.5	1413 @25.00°C	=	1412 @ 20.8	220 mV at 25.00°C	=	228.8 @ 20.75	Temperature (°C)	= 20.74	0.02	=	0.02
			7.00 @25.00°C Standard is 7 @ 25 °C	=	4.004 151.9	1413 @ 25			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU	10.0	=	10.02
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.05 -192.6							Barometric Pressure (mm/Hg)	= 759.8	1000	=	1006
												Measurement	= 99.87			
End of Day Check	9/8/25	1120	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	4.076 NA	1413 @25.00°C	=	1413 @ 21.15	220 mV at 25.00°C	=	240.4 @ 21.42	Temperature (°C)	= 23.57	0.02	=	0.02
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.080 NA	1413 @ 25			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU	10.0	=	10.03
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.08 NA							Barometric Pressure (mm/Hg)	= 759.4	1000	=	1003
												Measurement	= 100.01			

Notes: The In-Situ SmarTROLL MP Field Meter and In-Situ AquaTROLL 400 measure Temperature, Specific Conductance, Dissolved Oxygen, pH, and Oxidation Reduction Potential.
The HF scientific, inc. Micro TPI Field Portable Turbidimeter measures Turbidity.
Dissolved oxygen is calibrated via % saturation method; however, field measurements are recorded as mg/L.

I certify that the aforementioned meters were calibrated within the manufacturers specifications.

Date: 9/8/25 By: Alicia Powell

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: NE3
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 9/8/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼" ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech. (Title) 9/8/25 (Date)

Field Sampling Log

Monitoring Well ID: NE3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 10.73 Date: 9/8/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 9/8/25

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 10:29 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 10.73 Total Volume Purged (mL): 4040

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 32.35 Water Level after Sampling (feet btoc): 10.73 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 11:05

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1029	200	400	23.79	658.4	1.028	6.995	202.6	7.44	10.73	clear
1031	160	720	22.18	668.9	0.519	7.052	265.9	7.36	10.73	clear
1033	220	1160	20.94	682.9	0.455	7.060	457.4	8.32	10.73	clear
1035	220	1600	20.44	685.6	0.339	7.056	599.7	7.29	10.73	clear
1037	230	2060	20.22	685.8	0.286	7.045	648.7	6.84	10.73	clear
1039	250	2560	20.08	688.1	0.268	7.031	680.5	6.95	10.73	clear
1041	240	3040	20.08	693.2	0.256	7.019	703.7	6.32	10.73	clear
1043	250	3540	20.06	691.8	0.234	7.008	726.9	6.94	10.73	clear
1045	250	4040	20.04	687.0	0.218	6.990	728.5	6.40	10.73	clear

btoc - below top of casing

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: NE3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 10.73

Monitoring Event: Annual ( ) Semi-Annual ( ) Quarterly ( ) Monthly ( ) Other ~~(Y)~~

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
9/8/25 1047	256	20.04	687.0	0.218	6.990	728.5	6.40

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 9/8/25 By: Alicia Powell Title: Lab Tech.

Appendix 1

Field Sampling Notes

10.7.2025

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # _____

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☒ BLUE ICE ☐ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☐ FIELD

FOR LAB USE ONLY

Lab Notes IZ673027015255667O

Client Comments: Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: NE-3

Sample Collector's Name: Justin Lowls

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
	NE-3	10/7/25 10:05	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	10/7/25 11:30		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Field Instrumentation Calibration Log

Facility: Ameren RIEC Ash Ponds - Groundwater Monitoring

Calibrated by: Justin Lowes / Alicia Powell

Field Instruments: In-Situ SmarTROLL MP or In-Situ AquaTROLL 400 — S/N #: 893508

HF scientific, inc. Micro TPI Field Portable Turbidimeter — S/N #: 2023020683

	Date	Time	pH Standards (S.U.)	pH Measurements (S.U./mV)	Specific Conductance Standard (µS/cm)	Specific Conductance Measurement (µS/cm)	Oxidation Reduction Potential Standard (mV)	Oxidation Reduction Potential Measurement (mV)	Dissolved Oxygen (%)		Turbidity Standards (NTU)	Turbidity Measurements (NTU)
Beginning of Day Calibration	10/7/25	0910	4.00 @ 25.00°C Standard is 4 @ 25 °C	4.026 / 168.1	1413 @25.00°C	1415 @ 21.42	220 mV at 25.00°C	221.5 @ 21.48	Temperature (°C) = 21.35		0.02 = 0.02	
			7.00 @25.00°C Standard is 7 @ 25 °C	7.05 / -11.4	1413 @ 25		Standard is 229 mV @ 25 °C		Tap Water Source = SBMU		10.0 = 10.02	
			10.00 @25.00°C Standard is 10 @ 25 °C	10.05 / -185.8					Barometric Pressure (mm/Hg) = 753.9		1000 = 1003	
									Measurement = 100%			
End of Day Check	10/7/25	11:00	4.00 @ 25.00°C Standard is 4 @ 25 °C	4.030 / NA	1413 @25.00°C	1413 @ 21.51	220 mV at 25.00°C	229 @ 21.59	Temperature (°C) = 22.36		0.02 = 0.02	
			7.00 @25.00°C Standard is 7 @ 25 °C	7.010 / NA	1413 @ 25		Standard is 229 mV @ 25 °C		Tap Water Source = SBMU		10.0 = 9.96	
			10.00 @25.00°C Standard is 10 @ 25 °C	10.06 / NA					Barometric Pressure (mm/Hg) = 754.4		1000 = 1002	
									Measurement = 99.97			

Notes: The In-Situ SmarTROLL MP Field Meter and In-Situ AquaTROLL 400 measure Temperature, Specific Conductance, Dissolved Oxygen, pH, and Oxidation Reduction Potential.
The HF scientific, inc. Micro TPI Field Portable Turbidimeter measures Turbidity.
Dissolved oxygen is calibrated via % saturation method; however, field measurements are recorded as mg/L.

I certify that the aforementioned meters were calibrated within the manufacturers specifications.

Date: 10/7/25 By: Justin Lowes / Alicia Powell

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: NE3
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 10/7/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼" ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech. (Title) 10/7/25 (Date)

Field Sampling Log

Monitoring Well ID: NF3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 10.70 Date: 10/7/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 10/7/25

Name (Sample Collector): _____

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 0945 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 10.70 Total Volume Purged (mL): 4380

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 32.40 Water Level after Sampling (feet btoc): 10.70 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 10:26

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
0945	200	400	22.15	625.8	1.743	6.885	272.3	7.60	10.70	clear
0947	200	800	21.02	616.6	0.487	7.067	413.8	8.16	10.70	clear
0949	220	1240	20.49	614.4	0.419	7.087	444.3	7.81	10.70	clear
0951	210	1660	20.23	621.7	0.395	7.085	466.6	8.46	10.70	clear
0953	220	2100	20.12	623.1	0.381	7.094	484.8	8.10	10.70	clear
0955	240	2580	20.04	620.7	0.363	7.094	495.9	8.17	10.70	clear
0957	220	3020	19.95	620.6	0.375	7.093	513.8	8.53	10.70	clear
0959	230	3480	19.94	622.1	0.439	7.088	528.6	8.66	10.70	clear
1001	220	3920	19.91	621.8	0.426	7.092	555.4	8.71	10.70	clear
1003	230	4380	19.86	622.1	0.468	7.091	579.3	9.23	10.70	clear

btoc - below top of casing

Prepared by: GREDELL Engineering Resources, Inc.

January 2017

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: NE3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 10.70

Monitoring Event: Annual ( ) Semi-Annual ( ) Quarterly ( ) Monthly ( ) Other (✓)

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
10/7/25 10:05	230	19.86	622.1	0.468	7.091	579.3	9.23

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: cloudy

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 10/7/25 By: Alicia Bwell Title: Lab Tech.

Appendix 1

Field Sampling Notes

10.23.2025

Drop off Loc
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # _____

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C LTG# _____

Preserved in: ☐ LAB ☐ FIELD

FOR LAB USE ONLY

Lab Notes

Tracking 1Z67302701528735 50

Client Comments:

Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: NE-3

Sample Collector's Name: Justin Lowes

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
	NE-3	10/23/25 1323	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	10/23/25 1430		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Field Instrumentation Calibration Log

Facility: Ameren RISE Ash Ponds - Groundwater Monitoring

Calibrated by: Justin Lowes / Alicia Powell

Field Instruments: In-Situ SmarTROLL MP or In-Situ AquaTROLL 400 — S/N #: 893508

Field Instruments: HF scientific, inc. Micro TPI Field Portable Turbidimeter — S/N #: 2023020683

	Date	Time	pH Standards (S.U.)		pH Measurements (S.U./mV)	Specific Conductance Standard (µS/cm)		Specific Conductance Measurement (µS/cm)	Oxidation Reduction Potential Standard (mV)		Oxidation Reduction Potential Measurement (mV)	Dissolved Oxygen (%)		Turbidity Standards (NTU)		Turbidity Measurements (NTU)
Beginning of Day Calibration	10/23/25	1230	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	4.026 / 158.7	1413 @25.00°C	=	1412 @ 20.78	220 mV at 25.00°C	=	228.6 @ 21.02	Temperature (°C)	= 20.44	0.02	=	0.02
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.016 / -14.8	1413 @ 25			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU	10.0	=	10.18
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.04 / -189.6							Barometric Pressure (mm/Hg)	= 758.3	1000	=	986.5
												Measurement	= 99.91			
End of Day Check	10/23/25	1400	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	4.036 / NA	1413 @25.00°C	=	1340 @ 20.95	220 mV at 25.00°C	=	235.1 @ 20.98	Temperature (°C)	= 22.72	0.02	=	0.01
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.016 / NA	1413 @ 25			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU	10.0	=	10.46
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.08 / NA							Barometric Pressure (mm/Hg)	= 757.4	1000	=	1079
												Measurement	= 100.1			

Notes: The In-Situ SmarTROLL MP Field Meter and In-Situ AquaTROLL 400 measure Temperature, Specific Conductance, Dissolved Oxygen, pH, and Oxidation Reduction Potential.
The HF scientific, inc. Micro TPI Field Portable Turbidimeter measures Turbidity.
Dissolved oxygen is calibrated via % saturation method, however, field measurements are recorded as mg/L.

I certify that the aforementioned meters were calibrated within the manufacturers specifications.

Date: 10/23/25 By: Alicia Powell

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: NE3
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 10/23/25

Access:
- Accessibility: Good ✓ Fair ___ Poor ___
- Well clear of weeds and/or debris?: Yes ✓ No ___
- Well identification clearly visible?: Yes ✓ No ___
- Remarks:

Concrete Pad:
- Condition of Concrete Pad: Good ✓ Inadequate ___
- Depressions or standing water around well?: Yes ___ No ✓
- Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
- Condition of Protective Casing: Good ✓ Damaged ___
- Condition of Locking Cap: Good ✓ Damaged ___
- Condition of Lock: Good ✓ Damaged ___
- Condition of Weep Hole: Good ✓ Damaged ___
- Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
- Condition of Riser: Good ✓ Damaged ___
- Condition of Riser Cap: Good ✓ Damaged ___
- Measurement Reference Point: Yes ✓ No ___
- Remarks:

Dedicated Purging/Sampling Device: Type = ¼" ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
- Condition: Good ✓ Damaged ___ Missing ___
- Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification: Alicia Powell (Signed) | Lab Tech. (Title) | 10/23/25 (Date)

Field Sampling Log

Monitoring Well ID: NE3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 10.70 Date: 10/23/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 10/23/25

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1303 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 10.70 Total Volume Purged (mL): 4760

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 32.43 Water Level after Sampling (feet btoc): 10. (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1342

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1303	220	440	22.15	629.4	1.064	6.909	-65.1	7.78	10.70	clear
1305	230	900	21.10	624.7	0.438	7.023	45.1	8.44	~~8.44~~ 10.70	clear
1307	240	1380	20.66	619.5	0.378	7.044	79.4	7.66	10.70	clear
1309	220	1820	20.49	622.5	0.313	7.058	118.8	7.39	10.70	clear
1311	250	2320	20.42	625.5	0.287	7.061	142.7	6.96	10.70	clear
1313	240	2800	20.37	619.8	0.268	7.059	159.2	9.48	10.70	clear
1315	250	3300	20.40	622.3	0.242	7.054	182.5	8.73	10.70	clear
1317	230	3760	20.40	623.9	0.221	7.046	188.2	8.06	10.70	clear
1319	260	4280	20.40	624.5	0.259	7.038	199.5	8.25	10.70	clear
1321	240	4760	20.40	626.2	0.282	7.038	218.00	7.84	10.70	clear

btoc - below top of casing

Prepared by: GREDELL Engineering Resources, Inc.

January 2017

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: NE3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 10.70

Monitoring Event: Annual ( ) Semi-Annual ( ) Quarterly ( ) Monthly ( ) Other (X)

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
10/23/25 1323	240	20.40	626.2	0.282	7.038	218.00	7.84

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 10/23/25 By: Alicia Powell Title: Lab Tech.

Appendix 1

Field Sampling Notes

12.10.2025

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # _____

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☒ BLUE ICE ☐ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes Tracking 126730271354055140

Client Comments:

Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: NE-3

Sample Collector's Name: Alicia Powell

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
	NE-3	12/10/25 1049	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	12/10/25 1400		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Field Instrumentation Calibration Log

Facility: Antelope R.E.C. Ash Ponds - Groundwater Monitoring

Calibrated by: Anthony Peuster/Alicia Powell

Field Instruments: In-Situ SmarTROLL MP or In-Situ AquaTROLL 400 | HF scientific, inc. Micro TPI Field Portable Turbidimeter

S/N #: 893508 | 2023020683

	Date	Time	pH Standards (S.U.)		pH Measurements (S.U./mV)	Specific Conductance Standard (µS/cm)		Specific Conductance Measurement (µS/cm)	Oxidation Reduction Potential Standard (mV)		Oxidation Reduction Potential Measurement (mV)	Dissolved Oxygen (%)		Turbidity Standards (NTU)		Turbidity Measurements (NTU)
Beginning of Day Calibration	12/10/25	0754	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	4.04 / 127.2	1413 @25.00°C	=	1412	220 mV at 25.00°C	=	229.9	Temperature (°C)	= 20.33	0.02	=	.02
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.07 / -49.3	1413 @ 25.0			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU TAP WATER	10.0	=	9.96
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.06 / -225.7							Barometric Pressure (mm/Hg)	= 746.0	1000	=	1000
												Measurement	= 100.1			
End of Day Check	12/10/25	1342	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	4.081 / NA	1413 @25.00°C	=	1404 @ 20.66	220 mV at 25.00°C	=	231.3	Temperature (°C)	= 19.32	0.02	=	0.02
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.016 / NA	1413 @ 25			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU	10.0	=	9.99
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.04 / NA							Barometric Pressure (mm/Hg)	= 748.7	1000	=	997
												Measurement	= 99.75			

Notes: The In-Situ SmarTROLL MP Field Meter and In-Situ AquaTROLL 400 measure Temperature, Specific Conductance, Dissolved Oxygen, pH, and Oxidation Reduction Potential.
The HF scientific, inc. Micro TPI Field Portable Turbidimeter measures Turbidity.
Dissolved oxygen is calibrated via % saturation method; however, field measurements are recorded as mg/L.

I certify that the aforementioned meters were calibrated within the manufacturers specifications.

Date: 12/10/25 By: Alicia Powell

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: NE3
Name (Field Staff): Anthony Deaster / Alicia Powell
Date: 12/10/25

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech (Title) 12/10/25 (Date)

Field Sampling Log

Monitoring Well ID: NE3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 10.30 Date: 12/10/25

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 12/10/25

Name (Sample Collector): Anthony Deuster / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1025 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 10.30 Total Volume Purged (mL): AP 10.30 5640

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 32.42 Water Level after Sampling (feet btoc): 10.30 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1109

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1025	240	480	15.76	625.3	3.634	6.918	518.1	9.91	10.30	clear
1027	250	980	16.94	659.8	0.729	6.829	459.3	8.37	10.30	clear
1029	240	1460	17.50	649.6	0.538	6.818	373.5	8.54	10.30	clear
1031	180	1820	17.73	645.6	0.462	6.822	294.5	8.78	10.30	clear
1033	280	2380	17.78	643.0	0.450	6.828	223.8	8.82	10.30	clear
1035	240	2860	17.86	640.1	0.484	6.835	192.2	8.40	10.30	white flakes
1037	230	3320	17.91	639.0	0.429	6.842	150.1	7.89	10.30	clear
1039	240	3800	17.98	634.8	0.476	6.847	121.0	8.25	10.30	clear
1041	230	4260	18.02	644.7	0.499	6.849	109.8	8.58	10.30	clear
1043	250	4760	18.04	638.1	0.480	6.852	94.1	8.88	10.30	clear
1045	230	5220	18.08	641.1	0.438	6.857	85.1	8.72	10.30	clear
1047	210	5640	18.10	637.3	0.435	6.859	77.3	8.60	10.30	clear

btoc - below top of casing

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: NE3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 10.30

Monitoring Event: Annual ( ) Semi-Annual ( ) Quarterly ( ) Monthly ( ) Other (✓)

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
12/10/25 1049	210	18.10	637.3	0.435	6.859	77.3	8.60

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny, windy

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 12/10/25 By: Alicia Powell Title: Lab Tech.

Appendix 1

Field Sampling Notes

3.21.2026

Drop off Location
☐ Downers Grove IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 2 Work order # _____

TEKLAB, INC. 120 United Drive - Collinsville, IL 62234 - Phone: (618) 344-1004

Client	Sikeston Power Station 6291		
Address	107 E Malone Ave		
	Sikeston, MO 63801		
Contact	Luke St. Mary	Phone	(573) 475-3119
E-Mail	lstmary@sbmu.net	Fax	

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C LTG# _____
Preserved in: ☐ LAB ☐ FIELD
FOR LAB USE ONLY
Lab Notes:

Client Comments
Report QC LVL: 2
Total Metals = Ba B Ca (ICP) and As Co Li Mo Se (ICP/MS)

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: Fly Ash Pond (FAP)
Sample Collector's Name: Justin Lowes
Billing/PO#:
Results Requested (call for PFAS TAT and surcharges): ☐ Standard ☐ 1-2 Day (100% Surcharge) ☐ Date _____ ☐ 3 Day (50% Surcharge)

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	MATRIX: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: Cl SO4 F-	Field pH	TDS	Total Metals
	MW-1R	3/21/26 1525	1	1		X		X	X	X	X
	MW-2	3/21/26 0829	1	1		X		X	X	X	X
	MW-3	3/21/26 1239	1	1		X		X	X	X	X
	MW-4	3/21/26 1155	1	1		X		X	X	X	X
	NE-3	3/21/26 1051	1	1		X		X	X	X	X
	MW-7	3/21/26 1350	1	1		X		X	X	X	X
	MW-9	3/21/26 1436	1	1		X		X	X	X	X
	MW-10	3/21/26 0951	1	1			X	X	X	X	X
	Duplicate	3/21/26	1	1	X			X		X	X
	Trip Blank		1	1		X		X		X	X

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	3/23/26 0930		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

BottleOrder 107026

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 2 of 2 Work order # _____

TEKLAB, INC. 120 United Drive - Collinsville, IL 62234 - Phone: (618) 344-1004

Client	Sikeston Power Station 6291		
Address	107 E Malone Ave		
	Sikeston, MO 63801		
Contact	Luke St. Mary	Phone	(573) 475-3119
E-Mail	lstmary@sbmu.net	Fax	

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C LTG# _____

Preserved in: ☐ LAB ☐ FIELD

FOR LAB USE ONLY

Lab Notes:

Client Comments

Report QC LVL: 2

Total Metals = Ba B Ca (ICP) and As Co Li Mo Se (ICP/MS)

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: Fly Ash Pond (FAP)

Sample Collector's Name:

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ☐ 3 Day (50% Surcharge)

Billing/PO#:

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	MATRIX: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: Cl SO4 F-	Field pH	TDS	Total Metals
	Field Blank	3/21/26/1525	1	1		X		X		X	X

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	3/23/26 / 0930		

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder 107026

Field Instrumentation Calibration Log

Facility: Ameren RIEC Ash Ponds - Groundwater Monitoring

Calibrated by: Alicia Powell

Field Instruments: In-Situ SmarTROLL MP or In-Situ AquaTROLL 400 | HF scientific, inc. Micro TPI Field Portable Turbidimeter

S/N #: 893508 | 2023020683

	Date	Time	pH Standards (S.U.)		pH Measurements (S.U./mV)	Specific Conductance Standard (µS/cm)		Specific Conductance Measurement (µS/cm)	Oxidation Reduction Potential Standard (mV)		Oxidation Reduction Potential Measurement (mV)	Dissolved Oxygen (%)		Turbidity Standards (NTU)		Turbidity Measurements (NTU)
Beginning of Day Calibration	3/21/26	0650	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	3.972	1413 @25.00°C	=	1411 @ 19.89°C	220 mV at 25.00°C	=	228.80 @ 19.82°C	Temperature (°C)	= 23.28	0.02	=	0.03
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.006	1413 @ 25°C			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU	10.0	=	10.16
				=	-8.2							Barometric Pressure (mm/Hg)	= 749.6	1000	=	1002
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.04							Measurement	= 100.0			
				=	-183.0											
End of Day Check	3/21/26	1637	4.00 @ 25.00°C Standard is 4 @ 25 °C	=	4.044	1413 @25.00°C	=	1413 @ 20.24°C	220 mV at 25.00°C	=	230.40 @ 20.52°C	Temperature (°C)	= 2025	0.02	=	0.01
			7.00 @25.00°C Standard is 7 @ 25 °C	=	7.045	1413 @ 25°C			Standard is 229 mV @ 25 °C			Tap Water Source	= SBMU	10.0	=	10.32
				=	NA							Barometric Pressure (mm/Hg)	= 747.8	1000	=	~~996.8~~ AP 996.8
			10.00 @25.00°C Standard is 10 @ 25 °C	=	10.04							Measurement	= 100.0			
				=	NA											

Notes: The In-Situ SmarTROLL MP Field Meter and In-Situ AquaTROLL 400 measure Temperature, Specific Conductance, Dissolved Oxygen, pH, and Oxidation Reduction Potential.
The HF scientific, inc. Micro TPI Field Portable Turbidimeter measures Turbidity.
Dissolved oxygen is calibrated via % saturation method, however, field measurements are recorded as mg/L.

I certify that the aforementioned meters were calibrated within the manufacturers specifications.

Date: 3/21/26 By: Gastin Lowes / Alicia Powell

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW2
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 3/21/26

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼" ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech. (Title) 3/21/26 (Date)

Field Sampling Log

Monitoring Well ID: MW2 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 11.64 Date: 3/21/26

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 3/21/26

Name (Sample Collector): Justin Lowes/Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 0811 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 11.64 Total Volume Purged (mL): 4380

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 37.40 Water Level after Sampling (feet btoc): 11.64 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 0905

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
0811	250	500	19.02	163.10	3.479	5.763	666.7	9.69	11.64	clear
0813	230	960	17.15	132.00	1.024	6.027	626.1	11.23	11.64	black flakes
0815	230	1420	16.69	132.50	1.328	6.126	612.4	9.38	11.64	black flakes
0817	230	1880	16.63	130.00	1.222	6.157	605.1	9.09	11.64	clear
0819	260	2400	16.70	132.20	0.908	6.171	598.6	9.84	11.64	clear
0821	230	2860	16.74	133.10	0.606	6.184	598.9	8.42	11.64	clear
0823	250	3360	16.79	133.90	0.595	6.182	594.4	8.95	11.64	clear
0825	240	3840	1680	137.10	0.652	6.183	594.9	8.69	11.64	clear
0827	270	4380	16.87	136.10	0.613	6.177	591.4	8.43	11.64	clear

btoc - below top of casing

Prepared by: GREDELL Engineering Resources, Inc.

January 2017

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW2

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 11.64

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
3/21/26 0829	270	16.87	136.10	0.613	6.177	591.4	8.43

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: sunny clear

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

Dup. taken

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 3/21/26 By: Alicia Powell Title: Lab Tech.

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW10
Name (Field Staff): Justin Lowes/Alicia Powell
Date: 3/21/26

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech (Title) 3/21/26 (Date)

Field Sampling Log

Monitoring Well ID: MW10 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 10.83 Date: 3/21/26

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 3/21/26

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 0917 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 10.83 Total Volume Purged (mL): 8800

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 33.40 Water Level after Sampling (feet btoc): 10.83 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1010

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
0917	270	540	20.46	610.0	2.211	6.731	43.2	46.82	10.83	clear
0919	250	1040	17.93	674.7	0.568	6.873	1.3	44.40	10.83	clear
0921	260	1560	17.55	679.4	0.431	6.919	-15.5	29.27	10.83	clear
0923	270	2100	17.52	671.8	0.335	6.943	-15.5	25.35	10.83	clear
0925	260	2620	17.55	666.6	0.302	6.961	-12.2	45.43	10.83	clear
0927	260	3140	17.55	663.8	0.297	6.971	-4.7	82.12	10.83	clear
0929	250	3640	17.59	654.5	0.291	6.983	17.5	125.00	10.83	redflakes
0931	280	4200	17.55	647.0	0.282	6.988	60.4	110.80	10.83	redflakes
0933	250	4700	17.51	648.7	0.257	6.922	152.3	308.2	10.83	redflakes
0935	260	5220	17.64	645.1	0.256	6.996	169.9	43.16	10.83	redflakes
0937	260	5740	17.69	636.3	0.251	7.000	203.6	27.11	10.83	clear
0939	240	6220	17.46	639.4	0.230	6.999	259.2	43.85	10.83	redflakes
0941	260	6740	17.63	633.5	0.226	7.004	240.4	22.69	10.83	clear
0943	260	7260	17.73	633.9	0.211	7.007	228.9	15.87	10.83	clear
0945	250	7760	17.72	638.5	0.212	7.009	231.2	16.51	10.83	clear
0947	250	8260	17.70	630.1	0.210	7.009	243.4	16.72	10.85	clear
0949	270	8800	17.71	636.2	0.206	7.012	253.4	16.75	10.83	clear

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Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW16

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 10.83

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
3/21/26 0951	270	17.71	636.2	0.206	7.012	253.4	16.75

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny clear

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 3/21/26 By: Alicia Powell Title: Lab Tech

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: NE3
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 3/21/26

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼" ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech. (Title) 3/21/26 (Date)

Field Sampling Log

Monitoring Well ID: NE3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 9.97 Date: 3/21/26

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 3/21/26

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1025 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 9.97 Total Volume Purged (mL): 6800

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 32.42 Water Level after Sampling (feet btoc): 9.97 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1109

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1025	270	540	22.26	592.2	5.033	6.979	389.5	25.92	9.97	clear
1027	250	1040	18.01	658.7	0.424	6.997	353.2	18.18	9.97	white flakes
1029	260	1560	17.73	658.6	0.361	6.997	345.4	26.43	9.97	white flakes
1031	270	2100	17.50	657.1	0.285	6.996	337.0	12.71	9.97	white flakes
1033	220	2540	17.41	652.7	0.221	6.994	331.9	101.9	9.97	white flakes
1035	260	3060	17.37	653.0	0.233	6.990	340.2	105.6	9.97	white flakes
1037	270	3600	17.39	656.8	0.225	6.990	342.7	28.76	9.97	white flakes
1039	260	4120	17.41	656.7	0.219	6.990	344.5	67.79	9.97	white flakes
1041	270	4660	17.37	656.4	0.213	6.989	352.5	24.10	9.97	white flakes
1043	270	5200	17.49	654.5	0.213	6.987	353.9	51.37	9.97	white flake
1045	250	5700	17.53	645.9	0.210	6.989	358.0	11.15	9.97	clear
1047	280	6260	17.50	655.0	0.232	6.991	354.9	12.07	9.97	clear
1049	270	6800	17.50	648.0	0.227	6.991	334.5	16.72	9.97	clear

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Field Sampling Log

Facility: SBMU Sikéston Power Station - CCR Groundwater Monitoring Monitoring Well ID: NE3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 9.97

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
3/21/26 1051	270	17.50	648.0	0.227	6.991	334.5	11.72

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: sunny clear

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 3/21/26 By: Alicia Powell Title: Lab Tech.

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW4
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 3/21/26

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech (Title) 3/21/26 (Date)

Field Sampling Log

Monitoring Well ID: MW4 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 11.41 Date: 3/21/26

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y (N)

PURGE INFORMATION

Date: 3/21/26

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1121 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 11.41 Total Volume Purged (mL): 9406

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 37.48 Water Level after Sampling (feet btoc): 11.41 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1213

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1121	270	540	24.21	690.3	2.621	7.134	612.5	105.0	11.41	white flakes
1123	280	1100	19.89	676.3	0.891	7.092	563.3	23.28	11.41	white flakes
1125	260	1620	18.77	680.6	0.794	7.113	505.7	22.93	11.41	white flakes
1127	280	2180	18.70	696.0	0.588	7.139	475.2	35.6	11.41	white flakes
1129	280	2740	18.53	704.0	0.491	7.146	462.1	68.0	11.41	white flakes
1131	240	3220	18.54	706.4	0.487	7.152	436.5	58.4	11.41	white flakes
1133	330	3880	18.57	689.2	0.492	7.163	449.7	68.73	11.41	white flakes
1135	280	4440	18.61	699.6	0.426	7.178	407.1	44.5	11.41	white flakes
1137	280	5000	18.53	699.0	6.393	7.173	399.7	33.37	11.41	clear
1139	280	5560	18.53	713.7	0.416	7.178	388.5	33.71	11.41	white flakes
1141	310	6180	18.65	707.1	0.416	7.184	389.1	27.28	11.41	white flakes
1143	260	6700	18.64	695.6	0.386	7.183	447.6	25.53	11.41	white flakes
1145	280	7260	18.62	710.0	0.410	7.181	502.4	26.06	11.41	white flakes
1147	270	7800	18.58	717.0	0.404	7.178	539.7	22.58	11.41	clear
1149	230	8260	18.66	697.7	0.384	7.195	533.6	21.16	11.41	clear
1151	280	8820	18.74	716.5	0.383	7.189	507.4	21.10	11.41	clear
1153	290	9400	18.73	713.1	0.405	7.193	480.0	21.11	11.41	clear

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Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW4

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 11.41

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
3/21/26 1155	290	18.73	713.1	0.405	7.193	480.0	21.11

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny clear

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 3/21/26 By: Alicia Powell Title: Lab Tech.

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW 3
Name (Field Staff): Justin Lowes/Alicia Powell
Date: 3/21/26

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech. (Title) 3/21/26 (Date)

Field Sampling Log

Monitoring Well ID: MW3 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 12.70 Date: 3/21/26

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 3/21/26

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1223 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 12.70 Total Volume Purged (mL): 4620

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 37.20 Water Level after Sampling (feet btoc): 12.70 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1258

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1223	306	600	25.47	153.2	2.971	7.162	695.4	12.70	12.70	clear
1225	290	1180	19.41	164.6	1.289	6.566	720.3	14.54	12.70	clear
1227	280	1740	18.02	169.9	1.263	6.364	723.3	11.19	12.70 AP	clear
1229	310	2360	17.71	168.0	1.278	6.316	730.1	10.33	12.70	clear
1231	300	2960	17.64	169.3	1.206	6.291	733.2	10.76	12.70	clear
1233	270	3500	17.56	167.3	1.192	6.293	735.2	10.69	12.70	clear
1235	260	4020	17.62	165.7	1.164	6.296	736.5	10.79	12.70	clear
1237	300	4620	17.64	165.2	1.158	6.301	739.6	9.69	12.70	clear

btoc - below top of casing

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW3

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 12.70

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
3/21/26 1239	300	17.64	165.2	1.158	6.301	739.6	9.69

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny clear

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

pH out of limits, but was stable before Sampling.
pH lower than the low limit.
low limit is a 6.359 our last reading was a 6.301

- pH after sampling was a 6.449

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 3/21/2 By: Alicia Powell Title: Lab Tech.

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW7
Name (Field Staff): Justin Lowes/Alicia Powell
Date: 3/21/26

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼" ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech (Title) 3/21/24 (Date)

Field Sampling Log

Monitoring Well ID: MW7 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 19.80 Date: 3/21/26

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y (N)

PURGE INFORMATION

Date: 3/21/26

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1332 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 19.80 Total Volume Purged (mL): 5040

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y (N)

Well Total Depth (feet btoc): 37.45 Water Level after Sampling (feet btoc): 19.80 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1408

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1332	290	580	25.10	872.8	1.647	6.722	702.3	5.98	19.80	clear
1334	280	1140	19.63	922.9	0.392	6.938	719.6	3.00	19.80	clear
1336	270	1680	18.04	948.7	0.295	7.072	730.1	3.40	19.80	clear
1338	310	2300	17.90	959.2	0.275	7.109	735.6	3.42	19.80	clear
1340	260	2820	17.79	965.7	0.277	7.124	739.0	3.54	19.80	clear
1342	270	3360	17.81	969.9	0.278	7.141	742.9	2.61	19.80	clear
1344	270	3900	17.72	975.5	0.280	7.159	746.5	1.27	19.80	clear
1346	300	4500	17.86	966.5	0.270	7.163	752.0	1.81	19.80	clear
1348	270	5040	17.84	966.1	0.272	7.170	754.9	1.67	19.80	clear

btoc - below top of casing

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW7

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 19.80

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
3/21/26 1350	270	17.84	966.1	0.272	7.170	754.9	1.67

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny clear

Sample Characteristics: Clear, colorless, & odorless

Sample Collection Order: Per SAP

Comments and Observations:

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 3/21/26 By: Alicia Powell Title: Lab Tech.

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW9
Name (Field Staff): Justin Lowes / Alicia Powell
Date: 3/21/26

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) LabTech (Title) 3/21/26 (Date)

Field Sampling Log

Monitoring Well ID: MW9 Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 19.02 Date: 3/21/26

Initial Groundwater Elevation (NAVD88): Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 3/21/26

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1418 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 19.02 Total Volume Purged (mL): 4800

Beginning Groundwater Elevation (NAVD88): Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 37.34 Water Level after Sampling (feet btoc): 19.02 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1454

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1418	270	540	23.99	641.1	0.814	6.933	567.3	12.38	19.02	clear
1420	270	1080	19.74	686.2	0.616	6.805	685.1	10.60	19.02	clear
1422	260	1600	18.91	706.5	0.598	6.787	726.4	10.42	19.02	clear
1424	290	2180	18.69	699.7	0.581	6.781	748.3	9.83	19.02	clear
1426	250	2680	18.65	714.8	0.559	6.783	760.3	9.48	19.02	clear
1428	260	3200	18.59	712.1	0.541	6.785	769.3	10.33	19.02	clear
1430	270	3740	18.61	709.9	0.526	6.787	772.9	9.44	19.02	clear
1432	270	4280	18.52	707.5	0.428	6.787	776.9	9.05	19.02	clear
1434	260	4800	18.60	703.1	0.394	6.788	787.6	8.85	19.02	clear

btoc - below top of casing

Prepared by: GREDELL Engineering Resources, Inc

January 2017

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW9

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 19.02

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
3/21/26 1436	260	18.60	703.1	0.394	6.788	787.6	8.85

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: Sunny Clear

Sample Characteristics: Clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

PH was out of limit, but was stable before Sampling. Low limit is 7.237. Our last reading was 6.788.

pH after sampling was a 6.787

I certify that sampling procedures were in accordance with applicable EPA and State protocols.

Date: 3/21/26 By: Alicia Powell Title: Lab Tech

Monitoring Well Field Inspection

Facility: SBMU SPS – CCR Groundwater Monitoring
Monitoring Well ID: MW1R
Name (Field Staff): Justin Lowes/Alicia Powell
Date: 3/21/26

Access:
Accessibility: Good ✓ Fair ___ Poor ___
Well clear of weeds and/or debris?: Yes ✓ No ___
Well identification clearly visible?: Yes ✓ No ___
Remarks:

Concrete Pad:
Condition of Concrete Pad: Good ✓ Inadequate ___
Depressions or standing water around well?: Yes ___ No ✓
Remarks:

Protective Outer Casing: Material = 4" x 4" Steel Hinged Casing with Hasp
Condition of Protective Casing: Good ✓ Damaged ___
Condition of Locking Cap: Good ✓ Damaged ___
Condition of Lock: Good ✓ Damaged ___
Condition of Weep Hole: Good ✓ Damaged ___
Remarks:

Well Riser: Material = 2" Diameter, Schedule 40 PVC, Flush Threaded
Condition of Riser: Good ✓ Damaged ___
Condition of Riser Cap: Good ✓ Damaged ___
Measurement Reference Point: Yes ✓ No ___
Remarks:

Dedicated Purging/Sampling Device: Type = ¼ " ID Semi-Rigid Polyethylene & 0.170" ID Flexible Silicone Tubing
Condition: Good ✓ Damaged ___ Missing ___
Remarks:

Monitoring Well Locked/Secured Post Sampling?: Yes ✓ No ___
Remarks:

Field Certification Alicia Powell (Signed) Lab Tech (Title) 3/21/24 (Date)

Field Sampling Log

Monitoring Well ID: MW1R Facility: SBMU Sikeston Power Station - Groundwater Monitoring

Initial Water Level (feet btoc): 18.50 Date: 3/21/26

Initial Groundwater Elevation (NAVD88): _____ Air Pressure in Well? Y / (N)

PURGE INFORMATION

Date: 3/21/25

Name (Sample Collector): Justin Lowes / Alicia Powell

Method of Well Purge: Low Flow Perstaltic Pump Dedicated Tubing? (Y) / N

Time Purging Initiated: 1507 One (1) Well Volume (mL): NA

Beginning Water Level (feet btoc): 18.50 Total Volume Purged (mL): 4800

Beginning Groundwater Elevation (NAVD88): _____ Well Purged To Dryness? Y / (N)

Well Total Depth (feet btoc): 38.27 Water Level after Sampling (feet btoc): 18.50 (i.e., pump is off)

Casing Diameter (feet): 2" Sch 40 PVC Time Sampling Completed: 1544

PURGE STABILIZATION DATA

Time	Purge Rate (mL/min)	Cumulative Volume (mL)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)	Water Level (feet btoc)	Notes (e.g., opacity, color, odor)
1507	280	560	25.97	429.5	2.646	6.766	618.2	60.18	18.50	white flakes
1509	260	1080	20.42	456.3	0.671	6.530	682.4	27.36	18.50	white flakes
1511	270	1620	19.11	442.7	0.580	6.465	728.8	24.41	1850	white flakes
1513	280	2180	18.88	433.3	0.541	6.454	750.4	14.23	18.50	white flakes
1515	270	2720	18.79	429.3	0.542	6.447	775.1	6.56	18.50	white flakes
1517	260	3240	18.78	425.9	0.522	6.446	793.4	5.70	18.50	white flakes
1519	270	3780	18.84	430.7	0.476	6.442	805.6	3.80	18.50	white flakes
1521	250	4280	18.83	415.8	0.469	6.440	810.7	2.99	18.50	white flakes
1523	260	4800	18.81	427.0	0.458	6.437	814.6	2.98	18.50	white flakes

btoc - below top of casing

Field Sampling Log

Facility: SBMU Sikeston Power Station - CCR Groundwater Monitoring Monitoring Well ID: MW1R

Sampling Information:

Method of Sampling: Low Flow - Perstaltic Pump & Tubing Dedicated: (Y) / N

Water Level @ Sampling (feet btoc): 18.50

Monitoring Event: Annual ( ) Semi-Annual (✓) Quarterly ( ) Monthly ( ) Other ( )

Final Purge Stablization Sampling Data:

Date Sample Time	Sample Rate (mL/min)	Temp (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH (S.U.)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
3/21/26 1525	260	18.81	427.0	0.458	6.437	814.6	2.98

Instrument Calibration Data:

See instrument calibration log of daily calibration data for the following instruments:

1 - In-Situ SmarTroll Multi-Probe Field Meter (Temperature, Specific Conductance, Dissolved Oxygen, pH, Oxidation Reduction Potentia

2 - HF scientific, inc. Micro TPI Field Portable Turbidimeter

General Information:

Weather Conditions @ time of sampling: sunny clear

Sample Characteristics: clear, colorless, odorless

Sample Collection Order: Per SAP

Comments and Observations:

pH was out of limit. Low limit is 6.48. Our last reading was 6.437. pH was stable before sampling. Final pH after sampling was 6.433

Field Blank taken.

I certify that sampling procedures were in accordance with applicable EPA and State protocols

Date: 3/21/26 By: Alicia Powell Title: Lab Tech

Appendix 2
Laboratory Analytical Results

Appendix 2

Laboratory Analytical Results

7.17.2025

August 29, 2025

Luke St. Mary
Sikeston Board of Municipal Utilities
107 E Malone Ave
PO Box 370
Sikeston, MO 63801
TEL: (573) 475-3119
FAX:

Illinois	100226
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Fly Ash Pond (FAP) **WorkOrder:** 25071788

Dear Luke St. Mary:

TEKLAB, INC received 11 samples on 7/22/2025 9:22:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25071788
Client Project: Fly Ash Pond (FAP)
Report Date: 29-Aug-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
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Accreditations	6
Laboratory Results	7
Quality Control Results	18
Receiving Check List	26
Chain of Custody	Appended

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Abbr Definition

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Client: Sikeston Board of Municipal Utilities
Work Order: 25071788
Client Project: Fly Ash Pond (FAP)
Report Date: 29-Aug-25

Cooler Receipt Temp: 5.1 °C

Field pH data provided by GREDELL Engineering Resources, Inc.

Ra226/228 analyses were performed by Alliance Technical Group - Akron. See attached report for results and QC data.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Lab ID: 25071788-001 **Client Sample ID:** MW-1R

Matrix: GROUNDWATER **Collection Date:** 07/17/2025 7:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.35**		1	07/17/2025 7:10	R368708
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**380**	mg/L	1	07/22/2025 16:35	R368577
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.14**	mg/L	5	07/24/2025 6:32	R368676
Chloride	NELAP	0.50	4.00		**10.5**	mg/L	5	07/24/2025 6:32	R368676
Sulfate	NELAP	0.50	10.0		**161**	mg/L	5	07/24/2025 6:32	R368676
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**19.3**	µg/L	1	07/25/2025 19:44	242297
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 19:44	242297
Boron	NELAP	10.0	10.0		**2710**	µg/L	1	07/29/2025 12:34	242297
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 19:44	242297
Calcium	NELAP	0.200	0.200		**66.0**	mg/L	1	07/25/2025 19:44	242297
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/25/2025 19:44	242297
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/24/2025 1:46	242297
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:46	242297
Cobalt	NELAP	2.0	2.0		**10.9**	µg/L	5	07/24/2025 1:46	242297
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:46	242297
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	07/24/2025 1:46	242297
Molybdenum	NELAP	1.0	1.0		**202**	µg/L	5	07/24/2025 1:46	242297
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:46	242297
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:46	242297
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/23/2025 11:00	242304
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Lab ID: 25071788-002 **Client Sample ID:** MW-2

Matrix: GROUNDWATER **Collection Date:** 07/17/2025 13:28

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.02**		1	07/17/2025 13:28	R368708
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**104**	mg/L	1	07/22/2025 16:35	R368577
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.07**	mg/L	5	07/24/2025 6:45	R368676
Chloride	NELAP	0.50	4.00		**4.77**	mg/L	5	07/24/2025 6:45	R368676
Sulfate	NELAP	0.50	10.0		**13.3**	mg/L	5	07/24/2025 6:45	R368676
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**185**	µg/L	1	07/25/2025 19:54	242297
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 19:54	242297
Boron	NELAP	10.0	10.0		**59.8**	µg/L	1	07/29/2025 12:35	242297
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 19:54	242297
Calcium	NELAP	0.200	0.200	S	**18.2**	mg/L	1	07/25/2025 19:54	242297
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/25/2025 19:54	242297
Matrix spike did not recover within control limits due to matrix interference.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/24/2025 2:11	242297
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 2:11	242297
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	07/24/2025 2:11	242297
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 2:11	242297
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	07/24/2025 2:11	242297
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 2:11	242297
Selenium	NELAP	1.0	1.0		**1.9**	µg/L	5	07/24/2025 2:11	242297
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 2:11	242297
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/23/2025 11:07	242304
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Lab ID: 25071788-003 **Client Sample ID:** MW-3

Matrix: GROUNDWATER **Collection Date:** 07/17/2025 9:32

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.32**		1	07/17/2025 9:32	R368708
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**98**	mg/L	1	07/22/2025 16:35	R368577
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.18**	mg/L	5	07/24/2025 6:58	R368676
Chloride	NELAP	0.50	4.0	J	**1.8**	mg/L	5	07/24/2025 6:58	R368676
Sulfate	NELAP	0.50	10	J	**9.0**	mg/L	5	07/24/2025 6:58	R368676
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**69.8**	µg/L	1	07/25/2025 19:58	242297
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 19:58	242297
Boron	NELAP	10.0	10.0		**39.8**	µg/L	1	07/29/2025 12:40	242297
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 19:58	242297
Calcium	NELAP	0.200	0.200		**13.4**	mg/L	1	07/25/2025 19:58	242297
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/25/2025 19:58	242297
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/24/2025 1:52	242297
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:52	242297
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	07/24/2025 1:52	242297
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:52	242297
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	07/24/2025 1:52	242297
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:52	242297
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:52	242297
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:52	242297
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/23/2025 11:09	242304
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Lab ID: 25071788-004 **Client Sample ID:** MW-4

Matrix: GROUNDWATER **Collection Date:** 07/17/2025 10:14

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**7.10**		1	07/17/2025 10:14	R368708
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**528**	mg/L	1	07/22/2025 16:35	R368577
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.05**	mg/L	5	07/24/2025 7:10	R368676
Chloride	NELAP	0.50	4.00		**32.0**	mg/L	5	07/24/2025 7:10	R368676
Sulfate	NELAP	0.50	10.0		**171**	mg/L	5	07/24/2025 7:10	R368676
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**112**	µg/L	1	07/25/2025 20:00	242297
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:00	242297
Boron	NELAP	10.0	10.0		**1090**	µg/L	1	07/29/2025 12:42	242297
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:00	242297
Calcium	NELAP	0.200	0.200		**101**	mg/L	1	07/25/2025 20:00	242297
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/25/2025 20:00	242297
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/24/2025 1:58	242297
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:58	242297
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	07/24/2025 1:58	242297
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:58	242297
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	07/24/2025 1:58	242297
Molybdenum	NELAP	1.0	1.0		**5.3**	µg/L	5	07/24/2025 1:58	242297
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:58	242297
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 1:58	242297
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/23/2025 11:53	242304
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Lab ID: 25071788-005 **Client Sample ID:** NE-3

Matrix: GROUNDWATER **Collection Date:** 07/17/2025 12:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.93**		1	07/17/2025 12:13	R368708
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**350**	mg/L	1	07/22/2025 16:35	R368577
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.14**	mg/L	5	07/24/2025 8:01	R368676
Chloride	NELAP	0.50	4.0	J	**3.8**	mg/L	5	07/24/2025 8:01	R368676
Sulfate	NELAP	0.50	10.0		**45.7**	mg/L	5	07/24/2025 8:01	R368676
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**297**	µg/L	1	07/25/2025 20:02	242297
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:02	242297
Boron	NELAP	10.0	10.0		**73.8**	µg/L	1	07/29/2025 12:43	242297
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:02	242297
Calcium	NELAP	0.200	0.200		**67.9**	mg/L	1	07/25/2025 20:02	242297
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/25/2025 20:02	242297
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/24/2025 2:05	242297
Arsenic	NELAP	1.0	1.0		**1.5**	µg/L	5	07/24/2025 2:05	242297
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	07/24/2025 2:05	242297
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 2:05	242297
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	07/24/2025 2:05	242297
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 2:05	242297
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 2:05	242297
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 2:05	242297
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/23/2025 11:55	242304
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Lab ID: 25071788-006 **Client Sample ID:** MW-7

Matrix: GROUNDWATER **Collection Date:** 07/17/2025 8:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**7.16**		1	07/17/2025 8:44	R368708
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**758**	mg/L	1	07/22/2025 17:05	R368577
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25		**0.63**	mg/L	5	07/24/2025 8:14	R368676
Chloride	NELAP	0.50	4.00		**11.0**	mg/L	5	07/24/2025 8:14	R368676
Sulfate	NELAP	0.50	10.0		**444**	mg/L	5	07/24/2025 8:14	R368676
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**104**	µg/L	1	07/25/2025 20:03	242297
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:03	242297
Boron	NELAP	10.0	10.0		**4830**	µg/L	1	07/29/2025 12:45	242297
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:03	242297
Calcium	NELAP	0.200	0.200		**142**	mg/L	1	07/25/2025 20:03	242297
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/25/2025 20:03	242297
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/24/2025 3:14	242297
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:14	242297
Cobalt	NELAP	2.0	2.0		**2.7**	µg/L	5	07/24/2025 3:14	242297
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:14	242297
Lithium	*	10.0	10.0		**50.3**	µg/L	5	07/24/2025 3:14	242297
Molybdenum	NELAP	1.0	1.0		**91.5**	µg/L	5	07/24/2025 3:14	242297
Selenium	NELAP	1.0	1.0		**1.8**	µg/L	5	07/24/2025 3:14	242297
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/25/2025 13:22	242297
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/23/2025 11:58	242304
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Lab ID: 25071788-007 **Client Sample ID:** MW-9

Matrix: GROUNDWATER **Collection Date:** 07/17/2025 8:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.86**		1	07/17/2025 8:06	R368708
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**506**	mg/L	1	07/22/2025 17:05	R368577
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25		**0.64**	mg/L	5	07/24/2025 8:26	R368676
Chloride	NELAP	0.50	4.00		**13.0**	mg/L	5	07/24/2025 8:26	R368676
Sulfate	NELAP	0.50	10.0		**208**	mg/L	5	07/24/2025 8:26	R368676
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**82.0**	µg/L	1	07/25/2025 20:05	242297
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:05	242297
Boron	NELAP	10.0	10.0		**4340**	µg/L	1	07/29/2025 12:47	242297
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:05	242297
Calcium	NELAP	0.200	0.200		**68.8**	mg/L	1	07/25/2025 20:05	242297
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/25/2025 20:05	242297
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/24/2025 3:20	242297
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:20	242297
Cobalt	NELAP	2.0	2.0		**2.2**	µg/L	5	07/24/2025 3:20	242297
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:20	242297
Lithium	*	10.0	10.0		**25.0**	µg/L	5	07/24/2025 3:20	242297
Molybdenum	NELAP	1.0	1.0		**273**	µg/L	5	07/24/2025 3:20	242297
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:20	242297
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:20	242297
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/23/2025 12:00	242304
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Lab ID: 25071788-008 **Client Sample ID:** MW-10

Matrix: GROUNDWATER **Collection Date:** 07/17/2025 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.93**		1	07/17/2025 11:00	R368708
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**412**	mg/L	1	07/22/2025 17:05	R368577
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25		**0.28**	mg/L	5	07/24/2025 8:39	R368676
Chloride	NELAP	0.50	4.00		**9.85**	mg/L	5	07/24/2025 8:39	R368676
Sulfate	NELAP	0.50	10.0		**119**	mg/L	5	07/24/2025 8:39	R368676
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**130**	µg/L	1	07/25/2025 20:06	242297
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:06	242297
Boron	NELAP	10.0	10.0		**303**	µg/L	1	07/29/2025 12:57	242297
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:06	242297
Calcium	NELAP	0.200	0.200		**71.8**	mg/L	1	07/25/2025 20:06	242297
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/25/2025 20:06	242297
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/24/2025 3:27	242297
Arsenic	NELAP	1.0	1.0		**4.4**	µg/L	5	07/24/2025 3:27	242297
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	07/24/2025 3:27	242297
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:27	242297
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	07/24/2025 3:27	242297
Molybdenum	NELAP	1.0	1.0		**21.0**	µg/L	5	07/24/2025 3:27	242297
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:27	242297
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:27	242297
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/23/2025 12:02	242304
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Lab ID: 25071788-009 **Client Sample ID:** Duplicate

Matrix: GROUNDWATER **Collection Date:** 07/17/2025 0:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**376**	mg/L	1	07/22/2025 17:05	R368577
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.14**	mg/L	5	07/24/2025 8:52	R368676
Chloride	NELAP	0.50	4.00		**9.83**	mg/L	5	07/24/2025 8:52	R368676
Sulfate	NELAP	0.50	10.0		**151**	mg/L	5	07/24/2025 8:52	R368676
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**21.9**	µg/L	1	07/25/2025 20:16	242297
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:16	242297
Boron	NELAP	10.0	10.0		**2730**	µg/L	1	07/29/2025 12:59	242297
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:16	242297
Calcium	NELAP	0.200	0.200		**67.2**	mg/L	1	07/25/2025 20:16	242297
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/25/2025 20:16	242297
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/24/2025 3:33	242297
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:33	242297
Cobalt	NELAP	2.0	2.0		**9.7**	µg/L	5	07/24/2025 3:33	242297
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:33	242297
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	07/24/2025 3:33	242297
Molybdenum	NELAP	1.0	1.0		**177**	µg/L	5	07/24/2025 3:33	242297
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:33	242297
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:33	242297
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/23/2025 12:04	242304
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Lab ID: 25071788-010 **Client Sample ID:** Trip Blank

Matrix: TRIP BLANK **Collection Date:** 07/22/2025 9:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**< 20**	mg/L	1	07/22/2025 17:05	R368577
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25		**ND**	mg/L	5	07/24/2025 9:04	R368676
Chloride	NELAP	0.50	4.00		**ND**	mg/L	5	07/24/2025 9:04	R368676
Sulfate	NELAP	0.50	10.0		**ND**	mg/L	5	07/24/2025 9:04	R368676
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**< 2.5**	µg/L	1	07/25/2025 20:17	242297
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:17	242297
Boron	NELAP	10.0	10.0		**< 10.0**	µg/L	1	07/25/2025 20:17	242297
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:17	242297
Calcium	NELAP	0.200	0.200		**< 0.200**	mg/L	1	07/25/2025 20:17	242297
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/25/2025 20:17	242297
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/24/2025 3:39	242297
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:39	242297
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	07/24/2025 3:39	242297
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:39	242297
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	07/24/2025 3:39	242297
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:39	242297
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:39	242297
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:39	242297
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/23/2025 12:07	242304
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

Lab ID: 25071788-011 **Client Sample ID:** Field Blank

Matrix: AQUEOUS **Collection Date:** 07/17/2025 12:13

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**< 20**	mg/L	1	07/22/2025 17:05	R368577
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25		**ND**	mg/L	5	07/24/2025 9:17	R368676
Chloride	NELAP	0.50	4.00		**ND**	mg/L	5	07/24/2025 9:17	R368676
Sulfate	NELAP	0.50	10.0		**ND**	mg/L	5	07/24/2025 9:17	R368676
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**< 2.5**	µg/L	1	07/25/2025 20:19	242297
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:19	242297
Boron	NELAP	10.0	10.0		**< 10.0**	µg/L	1	07/25/2025 20:19	242297
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/25/2025 20:19	242297
Calcium	NELAP	0.200	0.200		**< 0.200**	mg/L	1	07/25/2025 20:19	242297
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/25/2025 20:19	242297
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/24/2025 3:46	242297
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:46	242297
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	07/24/2025 3:46	242297
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:46	242297
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	07/24/2025 3:46	242297
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:46	242297
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:46	242297
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/24/2025 3:46	242297
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/23/2025 12:09	242304
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370333

Appendix 2

Laboratory Analytical Results

6.16.2025

July 21, 2025

Luke St. Mary
Sikeston Board of Municipal Utilities
107 E Malone Ave
PO Box 370
Sikeston, MO 63801
TEL: (573) 475-3119
FAX:

Illinois	100226
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NE-3 **WorkOrder:** 25061381

Dear Luke St. Mary:

TEKLAB, INC received 1 sample on 6/17/2025 9:27:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25061381
Client Project: NE-3
Report Date: 21-Jul-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	8
Receiving Check List	12
Chain of Custody	Appended

Client: Sikeston Board of Municipal Utilities **Work Order:** 25061381

Client Project: NE-3 **Report Date:** 21-Jul-25

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: Sikeston Board of Municipal Utilities **Work Order:** 25061381

Client Project: NE-3 **Report Date:** 21-Jul-25

Qualifiers

# -	Unknown hydrocarbon
B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit
E -	Value above quantitation range
H -	Holding times exceeded
I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits
M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit
R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits
T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level

Client: Sikeston Board of Municipal Utilities
Work Order: 25061381
Client Project: NE-3
Report Date: 21-Jul-25

Cooler Receipt Temp: 2.3 °C

Field pH data was provided by Gredell Engineering Resources.

Ra226/228 analyses were performed by Alliance Technical Group - Akron. See attached report for results and QC data.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Sikeston Board of Municipal Utilities **Work Order:** 25061381

Client Project: NE-3 **Report Date:** 21-Jul-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Sikeston Board of Municipal Utilities **Work Order:** 25061381

Client Project: NE-3 **Report Date:** 21-Jul-25

Lab ID: 25061381-001 **Client Sample ID:** NE-3

Matrix: AQUEOUS **Collection Date:** 06/16/2025 8:48

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.91**		1	06/16/2025 8:48	R367014
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**332**	mg/L	1	06/18/2025 11:18	R366870
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.12**	mg/L	5	06/18/2025 14:00	R366728
Chloride	NELAP	0.50	4.0	J	**3.6**	mg/L	5	06/18/2025 14:00	R366728
Sulfate	NELAP	0.50	10.0		**47.8**	mg/L	5	06/18/2025 14:00	R366728
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**326**	µg/L	1	06/18/2025 14:03	240696
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	06/18/2025 14:03	240696
Boron	NELAP	10.0	10.0		**48.8**	µg/L	1	06/18/2025 14:03	240696
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	06/18/2025 14:03	240696
Calcium	NELAP	0.200	0.200		**73.1**	mg/L	1	06/18/2025 14:03	240696
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	06/18/2025 14:03	240696
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	06/19/2025 13:08	240696
Arsenic	NELAP	1.0	1.0		**1.7**	µg/L	5	06/19/2025 13:08	240696
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	06/19/2025 13:08	240696
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	06/19/2025 13:08	240696
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	06/19/2025 13:08	240696
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	06/19/2025 13:08	240696
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	06/19/2025 13:08	240696
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	06/20/2025 16:31	240696
Results have less certainty for Mo & Tl - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	06/20/2025 12:09	240802
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	07/18/2025 14:22	R368432
Radium-228	*	0	0		**See Attached**	pci/L	1	07/18/2025 14:22	R368432

Appendix 2

Laboratory Analytical Results

7.16.2025

August 25, 2025

Luke St. Mary
Sikeston Board of Municipal Utilities
107 E Malone Ave
PO Box 370
Sikeston, MO 63801
TEL: (573) 475-3119
FAX:

Illinois	100226
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NE-3 **WorkOrder:** 25071574

Dear Luke St. Mary:

TEKLAB, INC received 1 sample on 7/18/2025 10:00:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

Client: Sikeston Board of Municipal Utilities
Work Order: 25071574
Client Project: NE-3
Report Date: 25-Aug-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	8
Receiving Check List	14
Chain of Custody	Appended

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071574

Client Project: NE-3 **Report Date:** 25-Aug-25

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071574

Client Project: NE-3 **Report Date:** 25-Aug-25

Qualifiers

# -	Unknown hydrocarbon	B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit	E -	Value above quantitation range
H -	Holding times exceeded	I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits	M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit	R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits	T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level		

Client: Sikeston Board of Municipal Utilities
Work Order: 25071574
Client Project: NE-3
Report Date: 25-Aug-25

Cooler Receipt Temp: 0.9 °C

-001: Be per project history (ehopkins - 7/18/2025 1:43:07 PM)

Ra226/228 analyses were performed by Alliance Technical Group-Akron. See attached report for results and QC data.

Locations

Collinsville

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	jhriley@teklabinc.com

Springfield

Address	3920 Pintail Dr Springfield, IL 62711-9415
Phone	(217) 698-1004
Fax	(217) 698-1005
Email	KKlostermann@teklabinc.com

Kansas City

Address	8421 Nieman Road Lenexa, KS 66214
Phone	(913) 541-1998
Fax	(913) 541-1998
Email	jhriley@teklabinc.com

Collinsville Air

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	EHurley@teklabinc.com

Chicago

Address	1319 Butterfield Rd. Downers Grove, IL 60515
Phone	(630) 324-6855
Fax	
Email	arenner@teklabinc.com

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071574

Client Project: NE-3 **Report Date:** 25-Aug-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071574

Client Project: NE-3 **Report Date:** 25-Aug-25

Lab ID: 25071574-001 **Client Sample ID:** NE-3

Matrix: GROUNDWATER **Collection Date:** 07/16/2025 8:47

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.98**		1	07/16/2025 8:47	R368401
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**358**	mg/L	1	07/18/2025 14:41	R368434
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.10**	mg/L	5	07/18/2025 22:27	R368391
Chloride	NELAP	0.50	4.0	J	**3.8**	mg/L	5	07/18/2025 22:27	R368391
Sulfate	NELAP	0.50	10.0		**48.0**	mg/L	5	07/18/2025 22:27	R368391
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**333**	µg/L	1	07/21/2025 16:22	242135
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/21/2025 16:22	242135
Boron	NELAP	10.0	10.0		**< 10.0**	µg/L	1	07/21/2025 16:22	242135
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	07/21/2025 16:22	242135
Calcium	NELAP	0.200	0.200		**73.5**	mg/L	1	07/21/2025 16:22	242135
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	07/21/2025 16:22	242135
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	07/23/2025 18:24	242135
Arsenic	NELAP	1.0	1.0		**1.6**	µg/L	5	07/23/2025 18:24	242135
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	07/23/2025 18:24	242135
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/23/2025 18:24	242135
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	07/23/2025 18:24	242135
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/23/2025 18:24	242135
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/23/2025 18:24	242135
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	07/23/2025 18:24	242135
Results have less certainty - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	07/22/2025 12:29	242145
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370288
Radium-228	*	0	0		**See Attached**	pci/L	1	08/19/2025 14:42	R370288

Appendix 2

Laboratory Analytical Results

7.29.2025

September 02, 2025

Luke St. Mary
Sikeston Board of Municipal Utilities
107 E Malone Ave
PO Box 370
Sikeston, MO 63801
TEL: (573) 475-3119
FAX:

Illinois	100226
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NE-3 **WorkOrder:** 25072672

Dear Luke St. Mary:

TEKLAB, INC received 1 sample on 7/31/2025 10:24:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25072672
Client Project: NE-3
Report Date: 02-Sep-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
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Laboratory Results	7
Quality Control Results	8
Receiving Check List	12
Chain of Custody	Appended

Client: Sikeston Board of Municipal Utilities **Work Order:** 25072672

Client Project: NE-3 **Report Date:** 02-Sep-25

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: Sikeston Board of Municipal Utilities **Work Order:** 25072672

Client Project: NE-3 **Report Date:** 02-Sep-25

Qualifiers

- Unknown hydrocarbon

B - Analyte detected in associated Method Blank

C - RL shown is a Client Requested Quantitation Limit

E - Value above quantitation range

H - Holding times exceeded

I - Associated internal standard was outside method criteria

J - Analyte detected below quantitation limits

M - Manual Integration used to determine area response

ND - Not Detected at the Reporting Limit

R - RPD outside accepted recovery limits

S - Spike Recovery outside recovery limits

T - TIC(Tentatively identified compound)

X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25072672
Client Project: NE-3
Report Date: 02-Sep-25

Cooler Receipt Temp: 1.9 °C

Field pH data was provided by GREDELL Engineering Resources, Inc.

Ra226/228 analyses were performed by Alliance Technical Group - Akron. See attached report for results and QC data.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Sikeston Board of Municipal Utilities **Work Order:** 25072672

Client Project: NE-3 **Report Date:** 02-Sep-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Sikeston Board of Municipal Utilities **Work Order:** 25072672

Client Project: NE-3 **Report Date:** 02-Sep-25

Lab ID: 25072672-001 **Client Sample ID:** NE-3

Matrix: AQUEOUS **Collection Date:** 07/29/2025 8:17

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**7.03**		1	07/29/2025 8:17	R369384
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**378**	mg/L	1	08/05/2025 13:01	R369311
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.11**	mg/L	5	07/31/2025 17:46	R369076
Chloride	NELAP	0.50	4.0	J	**3.6**	mg/L	5	07/31/2025 17:46	R369076
Sulfate	NELAP	0.50	10.0		**44.7**	mg/L	5	07/31/2025 17:46	R369076
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**307**	µg/L	1	08/06/2025 14:48	242778
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	08/06/2025 14:48	242778
Boron	NELAP	10.0	10.0		**47.3**	µg/L	1	08/06/2025 14:48	242778
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	08/06/2025 14:48	242778
Calcium	NELAP	0.200	0.200		**75.5**	mg/L	1	08/06/2025 14:48	242778
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	08/06/2025 14:48	242778
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	08/07/2025 21:22	242778
Arsenic	NELAP	1.0	1.0		**1.4**	µg/L	5	08/11/2025 9:48	242778
Cobalt	NELAP	2.0	2.0	B	**< 2.0**	µg/L	5	08/07/2025 21:22	242778
Lead	NELAP	1.0	1.0	B	**< 1.0**	µg/L	5	08/07/2025 21:22	242778
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	08/07/2025 21:22	242778
Molybdenum	NELAP	1.0	1.0		**1.7**	µg/L	5	08/11/2025 9:48	242778
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	08/07/2025 21:22	242778
Thallium	NELAP	1.0	1.0		**1.0**	µg/L	5	08/07/2025 21:22	242778

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Results have less certainty for TL - Client Requested Quantitation Limit is below the calibration range.

Contamination present in the MBLK for Co and Pb. Sample results below the reporting limit are reportable per the TNI Standard.

SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	08/04/2025 16:47	242802
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	08/27/2025 15:15	R370588
Radium-228	*	0	0		**See Attached**	pci/L	1	08/27/2025 15:15	R370588

Appendix 2

Laboratory Analytical Results

8.14.2025

October 07, 2025

Luke St. Mary
Sikeston Board of Municipal Utilities
107 E Malone Ave
PO Box 370
Sikeston, MO 63801
TEL: (573) 475-3119
FAX:

Illinois	100226
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NE-3 **WorkOrder:** 25081371

Dear Luke St. Mary:

TEKLAB, INC received 1 sample on 8/15/2025 9:27:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	8
Receiving Check List	14
Chain of Custody	Appended

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

Qualifiers

# -	Unknown hydrocarbon	B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit	E -	Value above quantitation range
H -	Holding times exceeded	I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits	M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit	R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits	T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level		

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

Cooler Receipt Temp: 2.1 °C

Field data was provided by GREDELL Engineering Resources, Inc.

Per Ken Ewers, include Beryllium per project history. (ehurley - 8/25/2025 2:36:08 PM)

Ra226/228 analyses were performed by Alliance Technical Group-Akron. See attached report for results and QC data.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

Lab ID: 25081371-001 **Client Sample ID:** NE-3

Matrix: AQUEOUS **Collection Date:** 08/14/2025 8:29

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**7.04**		1	08/14/2025 8:29	R370257
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	29	29		**337**	mg/L	1.43	08/19/2025 11:17	R370095
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.16**	mg/L	5	08/19/2025 9:50	R370063
Chloride	NELAP	0.50	4.00		**4.46**	mg/L	5	08/19/2025 9:50	R370063
Sulfate	NELAP	0.50	10.0		**51.3**	mg/L	5	08/19/2025 9:50	R370063
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5	B	**339**	µg/L	1	08/19/2025 18:50	243590
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	08/19/2025 18:50	243590
Boron	NELAP	10.0	10.0		**54.1**	µg/L	1	08/19/2025 18:50	243590
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	08/19/2025 18:50	243590
Calcium	NELAP	0.200	0.200		**84.1**	mg/L	1	08/19/2025 18:50	243590
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	08/19/2025 18:50	243590
Sample result(s) for Ba exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	08/21/2025 18:07	243590
Arsenic	NELAP	1.0	1.0		**1.8**	µg/L	5	08/21/2025 18:07	243590
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	08/21/2025 18:07	243590
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	08/21/2025 18:07	243590
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	08/21/2025 18:07	243590
Molybdenum	NELAP	1.0	1.0		**1.2**	µg/L	5	08/21/2025 18:07	243590
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	08/21/2025 18:07	243590
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	08/21/2025 18:07	243590
Results have less certainty for Mo and Tl - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	08/19/2025 17:06	243603
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	10/03/2025 15:06	R372465
Radium-228	*	0	0		**See Attached**	pci/L	1	10/03/2025 15:06	R372465

Appendix 2

Laboratory Analytical Results

9.8.2025

October 29, 2025

Luke St. Mary
Sikeston Board of Municipal Utilities
107 E Malone Ave
PO Box 370
Sikeston, MO 63801
TEL: (573) 475-3119
FAX:

Illinois	100226
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NE-3 **WorkOrder:** 25090667

Dear Luke St. Mary:

TEKLAB, INC received 1 sample on 9/9/2025 10:09:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

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Sincerely,

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25090667
Client Project: NE-3
Report Date: 29-Oct-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	8
Receiving Check List	11
Chain of Custody	Appended

Client: Sikeston Board of Municipal Utilities **Work Order:** 25090667

Client Project: NE-3 **Report Date:** 29-Oct-25

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
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DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
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LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
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MW	Molecular weight
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ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
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Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: Sikeston Board of Municipal Utilities **Work Order:** 25090667

Client Project: NE-3 **Report Date:** 29-Oct-25

Qualifiers

# -	Unknown hydrocarbon
B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit
E -	Value above quantitation range
H -	Holding times exceeded
I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits
M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit
R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits
T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25090667
Client Project: NE-3
Report Date: 29-Oct-25

Cooler Receipt Temp: 4.1 °C

Metals selection list per project (Be in project but not on chain). (ehopkins - 9/9/2025 12:30:43 PM)

Field pH data was provided by GREDELL Engineering Resources, Inc.

Ra226/228 analyses were performed by Alliance Technical Group-Akron. See attached report for results and QC data.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Sikeston Board of Municipal Utilities **Work Order:** 25090667

Client Project: NE-3 **Report Date:** 29-Oct-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Sikeston Board of Municipal Utilities **Work Order:** 25090667

Client Project: NE-3 **Report Date:** 29-Oct-25

Lab ID: 25090667-001 **Client Sample ID:** NE-3

Matrix: AQUEOUS **Collection Date:** 09/08/2025 10:47

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.99**		1	09/08/2025 10:47	R371222
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	33	33		**404**	mg/L	1.67	09/10/2025 14:44	R371147
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.04**	mg/L	5	09/09/2025 12:03	R371001
Chloride	NELAP	0.50	4.00		**4.49**	mg/L	5	09/09/2025 12:03	R371001
Sulfate	NELAP	0.50	10.0		**59.3**	mg/L	5	09/09/2025 12:03	R371001
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**345**	µg/L	1	09/12/2025 18:37	244549
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	09/12/2025 18:37	244549
Boron	NELAP	10.0	10.0		**61.8**	µg/L	1	09/12/2025 18:37	244549
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	09/12/2025 18:37	244549
Calcium	NELAP	0.200	0.200		**90.5**	mg/L	1	09/12/2025 18:37	244549
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	09/12/2025 18:37	244549
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	09/10/2025 14:58	244549
Arsenic	NELAP	1.0	1.0		**1.5**	µg/L	5	09/10/2025 14:58	244549
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	09/10/2025 14:58	244549
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	09/10/2025 14:58	244549
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	09/10/2025 14:58	244549
Molybdenum	NELAP	1.0	1.0		**1.5**	µg/L	5	09/11/2025 9:32	244549
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	09/10/2025 14:58	244549
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	09/10/2025 14:58	244549
Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.									
Results have less certainty for Tl - Client Requested Quantitation Limit is below the calibration range.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	09/10/2025 13:01	244552
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	10/23/2025 13:06	R373671
Radium-228	*	0	0		**See Attached**	pci/L	1	10/23/2025 13:06	R373671

Appendix 2

Laboratory Analytical Results

10.7.2025

December 03, 2025

Luke St. Mary
Sikeston Board of Municipal Utilities
107 E Malone Ave
PO Box 370
Sikeston, MO 63801
TEL: (573) 475-3119
FAX:

Illinois	100226
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NE-3 **WorkOrder:** 25100713

Dear Luke St. Mary:

TEKLAB, INC received 1 sample on 10/8/2025 9:52:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

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If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004
ehurley@teklabinc.com

Report Contents

Client: Sikeston Board of Municipal Utilities **Work Order:** 25100713

Client Project: NE-3 **Report Date:** 03-Dec-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	8
Receiving Check List	14
Chain of Custody	Appended

Client: Sikeston Board of Municipal Utilities **Work Order:** 25100713

Client Project: NE-3 **Report Date:** 03-Dec-25

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
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DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: Sikeston Board of Municipal Utilities **Work Order:** 25100713

Client Project: NE-3 **Report Date:** 03-Dec-25

Qualifiers

# -	Unknown hydrocarbon	B -	Analyte detected in associated Method Blank
C -	RL shown is a Client Requested Quantitation Limit	E -	Value above quantitation range
H -	Holding times exceeded	I -	Associated internal standard was outside method criteria
J -	Analyte detected below quantitation limits	M -	Manual Integration used to determine area response
ND -	Not Detected at the Reporting Limit	R -	RPD outside accepted recovery limits
S -	Spike Recovery outside recovery limits	T -	TIC(Tentatively identified compound)
X -	Value exceeds Maximum Contaminant Level		

Case Narrative

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25100713
Client Project: NE-3
Report Date: 03-Dec-25

Cooler Receipt Temp: 2.7 °C

Beryllium is included per project history. (ehurley - 10/8/2025 5:01:50 PM)

Field pH data was provided by GREDELL Engineering Resources, Inc.

Ra226/228 analyses were performed by Alliance Technical Group - Akron. See attached report for results and QC data.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Sikeston Board of Municipal Utilities **Work Order:** 25100713

Client Project: NE-3 **Report Date:** 03-Dec-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Sikeston Board of Municipal Utilities **Work Order:** 25100713

Client Project: NE-3 **Report Date:** 03-Dec-25

Lab ID: 25100713-001 **Client Sample ID:** NE-3

Matrix: AQUEOUS **Collection Date:** 10/07/2025 10:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**7.09**		1	10/07/2025 10:05	R372715
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**362**	mg/L	1	10/09/2025 16:33	R372771
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.10**	mg/L	5	10/10/2025 18:31	R372798
Chloride	NELAP	0.50	4.0	J	**3.7**	mg/L	5	10/10/2025 18:31	R372798
Sulfate	NELAP	0.50	10.0		**57.6**	mg/L	5	10/10/2025 18:31	R372798
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**313**	µg/L	1	10/09/2025 21:04	246019
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	10/09/2025 21:04	246019
Boron	NELAP	10.0	10.0		**60.7**	µg/L	1	10/09/2025 21:04	246019
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	10/09/2025 21:04	246019
Calcium	NELAP	0.200	0.200		**82.2**	mg/L	1	10/09/2025 21:04	246019
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	10/09/2025 21:04	246019
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0	B	**< 3.0**	µg/L	5	10/09/2025 18:03	246019
Arsenic	NELAP	1.0	1.0		**1.3**	µg/L	5	10/09/2025 18:03	246019
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	10/09/2025 18:03	246019
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	10/09/2025 18:03	246019
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	10/09/2025 18:03	246019
Molybdenum	NELAP	1.0	1.0	B	**< 1.0**	µg/L	5	10/09/2025 18:03	246019
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	10/09/2025 18:03	246019
Thallium	NELAP	1.0	1.0	B	**< 1.0**	µg/L	5	10/09/2025 18:03	246019

Results have less certainty for Mo and TL - Client Requested Quantitation Limit is below the calibration range.

LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

Contamination present in the MBLK for Sb, Mo, and TL. Sample results below the reporting limit are reportable per the TNI Standard.

SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	10/10/2025 13:59	246078
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	11/25/2025 12:36	R375622
Radium-228	*	0	0		**See Attached**	pci/L	1	11/25/2025 12:36	R375622

Appendix 2

Laboratory Analytical Results

10.23.2025

December 29, 2025

Luke St. Mary
Sikeston Board of Municipal Utilities
107 E Malone Ave
PO Box 370
Sikeston, MO 63801
TEL: (573) 475-3119
FAX:

Illinois	100226
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NE-3 **WorkOrder:** 25102245

Dear Luke St. Mary:

TEKLAB, INC received 1 sample on 10/24/2025 8:57:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004
ehurley@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25102245
Client Project: NE-3
Report Date: 29-Dec-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	8
Receiving Check List	15
Chain of Custody	Appended

Client: Sikeston Board of Municipal Utilities **Work Order:** 25102245

Client Project: NE-3 **Report Date:** 29-Dec-25

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: Sikeston Board of Municipal Utilities **Work Order:** 25102245

Client Project: NE-3 **Report Date:** 29-Dec-25

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Client: Sikeston Board of Municipal Utilities
Work Order: 25102245
Client Project: NE-3
Report Date: 29-Dec-25

Cooler Receipt Temp: 0.7 °C

Beryllium is included per project history. (ehurley - 10/24/2025 11:54:36 AM)

Field pH data was provided by GREDELL Engineering Resources, Inc.

Ra226/228 analyses were performed by Alliance Technical Group - Akron. See attached report for results and QC data.

Locations

Collinsville
Address 5445 Horseshoe Lake Road, Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville
Address 120 United Drive, Collinsville, IL 62234-7433
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Fax
Email jhriley@teklabinc.com

Springfield
Address 3920 Pintail Dr, Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City
Address 8421 Nieman Road, Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air
Address 5445 Horseshoe Lake Road, Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago
Address 1319 Butterfield Rd., Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Sikeston Board of Municipal Utilities **Work Order:** 25102245

Client Project: NE-3 **Report Date:** 29-Dec-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Sikeston Board of Municipal Utilities **Work Order:** 25102245

Client Project: NE-3 **Report Date:** 29-Dec-25

Lab ID: 25102245-001 **Client Sample ID:** NE-3

Matrix: AQUEOUS **Collection Date:** 10/23/2025 13:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**7.04**		1	10/23/2025 13:23	R373757
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**356**	mg/L	1	10/27/2025 12:18	R373690
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.07**	mg/L	5	10/24/2025 21:14	R373569
Chloride	NELAP	0.50	4.0	J	**3.4**	mg/L	5	10/24/2025 21:14	R373569
Sulfate	NELAP	0.50	10.0		**54.6**	mg/L	5	10/24/2025 21:14	R373569
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**320**	µg/L	1	10/28/2025 14:12	246893
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	10/28/2025 14:12	246893
Boron	NELAP	10.0	10.0		**56.1**	µg/L	1	10/28/2025 14:12	246893
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	10/28/2025 14:12	246893
Calcium	NELAP	0.200	0.200		**83.7**	mg/L	1	10/28/2025 14:12	246893
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	10/28/2025 14:12	246893
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0		**< 3.0**	µg/L	5	10/27/2025 16:11	246893
Arsenic	NELAP	1.0	1.0		**1.5**	µg/L	5	10/27/2025 16:11	246893
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	10/27/2025 16:11	246893
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	10/27/2025 16:11	246893
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	10/27/2025 16:11	246893
Molybdenum	NELAP	1.0	1.0		**1.4**	µg/L	5	10/27/2025 16:11	246893
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	10/27/2025 16:11	246893
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	10/27/2025 16:11	246893
Results have less certainty - Client Requested Quantitation Limit is below the method limit of quantitation.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	10/28/2025 15:38	246897
EPA 903.0/904.0, RADIUM 226/228									
Radium-226	*	0	0		**See Attached**	pci/L	1	12/12/2025 13:57	R376807
Radium-228	*	0	0		**See Attached**	pci/L	1	12/12/2025 13:57	R376807

Appendix 2

Laboratory Analytical Results

12.10.2025

January 23, 2026

Luke St. Mary
Sikeston Board of Municipal Utilities
107 E Malone Ave
PO Box 370
Sikeston, MO 63801
TEL: (573) 475-3119
FAX:

Illinois	100226
Kansas	E-10374
Kansas	E-10438
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NE-3 **WorkOrder:** 25121052

Dear Luke St. Mary:

TEKLAB, INC received 1 sample on 12/11/2025 12:40:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004
ehurley@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25121052
Client Project: NE-3
Report Date: 23-Jan-26

This reporting package includes the following:

Cover Letter	1
Report Contents	2
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Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	8
Receiving Check List	12
Chain of Custody	Appended

Client: Sikeston Board of Municipal Utilities **Work Order:** 25121052

Client Project: NE-3 **Report Date:** 23-Jan-26

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: Sikeston Board of Municipal Utilities **Work Order:** 25121052

Client Project: NE-3 **Report Date:** 23-Jan-26

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Client: Sikeston Board of Municipal Utilities
Work Order: 25121052
Client Project: NE-3
Report Date: 23-Jan-26

Cooler Receipt Temp: 1.3 °C

Beryllium is included per project history. EAH 12/12/25

Ra226/228 analyses were performed by Alliance Technical Group - Akron. See attached report for results and QC data.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville

Address 120 United Drive
Collinsville, IL 62234-7433
Phone (618) 344-1004
Fax
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

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Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Sikeston Board of Municipal Utilities **Work Order:** 25121052

Client Project: NE-3 **Report Date:** 23-Jan-26

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2027	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	1/31/2026	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2026	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kansas	KDHE	E-92716		1/31/2027	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2027	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Sikeston Board of Municipal Utilities **Work Order:** 25121052

Client Project: NE-3 **Report Date:** 23-Jan-26

Lab ID: 25121052-001 **Client Sample ID:** NE-3

Matrix: AQUEOUS **Collection Date:** 12/10/2025 10:49

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.86**		1	12/10/2025 10:49	R376244
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**346**	mg/L	1	12/12/2025 14:32	R376165
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.09**	mg/L	5	12/12/2025 9:35	R376146
Chloride	NELAP	0.50	4.0	J	**2.3**	mg/L	5	12/12/2025 9:35	R376146
Sulfate	NELAP	0.50	10.0		**41.7**	mg/L	5	12/12/2025 9:35	R376146
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**328**	µg/L	1	12/18/2025 15:49	249171
Beryllium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	12/18/2025 15:49	249171
Boron	NELAP	10.0	10.0		**32.8**	µg/L	1	12/18/2025 15:49	249171
Cadmium	NELAP	1.0	1.0		**< 1.0**	µg/L	1	12/18/2025 15:49	249171
Calcium	NELAP	0.200	0.200		**84.0**	mg/L	1	12/18/2025 15:49	249171
Chromium	NELAP	4.0	4.0		**< 4.0**	µg/L	1	12/18/2025 15:49	249171
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	3.0	3.0	B	**< 3.0**	µg/L	5	12/17/2025 15:34	249171
Arsenic	NELAP	1.0	1.0		**1.7**	µg/L	5	12/17/2025 15:34	249171
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	12/17/2025 15:34	249171
Lead	NELAP	1.0	1.0		**< 1.0**	µg/L	5	12/17/2025 15:34	249171
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	12/17/2025 15:34	249171
Molybdenum	NELAP	1.0	1.0		**1.2**	µg/L	5	12/26/2025 20:56	249171
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	12/17/2025 15:34	249171
Thallium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	12/17/2025 15:34	249171

Results have less certainty for Tl - Client Requested Quantitation Limit is below the calibration range.

LCS recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.

SW-846 7470A (TOTAL)									
Mercury	NELAP	0.20	0.20		**< 0.20**	µg/L	1	12/15/2025 17:40	249253
EPA 903.0/904.0, RADIUM 226/228									
Combined 226/228	*	2.00	2.00		**1.48**	pci/L	1	01/19/2026 8:07	R377909
Combined 226/228 Uncertainty	*	0	0		**0.57**	+/-	1	01/19/2026 8:07	R377909
Radium-226	*	1.00	1.00		**0.41**	pci/L	1	01/19/2026 8:07	R377909
Radium-226 Uncertainty	*	0	0		**0.08**	+/-	1	01/19/2026 8:07	R377909
Radium-228	*	1.00	1.00		**1.07**	pci/L	1	01/15/2026 13:53	R377909
Radium-228 Uncertainty	*	0	0		**0.49**	+/-	1	01/15/2026 13:53	R377909

Appendix 2

Laboratory Analytical Results

3.21.2026

April 01, 2026

Luke St. Mary
Sikeston Board of Municipal Utilities
107 E Malone Ave
PO Box 370
Sikeston, MO 63801
TEL: (573) 475-3119
FAX:

Illinois	100467
Kansas	E-10374
Kansas	E-10438
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Fly Ash Pond (FAP) **WorkOrder:** 26032108

Dear Luke St. Mary:

TEKLAB, INC received 11 samples on 3/24/2026 9:44:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004
ehurley@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 26032108
Client Project: Fly Ash Pond (FAP)
Report Date: 01-Apr-26

This reporting package includes the following:

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Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	18
Receiving Check List	23
Chain of Custody	Appended

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 26032108
Client Project: Fly Ash Pond (FAP)
Report Date: 01-Apr-26

Cooler Receipt Temp: 1.6 °C

Field data was provided by Gredell Engineering Resources, Inc.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville

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Collinsville, IL 62234-7433
Phone (618) 344-1004
Fax
Email jhriley@teklabinc.com

Springfield

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Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

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Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100467	NELAP	1/31/2027	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2026	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2026	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kansas	KDHE	E-92716		1/31/2027	Collinsville
Kentucky	KWLCP	KY98050		12/31/2026	Collinsville
Kentucky	KWLCP	KY98006		12/31/2026	Collinsville
Kentucky	UST	0073		1/31/2027	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Lab ID: 26032108-001 **Client Sample ID:** MW-1R

Matrix: GROUNDWATER **Collection Date:** 03/21/2026 15:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.44**		1	03/21/2026 15:25	R381305
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**248**	mg/L	1	03/25/2026 14:28	R381238
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.11**	mg/L	5	03/25/2026 15:56	R381128
Chloride	NELAP	0.50	4.00		**6.64**	mg/L	5	03/25/2026 15:56	R381128
Sulfate	NELAP	0.50	10.0		**88.5**	mg/L	5	03/25/2026 15:56	R381128
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**50.4**	µg/L	1	03/25/2026 19:06	253692
Boron	NELAP	10.0	10.0		**1760**	µg/L	1	03/25/2026 19:06	253692
Calcium	NELAP	0.200	0.200		**52.7**	mg/L	1	03/25/2026 19:06	253692
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Arsenic	NELAP	1.0	1.0		**1.0**	µg/L	5	03/28/2026 10:54	253692
Cobalt	NELAP	2.0	2.0		**5.5**	µg/L	5	03/28/2026 10:54	253692
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	03/28/2026 10:54	253692
Molybdenum	NELAP	1.0	1.0		**247**	µg/L	5	03/28/2026 10:54	253692
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 10:54	253692

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Lab ID: 26032108-002 **Client Sample ID:** MW-2

Matrix: GROUNDWATER **Collection Date:** 03/21/2026 8:29

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.18**		1	03/21/2026 8:29	R381305
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**74**	mg/L	1	03/25/2026 14:28	R381238
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.12**	mg/L	5	03/25/2026 16:09	R381128
Chloride	NELAP	0.50	4.0	J	**3.3**	mg/L	5	03/25/2026 16:09	R381128
Sulfate	NELAP	0.50	10.0		**10.7**	mg/L	5	03/25/2026 16:09	R381128
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**128**	µg/L	1	03/25/2026 19:08	253692
Boron	NELAP	10.0	10.0		**27.7**	µg/L	1	03/25/2026 19:08	253692
Calcium	NELAP	0.200	0.200		**14.8**	mg/L	1	03/25/2026 19:08	253692
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 11:01	253692
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	03/28/2026 11:01	253692
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	03/28/2026 11:01	253692
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 11:01	253692
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 11:01	253692

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Lab ID: 26032108-003 **Client Sample ID:** MW-3

Matrix: GROUNDWATER **Collection Date:** 03/21/2026 12:39

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.30**		1	03/21/2026 12:39	R381305
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**90**	mg/L	1	03/25/2026 14:28	R381238
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.12**	mg/L	5	03/25/2026 16:22	R381128
Chloride	NELAP	0.50	4.0	J	**1.2**	mg/L	5	03/25/2026 16:22	R381128
Sulfate	NELAP	0.50	10	J	**9.3**	mg/L	5	03/25/2026 16:22	R381128
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**84.7**	µg/L	1	03/25/2026 19:10	253692
Boron	NELAP	10.0	10.0		**16.0**	µg/L	1	03/25/2026 19:10	253692
Calcium	NELAP	0.200	0.200		**13.8**	mg/L	1	03/25/2026 19:10	253692
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:23	253692
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	03/28/2026 13:23	253692
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	03/28/2026 13:23	253692
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:23	253692
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:23	253692

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Lab ID: 26032108-004 **Client Sample ID:** MW-4

Matrix: GROUNDWATER **Collection Date:** 03/21/2026 11:55

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**7.19**		1	03/21/2026 11:55	R381305
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**460**	mg/L	1	03/25/2026 14:57	R381238
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25		**ND**	mg/L	5	03/25/2026 16:34	R381128
Chloride	NELAP	0.50	4.00		**23.0**	mg/L	5	03/25/2026 16:34	R381128
Sulfate	NELAP	0.50	10.0		**153**	mg/L	5	03/25/2026 16:34	R381128
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**107**	µg/L	1	03/25/2026 19:22	253692
Boron	NELAP	10.0	10.0		**955**	µg/L	1	03/25/2026 19:22	253692
Calcium	NELAP	0.200	0.200		**99.4**	mg/L	1	03/25/2026 19:22	253692
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 11:09	253692
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	03/28/2026 11:09	253692
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	03/28/2026 11:09	253692
Molybdenum	NELAP	1.0	1.0		**9.5**	µg/L	5	03/28/2026 11:09	253692
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 11:09	253692

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Lab ID: 26032108-005 **Client Sample ID:** NE-3

Matrix: GROUNDWATER **Collection Date:** 03/21/2026 10:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.99**		1	03/21/2026 10:51	R381305
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**342**	mg/L	1	03/25/2026 14:57	R381238
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.11**	mg/L	5	03/25/2026 16:47	R381128
Chloride	NELAP	0.50	4.0	J	**1.8**	mg/L	5	03/25/2026 16:47	R381128
Sulfate	NELAP	0.50	10.0		**41.7**	mg/L	5	03/25/2026 16:47	R381128
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**361**	µg/L	1	03/25/2026 19:24	253692
Boron	NELAP	10.0	10.0		**48.2**	µg/L	1	03/25/2026 19:24	253692
Calcium	NELAP	0.200	0.200		**83.2**	mg/L	1	03/25/2026 19:24	253692
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Arsenic	NELAP	1.0	1.0		**1.4**	µg/L	5	03/28/2026 12:33	253692
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	03/28/2026 12:33	253692
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	03/28/2026 12:33	253692
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 12:33	253692
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 12:33	253692

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Lab ID: 26032108-006 **Client Sample ID:** MW-7

Matrix: GROUNDWATER **Collection Date:** 03/21/2026 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**7.17**		1	03/21/2026 13:50	R381305
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**654**	mg/L	1	03/25/2026 14:57	R381238
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25		**0.64**	mg/L	5	03/25/2026 17:00	R381128
Chloride	NELAP	0.50	4.00		**19.0**	mg/L	5	03/25/2026 17:00	R381128
Sulfate	NELAP	0.50	10.0		**362**	mg/L	5	03/25/2026 17:00	R381128
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**82.1**	µg/L	1	03/25/2026 19:25	253692
Boron	NELAP	10.0	10.0		**4380**	µg/L	1	03/25/2026 19:25	253692
Calcium	NELAP	0.200	0.200		**126**	mg/L	1	03/25/2026 19:25	253692
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 12:41	253692
Cobalt	NELAP	2.0	2.0		**2.3**	µg/L	5	03/28/2026 12:41	253692
Lithium	*	10.0	10.0		**81.3**	µg/L	5	03/28/2026 12:41	253692
Molybdenum	NELAP	1.0	1.0		**286**	µg/L	5	03/28/2026 12:41	253692
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 12:41	253692

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Lab ID: 26032108-007 **Client Sample ID:** MW-9

Matrix: GROUNDWATER **Collection Date:** 03/21/2026 14:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**6.79**		1	03/21/2026 14:36	R381305
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**444**	mg/L	1	03/25/2026 14:57	R381238
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25		**0.49**	mg/L	5	03/25/2026 17:12	R381128
Chloride	NELAP	0.50	4.00		**10.5**	mg/L	5	03/25/2026 17:12	R381128
Sulfate	NELAP	0.50	10.0		**174**	mg/L	5	03/25/2026 17:12	R381128
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**85.1**	µg/L	1	03/25/2026 19:27	253692
Boron	NELAP	10.0	10.0		**3310**	µg/L	1	03/25/2026 19:27	253692
Calcium	NELAP	0.200	0.200		**79.9**	mg/L	1	03/25/2026 19:27	253692
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 12:48	253692
Cobalt	NELAP	2.0	2.0		**2.5**	µg/L	5	03/28/2026 12:48	253692
Lithium	*	10.0	10.0		**26.9**	µg/L	5	03/28/2026 12:48	253692
Molybdenum	NELAP	1.0	1.0		**146**	µg/L	5	03/28/2026 12:48	253692
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 12:48	253692

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Lab ID: 26032108-008 **Client Sample ID:** MW-10

Matrix: GROUNDWATER **Collection Date:** 03/21/2026 9:51

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9040B FIELD									
pH	*	0	1.00		**7.01**		1	03/21/2026 9:51	R381305
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**396**	mg/L	1	03/25/2026 14:57	R381238
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.24**	mg/L	5	03/25/2026 18:03	R381128
Chloride	NELAP	0.50	4.00		**14.6**	mg/L	5	03/25/2026 18:03	R381128
Sulfate	NELAP	0.50	10.0		**108**	mg/L	5	03/25/2026 18:03	R381128
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**128**	µg/L	1	03/25/2026 19:29	253692
Boron	NELAP	10.0	10.0		**241**	µg/L	1	03/25/2026 19:29	253692
Calcium	NELAP	0.200	0.200		**76.4**	mg/L	1	03/25/2026 19:29	253692
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Arsenic	NELAP	1.0	1.0		**5.6**	µg/L	5	03/28/2026 12:55	253692
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	03/28/2026 12:55	253692
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	03/28/2026 12:55	253692
Molybdenum	NELAP	1.0	1.0		**16.9**	µg/L	5	03/28/2026 12:55	253692
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 12:55	253692

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Lab ID: 26032108-009 **Client Sample ID:** Duplicate

Matrix: GROUNDWATER **Collection Date:** 03/21/2026 0:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**68**	mg/L	1	03/25/2026 14:57	R381238
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25	J	**0.10**	mg/L	5	03/25/2026 18:16	R381128
Chloride	NELAP	0.50	4.0	J	**3.9**	mg/L	5	03/25/2026 18:16	R381128
Sulfate	NELAP	0.50	10.0		**11.1**	mg/L	5	03/25/2026 18:16	R381128
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**126**	µg/L	1	03/25/2026 19:30	253692
Boron	NELAP	10.0	10.0		**29.3**	µg/L	1	03/25/2026 19:30	253692
Calcium	NELAP	0.200	0.200		**14.5**	mg/L	1	03/25/2026 19:30	253692
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:02	253692
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	03/28/2026 13:02	253692
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	03/28/2026 13:02	253692
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:02	253692
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:02	253692

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Lab ID: 26032108-010 **Client Sample ID:** Trip Blank

Matrix: GROUNDWATER **Collection Date:** 03/24/2026 9:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**< 20**	mg/L	1	03/25/2026 15:20	R381238
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25		**ND**	mg/L	5	03/25/2026 18:28	R381128
Chloride	NELAP	0.50	4.00		**ND**	mg/L	5	03/25/2026 18:28	R381128
Sulfate	NELAP	0.50	10.0		**ND**	mg/L	5	03/25/2026 18:28	R381128
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**< 2.5**	µg/L	1	03/25/2026 19:32	253692
Boron	NELAP	10.0	10.0		**< 10.0**	µg/L	1	03/25/2026 19:32	253692
Calcium	NELAP	0.200	0.200		**< 0.200**	mg/L	1	03/25/2026 19:32	253692
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:09	253692
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	03/28/2026 13:09	253692
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	03/28/2026 13:09	253692
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:09	253692
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:09	253692

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

Lab ID: 26032108-011 **Client Sample ID:** Field Blank

Matrix: GROUNDWATER **Collection Date:** 03/21/2026 15:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (TOTAL) 2020									
Total Dissolved Solids	NELAP	20	20		**< 20**	mg/L	1	03/25/2026 15:20	R381238
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY									
Fluoride	NELAP	0.02	0.25		**ND**	mg/L	5	03/25/2026 19:06	R381128
Chloride	NELAP	0.50	4.00		**ND**	mg/L	5	03/25/2026 19:06	R381128
Sulfate	NELAP	0.50	10.0		**ND**	mg/L	5	03/25/2026 19:06	R381128
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Barium	NELAP	2.5	2.5		**< 2.5**	µg/L	1	03/25/2026 19:33	253692
Boron	NELAP	10.0	10.0		**< 10.0**	µg/L	1	03/25/2026 19:33	253692
Calcium	NELAP	0.200	0.200		**< 0.200**	mg/L	1	03/25/2026 19:33	253692
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Arsenic	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:16	253692
Cobalt	NELAP	2.0	2.0		**< 2.0**	µg/L	5	03/28/2026 13:16	253692
Lithium	*	10.0	10.0		**< 10.0**	µg/L	5	03/28/2026 13:16	253692
Molybdenum	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:16	253692
Selenium	NELAP	1.0	1.0		**< 1.0**	µg/L	5	03/28/2026 13:16	253692

Results have less certainty for Mo - Client Requested Quantitation Limit is below the calibration range.

Appendix 3

Laboratory Quality Assurance/
Quality Control Data

Appendix 3

Laboratory Quality Assurance/
Quality Control Data
7.17.2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R368577 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	07/22/2025
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	07/22/2025

Batch R368577 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20	S	**276**	250.0	0	110.4	90	110	07/22/2025
Total Dissolved Solids		20		**246**	250.0	0	98.4	90	110	07/22/2025

Batch R368577 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25070001-098ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**524**				526.0	0.38	07/22/2025

Batch R368577 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25071736-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		200		**20500**				20960	2.12	07/22/2025

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R368676 **SampType:** MBLK Units **mg/L**
SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**ND**	0.0040	0	0	0	100	07/24/2025
Chloride		0.50		**ND**	0.1000	0	0	0	100	07/24/2025
Sulfate		1.00		**ND**	0.0990	0	0	0	100	07/24/2025

Batch R368676 **SampType:** LCS Units **mg/L**
SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**1.02**	1.000	0	102.4	90	110	07/24/2025
Chloride		0.50		**20.4**	20.00	0	102.1	90	110	07/24/2025
Sulfate		1.00		**19.2**	20.00	0	95.9	90	110	07/24/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R368676 **SampType:** MS Units **mg/L**

SampID: 25070001-055AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.8**	10.00	0.3650	104.3	80	120	07/24/2025
Chloride		5.00		**251**	200.0	38.40	106.2	80	120	07/24/2025
Sulfate		10.0		**486**	200.0	275.5	105.0	80	120	07/24/2025

Batch R368676 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25070001-055AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.8**	10.00	0.3650	104.5	10.80	0.19	07/24/2025
Chloride		5.00		**251**	200.0	38.40	106.4	250.7	0.18	07/24/2025
Sulfate		10.0		**489**	200.0	275.5	106.6	485.6	0.64	07/24/2025

Batch R368676 **SampType:** MS Units **mg/L**

SampID: 25070001-056AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.9**	10.00	0.4680	104.1	80	120	07/24/2025
Chloride		5.00		**223**	200.0	13.66	104.6	80	120	07/24/2025
Sulfate		10.0		**237**	200.0	40.95	98.2	80	120	07/24/2025

Batch R368676 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25070001-056AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.9**	10.00	0.4680	104.0	10.88	0.07	07/24/2025
Chloride		5.00		**224**	200.0	13.66	104.9	222.9	0.28	07/24/2025
Sulfate		10.0		**237**	200.0	40.95	98.2	237.4	0.01	07/24/2025

Batch R368676 **SampType:** MS Units **mg/L**

SampID: 25070001-068AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.7**	10.00	0.3150	103.9	80	120	07/24/2025
Chloride		5.00		**228**	200.0	17.64	105.1	80	120	07/24/2025
Sulfate		10.0		**869**	200.0	655.3	106.7	80	120	07/24/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R368676 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25070001-068AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.7**	10.00	0.3150	103.6	10.70	0.32	07/24/2025
Chloride		5.00		**228**	200.0	17.64	105.1	227.9	0.03	07/24/2025
Sulfate		10.0		**866**	200.0	655.3	105.5	868.7	0.27	07/24/2025

Batch R368676 **SampType:** MS Units **mg/L**

SampID: 25071773-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.8**	10.00	0.3210	104.3	80	120	07/24/2025
Chloride		5.00		**227**	200.0	17.46	105.0	80	120	07/24/2025
Sulfate		10.0		**538**	200.0	324.2	106.7	80	120	07/24/2025

Batch R368676 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25071773-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.7**	10.00	0.3210	103.4	10.75	0.90	07/24/2025
Chloride		5.00		**226**	200.0	17.46	104.4	227.5	0.52	07/24/2025
Sulfate		10.0		**531**	200.0	324.2	103.3	537.6	1.25	07/24/2025

Batch R368676 **SampType:** MS Units **mg/L**

SampID: 25071809-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**11.0**	10.00	0.5070	105.0	80	120	07/24/2025
Chloride		5.00		**352**	200.0	137.2	107.6	80	120	07/24/2025

Batch R368676 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25071809-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.9**	10.00	0.5070	104.2	11.01	0.74	07/24/2025
Chloride		5.00		**350**	200.0	137.2	106.6	352.4	0.59	07/24/2025

Batch R368676 **SampType:** MS Units **mg/L**

SampID: 25071880-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**11.0**	10.00	0.3480	106.8	80	120	07/24/2025
Chloride		5.00		**224**	200.0	13.95	105.2	80	120	07/24/2025
Sulfate		10.0		**199**	200.0	5.736	96.7	80	120	07/24/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R368676 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25071880-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**11.0**	10.00	0.3480	106.1	11.02	0.58	07/24/2025
Chloride		5.00		**223**	200.0	13.95	104.6	224.4	0.54	07/24/2025
Sulfate		10.0		**198**	200.0	5.736	96.3	199.2	0.46	07/24/2025

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 242297 **SampType:** MBLK Units **µg/L**

SampID: MBLK-242297

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**< 2.5**	0.7000	0	0	-100	100	07/29/2025
Barium		2.5		**< 2.5**	0.7000	0	0	-100	100	07/25/2025
Beryllium		0.5		**< 0.5**	0.2000	0	0	-100	100	07/29/2025
Beryllium		0.5	J	**0.2**	0.2000	0	100.0	-100	100	07/25/2025
Boron		20.0		**< 20.0**	9.000	0	0	-100	100	07/29/2025
Cadmium		2.0		**< 2.0**	0.5000	0	0	-100	100	07/25/2025
Cadmium		2.0		**< 2.0**	0.5000	0	0	-100	100	07/29/2025
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	07/25/2025
Chromium		5.0		**< 5.0**	2.800	0	0	-100	100	07/25/2025
Chromium		5.0		**< 5.0**	2.800	0	0	-100	100	07/29/2025

Batch 242297 **SampType:** LCS Units **µg/L**

SampID: LCS-242297

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**4180**	4000	0	104.5	85	115	07/25/2025
Barium		2.5		**4190**	4000	0	104.8	85	115	07/29/2025
Beryllium		0.5		**99.7**	100.0	0	99.7	85	115	07/29/2025
Beryllium		0.5		**98.4**	100.0	0	98.4	85	115	07/25/2025
Boron		20.0		**993**	1000	0	99.3	85	115	07/29/2025
Cadmium		2.0		**101**	100.0	0	101.2	85	115	07/29/2025
Cadmium		2.0		**105**	100.0	0	105.1	85	115	07/25/2025
Calcium		0.100		**5.01**	5.000	0	100.2	85	115	07/25/2025
Chromium		5.0		**405**	400.0	0	101.2	85	115	07/25/2025
Chromium		5.0		**409**	400.0	0	102.4	85	115	07/29/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 242297 **SampType:** MS Units µg/L

SampID: 25071788-002CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**4060**	4000	184.7	96.9	75	125	07/25/2025
Beryllium		0.5		**92.8**	100.0	0	92.8	75	125	07/25/2025
Boron		20.0		**1080**	1000	59.80	102.2	75	125	07/29/2025
Cadmium		2.0		**95.0**	100.0	0	95.0	75	125	07/25/2025
Calcium		0.100	S	**21.9**	5.000	18.19	73.4	75	125	07/25/2025
Chromium		5.0		**378**	400.0	0	94.5	75	125	07/25/2025

Batch 242297 **SampType:** MSD Units µg/L RPD Limit **20**

SampID: 25071788-002CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		2.5		**4160**	4000	184.7	99.4	4060	2.43	07/25/2025
Beryllium		0.5		**94.3**	100.0	0	94.3	92.80	1.60	07/25/2025
Boron		20.0		**1090**	1000	59.80	103.3	1082	1.04	07/29/2025
Cadmium		2.0		**97.9**	100.0	0	97.9	95.00	3.01	07/25/2025
Calcium		0.100		**22.8**	5.000	18.19	92.0	21.86	4.17	07/25/2025
Chromium		5.0		**386**	400.0	0	96.5	377.9	2.15	07/25/2025

Batch 242297 **SampType:** MS Units µg/L

SampID: 25071788-011CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**3870**	4000	0	96.8	75	125	07/25/2025
Beryllium		0.5		**94.1**	100.0	0	94.1	75	125	07/25/2025
Boron		20.0		**928**	1000	0	92.8	75	125	07/25/2025
Cadmium		2.0		**94.7**	100.0	0	94.7	75	125	07/25/2025
Calcium		0.100		**4.84**	5.000	0	96.7	75	125	07/25/2025
Chromium		5.0		**383**	400.0	0	95.8	75	125	07/25/2025

Batch 242297 **SampType:** MSD Units µg/L RPD Limit **20**

SampID: 25071788-011CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		2.5		**3930**	4000	0	98.2	3870	1.54	07/25/2025
Beryllium		0.5		**95.8**	100.0	0	95.8	94.10	1.79	07/25/2025
Boron		20.0		**951**	1000	0	95.1	928.0	2.47	07/25/2025
Cadmium		2.0		**96.7**	100.0	0	96.7	94.70	2.09	07/25/2025
Calcium		0.100		**4.85**	5.000	0	96.9	4.836	0.23	07/25/2025
Chromium		5.0		**391**	400.0	0	97.8	383.4	1.99	07/25/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 242297 **SampType:** MBLK Units µg/L

SampID: MBLK-242297

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	07/23/2025
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	07/23/2025
Cobalt		1.0		**< 1.0**	0.1150	0	0	-100	100	07/23/2025
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	07/23/2025
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	07/23/2025
Molybdenum		1.5		**< 1.5**	0.6000	0	0	-100	100	07/23/2025
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	07/23/2025
Thallium		2.0		**< 2.0**	0.9500	0	0	-100	100	07/23/2025

Batch 242297 **SampType:** LCS Units µg/L

SampID: LCS-242297

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**1100**	1000	0	109.9	80	120	07/24/2025
Arsenic		1.0		**1040**	1000	0	103.7	80	120	07/24/2025
Cobalt		1.0		**886**	1000	0	88.6	80	120	07/24/2025
Lead		1.0		**979**	1000	0	97.9	80	120	07/24/2025
Lithium	*	3.0		**956**	1000	0	95.6	80	120	07/24/2025
Molybdenum		1.5		**1030**	1000	0	102.6	80	120	07/24/2025
Selenium		1.0		**1040**	1000	0	104.4	80	120	07/24/2025
Thallium		2.0		**491**	500.0	0	98.2	80	120	07/24/2025

Batch 242297 **SampType:** MS Units µg/L

SampID: 25071788-002CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**1070**	1000	0	107.0	75	125	07/24/2025
Arsenic		1.0		**976**	1000	0	97.6	75	125	07/24/2025
Cobalt		1.0		**824**	1000	0	82.4	75	125	07/24/2025
Lead		1.0		**965**	1000	0	96.5	75	125	07/24/2025
Lithium	*	3.0		**951**	1000	0	95.1	75	125	07/24/2025
Molybdenum		1.5		**993**	1000	0	99.3	75	125	07/24/2025
Selenium		1.0		**1000**	1000	1.924	100.0	75	125	07/24/2025
Thallium		2.0		**476**	500.0	0	95.3	75	125	07/24/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 242297 **SampType:** MSD Units µg/L RPD Limit 20

SampID: 25071788-002CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		**1070**	1000	0	106.8	1070	0.21	07/24/2025
Arsenic		1.0		**999**	1000	0	99.9	975.6	2.39	07/24/2025
Cobalt		1.0		**852**	1000	0	85.2	824.5	3.30	07/24/2025
Lead		1.0		**947**	1000	0	94.7	965.0	1.89	07/24/2025
Lithium	*	3.0		**933**	1000	0	93.3	950.6	1.81	07/24/2025
Molybdenum		1.5		**1010**	1000	0	101.2	993.0	1.86	07/24/2025
Selenium		1.0		**1030**	1000	1.924	102.6	1002	2.58	07/24/2025
Thallium		2.0		**478**	500.0	0	95.6	476.3	0.30	07/24/2025

Batch 242297 **SampType:** MS Units µg/L

SampID: 25071788-011CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**1060**	1000	0	105.6	75	125	07/24/2025
Arsenic		1.0		**1010**	1000	0	101.1	75	125	07/24/2025
Cobalt		1.0		**839**	1000	0	83.9	75	125	07/24/2025
Lead		1.0		**968**	1000	0	96.8	75	125	07/24/2025
Lithium	*	3.0		**952**	1000	0	95.2	75	125	07/24/2025
Molybdenum		1.5		**1000**	1000	0	100.1	75	125	07/24/2025
Selenium		1.0		**1050**	1000	0	105.1	75	125	07/24/2025
Thallium		2.0		**481**	500.0	0	96.3	75	125	07/24/2025

Batch 242297 **SampType:** MSD Units µg/L RPD Limit 20

SampID: 25071788-011CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		**1120**	1000	0	111.8	1056	5.76	07/24/2025
Arsenic		1.0		**1030**	1000	0	102.6	1011	1.46	07/24/2025
Cobalt		1.0		**868**	1000	0	86.8	839.2	3.39	07/24/2025
Lead		1.0		**991**	1000	0	99.1	968.5	2.32	07/24/2025
Lithium	*	3.0		**977**	1000	0	97.7	952.1	2.57	07/24/2025
Molybdenum		1.5		**1050**	1000	0	105.0	1001	4.78	07/24/2025
Selenium		1.0		**1070**	1000	0	107.0	1051	1.81	07/24/2025
Thallium		2.0		**495**	500.0	0	99.0	481.5	2.81	07/24/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071788

Client Project: Fly Ash Pond (FAP) **Report Date:** 29-Aug-25

SW-846 7470A (TOTAL)

Batch 242304 **SampType:** MBLK Units **µg/L**

SampID: MBLK-242304

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	07/23/2025

Batch 242304 **SampType:** LCS Units **µg/L**

SampID: LCS-242304

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**5.23**	5.000	0	104.7	85	115	07/23/2025

Batch 242304 **SampType:** MS Units **µg/L**

SampID: 25071788-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**5.12**	5.000	0	102.4	75	125	07/23/2025

Batch 242304 **SampType:** MSD Units **µg/L** RPD Limit **15**

SampID: 25071788-001CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20		**5.09**	5.000	0	101.9	5.121	0.55	07/23/2025

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25071788
Client Project: Fly Ash Pond (FAP)
Report Date: 29-Aug-25

Carrier: UPS
Received By: EK

Completed by: Amber Dilallo
On: 22-Jul-25

Reviewed by: Ellie Hopkins
On: 22-Jul-25

Pages to follow: Chain of custody 2 Extra pages included 22

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 5.1
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #101358. - JD/amberdilallo - 7/22/2025 10:57:33 AM

Cooler #2 = 2.9C. Cooler #3 = 4.5C. Cooler #4 = 4.1C. Coller #5 = 3.1C. Cooler #6 = 3.5C. LTG #5. - JD/ehurley - 7/22/25

Drop off L ...ion
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 2 Work order # 25071788

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	107 E Malone Ave
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	(573) 475-3119
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 5.1, 2.9 °C LTG# 5
Preserved in: ☐ LAB ☒ FIELD 4.5, 4.1 ✓ 3.1 3.5 FOR LAB USE ONLY
Lab Notes: PH101358 JD 7/22/25

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Client Comments Report QC LVL: 2

Total Metals = Ba Be B Cd Ca Cr (ICP), Sb As Co Pb Li Mo Se Tl (ICP/MS) and Hg

Project Name/Number: Fly Ash Pond (FAP)

Sample Collector's Name: Alicia Powell

Results Requested (call for PFAS TAT and surcharges): ☐ Standard ☐ 1-2 Day (100% Surcharge) ☐ Date ___ ☐ 3 Day (50% Surcharge)

Billing/PO#:

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	MATRIX: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: Cl SO4 F-	Field pH	Ra226/228 (SUB)	TDS	Total Metals
25071788 001	MW-1R	7/17/25 0710	1	3		X		X	X	X	X	X
002	MW-2	7/17/25 1328	1	3		X		X	X	X	X	X
003	MW-3	7/17/25 0932	1	3		X		X	X	X	X	X
004	MW-4	7/17/25 1014	1	3		X		X	X	X	X	X
005	NE-3	7/17/25 1213	1	3		X		X	X	X	X	X
006	MW-7	7/17/25 0844	1	3		X		X	X	X	X	X
007	MW-9	7/17/25 0806	1	3		X		X	X	X	X	X
008	MW-10	7/17/25 1100	1	3			X	X	X	X	X	X
009	Duplicate	7/17/25	1	3	X			X		X	X	X
010	Trip Blank		1	3		X		X		X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	7/21/25 1300	Emily Kassakosh UPS shipment	7/22/25 @ 0922

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 101254

Drop off L ,on
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY pg. 2 of 2 Work order # 25071788

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities		
Address:	107 E Malone Ave		
City / State / Zip	Sikeston, MO 63801		
Contact:	Luke St. Mary	**Phone:**	(573) 475-3119
E-Mail:	lstmary@sbmu.net	**Fax:**	

Samples on: ☐ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____
Preserved in: ☒ LAB ☒ FIELD
FOR LAB USE ONLY
Lab Notes:

Client Comments Report QC LVL: 2

Total Metals = Ba Be B Cd Ca Cr (ICP), Sb As Co Pb Li Mo Se Tl (ICP/MS) and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: Fly Ash Pond (FAP)

Sample Collector's Name: Alicia Powell

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	MATRIX: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: Cl SO4 F-	Field pH	Ra226/228 (SUB)	TDS	Total Metals
25071788 01	Field Blank	7/17/25 1213	1	3		X		X		X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	7/21/25 1300	Emily Kasaokoski UPS shipment	7/22/25 @ 0922

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 101254

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
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Website: http://www.settek.com

August 22, 2025

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 25071788

Dear Elizabeth Hurley:

Order No.: 25072012

Alliance Technical Group - Akron received 11 sample(s) on 7/24/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **25072012**
Date: **8/22/2025**

CLIENT: TEKLAB Inc,
Project: 25071788

WorkOrder Narrative:
25072012: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

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Qualifiers and Acronyms

WO#: **25072012**
Date: **8/22/2025**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **25072012**
22-Aug-25

CLIENT: TEKLAB Inc,
Project: 25071788

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25072012-001	25071788-001		7/17/2025 7:10:00 AM	7/24/2025 1:00:00 PM	Groundwater
25072012-002	25071788-002		7/17/2025 1:28:00 PM	7/24/2025 1:00:00 PM	Groundwater
25072012-003	25071788-003		7/17/2025 9:32:00 AM	7/24/2025 1:00:00 PM	Groundwater
25072012-004	25071788-004		7/17/2025 10:14:00 AM	7/24/2025 1:00:00 PM	Groundwater
25072012-005	25071788-005		7/17/2025 12:13:00 PM	7/24/2025 1:00:00 PM	Groundwater
25072012-006	25071788-006		7/17/2025 8:44:00 AM	7/24/2025 1:00:00 PM	Groundwater
25072012-007	25071788-007		7/17/2025 9:06:00 AM	7/24/2025 1:00:00 PM	Groundwater
25072012-008	25071788-008		7/17/2025 11:00:00 AM	7/24/2025 1:00:00 PM	Groundwater
25072012-009	25071788-009		7/17/2025	7/24/2025 1:00:00 PM	Groundwater
25072012-010	25071788-010		7/22/2025 9:22:00 AM	7/24/2025 1:00:00 PM	Groundwater
25072012-011	25071788-011		7/17/2025 12:13:00 PM	7/24/2025 1:00:00 PM	Groundwater

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DATES REPORT

WO#: **25072012**

22-Aug-25

Client: TEKLAB Inc,
Project: 25071788

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25072012-001A	25071788-001	7/17/2025 7:10:00 AM	Groundwater	Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM
25072012-002A	25071788-002	7/17/2025 1:28:00 PM		Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM
25072012-003A	25071788-003	7/17/2025 9:32:00 AM		Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM
25072012-004A	25071788-004	7/17/2025 10:14:00 AM		Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM
25072012-005A	25071788-005	7/17/2025 12:13:00 PM		Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM
25072012-006A	25071788-006	7/17/2025 8:44:00 AM		Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM
25072012-007A	25071788-007	7/17/2025 9:06:00 AM		Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM
25072012-008A	25071788-008	7/17/2025 11:00:00 AM		Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM

Original

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DATES REPORT

WO#: **25072012**

22-Aug-25

Client: TEKLAB Inc,

Project: 25071788

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25072012-008A	25071788-008	7/17/2025 11:00:00 AM	Groundwater	Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM
25072012-009A	25071788-009	7/17/2025		Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM
25072012-010A	25071788-010	7/22/2025 9:22:00 AM		Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM
25072012-011A	25071788-011	7/17/2025 12:13:00 PM		Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM

Original

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Analytical Report

(consolidated)

WO#: **25072012**

Date Reported: **8/22/2025**

CLIENT: TEKLAB Inc,
Project: 25071788
Lab ID: 25072012-001
Client Sample ID: 25071788-001

Collection Date: 7/17/2025 7:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.26	2.00	2.00	U	pCi/L	± 0.32	1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	0.19	0.627	1.00	U	pCi/L	± 0.08	1	8/20/2025 7:48:00 AM
Yield	1						1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	0.07	0.640	1.00	U	pCi/L	± 0.24	1	8/19/2025 2:42:00 PM
Yield	1						1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **25072012**

Date Reported: **8/22/2025**

CLIENT: TEKLAB Inc,
Project: 25071788
Lab ID: 25072012-002
Client Sample ID: 25071788-002

Collection Date: 7/17/2025 1:28:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.38	2.00	2.00	U	pCi/L	± 0.39	1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	0.21	0.627	1.00	U	pCi/L	± 0.09	1	8/20/2025 7:48:00 AM
Yield	1						1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	0.17	0.640	1.00	U	pCi/L	± 0.3	1	8/19/2025 2:42:00 PM
Yield	1						1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **25072012**

Date Reported: **8/22/2025**

CLIENT: TEKLAB Inc,
Project: 25071788
Lab ID: 25072012-003
Client Sample ID: 25071788-003

Collection Date: 7/17/2025 9:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.62	2.00	2.00	U	pCi/L	± 0.43	1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	0.13	0.627	1.00	U	pCi/L	± 0.08	1	8/20/2025 7:48:00 AM
Yield	1						1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	0.49	0.640	1.00	U	pCi/L	± 0.35	1	8/19/2025 2:42:00 PM
Yield	1						1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
U	Samples with CalcVal < MDL
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **25072012**

Date Reported: **8/22/2025**

CLIENT: TEKLAB Inc,
Project: 25071788
Lab ID: 25072012-004
Client Sample ID: 25071788-004

Collection Date: 7/17/2025 10:14:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.92	2.00	2.00	U	pCi/L	± 0.46	1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	0.09	0.627	1.00	U	pCi/L	± 0.07	1	8/20/2025 7:48:00 AM
Yield	1						1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	0.83	0.640	1.00	J	pCi/L	± 0.39	1	8/19/2025 2:42:00 PM
Yield	1						1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

Alliance Technical Group - Akron
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Analytical Report

(consolidated)

WO#: **25072012**

Date Reported: **8/22/2025**

CLIENT: TEKLAB Inc,
Project: 25071788
Lab ID: 25072012-005
Client Sample ID: 25071788-005

Collection Date: 7/17/2025 12:13:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.48	2.00	2.00	U	pCi/L	± 0.42	1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	0.22	0.627	1.00	U	pCi/L	± 0.1	1	8/20/2025 7:48:00 AM
Yield	1						1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	0.26	0.640	1.00	U	pCi/L	± 0.32	1	8/19/2025 2:42:00 PM
Yield	1						1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **25072012**

Date Reported: **8/22/2025**

CLIENT: TEKLAB Inc,
Project: 25071788
Lab ID: 25072012-006
Client Sample ID: 25071788-006

Collection Date: 7/17/2025 8:44:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	1.44	2.00	2.00	U	pCi/L	± 0.55	1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	0.34	0.627	1.00	U	pCi/L	± 0.11	1	8/20/2025 7:48:00 AM
Yield	1						1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	1.1	0.640	1.00		pCi/L	± 0.44	1	8/19/2025 2:42:00 PM
Yield	1						1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **25072012**

Date Reported: **8/22/2025**

CLIENT: TEKLAB Inc,
Project: 25071788
Lab ID: 25072012-007
Client Sample ID: 25071788-007

Collection Date: 7/17/2025 9:06:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.61	2.00	2.00	U	pCi/L	± 0.41	1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	0.11	0.627	1.00	U	pCi/L	± 0.08	1	8/20/2025 7:48:00 AM
Yield	1						1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	0.5	0.640	1.00	U	pCi/L	± 0.33	1	8/19/2025 2:42:00 PM
Yield	1						1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25072012**

Date Reported: **8/22/2025**

CLIENT: TEKLAB Inc,

Collection Date: 7/17/2025 11:00:00 AM

Project: 25071788

Lab ID: 25072012-008

Matrix: GROUNDWATER

Client Sample ID: 25071788-008

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.31	2.00	2.00	U	pCi/L	± 0.35	1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	0.18	0.627	1.00	U	pCi/L	± 0.09	1	8/20/2025 7:48:00 AM
Yield	1						1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	0.13	0.640	1.00	U	pCi/L	± 0.26	1	8/19/2025 2:42:00 PM
Yield	1						1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **25072012**

Date Reported: **8/22/2025**

CLIENT: TEKLAB Inc,
Collection Date: 7/17/2025
Project: 25071788
Lab ID: 25072012-009
Matrix: GROUNDWATER
Client Sample ID: 25071788-009

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.48	2.00	2.00	U	pCi/L	± 0.38	1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	0.11	0.627	1.00	U	pCi/L	± 0.09	1	8/20/2025 7:48:00 AM
Yield	1						1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	0.37	0.640	1.00	U	pCi/L	± 0.29	1	8/19/2025 2:42:00 PM
Yield	1						1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **25072012**

Date Reported: **8/22/2025**

CLIENT: TEKLAB Inc,
Project: 25071788
Lab ID: 25072012-010
Client Sample ID: 25071788-010

Collection Date: 7/22/2025 9:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.33	2.00	2.00	U	pCi/L	± 0.37	1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	0.03	0.627	1.00	U	pCi/L	± 0.06	1	8/20/2025 7:48:00 AM
Yield	1						1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	0.3	0.640	1.00	U	pCi/L	± 0.31	1	8/19/2025 2:42:00 PM
Yield	0.96						1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

(consolidated)

WO#: **25072012**

Date Reported: **8/22/2025**

CLIENT: TEKLAB Inc,
Project: 25071788
Lab ID: 25072012-011
Client Sample ID: 25071788-011

Collection Date: 7/17/2025 12:13:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.16	2.00	2.00	U	pCi/L	± 0.33	1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	-0.11	0.627	1.00	U	pCi/L	± 0.08	1	8/20/2025 7:48:00 AM
Yield	1						1	8/20/2025 7:48:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	0.16	0.640	1.00	U	pCi/L	± 0.25	1	8/19/2025 2:42:00 PM
Yield	1						1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **25072012**

22-Aug-25

Client: TEKLAB Inc,
Project: 25071788 **BatchID:** **86429**

Sample ID: **MB-86429**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214966**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/19/2025**	SeqNo: **5738718**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	1.00			0	0						

Sample ID: **LCS-86429**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214966**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/19/2025**	SeqNo: **5738719**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.57	1.00	5.000	0	71.4	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-86429**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214966**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/19/2025**	SeqNo: **5738720**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.72	1.00	5.000	0	74.4	50	130	3.570	4.12	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

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QC SUMMARY REPORT

WO#: **25072012**

22-Aug-25

Client: TEKLAB Inc,
Project: 25071788 **BatchID:** **86429**

Sample ID: **25072025-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214966**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/19/2025**	SeqNo: **5738738**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	U
Yield	1.00			0	0			1.000	0		

Sample ID: **25072025-002ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214966**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/19/2025**	SeqNo: **5738740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0.7200	200	20	RU
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

Original

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QC SUMMARY REPORT

WO#: **25072012**

22-Aug-25

Client: TEKLAB Inc,
Project: 25071788 **BatchID:** **86429**

Sample ID: **MB-86429**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214969**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/20/2025**	SeqNo: **5738830**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	1.00										

Sample ID: **LCS-86429**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214969**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/20/2025**	SeqNo: **5738831**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.10	1.00	5.000	0	102	70	130				

Sample ID: **LCSD-86429**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214969**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/20/2025**	SeqNo: **5738832**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.82	1.00	5.000	0	96.4	70	130	5.100	5.65	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area respons
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spe

Original

Pg ___ of ___ 25072012

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: Client QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an MO site.

Project# 25071788

Contact: Elizabeth Hurley Email: ehurley@teklabinc.com
Requested Due Date: Standard TAT Billing/PO: 39015 Phone: (618) 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	CPM			pH							
	25071788-001	7/17/25 0710	HNO3	Groundwater	✔	34,36			1,1							
	25071788-002	7/17/25 1328	HNO3	Groundwater	✔	30,32			1,1							
	25071788-003	7/17/25 0932	HNO3	Groundwater	✔	22,28			1,1							
	25071788-004	7/17/25 1014	HNO3	Groundwater	✔	20,24			1,1							
	25071788-005	7/17/25 1213	HNO3	Groundwater	✔	24,26			1,1							
	25071788-006	7/17/25 0844	HNO3	Groundwater	✔	40,30			1,1							
	25071788-007	7/17/25 0806	HNO3	Groundwater	✔	16,22			1,1							
	25071788-008	7/17/25 1100	HNO3	Groundwater	✔	18,40			1,1							
	25071788-009	7/17/25	HNO3	Groundwater	✔	26,30			1,1							
	25071788-010	7/22/25 0922	HNO3	Trip Blank	✔	22,28			1,1							
	25071788-011	7/17/25 1213	HNO3	Aqueous	✔	28,32			1,1							

*Relinquished By	Date/Time	Received By	Date/Time
Shelia DeCalls	7/24/25 1200	Spencer M. [illegible] 7/24/25	
		1300 Peak 21.8 + 0.1 = 21.7	

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

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Cuyahoga Falls, Ohio 44223
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Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25072012** RcptNo: **1**

Logged by:	**Spencer M. Hartwell**	**7/24/2025 1:00:00 PM**	Spencer M. Hartwell
Completed By:	**Spencer M. Hartwell**	**7/25/2025 1:11:15 PM**	Spencer M. Hartwell
Reviewed By:	**Jennifer Woolf**	**7/28/2025 3:53:15 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☐ No ☑
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:
    Combined? EDD?

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.7	Good				

Appendix 3

Laboratory Quality Assurance/
Quality Control Data
6.16.2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25061381

Client Project: NE-3 **Report Date:** 21-Jul-25

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R366870 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	06/18/2025

Batch R366870 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**240**	250.0	0	96.0	90	110	06/18/2025

Batch R366870 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25052593-037ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20	H	**320**				318.0	0.63	06/18/2025

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R366728 **SampType:** MBLK Units **mg/L**
SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**ND**	0.0040	0	0	0	100	06/18/2025
Chloride		0.50		**ND**	0.1000	0	0	0	100	06/18/2025
Sulfate		1.00		**ND**	0.0990	0	0	0	100	06/18/2025

Batch R366728 **SampType:** LCS Units **mg/L**
SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**0.97**	1.000	0	97.2	90	110	06/18/2025
Chloride		0.50		**20.5**	20.00	0	102.7	90	110	06/18/2025
Sulfate		1.00		**19.0**	20.00	0	94.8	90	110	06/18/2025

Batch R366728 **SampType:** MS Units **mg/L**
SampID: 25061180-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		5.00		**99.3**	100.0	6.400	92.9	80	120	06/18/2025
Chloride		50.0		**12000**	2000	10190	91.9	80	120	06/18/2025
Sulfate		100		**7220**	2000	5147	103.7	80	120	06/18/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25061381

Client Project: NE-3 **Report Date:** 21-Jul-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R366728 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25061180-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		5.00		**99.8**	100.0	6.400	93.4	99.32	0.47	06/18/2025
Chloride		50.0		**11900**	2000	10190	86.0	12020	1.00	06/18/2025
Sulfate		100		**7120**	2000	5147	98.8	7221	1.36	06/18/2025

Batch R366728 **SampType:** MS Units **mg/L**

SampID: 25061253-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.3**	10.00	0.7650	94.9	80	120	06/18/2025
Chloride		5.00		**236**	200.0	26.58	104.8	80	120	06/18/2025
Sulfate		10.0		**503**	200.0	302.8	99.9	80	120	06/18/2025

Batch R366728 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25061253-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.3**	10.00	0.7650	95.4	10.25	0.54	06/18/2025
Chloride		5.00		**238**	200.0	26.58	105.6	236.2	0.66	06/18/2025
Sulfate		10.0		**502**	200.0	302.8	99.7	502.7	0.10	06/18/2025

Batch R366728 **SampType:** MS Units **mg/L**

SampID: 25061500-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**9.64**	10.00	0.1730	94.6	80	120	06/18/2025
Chloride		5.00		**205**	200.0	2.990	101.0	80	120	06/18/2025
Sulfate		10.0		**233**	200.0	46.58	93.2	80	120	06/18/2025

Batch R366728 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25061500-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**9.55**	10.00	0.1730	93.8	9.637	0.89	06/18/2025
Chloride		5.00		**203**	200.0	2.990	100.1	205.1	0.91	06/18/2025
Sulfate		10.0		**231**	200.0	46.58	92.2	233.0	0.89	06/18/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25061381

Client Project: NE-3 **Report Date:** 21-Jul-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 240696 **SampType:** MBLK Units µg/L

SampID: MBLK-240696

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**< 2.5**	0.7000	0	0	-100	100	06/18/2025
Beryllium		0.5		**< 0.5**	0.2000	0	0	-100	100	06/18/2025
Boron		20.0		**< 20.0**	9.000	0	0	-100	100	06/18/2025
Cadmium		2.0		**< 2.0**	0.5000	0	0	-100	100	06/18/2025
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	06/18/2025
Chromium		5.0		**< 5.0**	2.800	0	0	-100	100	06/18/2025

Batch 240696 **SampType:** LCS Units µg/L

SampID: LCS-240696

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**4000**	4000	0	100.0	85	115	06/18/2025
Beryllium		0.5		**97.9**	100.0	0	97.9	85	115	06/18/2025
Boron		20.0		**977**	1000	0	97.7	85	115	06/18/2025
Cadmium		2.0		**99.2**	100.0	0	99.2	85	115	06/18/2025
Calcium		0.100		**4.82**	5.000	0	96.5	85	115	06/18/2025
Chromium		5.0		**397**	400.0	0	99.2	85	115	06/18/2025

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 240696 **SampType:** MBLK Units µg/L

SampID: MBLK-240696

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	06/19/2025
Cobalt		1.0		**< 1.0**	0.1150	0	0	-100	100	06/19/2025
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	06/19/2025
Molybdenum		1.5		**< 1.5**	0.6000	0	0	-100	100	06/19/2025
Thallium		2.0		**< 2.0**	0.9500	0	0	-100	100	06/19/2025

Batch 240696 **SampType:** LCS Units µg/L

SampID: LCS-240696

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**1040**	1000	0	103.9	80	120	06/19/2025
Cobalt		1.0		**976**	1000	0	97.6	80	120	06/19/2025
Lithium	*	3.0		**922**	1000	0	92.2	80	120	06/19/2025
Molybdenum		1.5		**993**	1000	0	99.3	80	120	06/19/2025
Thallium		2.0		**467**	500.0	0	93.4	80	120	06/19/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25061381

Client Project: NE-3 **Report Date:** 21-Jul-25

SW-846 7470A (TOTAL)

Batch 240802 **SampType:** MBLK Units **µg/L**

SampID: MBLK-240802

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	06/19/2025

Batch 240802 **SampType:** LCS Units **µg/L**

SampID: LCS-240802

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.76**	5.000	0	95.2	85	115	06/19/2025

Receiving Check List

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25061381
Client Project: NE-3
Report Date: 21-Jul-25

Carrier: UPS
Received By: JMD

Completed by: Amber Dilallo
On: 17-Jun-25

Reviewed by: Ellie Hopkins
On: 17-Jun-25

Pages to follow: Chain of custody 1 Extra pages included 11

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	2.3	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #101358. - JD/amberdilallo - 6/17/2025 9:48:46 AM

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 25061381

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 2.3 °C LTG# 5

Preserved in: ☐ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes PA 101358

JO 6/17/25

Client Comments:

Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☐ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☐ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☐ No

Project Name/Number	Sample Collector's Name
NE-3	Justin Lowes

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
25061381 001	NE-3	6/16/25 0848	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	6/16/25 1300	UPS shipment	6/17/25 9:27

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

July 21, 2025

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 25061381

Order No.: 25061712

Dear Elizabeth Hurley:

Alliance Technical Group - Akron received 1 sample(s) on 6/19/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **25061712**
Date: **7/21/2025**

CLIENT: TEKLAB Inc,
Project: 25061381

WorkOrder Narrative:
25061712: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:
LCS/LCSD-85648 Radium-226_DW(903.0): LCSD exhibits high recovery. RPD is higher than criteria allows. LCS, QCS, RLC demonstrate control.

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Qualifiers and Acronyms

WO#: **25061712**
Date: **7/21/2025**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **25061712**

21-Jul-25

CLIENT: TEKLAB Inc,
Project: 25061381

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25061712-001	25061381-001		6/16/2025 8:48:00 AM	6/19/2025 1:40:00 PM	Non-Potable Water

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DATES REPORT

WO#: **25061712**

21-Jul-25

Client: TEKLAB Inc,

Project: 25061381

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25061712-001A	25061381-001	6/16/2025 8:48:00 AM	Non-Potable Water	Radium-226 (EPA 903.0)		7/10/2025 10:48:30 AM	7/21/2025 8:18:00 AM
				Radium-228 (EPA 904.0)		7/10/2025 10:48:30 AM	7/18/2025 2:22:00 PM

Original

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Analytical Report

(consolidated)

WO#: **25061712**

Date Reported: **7/21/2025**

CLIENT: TEKLAB Inc,
Project: 25061381
Lab ID: 25061712-001
Client Sample ID: 25061381-001

Collection Date: 6/16/2025 8:48:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)						**EPA 903.0**	**900 SERIES**	Analyst: **SEE**
Radium-226	0.15	0.627	1.00	U	pCi/L	± 0.06	1	7/21/2025 8:18:00 AM
Yield	1.00						1	7/21/2025 8:18:00 AM
RADIUM-228 (EPA 904.0)						**EPA 904.0**	**900 SERIES**	Analyst: **SEE**
Radium-228	-0.21	0.680	1.00	U	pCi/L	± 0.43	1	7/18/2025 2:22:00 PM
Yield	1.00						1	7/18/2025 2:22:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **25061712**

21-Jul-25

Client: TEKLAB Inc,
Project: 25061381 **BatchID:** **85648**

Sample ID: **MB-85648**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/10/2025**	RunNo: **212848**
Client ID: **BatchQC**	Batch ID: **85648**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/18/2025**	SeqNo: **5686609**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	1.00			0	0						

Sample ID: **LCS-85648**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/10/2025**	RunNo: **212848**
Client ID: **BatchQC**	Batch ID: **85648**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/18/2025**	SeqNo: **5686610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.72	1.00	5.000	0	74.4	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-85648**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **7/10/2025**	RunNo: **212848**
Client ID: **BatchQC**	Batch ID: **85648**	TestNo: **E904.0**	**E903-904**	Analysis Date: **7/18/2025**	SeqNo: **5686611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.35	1.00	5.000	0	67.0	50	130	3.720	10.5	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spec

Original

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QC SUMMARY REPORT

WO#: **25061712**

21-Jul-25

Client: TEKLAB Inc,
Project: 25061381 **BatchID:** **85648**

Sample ID: **25061304-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/10/2025** RunNo: **212848**
Client ID: **BatchQC** Batch ID: **85648** TestNo: **E904.0** **E903-904** Analysis Date: **7/18/2025** SeqNo: **5686616**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.680	1.00		0	0			0	200	20	JR
Yield	1.00			0	0			1.000	0		

Sample ID: **25061305-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **7/10/2025** RunNo: **212848**
Client ID: **BatchQC** Batch ID: **85648** TestNo: **E904.0** **E903-904** Analysis Date: **7/18/2025** SeqNo: **5686618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	U
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spec

Original

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QC SUMMARY REPORT

WO#: **25061712**

21-Jul-25

Client: TEKLAB Inc,
Project: 25061381 **BatchID:** **85648**

Sample ID: **MB-85648**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/10/2025**	RunNo: **212850**
Client ID: **BatchQC**	Batch ID: **85648**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/21/2025**	SeqNo: **5686647**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	1.00										

Sample ID: **LCS-85648**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/10/2025**	RunNo: **212850**
Client ID: **BatchQC**	Batch ID: **85648**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/21/2025**	SeqNo: **5686648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.94	1.00	5.000	0	98.8	70	130				

Sample ID: **25061305-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **7/10/2025**	RunNo: **212850**
Client ID: **BatchQC**	Batch ID: **85648**	TestNo: **E903.0**	**E903-904**	Analysis Date: **7/21/2025**	SeqNo: **5686654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	U
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as spec

Original

TEKLAB, INC. Chain of Custody

25061712

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

CS intact 6117

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: 23.2c Sampler: Client QC Level: 2

23.3 ok

Fedex box

Project# 25061381

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an MO site.

Contact: Elizabeth Hurley Email: ehurley@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 38792 Phone: (618) 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228												
						CAM			A1								
	25061381-001	6/16/25 0848	HNO3	Aqueous	✔	32, 26			1,1								
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													

*Relinquished By	Date/Time	Received By	Date/Time
Amber Rivers	6/17/25 1200		6/19/25, 1340

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25061712** RcptNo: **1**

Logged by:	**Tegan A. Richards**	**6/19/2025 1:40:00 PM**	Tegan Richards
Completed By:	**Tegan A. Richards**	**6/21/2025 1:13:37 PM**	Tegan Richards
Reviewed By:	**Holly Florea**	**6/23/2025 9:45:46 AM**	Holly Florea

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. 4470 Seal Date: 6/17/2025 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	23.2	Good	Yes	4470	6/17/2025	

Appendix 3

Laboratory Quality Assurance/
Quality Control Data
7.16.2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071574

Client Project: NE-3 **Report Date:** 25-Aug-25

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R368434 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	07/18/2025
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	07/18/2025
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	07/18/2025

Batch R368434 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**246**	250.0	0	98.4	90	110	07/18/2025
Total Dissolved Solids		20		**256**	250.0	0	102.4	90	110	07/18/2025
Total Dissolved Solids		20		**274**	250.0	0	109.6	90	110	07/18/2025

Batch R368434 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25070001-021ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**600**				602.0	0.33	07/18/2025

Batch R368434 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25070001-061ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**1500**				1512	0.80	07/18/2025

Batch R368434 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25071399-003BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**520**				510.0	1.94	07/18/2025

Batch R368434 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25071403-012BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**624**				616.0	1.29	07/18/2025

Batch R368434 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25071570-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		100		**1660**				1680	1.20	07/18/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071574

Client Project: NE-3 **Report Date:** 25-Aug-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R368391 **SampType:** MBLK Units **mg/L**
SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**ND**	0.0040	0	0	0	100	07/18/2025
Chloride		0.50		**ND**	0.1000	0	0	0	100	07/18/2025
Sulfate		1.00		**ND**	0.0990	0	0	0	100	07/18/2025

Batch R368391 **SampType:** LCS Units **mg/L**
SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**0.92**	1.000	0	91.6	90	110	07/18/2025
Chloride		0.50		**19.4**	20.00	0	97.0	90	110	07/18/2025
Sulfate		1.00		**18.2**	20.00	0	91.0	90	110	07/18/2025

Batch R368391 **SampType:** MS Units **mg/L**
SampID: 25061769-047AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.2**	10.00	0.5620	96.5	80	120	07/18/2025
Chloride		5.00		**272**	200.0	55.20	108.2	80	120	07/18/2025
Sulfate		10.0		**335**	200.0	132.8	101.0	80	120	07/18/2025

Batch R368391 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 25061769-047AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.2**	10.00	0.5620	96.5	10.21	0.01	07/18/2025
Chloride		5.00		**272**	200.0	55.20	108.4	271.7	0.10	07/18/2025
Sulfate		10.0		**335**	200.0	132.8	101.1	334.8	0.10	07/18/2025

Batch R368391 **SampType:** MS Units **mg/L**
SampID: 25070001-075AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.0**	10.00	0.2260	97.7	80	120	07/19/2025
Chloride		5.00		**219**	200.0	6.511	106.0	80	120	07/19/2025
Sulfate		10.0		**273**	200.0	75.02	98.8	80	120	07/19/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071574

Client Project: NE-3 **Report Date:** 25-Aug-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R368391 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25070001-075AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.0**	10.00	0.2260	98.0	9.999	0.32	07/19/2025
Chloride		5.00		**219**	200.0	6.511	106.1	218.5	0.09	07/19/2025
Sulfate		10.0		**275**	200.0	75.02	100.0	272.6	0.87	07/19/2025

Batch R368391 **SampType:** MS Units **mg/L**

SampID: 25070001-086BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.0**	10.00	0.3000	97.1	80	120	07/18/2025
Chloride		5.00		**268**	200.0	50.63	108.8	80	120	07/18/2025
Sulfate		10.0		**272**	200.0	72.48	99.9	80	120	07/18/2025

Batch R368391 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25070001-086BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**9.98**	10.00	0.3000	96.8	10.01	0.26	07/18/2025
Chloride		5.00		**267**	200.0	50.63	108.3	268.2	0.38	07/18/2025
Sulfate		10.0		**271**	200.0	72.48	99.2	272.2	0.51	07/18/2025

Batch R368391 **SampType:** MS Units **mg/L**

SampID: 25071487-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.2**	10.00	0.5390	96.6	80	120	07/18/2025
Chloride		5.00		**595**	200.0	372.0	111.7	80	120	07/18/2025
Sulfate		10.0		**363**	200.0	157.0	102.8	80	120	07/18/2025

Batch R368391 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25071487-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.3**	10.00	0.5390	97.4	10.20	0.84	07/18/2025
Chloride		5.00		**599**	200.0	372.0	113.4	595.4	0.57	07/18/2025
Sulfate		10.0		**364**	200.0	157.0	103.3	362.6	0.26	07/18/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071574

Client Project: NE-3 **Report Date:** 25-Aug-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R368391 **SampType:** MS Units **mg/L**

SampID: 25071572-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**9.98**	10.00	0.2480	97.3	80	120	07/18/2025
Chloride		5.00		**217**	200.0	6.764	105.3	80	120	07/18/2025
Sulfate		10.0		**993**	200.0	778.6	107.3	80	120	07/18/2025

Batch R368391 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25071572-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.1**	10.00	0.2480	98.5	9.981	1.15	07/18/2025
Chloride		5.00		**220**	200.0	6.764	106.6	217.3	1.25	07/18/2025
Sulfate		10.0		**995**	200.0	778.6	107.9	993.2	0.13	07/18/2025

Batch R368391 **SampType:** MS Units **mg/L**

SampID: 25071573-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.0**	10.00	0.2070	98.3	80	120	07/18/2025
Chloride		5.00		**215**	200.0	1.969	106.4	80	120	07/18/2025
Sulfate		10.0		**263**	200.0	62.31	100.6	80	120	07/18/2025

Batch R368391 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25071573-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.1**	10.00	0.2070	98.8	10.03	0.49	07/18/2025
Chloride		5.00		**214**	200.0	1.969	106.1	214.7	0.26	07/18/2025
Sulfate		10.0		**263**	200.0	62.31	100.2	263.4	0.28	07/18/2025

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 242135 **SampType:** MBLK Units **µg/L**

SampID: MBLK-242135

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**< 2.5**	0.7000	0	0	-100	100	07/21/2025
Beryllium		0.5		**< 0.5**	0.2000	0	0	-100	100	07/21/2025
Boron		20.0		**< 20.0**	9.000	0	0	-100	100	07/21/2025
Cadmium		2.0		**< 2.0**	0.5000	0	0	-100	100	07/21/2025
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	07/21/2025
Chromium		5.0		**< 5.0**	2.800	0	0	-100	100	07/21/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071574

Client Project: NE-3 **Report Date:** 25-Aug-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 242135 **SampType:** LCS Units **µg/L**

SampID: LCS-242135

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**4140**	4000	0	103.5	85	115	07/21/2025
Beryllium		0.5		**99.3**	100.0	0	99.3	85	115	07/21/2025
Boron		20.0		**966**	1000	0	96.6	85	115	07/21/2025
Cadmium		2.0		**102**	100.0	0	101.8	85	115	07/21/2025
Calcium		0.100		**4.96**	5.000	0	99.2	85	115	07/21/2025
Chromium		5.0		**412**	400.0	0	103.1	85	115	07/21/2025

Batch 242135 **SampType:** MS Units **mg/L**

SampID: 25071533-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**69.7**	5.000	65.86	76.0	75	125	07/21/2025

Batch 242135 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 25071533-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		**71.7**	5.000	65.86	117.6	69.66	2.94	07/21/2025

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 242135 **SampType:** MBLK Units **µg/L**

SampID: MBLK-242135

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	07/23/2025
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	07/23/2025
Cobalt		1.0		**< 1.0**	0.1150	0	0	-100	100	07/23/2025
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	07/23/2025
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	07/23/2025
Molybdenum		1.5		**< 1.5**	0.6000	0	0	-100	100	07/23/2025
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	07/23/2025
Thallium		2.0		**< 2.0**	0.9500	0	0	-100	100	07/23/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25071574

Client Project: NE-3 **Report Date:** 25-Aug-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 242135 **SampType:** LCS Units µg/L

SampID: LCS-242135

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**1080**	1000	0	108.4	80	120	07/23/2025
Arsenic		1.0		**979**	1000	0	97.9	80	120	07/23/2025
Cobalt		1.0		**883**	1000	0	88.3	80	120	07/23/2025
Lead		1.0		**994**	1000	0	99.4	80	120	07/23/2025
Lithium	*	3.0		**968**	1000	0	96.8	80	120	07/23/2025
Molybdenum		1.5		**1010**	1000	0	100.7	80	120	07/23/2025
Selenium		1.0		**994**	1000	0	99.4	80	120	07/23/2025
Thallium		2.0		**500**	500.0	0	99.9	80	120	07/23/2025

Batch 242135 **SampType:** MS Units µg/L

SampID: 25071535-007CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		**1090**	1000	74.92	101.4	75	125	07/23/2025
Cobalt		1.0		**870**	1000	5.583	86.4	75	125	07/23/2025

Batch 242135 **SampType:** MSD Units µg/L RPD Limit **20**

SampID: 25071535-007CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		1.0		**1140**	1000	74.92	106.3	1089	4.37	07/23/2025
Cobalt		1.0		**881**	1000	5.583	87.6	870.0	1.29	07/23/2025

SW-846 7470A (TOTAL)

Batch 242145 **SampType:** MBLK Units µg/L

SampID: MBLK-242145

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	07/22/2025

Batch 242145 **SampType:** LCS Units µg/L

SampID: LCS-242145

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**5.08**	5.000	0	101.6	85	115	07/22/2025

Receiving Check List

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25071574
Client Project: NE-3
Report Date: 25-Aug-25

Carrier: UPS
Received By: JMD

Completed by: Amber Dilallo
On: 18-Jul-25

Reviewed by: Ellie Hopkins
On: 18-Jul-25

Pages to follow: Chain of custody 1 Extra pages included 11

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	0.9	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #101358. - JD/amberdilallo - 7/18/2025 12:42:44 PM

Drop off Location:
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 2507~~154~~1574

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

TE 7/18/25

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 0.9 °C LTG# 9

Preserved in: ☐ LAB ☒ FIELD

Lab Notes PH 101358

FOR LAB USE ONLY

SD 7/18/25

Client Comments:

Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number	Sample Collector's Name
NE-3	Justin Lowes

Results Requested (call for PFAS TAT and surcharges)
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
2507154 001	NE-3	7/16/25 0847	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	7/17/25 1300	UPS shipment	7/18/25 10:00

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Alliance Technical Group - Akron
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Website: http://www.settek.com

August 20, 2025

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 25071574

Dear Elizabeth Hurley:

Order No.: 25072017

Alliance Technical Group - Akron received 1 sample(s) on 7/24/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **25072017**
Date: **8/20/2025**

CLIENT: TEKLAB Inc,
Project: 25071574

WorkOrder Narrative:
25072017: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

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Qualifiers and Acronyms

WO#: **25072017**
Date: **8/20/2025**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Website: http://www.settek.com

Workorder Sample Summary

WO#: **25072017**

20-Aug-25

CLIENT: TEKLAB Inc,
Project: 25071574

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25072017-001	25071574-001		7/16/2025 8:47:00 AM	7/24/2025 1:00:00 PM	Non-Potable Water

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DATES REPORT

WO#: **25072017**

20-Aug-25

Client: TEKLAB Inc,
Project: 25071574

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25072017-001A	25071574-001	7/16/2025 8:47:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-226 (EPA 903.0)		8/12/2025 10:05:00 AM	8/20/2025 7:48:00 AM
				Radium-228 (EPA 904.0)		8/12/2025 10:05:00 AM	8/19/2025 2:42:00 PM

Original

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Analytical Report

(consolidated)

WO#: **25072017**

Date Reported: **8/20/2025**

CLIENT: TEKLAB Inc,

Collection Date: 7/16/2025 8:47:00 AM

Project: 25071574

Lab ID: 25072017-001

Matrix: NON-POTABLE WATER

Client Sample ID: 25071574-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00	U	pCi/L	± 0.480	1	8/20/2025 7:48:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00	U	pCi/L	± 0.110	1	8/20/2025 7:48:00 AM
Yield	1.00					1	8/20/2025 7:48:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00	U	pCi/L	± 0.370	1	8/19/2025 2:42:00 PM
Yield	1.00					1	8/19/2025 2:42:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
U	Samples with CalcVal < MDL
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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QC SUMMARY REPORT

WO#: **25072017**

20-Aug-25

Client: TEKLAB Inc,
Project: 25071574 **BatchID:** **86429**

Sample ID: **MB-86429**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214966**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/19/2025**	SeqNo: **5738718**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	1.00			0	0						

Sample ID: **LCS-86429**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214966**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/19/2025**	SeqNo: **5738719**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.57	1.00	5.000	0	71.4	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-86429**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214966**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/19/2025**	SeqNo: **5738720**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.72	1.00	5.000	0	74.4	50	130	3.570	4.12	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **25072017**

20-Aug-25

Client: TEKLAB Inc,
Project: 25071574 **BatchID:** **86429**

Sample ID: **25072025-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/12/2025** RunNo: **214966**
Client ID: **BatchQC** Batch ID: **86429** TestNo: **E904.0** **E903-904** Analysis Date: **8/19/2025** SeqNo: **5738738**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	U
Yield	1.00			0	0			1.000	0		

Sample ID: **25072025-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/12/2025** RunNo: **214966**
Client ID: **BatchQC** Batch ID: **86429** TestNo: **E904.0** **E903-904** Analysis Date: **8/19/2025** SeqNo: **5738740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0.7200	200	20	RU
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **25072017**

20-Aug-25

Client: TEKLAB Inc,
Project: 25071574 **BatchID:** **86429**

Sample ID: **MB-86429**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214969**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/20/2025**	SeqNo: **5738830**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	1.00										

Sample ID: **LCS-86429**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214969**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/20/2025**	SeqNo: **5738831**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.10	1.00	5.000	0	102	70	130				

Sample ID: **LCSD-86429**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/12/2025**	RunNo: **214969**
Client ID: **BatchQC**	Batch ID: **86429**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/20/2025**	SeqNo: **5738832**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.82	1.00	5.000	0	96.4	70	130	5.100	5.65	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
U	Samples with CalcVal < MDL	W	Sample container temperature is out of limit as specified at testcode		

Original

Pg ___ of ___

TEKLAB, INC. Chain of Custody

2507207

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an MO site.

Project# 25071574

Contact: Elizabeth Hurley | Email: ehurley@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 39004 | Phone: (618) 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228
	25071574-001	7/16/25 0847	HNO3	Groundwater	✔
		CPM: 38	Other	Aqueous	
		24	Other	Aqueous	
			Other	Aqueous	
		pH: 1,1	Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	
			Other	Aqueous	

*Relinquished By	Date/Time	Received By	Date/Time
	7/21/25 1700	7/24/25	
		300 Vent 21.8-0.1=21.7	

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

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Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25072017** RcptNo: **1**

Logged by:	**Spencer M. Hartwell**	**7/24/2025 1:00:00 PM**	Spencer M. Hartwell
Completed By:	**Spencer M. Hartwell**	**7/25/2025 1:24:36 PM**	Spencer M. Hartwell
Reviewed By:	**Jennifer Woolf**	**7/28/2025 4:09:55 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.7	Good				

Appendix 3

Laboratory Quality Assurance/
Quality Control Data
7.29.2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25072672

Client Project: NE-3 **Report Date:** 02-Sep-25

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R369311 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	08/05/2025
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	08/05/2025

Batch R369311 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**242**	250.0	0	96.8	90	110	08/05/2025
Total Dissolved Solids		20		**248**	250.0	0	99.2	90	110	08/05/2025

Batch R369311 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25080038-001BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**898**				892.0	0.67	08/05/2025

Batch R369311 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25080181-007BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**864**				862.0	0.23	08/05/2025

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R369076 **SampType:** MBLK Units **mg/L**
SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**ND**	0.0040	0	0	0	100	07/31/2025
Chloride		0.50		**ND**	0.1000	0	0	0	100	07/31/2025
Sulfate		1.00		**ND**	0.0990	0	0	0	100	07/31/2025

Batch R369076 **SampType:** LCS Units **mg/L**
SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**0.99**	1.000	0	98.6	90	110	07/31/2025
Chloride		0.50		**19.5**	20.00	0	97.3	90	110	07/31/2025
Sulfate		1.00		**18.4**	20.00	0	92.2	90	110	07/31/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25072672

Client Project: NE-3 **Report Date:** 02-Sep-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R369076 **SampType:** MS Units **mg/L**

SampID: 25071002-027AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.8**	10.00	0.3610	104.5	80	120	07/31/2025
Chloride		5.00		**267**	200.0	51.22	108.1	80	120	07/31/2025
Sulfate		10.0		**322**	200.0	117.7	102.0	80	120	07/31/2025

Batch R369076 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25071002-027AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.7**	10.00	0.3610	103.1	10.81	1.29	07/31/2025
Chloride		5.00		**264**	200.0	51.22	106.6	267.5	1.14	07/31/2025
Sulfate		10.0		**319**	200.0	117.7	100.7	321.7	0.78	07/31/2025

Batch R369076 **SampType:** MS Units **mg/L**

SampID: 25072646-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**12.1**	10.00	0.8530	112.4	80	120	07/31/2025
Chloride		5.00		**805**	200.0	615.5	94.9	80	120	07/31/2025
Sulfate		10.0		**328**	200.0	127.9	100.1	80	120	07/31/2025

Batch R369076 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25072646-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.8**	10.00	0.8530	99.5	12.10	11.34	07/31/2025
Chloride		5.00		**791**	200.0	615.5	87.7	805.3	1.80	07/31/2025
Sulfate		10.0		**328**	200.0	127.9	100.0	328.0	0.07	07/31/2025

Batch R369076 **SampType:** MS Units **mg/L**

SampID: 25072663-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.2**	10.00	0.2750	99.7	80	120	07/31/2025
Chloride		5.00		**218**	200.0	17.28	100.5	80	120	07/31/2025
Sulfate		10.0		**578**	200.0	380.8	98.8	80	120	07/31/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25072672

Client Project: NE-3 **Report Date:** 02-Sep-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R369076 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25072663-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.2**	10.00	0.2750	99.5	10.24	0.14	07/31/2025
Chloride		5.00		**219**	200.0	17.28	100.6	218.2	0.16	07/31/2025
Sulfate		10.0		**577**	200.0	380.8	97.9	578.4	0.30	07/31/2025

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 242778 **SampType:** MBLK Units **µg/L**

SampID: MBLK-242778

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5	J	**0.7**	0.7000	0	100.0	-100	100	08/06/2025
Beryllium		0.5		**< 0.5**	0.2000	0	0	-100	100	08/06/2025
Boron		20.0		**< 20.0**	9.000	0	0	-100	100	08/06/2025
Cadmium		2.0	JS	**1.5**	0.5000	0	300.0	-100	100	08/06/2025
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/08/2025
Calcium		0.100	JS	**0.036**	0.0350	0	101.7	-100	100	08/06/2025
Chromium		5.0		**< 5.0**	2.800	0	0	-100	100	08/06/2025

Batch 242778 **SampType:** LCS Units **µg/L**

SampID: LCS-242778

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**4060**	4000	0	101.5	85	115	08/06/2025
Beryllium		0.5		**101**	100.0	0	100.6	85	115	08/06/2025
Boron		20.0		**952**	1000	0	95.2	85	115	08/06/2025
Cadmium		2.0	B	**106**	100.0	0	105.6	85	115	08/06/2025
Calcium		0.100	B	**4.91**	5.000	0	98.3	85	115	08/06/2025
Chromium		5.0		**402**	400.0	0	100.5	85	115	08/06/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25072672

Client Project: NE-3 **Report Date:** 02-Sep-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 242778 **SampType:** MBLK Units µg/L

SampID: MBLK-242778

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0	JS	**0.5**	0.4500	0	114.5	-100	100	08/07/2025
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	08/11/2025
Cobalt		1.0	S	**5.6**	0.1150	0	4830	-100	100	08/07/2025
Lead		1.0	S	**18.7**	0.6000	0	3109	-100	100	08/07/2025
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	08/07/2025
Molybdenum		1.5		**< 1.5**	0.6000	0	0	-100	100	08/07/2025
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	08/07/2025
Thallium		2.0		**< 2.0**	0.9500	0	0	-100	100	08/07/2025

Batch 242778 **SampType:** LCS Units µg/L

SampID: LCS-242778

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0	B	**1070**	1000	0	107.2	80	120	08/07/2025
Arsenic		1.0		**1010**	1000	0	100.5	80	120	08/11/2025
Cobalt		1.0	B	**954**	1000	0	95.4	80	120	08/07/2025
Lead		1.0	B	**958**	1000	0	95.8	80	120	08/07/2025
Lithium	*	3.0		**965**	1000	0	96.5	80	120	08/07/2025
Molybdenum		1.5		**929**	1000	0	92.9	80	120	08/07/2025
Selenium		1.0		**1020**	1000	0	102.4	80	120	08/07/2025
Thallium		2.0		**446**	500.0	0	89.3	80	120	08/07/2025

SW-846 7470A (TOTAL)

Batch 242802 **SampType:** MBLK Units µg/L

SampID: MBLK-242802

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	08/01/2025

Batch 242802 **SampType:** LCS Units µg/L

SampID: LCS-242802

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.87**	5.000	0	97.3	85	115	08/01/2025

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25072672
Client Project: NE-3
Report Date: 02-Sep-25

Carrier: UPS
Received By: JMD

Completed by: Laura E Henson
On: 31-Jul-25

Reviewed by: Ellie Hopkins
On: 31-Jul-25

Pages to follow: Chain of custody 1 Extra pages included 12

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 1.9
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #101358. - lhenson - 7/31/2025 10:48:33 AM

Drop off Location:
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 25072672

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 1.9 °C LTG# 9

Preserved in: ☐ LAB ☒ FIELD

Lab Notes PW 101358

FOR LAB USE ONLY

7/31/25

Client Comments:

Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: NE-3

Sample Collector's Name: Justin Lowes

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
25072672-001	NE-3	7/29/25 0817	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	7/30/25 1000	UPS shipment	
UPS shipment			7/31/25 10:24

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

August 29, 2025

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 25072672

Dear Elizabeth Hurley:

Order No.: 25080206

Alliance Technical Group - Akron received 1 sample(s) on 8/4/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Website: http://www.settek.com

Case Narrative

WO#: **25080206**
Date: **8/29/2025**

CLIENT: TEKLAB Inc,
Project: 25072672

WorkOrder Narrative:
25080206: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Alliance Technical Group - Akro
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-448
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **25080206**
Date: **8/29/2025**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Alliance Technical Group - Akron
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Workorder Sample Summary

WO#: **25080206**

29-Aug-25

CLIENT: TEKLAB Inc,
Project: 25072672

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25080206-001	25072672		7/29/2025 8:17:00 AM	8/4/2025 1:00:00 PM	Non-Potable Water

Alliance Technical Group - Akron
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Website: http://www.settek.com

DATES REPORT

WO#: **25080206**

29-Aug-25

Client: TEKLAB Inc,
Project: 25072672

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25080206-001A	25072672	7/29/2025 8:17:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		8/20/2025 9:30:00 AM	8/28/2025 10:07:46 AM
				Radium-226 (EPA 903.0)		8/20/2025 9:30:00 AM	8/28/2025 10:07:46 AM
				Radium-228 (EPA 904.0)		8/20/2025 9:30:00 AM	8/27/2025 3:15:04 PM

Original

Alliance Technical Group - Akron
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25080206**

Date Reported: **8/29/2025**

CLIENT: TEKLAB Inc,

Collection Date: 7/29/2025 8:17:00 AM

Project: 25072672

Lab ID: 25080206-001

Matrix: NON-POTABLE WATER

Client Sample ID: 25072672

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.550	1	8/28/2025 10:07:46 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.120	1	8/28/2025 10:07:46 AM
Yield	1.00					1	8/28/2025 10:07:46 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.430	1	8/27/2025 3:15:04 PM
Yield	1.00					1	8/27/2025 3:15:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
3310 Win St.
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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25080206**

29-Aug-25

Client: TEKLAB Inc,
Project: 25072672 **BatchID:** **86665**

Sample ID: **MB-86665**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/20/2025**	RunNo: **215563**
Client ID: **BatchQC**	Batch ID: **86665**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/27/2025**	SeqNo: **5752034**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.980			0	0						

Sample ID: **LCS-86665**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/20/2025**	RunNo: **215563**
Client ID: **BatchQC**	Batch ID: **86665**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/27/2025**	SeqNo: **5752035**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.18	1.00	5.000	0	83.6	50	130				
Yield	0.780			0	0						

Sample ID: **LCSD-86665**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/20/2025**	RunNo: **215563**
Client ID: **BatchQC**	Batch ID: **86665**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/27/2025**	SeqNo: **5752036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.06	1.00	5.000	0	101	50	130	4.180	19.0	20	
Yield	1.00			0	0			0.7800	24.7		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25080206**

29-Aug-25

Client: TEKLAB Inc,
Project: 25072672 **BatchID:** **86665**

Sample ID: **25080215-003ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/20/2025** RunNo: **215563**
Client ID: **BatchQC** Batch ID: **86665** TestNo: **E904.0** **E903-904** Analysis Date: **8/27/2025** SeqNo: **5752041**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	0.900			0	0			0.9200	2.20		

Sample ID: **25080215-007ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/20/2025** RunNo: **215563**
Client ID: **BatchQC** Batch ID: **86665** TestNo: **E904.0** **E903-904** Analysis Date: **8/27/2025** SeqNo: **5752043**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25080206**

29-Aug-25

Client: TEKLAB Inc,
Project: 25072672 **BatchID:** **86665**

Sample ID: **MB-86665**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/20/2025**	RunNo: **215566**
Client ID: **BatchQC**	Batch ID: **86665**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/28/2025**	SeqNo: **5752084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-86665**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/20/2025**	RunNo: **215566**
Client ID: **BatchQC**	Batch ID: **86665**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/28/2025**	SeqNo: **5752085**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.95	1.00	5.000	0	99.0	70	130				

Sample ID: **LCSD-86665**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/20/2025**	RunNo: **215566**
Client ID: **BatchQC**	Batch ID: **86665**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/28/2025**	SeqNo: **5752086**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.20	1.00	5.000	0	104	70	130	4.950	4.93	20	

Sample ID: **25080215-003ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/20/2025**	RunNo: **215566**
Client ID: **BatchQC**	Batch ID: **86665**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/28/2025**	SeqNo: **5752091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25080206**

29-Aug-25

Client: TEKLAB Inc,
Project: 25072672 **BatchID:** **86665**

Sample ID: **25080215-003ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **8/20/2025** RunNo: **215566**
Client ID: **BatchQC** Batch ID: **86665** TestNo: **E903.0** **E903-904** Analysis Date: **8/28/2025** SeqNo: **5752091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **25080215-007ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **8/20/2025** RunNo: **215566**
Client ID: **BatchQC** Batch ID: **86665** TestNo: **E903.0** **E903-904** Analysis Date: **8/28/2025** SeqNo: **5752093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

23.4-0.1: 23.3C; Fedex, Cooler CS intact 7/31

Cooler Temp: | Sampler: Client | QC Level: 2

EPH 7/31/25

Comments: **Please Issue reports and invoices via email only**

~~SHIP to ATC-Akron~~. Please analyze for Radium 226/228 per your usual methods.

Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.

Project# 25072672

Contact: Elizabeth Hurley | Email: Ehurley@TekLabInc.com

Requested Due Date: Standard TAT | Billing/PO: 39113

Phone: (618) 344-1004 ext. 33 State of Sample Origin =

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

EPH 7/31/25 groundwater

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228											
						pCi/L				pH						
	25072672-001	7/29/25 8:17	HNO3	~~Aqueous~~	✓	30, 24				1						
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												

*Relinquished By	Date/Time	Received By	Date/Time
	7/31/25	8/4/25 1300	

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25080206** RcptNo: **1**

Logged by:	**Tegan A. Richards**	**8/4/2025 1:00:00 PM**	Tegan Richards
Completed By:	**Tegan A. Richards**	**8/5/2025 9:53:36 AM**	Tegan Richards
Reviewed By:	**Jennifer Woolf**	**8/5/2025 8:06:36 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☑ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. Seal Date: 7/31/2025 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:
    state of origin not included

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	23.3	Good			7/31/2025	

Appendix 3

Laboratory Quality Assurance/
Quality Control Data
8.14.2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R370095 **SampType:** MBLK Units **mg/L**

SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	08/19/2025
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	08/19/2025

Batch R370095 **SampType:** LCS Units **mg/L**

SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**232**	250.0	0	92.8	90	110	08/19/2025
Total Dissolved Solids		20		**238**	250.0	0	95.2	90	110	08/19/2025

Batch R370095 **SampType:** DUP Units **mg/L** RPD Limit **10**

SampID: 25080001-029ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**630**				648.0	2.82	08/19/2025

Batch R370095 **SampType:** DUP Units **mg/L** RPD Limit **10**

SampID: 25081198-002BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		29	H	**4570**				4630	1.31	08/19/2025

Batch R370095 **SampType:** DUP Units **mg/L** RPD Limit **10**

SampID: 25081397-003ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**816**				768.0	6.06	08/19/2025

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R369911 **SampType:** MBLK Units **mg/L**

SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**ND**	0.0040	0	0	0	100	08/15/2025
Chloride		0.50		**ND**	0.1000	0	0	0	100	08/15/2025
Sulfate		1.00		**ND**	0.0990	0	0	0	100	08/15/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R369911 **SampType:** LCS Units **mg/L**

SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**0.96**	1.000	0	96.0	90	110	08/15/2025
Chloride		0.50		**20.0**	20.00	0	100.2	90	110	08/15/2025
Sulfate		1.00		**18.6**	20.00	0	93.0	90	110	08/15/2025

Batch R369911 **SampType:** MS Units **mg/L**

SampID: 25080421-004BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**9.61**	10.00	0.3230	92.8	80	120	08/15/2025
Chloride		5.00		**233**	200.0	35.45	98.5	80	120	08/15/2025
Sulfate		10.0		**1140**	200.0	947.9	96.6	80	120	08/15/2025

Batch R369911 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25080421-004BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**9.58**	10.00	0.3230	92.6	9.608	0.31	08/15/2025
Chloride		5.00		**231**	200.0	35.45	97.8	232.5	0.60	08/15/2025
Sulfate		10.0		**1130**	200.0	947.9	93.0	1141	0.63	08/15/2025

Batch R369911 **SampType:** MS Units **mg/L**

SampID: 25081397-006AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.25		**4.76**	5.000	0.2000	91.2	80	120	08/15/2025
Chloride		2.50		**221**	100.0	119.1	101.9	80	120	08/15/2025
Sulfate		5.00		**157**	100.0	67.02	90.1	80	120	08/15/2025

Batch R369911 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25081397-006AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.25		**4.94**	5.000	0.2000	94.8	4.760	3.67	08/15/2025
Chloride		2.50		**226**	100.0	119.1	107.1	221.0	2.34	08/15/2025
Sulfate		5.00		**161**	100.0	67.02	94.3	157.1	2.65	08/15/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R370063 **SampType:** MBLK Units **mg/L**
SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**ND**	0.0040	0	0	0	100	08/19/2025
Chloride		0.50		**ND**	0.1000	0	0	0	100	08/19/2025
Sulfate		1.00		**ND**	0.0990	0	0	0	100	08/19/2025

Batch R370063 **SampType:** LCS Units **mg/L**
SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**1.02**	1.000	0	101.7	90	110	08/19/2025
Chloride		0.50		**19.6**	20.00	0	98.2	90	110	08/19/2025
Sulfate		1.00		**18.4**	20.00	0	92.2	90	110	08/19/2025

Batch R370063 **SampType:** MS Units **mg/L**
SampID: 25080001-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.1**	10.00	0.1440	99.3	80	120	08/19/2025
Chloride		5.00		**212**	200.0	15.38	98.5	80	120	08/19/2025
Sulfate		10.0		**272**	200.0	85.36	93.5	80	120	08/19/2025

Batch R370063 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 25080001-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.5**	10.00	0.1440	103.6	10.08	4.12	08/19/2025
Chloride		5.00		**212**	200.0	15.38	98.4	212.3	0.09	08/19/2025
Sulfate		10.0		**273**	200.0	85.36	93.8	272.3	0.29	08/19/2025

Batch R370063 **SampType:** MS Units **mg/L**
SampID: 25080001-013AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.2**	10.00	0.4290	97.3	80	120	08/19/2025
Chloride		5.00		**226**	200.0	30.99	97.5	80	120	08/19/2025
Sulfate		10.0		**300**	200.0	115.3	92.1	80	120	08/19/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R370063 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25080001-013AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**9.81**	10.00	0.4290	93.8	10.16	3.50	08/19/2025
Chloride		5.00		**219**	200.0	30.99	94.0	226.0	3.14	08/19/2025
Sulfate		10.0		**293**	200.0	115.3	88.7	299.6	2.31	08/19/2025

Batch R370063 **SampType:** MS Units **mg/L**

SampID: 25081323-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		5.00		**106**	100.0	12.67	93.2	80	120	08/19/2025
Chloride		50.0		**16100**	2000	14360	88.4	80	120	08/19/2025
Sulfate		100		**13800**	2000	11740	105.2	80	120	08/19/2025

Batch R370063 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25081323-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		5.00		**107**	100.0	12.67	94.4	105.9	1.11	08/19/2025
Chloride		50.0		**16300**	2000	14360	95.4	16120	0.87	08/19/2025
Sulfate		100		**14000**	2000	11740	113.5	13840	1.19	08/19/2025

Batch R370063 **SampType:** MS Units **mg/L**

SampID: 25081573-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		5.00		**92.0**	100.0	0	92.0	80	120	08/19/2025
Chloride		50.0		**14200**	2000	12230	99.0	80	120	08/19/2025
Sulfate		100		**6390**	2000	4354	101.8	80	120	08/19/2025

Batch R370063 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25081573-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		5.00		**101**	100.0	0	101.1	91.99	9.46	08/19/2025
Chloride		50.0		**13900**	2000	12230	85.9	14210	1.86	08/19/2025
Sulfate		100		**6380**	2000	4354	101.4	6391	0.13	08/19/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 243590 **SampType:** MBLK Units µg/L

SampID: MBLK-243590

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5	JS	**1.8**	0.7000	0	257.1	-100	100	08/19/2025
Beryllium		0.5		**< 0.5**	0.2000	0	0	-100	100	08/19/2025
Boron		20.0		**< 20.0**	9.000	0	0	-100	100	08/19/2025
Cadmium		2.0		**< 2.0**	0.5000	0	0	-100	100	08/19/2025
Calcium		0.100	JS	**0.068**	0.0350	0	194.0	-100	100	08/22/2025
Calcium		0.100	JS	**0.062**	0.0350	0	176.0	-100	100	08/19/2025
Chromium		5.0		**< 5.0**	2.800	0	0	-100	100	08/19/2025

Batch 243590 **SampType:** LCS Units µg/L

SampID: LCS-243590

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5	B	**4040**	4000	0	101.0	85	115	08/19/2025
Beryllium		0.5		**104**	100.0	0	103.6	85	115	08/19/2025
Boron		20.0		**1020**	1000	0	101.6	85	115	08/19/2025
Cadmium		2.0		**98.8**	100.0	0	98.8	85	115	08/19/2025
Calcium		0.100	B	**5.29**	5.000	0	105.8	85	115	08/19/2025
Calcium		0.100	B	**4.76**	5.000	0	95.2	85	115	08/22/2025
Chromium		5.0		**419**	400.0	0	104.7	85	115	08/19/2025

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 243590 **SampType:** MBLK Units µg/L

SampID: MBLK-243590

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	08/21/2025
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	08/21/2025
Cadmium		1.0		**< 1.0**	0.1340	0	0	-100	100	08/21/2025
Cobalt		1.0		**< 1.0**	0.1150	0	0	-100	100	08/21/2025
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	08/21/2025
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	08/21/2025
Molybdenum		1.5		**< 1.5**	0.6000	0	0	-100	100	08/21/2025
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	08/21/2025
Thallium		2.0		**< 2.0**	0.9500	0	0	-100	100	08/21/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25081371

Client Project: NE-3 **Report Date:** 07-Oct-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 243590 **SampType:** LCS Units µg/L

SampID: LCS-243590

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**1130**	1000	0	112.6	80	120	08/21/2025
Arsenic		1.0		**989**	1000	0	98.9	80	120	08/21/2025
Cadmium		1.0		**106**	100.0	0	106.1	80	120	08/21/2025
Cobalt		1.0		**971**	1000	0	97.1	80	120	08/21/2025
Lead		1.0		**1020**	1000	0	101.7	80	120	08/21/2025
Lithium	*	3.0		**965**	1000	0	96.5	80	120	08/21/2025
Molybdenum		1.5		**1050**	1000	0	105.2	80	120	08/21/2025
Selenium		1.0		**1090**	1000	0	109.4	80	120	08/21/2025
Thallium		2.0		**480**	500.0	0	95.9	80	120	08/21/2025

SW-846 7470A (TOTAL)

Batch 243603 **SampType:** MBLK Units µg/L

SampID: MBLK-243603

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	08/19/2025

Batch 243603 **SampType:** LCS Units µg/L

SampID: LCS-243603

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.75**	5.000	0	94.9	85	115	08/19/2025

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25081371
Client Project: NE-3
Report Date: 07-Oct-25

Carrier: UPS
Received By: LEH

Completed by: Emily Kossakoski
On: 15-Aug-25
Emily Kossakoski

Reviewed by: Ellie Hopkins
On: 15-Aug-25
Ellie Hopkins

Pages to follow: Chain of custody 1 Extra pages included 12

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 2.1
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #104524. - AMD/ekossakoski - 8/15/2025 10:00:33 AM

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 25081371

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 2.1 °C LTG# 5
Preserved in: ☐ LAB ☒ FIELD
FOR LAB USE ONLY
Lab Notes 104524 8/15/25

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Client Comments: Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Project Name/Number: NE-3

Sample Collector's Name: Anthony Deuster

Billing/PO#:

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ☐ 3 Day (50% Surcharge)

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
25081371 001	NE-3	8/14/25 0829	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell UPS shipment	8/14/25 1330	UPS shipment	8/15/25 927

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

October 06, 2025

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 25081371

Dear Elizabeth Hurley:

Order No.: 25081580

Alliance Technical Group - Akron received 1 sample(s) on 8/19/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Website: http://www.settek.com

Case Narrative

WO#: **25081580**
Date: **10/6/2025**

CLIENT: TEKLAB Inc,
Project: 25081371

WorkOrder Narrative:
25081580: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Alliance Technical Group - Akro
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Cuyahoga Falls, Ohio 4422
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Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **25081580**
Date: **10/6/2025**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **25081580**
06-Oct-25

CLIENT: TEKLAB Inc,
Project: 25081371

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25081580-001	25081371-001		8/14/2025 8:29:00 AM	8/19/2025 10:30:00 AM	Non-Potable Water

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DATES REPORT

WO#: **25081580**

06-Oct-25

Client: TEKLAB Inc,
Project: 25081371

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25081580-001A	25081371-001	8/14/2025 8:29:00 AM	Non-Potable Water	Radium-226 (EPA 903.0)		9/11/2025 12:50:00 PM	9/23/2025 10:01:00 AM
				Radium-228 (EPA 904.0)		9/24/2025 2:30:00 PM	10/3/2025 3:06:00 PM
				Radium-228 (EPA 904.0)		9/11/2025 12:50:00 PM	9/22/2025 3:59:00 PM

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25081580**

Date Reported: **10/6/2025**

CLIENT: TEKLAB Inc,

Collection Date: 8/14/2025 8:29:00 AM

Project: 25081371

Lab ID: 25081580-001

Matrix: NON-POTABLE WATER

Client Sample ID: 25081371-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SEE**
Radium-226	ND	1.00		pCi/L	± 0.100	1	9/23/2025 10:01:00 AM
Yield	1.00					1	9/23/2025 10:01:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SEE**
Radium-228	ND	1.00		pCi/L	± 0.470	1	10/3/2025 3:06:00 PM
Yield	1.00					1	10/3/2025 3:06:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25081580**

06-Oct-25

Client: TEKLAB Inc,
Project: 25081371 **BatchID:** **87178**

Sample ID: **25081580-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/11/2025** RunNo: **217196**
Client ID: **25081371-001** Batch ID: **87178** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2025** SeqNo: **5790550**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
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Cuyahoga Falls, Ohio 44223
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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25081580**

06-Oct-25

Client: TEKLAB Inc,
Project: 25081371 **BatchID:** **87178**

Sample ID: **MB-87178** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/11/2025** RunNo: **217196**
Client ID: **BatchQC** Batch ID: **87178** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2025** SeqNo: **5790531**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-87178** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/11/2025** RunNo: **217196**
Client ID: **BatchQC** Batch ID: **87178** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2025** SeqNo: **5790532**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.87	1.00	5.000	0	97.4	70	130				

Sample ID: **LCSD-87178** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/11/2025** RunNo: **217196**
Client ID: **BatchQC** Batch ID: **87178** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2025** SeqNo: **5790533**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.15	1.00	5.000	0	103	70	130	4.870	5.59	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25081580**

06-Oct-25

Client: TEKLAB Inc,
Project: 25081371 **BatchID:** **87531**

Sample ID: **MB-87531**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/24/2025**	RunNo: **218111**
Client ID: **BatchQC**	Batch ID: **87531**	TestNo: **E904.0**	**E903-904**	Analysis Date: **10/3/2025**	SeqNo: **5815454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-87531**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/24/2025**	RunNo: **218111**
Client ID: **BatchQC**	Batch ID: **87531**	TestNo: **E904.0**	**E903-904**	Analysis Date: **10/3/2025**	SeqNo: **5815455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.84	1.00	5.000	0	117	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-87531**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/24/2025**	RunNo: **218111**
Client ID: **BatchQC**	Batch ID: **87531**	TestNo: **E904.0**	**E903-904**	Analysis Date: **10/3/2025**	SeqNo: **5815456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.77	1.00	5.000	0	75.4	50	130	5.840	43.1	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25081580**

06-Oct-25

Client: TEKLAB Inc,
Project: 25081371 **BatchID:** **87531**

Sample ID: **25082268-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/24/2025** RunNo: **218111**
Client ID: **BatchQC** Batch ID: **87531** TestNo: **E904.0** **E903-904** Analysis Date: **10/3/2025** SeqNo: **5815469**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	0.13	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Pg ___ of ___ 25081580

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.

Project# 25081371

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 39233 | Phone: (618) 344-1004 ext. 33 | State of Sample Origin = MO

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

28.6 - 0.1 = 28.5

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228											PH	Chr
	25081371-001	8/14/25 0829	HNO3	Aqueous	✔											1	36
			HNO3	Groundwater												1	18
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													

*Relinquished By	Date/Time	Received By	Date/Time
[signature]	8/15/25 1700	[signature] (Fedex)	8/19/25 10:30AM

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, State or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25081580** RcptNo: **1**

Logged by:	**Nick Rigby**	**8/19/2025 10:30:00 AM**
Completed By:	**Nick Rigby**	**8/20/2025 3:40:31 PM**
Reviewed By:	**Jennifer Woolf**	**8/22/2025 5:05:21 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☑ Not Present ☐ NA ☐
   No. Seal Date: 8/15/2025 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	28.5	Good	Yes		8/15/2025	

Appendix 3

Laboratory Quality Assurance/
Quality Control Data
9.8.2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25090667

Client Project: NE-3 **Report Date:** 29-Oct-25

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R371147 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	09/10/2025

Batch R371147 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**244**	250.0	0	97.6	90	110	09/10/2025

Batch R371147 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25090667-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		33		**397**				404.1	1.67	09/10/2025

Batch R371147 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25090446-001BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		500	H	**39400**				36450	7.91	09/10/2025

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R371001 **SampType:** MBLK Units **mg/L**
SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**ND**	0.0040	0	0	0	100	09/09/2025
Chloride		0.50		**ND**	0.1000	0	0	0	100	09/09/2025
Sulfate		1.00		**ND**	0.0990	0	0	0	100	09/09/2025

Batch R371001 **SampType:** LCS Units **mg/L**
SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**1.02**	1.000	0	101.8	90	110	09/09/2025
Chloride		0.50		**21.0**	20.00	0	105.0	90	110	09/09/2025
Sulfate		1.00		**18.9**	20.00	0	94.7	90	110	09/09/2025

Batch R371001 **SampType:** MS Units **mg/L**
SampID: 25090501-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		50.0		**8650**	2000	6437	110.8	80	120	09/09/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25090667

Client Project: NE-3 **Report Date:** 29-Oct-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R371001 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25090501-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		50.0		**8520**	2000	6437	104.3	8654	1.52	09/09/2025

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 244549 **SampType:** MBLK Units **µg/L**

SampID: MBLK-244549

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**< 2.5**	0.7000	0	0	-100	100	09/12/2025
Beryllium		0.5		**< 0.5**	0.2000	0	0	-100	100	09/12/2025
Boron		20.0		**< 20.0**	9.000	0	0	-100	100	09/12/2025
Cadmium		2.0		**< 2.0**	0.5000	0	0	-100	100	09/12/2025
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	09/11/2025
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	09/12/2025
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	09/15/2025
Chromium		5.0		**< 5.0**	2.800	0	0	-100	100	09/12/2025

Batch 244549 **SampType:** LCS Units **µg/L**

SampID: LCS-244549

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**2010**	2000	0	100.5	85	115	09/12/2025
Beryllium		0.5		**1050**	1000	0	105.4	85	115	09/12/2025
Boron		20.0		**1010**	1000	0	101.0	85	115	09/12/2025
Cadmium		2.0		**1950**	2000	0	97.4	85	115	09/12/2025
Calcium		0.100		**4.65**	5.000	0	93.0	85	115	09/15/2025
Calcium		0.100		**4.89**	5.000	0	97.8	85	115	09/12/2025
Calcium		0.100		**4.81**	5.000	0	96.2	85	115	09/11/2025
Chromium		5.0		**1010**	1000	0	100.5	85	115	09/12/2025

Batch 244549 **SampType:** MS Units **mg/L**

SampID: 25090650-005CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Lead		0.0150		**1.99**	2.000	0.04800	97.3	75	125	09/11/2025

Batch 244549 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 25090650-005CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Lead		0.0150		**1.95**	2.000	0.04800	95.2	1.995	2.11	09/11/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25090667

Client Project: NE-3 **Report Date:** 29-Oct-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 244549 **SampType:** MBLK Units µg/L

SampID: MBLK-244549

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	09/10/2025
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	09/10/2025
Cobalt		1.0		**< 1.0**	0.1150	0	0	-100	100	09/10/2025
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	09/10/2025
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	09/10/2025
Molybdenum		1.5		**< 1.5**	0.6000	0	0	-100	100	09/10/2025
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	09/10/2025
Thallium		2.0		**< 2.0**	0.9500	0	0	-100	100	09/10/2025

Batch 244549 **SampType:** LCS Units µg/L

SampID: LCS-244549

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**1040**	1000	0	103.6	80	120	09/10/2025
Arsenic		1.0		**1020**	1000	0	102.1	80	120	09/10/2025
Cobalt		1.0		**981**	1000	0	98.1	80	120	09/10/2025
Lead		1.0		**2100**	2000	0	105.2	80	120	09/10/2025
Lithium	*	3.0		**949**	1000	0	94.9	80	120	09/10/2025
Molybdenum		1.5		**1040**	1000	0	103.5	80	120	09/10/2025
Selenium		1.0		**1070**	1000	0	106.9	80	120	09/10/2025
Thallium		2.0		**952**	1000	0	95.2	80	120	09/10/2025

SW-846 7470A (TOTAL)

Batch 244552 **SampType:** MBLK Units µg/L

SampID: MBLK-244552

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	09/10/2025

Batch 244552 **SampType:** LCS Units µg/L

SampID: LCS-244552

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.89**	5.000	0	97.9	85	115	09/10/2025

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25090667
Client Project: NE-3
Report Date: 29-Oct-25

Carrier: UPS
Received By: DM

Completed by: Laura E Henson
On: 09-Sep-25

Reviewed by: Ellie Hopkins
On: 09-Sep-25

Pages to follow: Chain of custody 1 Extra pages included 13

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 4.1
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #104524. -DM/ lhenson - 9/9/2025 12:48:39 PM

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 25090667

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 4.1 °C LTG# 9

Preserved in: ☐ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes
PH:104524

An: 9-9-25

Client Comments:

Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: NE-3

Sample Collector's Name: Justin Lowes

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS	. .
25090667-001	NE-3	9/8/25 1047	1	3																			

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	9/8/25 1315	UPS shipment	
UPS shipment	9/9/25 1009		9/9/25 1009

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

October 28, 2025

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 25090667

Dear Elizabeth Hurley:

Order No.: 25091128

Alliance Technical Group - Akron received 1 sample(s) on 9/15/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Alliance Technical Group - Akron
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Website: http://www.settek.com

Case Narrative

WO#: **25091128**
Date: **10/28/2025**

CLIENT: TEKLAB Inc,
Project: 25090667

WorkOrder Narrative:
25091128: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

WorkOrder Comments:
State required accreditation not specified; results may not be reported as certified data.

Analytical Sequence QC Notes:
LCS/LCSD-89215 Radium-228_DW(904.0): LCS exhibits low recovery. LCS and LCSD exhibit high RPD due to LCS failing; LCSD recovery is within acceptable limits. LCSD and QCS demonstrate control.

Alliance Technical Group - Akr
3310 Win S
Cuyahoga Falls, Ohio 442
TEL: (330) 253-8211 FAX: (330) 253-44
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **25091128**
Date: **10/28/2025**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **25091128**

28-Oct-25

CLIENT: TEKLAB Inc,
Project: 25090667

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25091128-001	25090667-001B		9/8/2025 10:47:00 AM	9/15/2025 10:28:00 AM	Non-Potable Water

Alliance Technical Group - Akron
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Website: http://www.settek.com

DATES REPORT

WO#: **25091128**

28-Oct-25

Client: TEKLAB Inc,

Project: 25090667

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25091128-001A	25090667-001B	9/8/2025 10:47:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		10/16/2025 12:40:00 PM	10/24/2025 11:14:00 AM
				Radium-226 (EPA 903.0)		10/16/2025 12:40:00 PM	10/24/2025 11:14:00 AM
				Radium-228 (EPA 904.0)		10/16/2025 12:40:00 PM	10/23/2025 1:06:00 PM

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
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Analytical Report

(consolidated)

WO#: **25091128**

Date Reported: **10/28/2025**

CLIENT: TEKLAB Inc,

Collection Date: 9/8/2025 10:47:00 AM

Project: 25090667

Lab ID: 25091128-001

Matrix: NON-POTABLE WATER

Client Sample ID: 25090667-001B

Analyses	Result	MDL	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228						**EPA903+904**	**900 SERIES**	Analyst: **SEE**
COMBINED RADIUM (EPA903+904)								
Radium-226/Radium-228	0.29	2.00	2.00	U	pCi/L	± 0.6	1	10/24/2025 11:14:00 AM
RAD226/228						**EPA 903.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-226 (EPA 903.0)								
Radium-226	0.21	0.627	1.00	U	pCi/L	± 0.08	1	10/24/2025 11:14:00 AM
Yield	1						1	10/24/2025 11:14:00 AM
RAD226/228						**EPA 904.0 1980**	**900 SERIES**	Analyst: **SEE**
RADIUM-228 (EPA 904.0)								
Radium-228	0.08	0.640	1.00	U	pCi/L	± 0.52	1	10/23/2025 1:06:00 PM
Yield	1						1	10/23/2025 1:06:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
U	Samples with CalcVal < MDL

Alliance Technical Group - Akron
3310 Win St.
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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25091128**

28-Oct-25

Client: TEKLAB Inc,
Project: 25090667 **BatchID:** **89215**

Sample ID: **25091128-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **10/16/2025** RunNo: **219541**
Client ID: **25090667-001B** Batch ID: **89215** TestNo: **E904.0** **E903-904** Analysis Date: **10/23/2025** SeqNo: **5854849**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	U
Yield	0.870			0	0			1.000	13.9		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25091128**

28-Oct-25

Client: TEKLAB Inc,
Project: 25090667 **BatchID:** **89215**

Sample ID: **MB-89215**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **10/16/2025**	RunNo: **219541**
Client ID: **BatchQC**	Batch ID: **89215**	TestNo: **E904.0**	**E903-904**	Analysis Date: **10/23/2025**	SeqNo: **5854824**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	1.00			0	0						

Sample ID: **LCSD-89215**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **10/16/2025**	RunNo: **219541**
Client ID: **BatchQC**	Batch ID: **89215**	TestNo: **E904.0**	**E903-904**	Analysis Date: **10/23/2025**	SeqNo: **5854826**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.42	1.00	5.000	0	68.4	50	130	1.860	59.1	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **25091127-001ADUP**	SampType: **DUP**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **10/16/2025**	RunNo: **219541**
Client ID: **BatchQC**	Batch ID: **89215**	TestNo: **E904.0**	**E903-904**	Analysis Date: **10/23/2025**	SeqNo: **5854847**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	U
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25091128**

28-Oct-25

Client: TEKLAB Inc,
Project: 25090667 **BatchID:** **89215**

Sample ID: **25091128-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **10/16/2025** RunNo: **219543**
Client ID: **25090667-001B** Batch ID: **89215** TestNo: **E903.0** **E903-904** Analysis Date: **10/24/2025** SeqNo: **5854952**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	U
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25091128**

28-Oct-25

Client: TEKLAB Inc,
Project: 25090667 **BatchID:** **89215**

Sample ID: **MB-89215**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **10/16/2025**	RunNo: **219543**
Client ID: **BatchQC**	Batch ID: **89215**	TestNo: **E903.0**	**E903-904**	Analysis Date: **10/24/2025**	SeqNo: **5854931**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	1.00										

Sample ID: **LCS-89215**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **10/16/2025**	RunNo: **219543**
Client ID: **BatchQC**	Batch ID: **89215**	TestNo: **E903.0**	**E903-904**	Analysis Date: **10/24/2025**	SeqNo: **5854932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.57	1.00	5.000	0	91.4	70	130				

Sample ID: **LCSD-89215**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **10/16/2025**	RunNo: **219543**
Client ID: **BatchQC**	Batch ID: **89215**	TestNo: **E903.0**	**E903-904**	Analysis Date: **10/24/2025**	SeqNo: **5854933**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.93	1.00	5.000	0	98.6	70	130	4.570	7.58	20	

Sample ID: **25091127-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **10/16/2025**	RunNo: **219543**
Client ID: **BatchQC**	Batch ID: **89215**	TestNo: **E903.0**	**E903-904**	Analysis Date: **10/24/2025**	SeqNo: **5854950**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

Original

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3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25091128**

28-Oct-25

Client: TEKLAB Inc,
Project: 25090667 **BatchID:** **89215**

Sample ID: **25091127-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **10/16/2025** RunNo: **219543**
Client ID: **BatchQC** Batch ID: **89215** TestNo: **E903.0** **E903-904** Analysis Date: **10/24/2025** SeqNo: **5854950**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	U
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

2509 1128

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Analyze for Radium 226/228 per your normal method/s.
Method changes require Teklab authorization. Samples collected from an IL site.
Batch QC is required for all analyses requested.

Project# 25090667

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 39347
Phone: 618-344-1004 ex 33 State of Sample Origin =MO

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228	Radium 226	Radium 228										
QPM 28, 44	25090667-001B	09/08/2025 10:47	HNO3	Aqueous	✔	✔	✔										
QPM 42, 42			HNO3	Aqueous													
			HNO3	Aqueous													
			HNO3	Aqueous													
			HNO3	Aqueous													
			HNO3	Aqueous													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													

*Relinquished By	Date/Time	Received By	Date/Time
		UPS 1028	9/15/25
		Fedex 1028	custody 9/16/25
		21.8 - 0.0 = 22	

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Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25091128** RcptNo: **1**

Logged by:	**Spencer M. Hartwell**	**9/15/2025 10:28:00 AM**	Spencer M. Hartwell
Completed By:	**Christopher Stefan**	**9/15/2025 2:10:27 PM**	Christopher Stefan
Reviewed By:	**Jennifer Woolf**	**9/19/2025 8:25:22 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☑ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. Seal Date: 9/10/2025 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

no relinquish date or time
both MO & IL noted as state of origin

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	22	Good	Yes		9/10/2025	

Appendix 3

Laboratory Quality Assurance/
Quality Control Data
10.7.2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25100713

Client Project: NE-3 **Report Date:** 03-Dec-25

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R372771 **SampType:** MBLK Units **mg/L**

SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/09/2025
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/09/2025
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/09/2025

Batch R372771 **SampType:** LCS Units **mg/L**

SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**244**	250.0	0	97.6	90	110	10/09/2025
Total Dissolved Solids		20		**236**	250.0	0	94.4	90	110	10/09/2025
Total Dissolved Solids		20		**234**	250.0	0	93.6	90	110	10/09/2025

Batch R372771 **SampType:** DUP Units **mg/L** RPD Limit **10**

SampID: 25092190-011ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**668**				662.0	0.90	10/09/2025

Batch R372771 **SampType:** DUP Units **mg/L** RPD Limit **10**

SampID: 25100572-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**466**				468.0	0.43	10/09/2025

Batch R372771 **SampType:** DUP Units **mg/L** RPD Limit **10**

SampID: 25100633-003ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**452**				442.0	2.24	10/09/2025

Batch R372771 **SampType:** DUP Units **mg/L** RPD Limit **10**

SampID: 25100682-001BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**654**				638.0	2.48	10/09/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25100713

Client Project: NE-3 **Report Date:** 03-Dec-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R372798 **SampType:** MBLK Units **mg/L**
SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**ND**	0.0040	0	0	0	100	10/10/2025
Chloride		0.50		**ND**	0.1000	0	0	0	100	10/10/2025
Sulfate		1.00		**ND**	0.0990	0	0	0	100	10/10/2025

Batch R372798 **SampType:** LCS Units **mg/L**
SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**0.95**	1.000	0	95.0	90	110	10/10/2025
Chloride		0.50		**19.7**	20.00	0	98.7	90	110	10/10/2025
Sulfate		1.00		**18.3**	20.00	0	91.5	90	110	10/10/2025

Batch R372798 **SampType:** MS Units **mg/L**
SampID: 25100786-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		5.00		**81.6**	100.0	0	81.6	80	120	10/11/2025
Chloride		50.0		**8290**	2000	6473	91.0	80	120	10/11/2025
Sulfate		100		**4750**	2000	2759	99.7	80	120	10/11/2025

Batch R372798 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 25100786-001CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		5.00		**80.0**	100.0	0	80.0	81.65	2.00	10/11/2025
Chloride		50.0	S	**9230**	2000	6473	137.9	8293	10.72	10/11/2025
Sulfate		100	S	**5300**	2000	2759	127.2	4752	10.95	10/11/2025

Batch R372798 **SampType:** MS Units **mg/L**
SampID: 25100786-002CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		5.00		**95.1**	100.0	0	95.1	80	120	10/11/2025
Chloride		50.0	S	**8250**	2000	7217	51.8	80	120	10/11/2025
Sulfate		100		**4890**	2000	3279	80.4	80	120	10/11/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25100713

Client Project: NE-3 **Report Date:** 03-Dec-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R372798 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25100786-002CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		5.00		**94.9**	100.0	0	94.9	95.08	0.23	10/11/2025
Chloride		50.0	S	**8350**	2000	7217	56.8	8254	1.20	10/11/2025
Sulfate		100		**4930**	2000	3279	82.3	4886	0.81	10/11/2025

Batch R372798 **SampType:** MS Units **mg/L**

SampID: 25100900-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**9.64**	10.00	0.2600	93.8	80	120	10/11/2025
Chloride		5.00		**568**	200.0	374.1	96.9	80	120	10/11/2025
Sulfate		10.0		**339**	200.0	151.2	93.7	80	120	10/11/2025

Batch R372798 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25100900-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**9.46**	10.00	0.2600	92.0	9.643	1.88	10/11/2025
Chloride		5.00		**565**	200.0	374.1	95.6	568.0	0.45	10/11/2025
Sulfate		10.0		**336**	200.0	151.2	92.5	338.5	0.71	10/11/2025

Batch R372798 **SampType:** MS Units **mg/L**

SampID: 25100937-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**9.82**	10.00	0.06800	97.6	80	120	10/10/2025
Chloride		5.00		**263**	200.0	50.95	106.1	80	120	10/10/2025
Sulfate		10.0		**540**	200.0	340.5	99.5	80	120	10/10/2025

Batch R372798 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25100937-003BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**9.48**	10.00	0.06800	94.1	9.825	3.57	10/10/2025
Chloride		5.00		**255**	200.0	50.95	102.1	263.1	3.04	10/10/2025
Sulfate		10.0		**532**	200.0	340.5	95.9	539.6	1.35	10/10/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25100713

Client Project: NE-3 **Report Date:** 03-Dec-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R372798 **SampType:** MS Units **mg/L**

SampID: 25100972-004AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**12.8**	10.00	3.019	98.2	80	120	10/11/2025
Chloride		5.00		**297**	200.0	84.14	106.7	80	120	10/11/2025
Sulfate		10.0		**189**	200.0	1.658	93.5	80	120	10/11/2025

Batch R372798 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25100972-004AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**12.5**	10.00	3.019	94.7	12.84	2.83	10/11/2025
Chloride		5.00		**291**	200.0	84.14	103.3	297.5	2.29	10/11/2025
Sulfate		10.0		**181**	200.0	1.658	89.7	188.7	4.11	10/11/2025

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 246019 **SampType:** MBLK Units **µg/L**

SampID: MBLK-246019

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**< 2.5**	0.7000	0	0	-100	100	10/09/2025
Beryllium		0.5		**< 0.5**	0.2000	0	0	-100	100	10/09/2025
Boron		20.0		**< 20.0**	9.000	0	0	-100	100	10/09/2025
Cadmium		2.0		**< 2.0**	0.5000	0	0	-100	100	10/09/2025
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/09/2025
Chromium		5.0		**< 5.0**	2.800	0	0	-100	100	10/09/2025

Batch 246019 **SampType:** LCS Units **µg/L**

SampID: LCS-246019

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**1940**	2000	0	96.8	85	115	10/09/2025
Beryllium		0.5		**985**	1000	0	98.5	85	115	10/09/2025
Boron		20.0		**956**	1000	0	95.6	85	115	10/09/2025
Cadmium		2.0		**2060**	2000	0	103.1	85	115	10/09/2025
Calcium		0.100		**4.87**	5.000	0	97.5	85	115	10/09/2025
Chromium		5.0		**986**	1000	0	98.6	85	115	10/09/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25100713

Client Project: NE-3 **Report Date:** 03-Dec-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 246019 **SampType:** MBLK Units µg/L

SampID: MBLK-246019

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0	JS	**0.5**	0.4500	0	117.7	-100	100	10/09/2025
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	10/09/2025
Cobalt		1.0		**< 1.0**	0.1150	0	0	-100	100	10/09/2025
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	10/09/2025
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	10/09/2025
Molybdenum		1.5	S	**8.1**	0.6000	0	1348	-100	100	10/09/2025
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	10/09/2025
Thallium		2.0	JS	**1.0**	0.9500	0	100.3	-100	100	10/09/2025

Batch 246019 **SampType:** LCS Units µg/L

SampID: LCS-246019

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0	BSE	**1250**	1000	0	125.4	80	120	10/09/2025
Arsenic		1.0		**1020**	1000	0	102.3	80	120	10/09/2025
Cobalt		1.0		**967**	1000	0	96.7	80	120	10/09/2025
Lead		1.0		**2260**	2000	0	112.9	80	120	10/09/2025
Lithium	*	3.0		**1030**	1000	0	102.6	80	120	10/09/2025
Molybdenum		1.5	B	**1080**	1000	0	107.7	80	120	10/09/2025
Selenium		1.0		**1070**	1000	0	107.4	80	120	10/09/2025
Thallium		2.0	B	**1030**	1000	0	103.3	80	120	10/09/2025

SW-846 7470A (TOTAL)

Batch 246078 **SampType:** MBLK Units µg/L

SampID: MBLK-246078

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	10/10/2025

Batch 246078 **SampType:** LCS Units µg/L

SampID: LCS-246078

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.62**	5.000	0	92.4	85	115	10/10/2025

Batch 246078 **SampType:** MS Units µg/L

SampID: 25092190-059HMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.87**	5.000	0	97.5	75	125	10/10/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25100713

Client Project: NE-3 **Report Date:** 03-Dec-25

SW-846 7470A (TOTAL)

Batch **246078** **SampType:** **MSD** Units **µg/L** RPD Limit **15**

SampID: 25092190-059HMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20		**4.86**	5.000	0	97.2	4.875	0.26	10/10/2025

Receiving Check List

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25100713
Client Project: NE-3
Report Date: 03-Dec-25

Carrier: UPS
Received By: JMD

Completed by: Emily Kossakoski
On: 08-Oct-25
Emily Kossakoski

Reviewed by: Elizabeth A. Hurley
On: 08-Oct-25
Elizabeth A. Hurley

Pages to follow: Chain of custody 1 Extra pages included 12

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 2.7
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #104524. - JD/ekossakoski - 10/8/2025 5:05:16 PM

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 25100713

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities		
Address:	Sikeston Power Station		
City / State / Zip	Sikeston, MO 63801		
Contact:	Luke St. Mary	**Phone:**	
E-Mail:	lstmary@sbmu.net	**Fax:**	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 2.7 °C LTG# 5
Preserved in: ☐ LAB ☒ FIELD
Lab Notes PH 104524

FOR LAB USE ONLY

JO 10/8/25

Client Comments: Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number	Sample Collector's Name
NE-3	Justin Lowes

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
25100713-001	NE-3	10/7/25 10:05	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	10/7/25 11:30	UPS shipment	
UPS shipment		Jose Due	10/8/25 9:52

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

December 02, 2025

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 25100713

Dear Elizabeth Hurley:

Order No.: 25101084

Alliance Technical Group - Akron received 1 sample(s) on 10/13/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **25101084**
Date: **12/2/2025**

CLIENT: TEKLAB Inc,
Project: 25100713

WorkOrder Narrative:
25101084: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:
LCS/LCSD-90009 Radium-228_DW(904.0): LCS and LCSD exhibit high RPD. Individually each meet required criteria

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
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Qualifiers and Acronyms

WO#: **25101084**
Date: **12/2/2025**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Alliance Technical Group - Akron
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Workorder Sample Summary

WO#: **25101084**

02-Dec-25

CLIENT: TEKLAB Inc,
Project: 25100713

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25101084-001	25100713-001		10/7/2025 10:05:00 AM	10/13/2025 1:50:00 PM	Non-Potable Water

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DATES REPORT

WO#: **25101084**

02-Dec-25

Client: TEKLAB Inc,
Project: 25100713

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25101084-001A	25100713-001	10/7/2025 10:05:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		11/17/2025 12:44:00 PM	11/26/2025 9:29:00 AM
				Radium-226 (EPA 903.0)		11/17/2025 12:44:00 PM	11/26/2025 9:29:00 AM
				Radium-228 (EPA 904.0)		11/17/2025 12:44:00 PM	11/25/2025 12:36:00 PM

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25101084**

Date Reported: **12/2/2025**

CLIENT: TEKLAB Inc,
Project: 25100713
Lab ID: 25101084-001
Client Sample ID: 25100713-001

Collection Date: 10/7/2025 10:05:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **SEE**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.740	1	11/26/2025 9:29:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SEE**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	11/26/2025 9:29:00 AM
Yield	1.00					1	11/26/2025 9:29:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SEE**
Radium-228	ND	1.00		pCi/L	± 0.680	1	11/25/2025 12:36:00 PM
Yield	0.990					1	11/25/2025 12:36:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
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Cuyahoga Falls, Ohio 44223
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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25101084**

02-Dec-25

Client: TEKLAB Inc,
Project: 25100713 **BatchID:** **90009**

Sample ID: **LCS-90009** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/17/2025** RunNo: **221951**
Client ID: **BatchQC** Batch ID: **90009** TestNo: **E904.0** **E903-904** Analysis Date: **11/25/2025** SeqNo: **5919662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	6.19	1.00	5.000	0	124	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-90009** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/17/2025** RunNo: **221951**
Client ID: **BatchQC** Batch ID: **90009** TestNo: **E904.0** **E903-904** Analysis Date: **11/25/2025** SeqNo: **5919663**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.49	1.00	5.000	0	69.8	50	130	6.190	55.8	20	R
Yield	0.990			0	0			1.000	1.01		

Sample ID: **25101089-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/17/2025** RunNo: **221951**
Client ID: **BatchQC** Batch ID: **90009** TestNo: **E904.0** **E903-904** Analysis Date: **11/25/2025** SeqNo: **5919677**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			0.9100	9.42		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25101084**

02-Dec-25

Client: TEKLAB Inc,
Project: 25100713 **BatchID:** **90009**

Sample ID: **MB-90009** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/17/2025** RunNo: **221951**
Client ID: **BatchQC** Batch ID: **90009** TestNo: **E904.0** **E903-904** Analysis Date: **11/25/2025** SeqNo: **5919679**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25101084**

02-Dec-25

Client: TEKLAB Inc,
Project: 25100713 **BatchID:** **90009**

Sample ID: **MB-90009**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/17/2025**	RunNo: **221966**
Client ID: **BatchQC**	Batch ID: **90009**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/26/2025**	SeqNo: **5919916**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	0.990										

Sample ID: **LCS-90009**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/17/2025**	RunNo: **221966**
Client ID: **BatchQC**	Batch ID: **90009**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/26/2025**	SeqNo: **5919917**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.95	1.00	5.000	0	99.0	70	130				

Sample ID: **LCSD-90009**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/17/2025**	RunNo: **221966**
Client ID: **BatchQC**	Batch ID: **90009**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/26/2025**	SeqNo: **5919918**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.58	1.00	5.000	0	91.6	70	130	4.950	7.76	20	

Sample ID: **25101088-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **11/17/2025**	RunNo: **221966**
Client ID: **BatchQC**	Batch ID: **90009**	TestNo: **E903.0**	**E903-904**	Analysis Date: **11/26/2025**	SeqNo: **5919940**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25101084**

02-Dec-25

Client: TEKLAB Inc,
Project: 25100713 **BatchID:** **90009**

Sample ID: **25101088-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/17/2025** RunNo: **221966**
Client ID: **BatchQC** Batch ID: **90009** TestNo: **E903.0** **E903-904** Analysis Date: **11/26/2025** SeqNo: **5919940**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **25101089-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/17/2025** RunNo: **221966**
Client ID: **BatchQC** Batch ID: **90009** TestNo: **E903.0** **E903-904** Analysis Date: **11/26/2025** SeqNo: **5919942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							0.9200	8.33	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

25101084

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc.
Batch QC and standard EDD are required. State of Sample Origin = MO

Project# 25100713

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 39552 | Phone: (618) 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	Combined Radium					PH					Chl
	25100713-001	10/7/25 10:05	HNO3	Groundwater	✔	✔					1,1					28,28
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												

*Relinquished By	Date/Time	Received By	Date/Time
Emily Karsakoski		(FEDEX)	10/13/25 13:50

19.3 + 0.2 = 19.5

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25101084** RcptNo: **1**

Logged by:	**Nick Rigby**	**10/13/2025 1:50:00 PM**
Completed By:	**Nick Rigby**	**10/13/2025 3:22:26 PM**
Reviewed By:	**Jennifer Woolf**	**10/14/2025 5:52:47 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. Seal Date: 10/6/2025 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	19.5	Good	Yes		10/6/2025	

Appendix 3

Laboratory Quality Assurance/
Quality Control Data
10.23.2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25102245

Client Project: NE-3 **Report Date:** 29-Dec-25

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R373690 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/27/2025
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/27/2025

Batch R373690 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**246**	250.0	0	98.4	90	110	10/27/2025
Total Dissolved Solids		20		**252**	250.0	0	100.8	90	110	10/27/2025

Batch R373690 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25100456-002ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**588**				630.0	6.90	10/27/2025

Batch R373690 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25100456-022ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**582**				594.0	2.04	10/27/2025

Batch R373690 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25101544-005BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		40		**4040**				3956	2.20	10/27/2025

Batch R373690 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25102376-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		33		**2090**				2057	1.77	10/27/2025

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R373569 **SampType:** MBLK Units **mg/L**
SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**ND**	0.0040	0	0	0	100	10/24/2025
Chloride		0.50		**ND**	0.1000	0	0	0	100	10/24/2025
Sulfate		1.00		**ND**	0.0990	0	0	0	100	10/24/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25102245

Client Project: NE-3 **Report Date:** 29-Dec-25

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R373569 **SampType:** LCS Units **mg/L**

SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**1.01**	1.000	0	101.2	90	110	10/24/2025
Chloride		0.50		**20.9**	20.00	0	104.5	90	110	10/24/2025
Sulfate		1.00		**19.0**	20.00	0	94.8	90	110	10/24/2025

Batch R373569 **SampType:** MS Units **mg/L**

SampID: 25100456-078AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.3**	10.00	0.1840	100.9	80	120	10/24/2025
Chloride		5.00		**211**	200.0	3.752	103.6	80	120	10/24/2025
Sulfate		10.0		**723**	200.0	512.4	105.2	80	120	10/24/2025

Batch R373569 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25100456-078AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.1**	10.00	0.1840	98.9	10.27	2.00	10/24/2025
Chloride		5.00		**206**	200.0	3.752	101.3	210.9	2.20	10/24/2025
Sulfate		10.0		**718**	200.0	512.4	103.0	722.9	0.63	10/24/2025

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 246893 **SampType:** MBLK Units **µg/L**

SampID: MBLK-246893

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**< 2.5**	0.7000	0	0	-100	100	10/28/2025
Beryllium		0.5		**< 0.5**	0.2000	0	0	-100	100	10/28/2025
Boron		20.0		**< 20.0**	9.000	0	0	-100	100	10/28/2025
Cadmium		2.0		**< 2.0**	0.5000	0	0	-100	100	10/28/2025
Calcium		0.100	JS	**0.035**	0.0350	0	100.9	-100	100	10/28/2025
Chromium		5.0		**< 5.0**	2.800	0	0	-100	100	10/28/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25102245

Client Project: NE-3 **Report Date:** 29-Dec-25

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 246893 **SampType:** LCS Units µg/L

SampID: LCS-246893

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**1940**	2000	0	96.8	85	115	10/28/2025
Beryllium		0.5		**988**	1000	0	98.8	85	115	10/28/2025
Boron		20.0		**950**	1000	0	95.0	85	115	10/28/2025
Cadmium		2.0		**1910**	2000	0	95.5	85	115	10/28/2025
Calcium		0.100	B	**4.75**	5.000	0	94.9	85	115	10/28/2025
Chromium		5.0		**944**	1000	0	94.4	85	115	10/28/2025

Batch 246893 **SampType:** MS Units mg/L

SampID: 25100456-066BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	BS	**122**	5.000	114.8	150.6	75	125	10/28/2025

Batch 246893 **SampType:** MSD Units mg/L RPD Limit 20

SampID: 25100456-066BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	BS	**121**	5.000	114.8	126.6	122.3	0.99	10/28/2025

Batch 246893 **SampType:** MS Units mg/L

SampID: 25100456-100BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	B	**113**	5.000	108.9	89.6	75	125	10/28/2025

Batch 246893 **SampType:** MSD Units mg/L RPD Limit 20

SampID: 25100456-100BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	B	**114**	5.000	108.9	98.2	113.4	0.38	10/28/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25102245

Client Project: NE-3 **Report Date:** 29-Dec-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 246893 **SampType:** MBLK Units µg/L

SampID: MBLK-246893

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	10/27/2025
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	10/27/2025
Barium		1.0		**< 1.0**	0.7000	0	0	-100	100	10/28/2025
Beryllium		1.0		**< 1.0**	0.2500	0	0	-100	100	10/27/2025
Boron		25.0		**< 25.0**	9.250	0	0	-100	100	10/27/2025
Cadmium		1.0		**< 1.0**	0.1340	0	0	-100	100	10/27/2025
Chromium		1.5		**< 1.5**	0.7000	0	0	-100	100	10/28/2025
Chromium		1.5		**< 1.5**	0.7000	0	0	-100	100	10/27/2025
Cobalt		1.0		**< 1.0**	0.1150	0	0	-100	100	10/27/2025
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	10/27/2025
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	10/27/2025
Molybdenum		1.5		**< 1.5**	0.6000	0	0	-100	100	10/27/2025
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	10/27/2025
Thallium		2.0		**< 2.0**	0.9500	0	0	-100	100	10/27/2025

Batch 246893 **SampType:** LCS Units µg/L

SampID: LCS-246893

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**848**	1000	0	84.8	80	120	10/27/2025
Arsenic		1.0		**949**	1000	0	94.9	80	120	10/27/2025
Beryllium		1.0		**974**	1000	0	97.4	80	120	10/27/2025
Boron		25.0		**973**	1000	0	97.3	80	120	10/27/2025
Cadmium		1.0	E	**2010**	2000	0	100.4	80	120	10/27/2025
Chromium		1.5		**828**	1000	0	82.8	80	120	10/27/2025
Chromium		1.5		**949**	1000	0	94.9	80	120	10/29/2025
Cobalt		1.0		**944**	1000	0	94.4	80	120	10/27/2025
Lead		1.0		**1910**	2000	0	95.6	80	120	10/27/2025
Lithium	*	3.0		**996**	1000	0	99.6	80	120	10/27/2025
Molybdenum		1.5		**871**	1000	0	87.1	80	120	10/27/2025
Selenium		1.0		**892**	1000	0	89.2	80	120	10/27/2025
Thallium		2.0		**957**	1000	0	95.7	80	120	10/27/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25102245

Client Project: NE-3 **Report Date:** 29-Dec-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 246893 **SampType:** MS Units µg/L

SampID: 25100456-066BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**872**	1000	0	87.2	75	125	10/27/2025
Arsenic		1.0		**968**	1000	0	96.8	75	125	10/27/2025
Barium		1.0		**2230**	2000	15.00	111.0	75	125	10/28/2025
Beryllium		1.0		**1040**	1000	0	104.1	75	125	10/27/2025
Boron		25.0		**2890**	1000	1901	99.2	75	125	10/27/2025
Cadmium		1.0	E	**2010**	2000	0.1589	100.7	75	125	10/27/2025
Chromium		1.5		**811**	1000	0	81.1	75	125	10/28/2025
Cobalt		1.0		**970**	1000	1.256	96.8	75	125	10/27/2025
Lead		1.0		**1990**	2000	0	99.6	75	125	10/27/2025
Lithium	*	3.0		**1060**	1000	6.498	105.2	75	125	10/27/2025
Molybdenum		1.5		**903**	1000	0	90.3	75	125	10/27/2025
Selenium		1.0		**915**	1000	0	91.5	75	125	10/27/2025
Thallium		2.0		**1010**	1000	0	101.4	75	125	10/27/2025

Batch 246893 **SampType:** MSD Units µg/L RPD Limit **20**

SampID: 25100456-066BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		**878**	1000	0	87.8	872.4	0.62	10/27/2025
Arsenic		1.0		**986**	1000	0	98.6	968.2	1.80	10/27/2025
Barium		1.0		**2180**	2000	15.17	108.2	2151	1.35	10/28/2025
Beryllium		1.0		**1050**	1000	0	104.6	1041	0.46	10/27/2025
Boron		25.0		**2860**	1000	1901	95.7	2894	1.22	10/27/2025
Cadmium		1.0	E	**2050**	2000	0.1589	102.5	2014	1.80	10/27/2025
Chromium		1.5		**814**	1000	0	81.4	828.1	1.67	10/28/2025
Cobalt		1.0		**995**	1000	1.256	99.4	969.5	2.63	10/27/2025
Lead		1.0		**2060**	2000	0	102.9	1991	3.24	10/27/2025
Lithium	*	3.0		**1060**	1000	6.498	105.4	1058	0.24	10/27/2025
Molybdenum		1.5		**910**	1000	0	91.0	902.8	0.77	10/27/2025
Selenium		1.0		**912**	1000	0	91.2	914.9	0.35	10/27/2025
Thallium		2.0		**1030**	1000	0	102.5	1014	1.08	10/27/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25102245

Client Project: NE-3 **Report Date:** 29-Dec-25

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 246893 **SampType:** MS Units µg/L

SampID: 25100456-100BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**876**	1000	0	87.6	75	125	10/27/2025
Beryllium		1.0		**1030**	1000	0	102.5	75	125	10/27/2025
Cadmium		1.0	E	**2030**	2000	0	101.5	75	125	10/27/2025
Chromium		1.5		**813**	1000	0	81.3	75	125	10/28/2025
Cobalt		1.0		**987**	1000	0.2617	98.7	75	125	10/27/2025
Lead		1.0		**2060**	2000	0	103.0	75	125	10/27/2025
Lithium	*	3.0		**1020**	1000	1.805	102.1	75	125	10/27/2025
Selenium		1.0		**938**	1000	0	93.8	75	125	10/27/2025
Thallium		2.0		**1040**	1000	0	104.2	75	125	10/27/2025

Batch 246893 **SampType:** MSD Units µg/L RPD Limit **20**

SampID: 25100456-100BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		**923**	1000	0	92.3	876.2	5.23	10/27/2025
Beryllium		1.0		**1030**	1000	0	103.3	1025	0.82	10/27/2025
Cadmium		1.0	E	**2090**	2000	0	104.4	2029	2.89	10/27/2025
Chromium		1.5		**804**	1000	0	80.4	813.1	1.11	10/28/2025
Cobalt		1.0		**985**	1000	0.2617	98.4	986.9	0.24	10/27/2025
Lead		1.0		**2010**	2000	0	100.5	2061	2.51	10/27/2025
Lithium	*	3.0		**1040**	1000	1.805	103.5	1023	1.36	10/27/2025
Selenium		1.0		**993**	1000	0	99.3	938.4	5.62	10/27/2025
Thallium		2.0		**1010**	1000	0	101.4	1042	2.76	10/27/2025

SW-846 7470A (TOTAL)

Batch 246897 **SampType:** MBLK Units µg/L

SampID: MBLK-246897

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	10/28/2025

Batch 246897 **SampType:** LCS Units µg/L

SampID: LCS-246897

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**5.68**	5.000	0	113.6	85	115	10/28/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25102245

Client Project: NE-3 **Report Date:** 29-Dec-25

SW-846 7470A (TOTAL)

Batch 246897 **SampType:** MS Units **µg/L**

SampID: 25100456-065BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**5.59**	5.000	0	111.8	75	125	10/28/2025

Batch 246897 **SampType:** MSD Units **µg/L** RPD Limit **15**

SampID: 25100456-065BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20		**5.38**	5.000	0	107.6	5.591	3.81	10/28/2025

Batch 246897 **SampType:** MS Units **µg/L**

SampID: 25100456-100BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**5.34**	5.000	0	106.9	75	125	10/28/2025

Batch 246897 **SampType:** MSD Units **µg/L** RPD Limit **15**

SampID: 25100456-100BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20		**5.51**	5.000	0	110.3	5.343	3.14	10/28/2025

Receiving Check List

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25102245
Client Project: NE-3
Report Date: 29-Dec-25

Carrier: UPS
Received By: EK

Completed by: Amber Dilallo
On: 24-Oct-25

Reviewed by: Elizabeth A. Hurley
On: 24-Oct-25

Pages to follow: Chain of custody 1 Extra pages included 12

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 0.7
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #104524. - JD/amberdilallo - 10/24/2025 10:50:42 AM

Drop off Location:
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 25102245

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☑ ICE ☐ BLUE ICE ☐ NO ICE 0-7 °C LTG# 9

Preserved in: ☐ LAB ☑ FIELD

FOR LAB USE ONLY

Lab Notes PH 104524

TSD 10/24/25

Client Comments:

Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: NE-3

Sample Collector's Name: Justin Lowes

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
25102245 001	NE-3	10/23/25 1323	1	3												X	✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	10/23/25 1430	UPS shipment	
UPS shipment		Emily Kassakosli	10/24/25 0857

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

December 26, 2025

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 25102245

Dear Elizabeth Hurley:

Order No.: 25102390

Alliance Technical Group - Akron received 1 sample(s) on 10/28/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

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Case Narrative

WO#: **25102390**
Date: **12/26/2025**

CLIENT: TEKLAB Inc,
Project: 25102245

WorkOrder Narrative:
25102390: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:
LCS/LCSD-90418 Radium-228_DW(904.0): LCS and LCSD exhibit high RPD. Individually each LCS/LCSD meet required criteria

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Qualifiers and Acronyms

WO#: **25102390**
Date: **12/26/2025**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **25102390**

26-Dec-25

CLIENT: TEKLAB Inc,
Project: 25102245

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25102390-001	25102245-001		10/23/2025 1:23:00 PM	10/28/2025 10:35:00 AM	Non-Potable Water

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DATES REPORT

WO#: **25102390**

26-Dec-25

Client: TEKLAB Inc,
Project: 25102245

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25102390-001A	25102245-001	10/23/2025 1:23:00 PM	Non-Potable Water	Combined Radium (EPA903+904)		12/3/2025 12:10:29 PM	12/23/2025 9:02:00 AM
				Radium-226 (EPA 903.0)		12/3/2025 12:10:29 PM	12/23/2025 9:02:00 AM
				Radium-228 (EPA 904.0)		12/3/2025 12:10:29 PM	12/12/2025 1:57:00 PM

Original

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Analytical Report

(consolidated)

WO#: **25102390**

Date Reported: **12/26/2025**

CLIENT: TEKLAB Inc,
Project: 25102245
Lab ID: 25102390-001
Client Sample ID: 25102245-001

Collection Date: 10/23/2025 1:23:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228 COMBINED RADIUM (EPA903+904)					**CALCULATION**	**E903-904**	Analyst: **SEE**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.570	1	12/23/2025 9:02:00 AM
RAD226/228 RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SEE**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	12/23/2025 9:02:00 AM
Yield	0.960					1	12/23/2025 9:02:00 AM
RAD226/228 RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SEE**
Radium-228	1.07	1.00		pCi/L	± 0.490	1	12/12/2025 1:57:00 PM
Yield	1.00					1	12/12/2025 1:57:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25102390**
26-Dec-25

Client: TEKLAB Inc,
Project: 25102245 **BatchID:** **90418**

Sample ID: **25102610-003ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **12/3/2025** RunNo: **223606**
Client ID: **BatchQC** Batch ID: **90418** TestNo: **E904.0** **E903-904** Analysis Date: **12/12/2025** SeqNo: **5961368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	
Yield	0.970			0	0			0.9700	0		

Sample ID: **25102610-004ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **12/3/2025** RunNo: **223606**
Client ID: **BatchQC** Batch ID: **90418** TestNo: **E904.0** **E903-904** Analysis Date: **12/12/2025** SeqNo: **5961370**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	
Yield	0.990			0	0			0.8500	15.2		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Cuyahoga Falls, Ohio 44223
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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25102390**

26-Dec-25

Client: TEKLAB Inc,
Project: 25102245 **BatchID:** **90418**

Sample ID: **MB-90418**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **12/3/2025**	RunNo: **223606**
Client ID: **BatchQC**	Batch ID: **90418**	TestNo: **E904.0**	**E903-904**	Analysis Date: **12/12/2025**	SeqNo: **5961343**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-90418**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **12/3/2025**	RunNo: **223606**
Client ID: **BatchQC**	Batch ID: **90418**	TestNo: **E904.0**	**E903-904**	Analysis Date: **12/12/2025**	SeqNo: **5961344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.48	1.00	5.000	0	89.6	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-90418**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **12/3/2025**	RunNo: **223606**
Client ID: **BatchQC**	Batch ID: **90418**	TestNo: **E904.0**	**E903-904**	Analysis Date: **12/12/2025**	SeqNo: **5961345**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.54	1.00	5.000	0	70.8	50	130	4.480	23.4	20	R
Yield	0.990			0	0			1.000	1.01		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **25102390**

26-Dec-25

Client: TEKLAB Inc,
Project: 25102245 **BatchID:** **90418**

Sample ID: **25102610-003ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **12/3/2025** RunNo: **223608**
Client ID: **BatchQC** Batch ID: **90418** TestNo: **E903.0** **E903-904** Analysis Date: **12/23/2025** SeqNo: **5961439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.940							0.9400	0	0	

Sample ID: **25102610-004ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **12/3/2025** RunNo: **223608**
Client ID: **BatchQC** Batch ID: **90418** TestNo: **E903.0** **E903-904** Analysis Date: **12/23/2025** SeqNo: **5961441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.940							0.9100	3.24	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **25102390**

26-Dec-25

Client: TEKLAB Inc,
Project: 25102245 **BatchID:** **90418**

Sample ID: **MB-90418**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **12/3/2025**	RunNo: **223608**
Client ID: **BatchQC**	Batch ID: **90418**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/23/2025**	SeqNo: **5961421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-90418**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **12/3/2025**	RunNo: **223608**
Client ID: **BatchQC**	Batch ID: **90418**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/23/2025**	SeqNo: **5961422**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.08	1.00	5.000	0	102	70	130				

Sample ID: **LCSD-90418**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **12/3/2025**	RunNo: **223608**
Client ID: **BatchQC**	Batch ID: **90418**	TestNo: **E903.0**	**E903-904**	Analysis Date: **12/23/2025**	SeqNo: **5961423**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.40	1.00	5.000	0	108	70	130	5.080	6.11	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Pg __ of __ 25102390

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc.
Batch QC and standard EDD are required. State of Sample Origin = MO

Project# 25102245

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 39677 | Phone: (618) 344-1004 ext. 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	Combined Radium										
	25102245-001	10/23/25 1323	HNO3	Groundwater	✔	✔										
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												

*Relinquished By	Date/Time	Received By	Date/Time
Dana Dilallo		10/28/25	(PM: 34,20 pH=1,1
		Fedex 1035 3.1+0.2=3.3	custody intact
			4364 10/27/25

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA 3/2/2016

Alliance Technical Group - Akron
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25102390** RcptNo: **1**

Logged by:	**Spencer M. Hartwell**	**10/28/2025 10:35:00 AM**	Spencer M. Hartwell
Completed By:	**Spencer M. Hartwell**	**10/28/2025 4:55:38 PM**	Spencer M. Hartwell
Reviewed By:	**Jennifer Woolf**	**10/31/2025 5:43:59 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. 4364 Seal Date: 10/27/2025 Signed By:
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes	4364	10/27/2025	

Appendix 3

Laboratory Quality Assurance/
Quality Control Data
12.10.2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25121052

Client Project: NE-3 **Report Date:** 23-Jan-26

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R376165 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	12/12/2025
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	12/12/2025
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	12/11/2025
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	12/11/2025

Batch R376165 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**250**	250.0	0	100.0	90	110	12/11/2025
Total Dissolved Solids		20		**236**	250.0	0	94.4	90	110	12/12/2025
Total Dissolved Solids		20		**240**	250.0	0	96.0	90	110	12/11/2025
Total Dissolved Solids		20		**228**	250.0	0	91.2	90	110	12/12/2025

Batch R376165 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25120756-001BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**612**				602.0	1.65	12/11/2025

Batch R376165 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25120932-001BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**1960**				1964	0.41	12/11/2025

Batch R376165 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25121027-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**1980**				1984	0.20	12/12/2025

Batch R376165 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 25121027-014ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**1100**				1110	0.90	12/12/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25121052

Client Project: NE-3 **Report Date:** 23-Jan-26

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R376165 **SampType:** DUP Units **mg/L** RPD Limit **10**

SampID: 25121058-005ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**438**				450.0	2.70	12/12/2025

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R376146 **SampType:** MBLK Units **mg/L**

SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**ND**	0.0040	0	0	0	100	12/12/2025
Chloride		0.50		**ND**	0.1000	0	0	0	100	12/12/2025
Sulfate		1.00		**ND**	0.0990	0	0	0	100	12/12/2025

Batch R376146 **SampType:** LCS Units **mg/L**

SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**0.95**	1.000	0	95.2	90	110	12/12/2025
Chloride		0.50		**19.5**	20.00	0	97.3	90	110	12/12/2025
Sulfate		1.00		**18.5**	20.00	0	92.3	90	110	12/12/2025

Batch R376146 **SampType:** MS Units **mg/L**

SampID: 25121052-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.25		**4.89**	5.000	0.08950	96.1	80	120	12/12/2025
Chloride		2.50		**100**	100.0	2.282	98.1	80	120	12/12/2025
Sulfate		5.00		**137**	100.0	41.65	94.9	80	120	12/12/2025

Batch R376146 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 25121052-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.25		**4.83**	5.000	0.08950	94.8	4.892	1.29	12/12/2025
Chloride		2.50		**98.9**	100.0	2.282	96.6	100.4	1.55	12/12/2025
Sulfate		5.00		**135**	100.0	41.65	93.6	136.5	0.92	12/12/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25121052

Client Project: NE-3 **Report Date:** 23-Jan-26

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 249171 **SampType:** MBLK Units µg/L

SampID: MBLK-249171

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**< 2.5**	0.7000	0	0	-100	100	12/18/2025
Beryllium		0.5		**< 0.5**	0.2000	0	0	-100	100	12/18/2025
Boron		20.0		**< 20.0**	9.000	0	0	-100	100	12/18/2025
Cadmium		2.0		**< 2.0**	0.5000	0	0	-100	100	12/18/2025
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	12/20/2025
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	12/18/2025
Chromium		5.0		**< 5.0**	2.800	0	0	-100	100	12/18/2025

Batch 249171 **SampType:** LCS Units µg/L

SampID: LCS-249171

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**1920**	2000	0	95.8	85	115	12/18/2025
Beryllium		0.5		**949**	1000	0	94.9	85	115	12/18/2025
Boron		20.0		**952**	1000	0	95.2	85	115	12/18/2025
Cadmium		2.0		**1940**	2000	0	97.2	85	115	12/18/2025
Calcium		0.100		**4.93**	5.000	0	98.7	85	115	12/20/2025
Calcium		0.100		**4.70**	5.000	0	94.0	85	115	12/18/2025
Chromium		5.0		**930**	1000	0	93.0	85	115	12/18/2025

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 249171 **SampType:** MBLK Units µg/L

SampID: MBLK-249171

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	12/18/2025
Antimony		1.0	JS	**0.7**	0.4500	0	165.5	-100	100	12/17/2025
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	12/17/2025
Cadmium		1.0		**< 1.0**	0.1340	0	0	-100	100	12/17/2025
Cobalt		1.0		**< 1.0**	0.1150	0	0	-100	100	12/17/2025
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	12/17/2025
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	12/17/2025
Molybdenum		1.5	JS	**0.7**	0.6000	0	115.3	-100	100	12/17/2025
Molybdenum		1.5		**< 1.5**	0.6000	0	0	-100	100	12/18/2025
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	12/17/2025
Thallium		2.0		**< 2.0**	0.9500	0	0	-100	100	12/17/2025

Client: Sikeston Board of Municipal Utilities **Work Order:** 25121052

Client Project: NE-3 **Report Date:** 23-Jan-26

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 249171 **SampType:** LCS Units µg/L

SampID: LCS-249171

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0	BS	**1290**	1000	0	129.0	80	120	12/17/2025
Antimony		1.0		**1090**	1000	0	108.8	80	120	12/18/2025
Arsenic		1.0		**991**	1000	0	99.1	80	120	12/17/2025
Cadmium		1.0		**2340**	2000	0	117.2	80	120	12/17/2025
Cobalt		1.0		**961**	1000	0	96.1	80	120	12/17/2025
Lead		1.0		**2190**	2000	0	109.7	80	120	12/17/2025
Lithium	*	3.0		**992**	1000	0	99.2	80	120	12/17/2025
Molybdenum		1.5	B	**1080**	1000	0	107.7	80	120	12/17/2025
Selenium		1.0		**1030**	1000	0	103.0	80	120	12/17/2025
Thallium		2.0		**1090**	1000	0	108.8	80	120	12/17/2025

SW-846 7470A (TOTAL)

Batch 249253 **SampType:** MBLK Units µg/L

SampID: MBLK-249253

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	12/15/2025

Batch 249253 **SampType:** LCS Units µg/L

SampID: LCS-249253

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.65**	5.000	0	93.1	85	115	12/15/2025

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 25121052
Client Project: NE-3
Report Date: 23-Jan-26

Carrier: UPS
Received By: LEH

Completed by: Emily Kossakoski
On: 11-Dec-25
Emily Kossakoski

Reviewed by: Elizabeth A. Hurley
On: 12-Dec-25
Elizabeth A. Hurley

Pages to follow: Chain of custody 1 Extra pages included 11

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 1.3
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #104524. - KTM/ekossakoski - 12/11/2025 5:25:30 PM

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 25121052

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004

Client:	Sikeston Board of Municipal Utilities
Address:	Sikeston Power Station
City / State / Zip	Sikeston, MO 63801
Contact:	Luke St. Mary
Phone:	
E-Mail:	lstmary@sbmu.net
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 1.3 °C LTG# 5
Preserved in: ☐ LAB ☒ FIELD
FOR LAB USE ONLY
Lab Notes
PH 12/10/25 1524 BTN 12.11.25

Client Comments:
Report QC LVL: 2

Appendix III Metals = B Ca
Appendix IV Metals = Sb As Ba Cd Cr Co Pb Li Mo Se Tl and Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number: NE-3
Sample Collector's Name: Alicia Powell
Billing/PO#:
Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ☐ 3 Day (50% Surcharge)

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: Appendix III Metals	Appendix IV Metals	Cl SO4 F-	Field pH	Ra226/228	TDS
25121052-001	NE-3	12/10/25 1049	1	3																		

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell	12/10/25 1400	UPS shipment	
UPS shipment			12/11/25 1240

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 100709

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

January 22, 2026

Elizabeth Hurley
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 25121052

Order No.: 25121299

Dear Elizabeth Hurley:

Alliance Technical Group - Akron received 1 sample(s) on 12/17/2025 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **25121299**
Date: **1/22/2026**

CLIENT: TEKLAB Inc,
Project: 25121052

WorkOrder Narrative:
25121299: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group is not responsible for use or interpretation of the data included herein.

All results for solid samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

Qualifiers and Acronyms

WO#: **25121299**
Date: **1/22/2026**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

Workorder Sample Summary

WO#: **25121299**

22-Jan-26

CLIENT: TEKLAB Inc,
Project: 25121052

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25121299-001	25121052-001B		12/10/2025 10:49:00 AM	12/17/2025 12:05:00 PM	Non-Potable Water

Alliance Technical Group - Akron
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **25121299**

22-Jan-26

Client: TEKLAB Inc,
Project: 25121052

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25121299-001A	25121052-001B	12/10/2025 10:49:00 AM	Non-Potable Water	Combined Radium (EPA903+904)		1/6/2026 11:32:00 AM	1/19/2026 8:07:00 AM
				Radium-226 (EPA 903.0)		1/6/2026 11:32:00 AM	1/19/2026 8:07:00 AM
				Radium-228 (EPA 904.0)		1/6/2026 11:32:00 AM	1/15/2026 1:53:00 PM

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25121299**

Date Reported: **1/22/2026**

CLIENT: TEKLAB Inc,

Collection Date: 12/10/2025 10:49:00 AM

Project: 25121052

Lab ID: 25121299-001

Matrix: NON-POTABLE WATER

Client Sample ID: 25121052-001B

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **TAL**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	1.48	2.00	U	pCi/L	± 0.570	1	1/19/2026 8:07:00 AM
RAD226/228					**E903.0**	**E903-904**	Analyst: **TAL**
RADIUM-226 (EPA 903.0)							
Radium-226	0.41	1.00	U	pCi/L	± 0.0800	1	1/19/2026 8:07:00 AM
Yield	1.00					1	1/19/2026 8:07:00 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **TAL**
RADIUM-228 (EPA 904.0)							
Radium-228	1.07	1.00		pCi/L	± 0.490	1	1/15/2026 1:53:00 PM
Yield	1.00					1	1/15/2026 1:53:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
RL	Reporting Detection Limit	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode		

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25121299**

22-Jan-26

Client: TEKLAB Inc,
Project: 25121052 **BatchID:** **92229**

Sample ID: **MB-92229**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **1/6/2026**	RunNo: **226269**
Client ID: **BatchQC**	Batch ID: **92229**	TestNo: **E904.0**	**E903-904**	Analysis Date: **1/15/2026**	SeqNo: **6003722**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						U
Yield	1.00			0	0						

Sample ID: **LCS-92229**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **1/6/2026**	RunNo: **226269**
Client ID: **BatchQC**	Batch ID: **92229**	TestNo: **E904.0**	**E903-904**	Analysis Date: **1/15/2026**	SeqNo: **6003723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.32	1.00	5.000	0	86.4	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-92229**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **1/6/2026**	RunNo: **226269**
Client ID: **BatchQC**	Batch ID: **92229**	TestNo: **E904.0**	**E903-904**	Analysis Date: **1/15/2026**	SeqNo: **6003724**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.55	1.00	5.000	0	71.0	50	130	4.320	19.6	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25121299**

22-Jan-26

Client: TEKLAB Inc,
Project: 25121052 **BatchID:** **92229**

Sample ID: **25121676-008ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **1/6/2026** RunNo: **226269**
Client ID: **BatchQC** Batch ID: **92229** TestNo: **E904.0** **E903-904** Analysis Date: **1/15/2026** SeqNo: **6003762**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	U
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25121299**

22-Jan-26

Client: TEKLAB Inc,
Project: 25121052 **BatchID:** **92229**

Sample ID: **MB-92229**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **1/6/2026**	RunNo: **226275**
Client ID: **BatchQC**	Batch ID: **92229**	TestNo: **E903.0**	**E903-904**	Analysis Date: **1/19/2026**	SeqNo: **6003880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									U
Yield	1.00										

Sample ID: **LCS-92229**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **1/6/2026**	RunNo: **226275**
Client ID: **BatchQC**	Batch ID: **92229**	TestNo: **E903.0**	**E903-904**	Analysis Date: **1/19/2026**	SeqNo: **6003881**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.03	1.00	5.000	0	101	70	130				

Sample ID: **LCSD-92229**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **1/6/2026**	RunNo: **226275**
Client ID: **BatchQC**	Batch ID: **92229**	TestNo: **E903.0**	**E903-904**	Analysis Date: **1/19/2026**	SeqNo: **6003882**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.36	1.00	5.000	0	107	70	130	5.030	6.35	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	U	Samples with CalcVal < MDL
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

120 United Drive, Collinsville, IL 62234 Phone (618) 344-1004

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
120 United Drive
Collinsville, IL 62234

Cooler Temp: | Sampler: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc.
Batch QC and standard EDD are required. State of Sample Origin = MO

Project# 25121052

Contact: Elizabeth Hurley | Email: ehurley@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 40054
Phone: (618) 344-1004 ext. 1007

25121299

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	Combined Radium			pH	CPM						
	25121052-001B	12/10/2025 10:49	HNO3	Aqueous	✔	✔			2	28						
			Other	Aqueous					2	24						
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												

*Relinquished By	Date/Time	Received By	Date/Time
Emily Kassakatsi	12/15/25 1700	Paige Yerick	12/17/25 12:05

Fedex box/cooler no ice

Temp: 5.2 °C (5.2 + 0.0)

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25121299** RcptNo: **1**

Logged by:	**Paige J. Yerick**	**12/17/2025 12:05:00 PM**	Paige Yerich
Completed By:	**Paige J. Yerick**	**12/17/2025 2:41:14 PM**	Paige Yerich
Reviewed By:	**Jennifer Woolf**	**12/19/2025 12:48:31 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑ NA ☐
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:
    sample dates/times updated per email

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Not Present			

Appendix 3

Laboratory Quality Assurance/
Quality Control Data
3.21.2026

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

STANDARD METHODS 2540 C (TOTAL) 2020

Batch R381238 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	0	0	0	0	0	03/26/2026
Total Dissolved Solids		20		**< 20**	0	0	0	0	0	03/25/2026

Batch R381238 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**240**	250.0	0	96.0	90	110	03/26/2026
Total Dissolved Solids		20		**226**	250.0	0	90.4	90	110	03/25/2026

Batch R381238 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 26032108-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**248**				248.0	0.00	03/25/2026

Batch R381238 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 26032075-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**1380**				1396	0.86	03/25/2026

Batch R381238 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 26032346-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**1370**				1356	1.03	03/26/2026

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R381128 **SampType:** MBLK Units **mg/L**
SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**ND**	0	0	0	0	0	03/25/2026
Chloride		0.50		**ND**	0	0	0	0	0	03/25/2026
Sulfate		1.00		**ND**	0	0	0	0	0	03/25/2026

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R381128 **SampType:** LCS Units **mg/L**
SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		**1.05**	1.000	0	105.3	90	110	03/25/2026
Chloride		0.50		**20.9**	20.00	0	104.4	90	110	03/25/2026
Sulfate		1.00		**19.2**	20.00	0	96.1	90	110	03/25/2026

Batch R381128 **SampType:** MS Units **mg/L**
SampID: 26032108-010AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.25		**5.16**	5.000	0	103.2	80	120	03/25/2026
Chloride		2.50		**101**	100.0	0	101.0	80	120	03/25/2026
Sulfate		5.00		**93.6**	100.0	0	93.6	80	120	03/25/2026

Batch R381128 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 26032108-010AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.25		**5.11**	5.000	0	102.2	5.158	0.90	03/25/2026
Chloride		2.50		**100**	100.0	0	100.3	101.0	0.73	03/25/2026
Sulfate		5.00		**93.0**	100.0	0	93.0	93.62	0.67	03/25/2026

Batch R381128 **SampType:** MS Units **mg/L**
SampID: 26032172-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.4**	10.00	0.2740	101.1	80	120	03/25/2026
Chloride		5.00		**415**	200.0	193.3	110.7	80	120	03/25/2026
Sulfate		10.0		**228**	200.0	40.09	94.1	80	120	03/25/2026

Batch R381128 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 26032172-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.4**	10.00	0.2740	101.0	10.39	0.11	03/25/2026
Chloride		5.00		**414**	200.0	193.3	110.4	414.6	0.14	03/25/2026
Sulfate		10.0		**228**	200.0	40.09	94.2	228.3	0.09	03/25/2026

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R381128 **SampType:** MS Units **mg/L**

SampID: 26032173-004BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		**10.2**	10.00	0.06300	101.5	80	120	03/25/2026
Chloride		5.00		**200**	200.0	2.616	98.9	80	120	03/25/2026
Sulfate		10.0		**204**	200.0	19.08	92.6	80	120	03/25/2026

Batch R381128 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 26032173-004BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		**10.2**	10.00	0.06300	101.7	10.21	0.20	03/25/2026
Chloride		5.00		**201**	200.0	2.616	99.2	200.5	0.25	03/25/2026
Sulfate		10.0		**205**	200.0	19.08	92.8	204.4	0.14	03/25/2026

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 253692 **SampType:** MBLK Units **µg/L**

SampID: MBLK-253692

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**< 2.5**	0	0	0	0	0	03/25/2026
Boron		20.0		**< 20.0**	0	0	0	0	0	03/25/2026
Calcium		0.100		**< 0.100**	0	0	0	0	0	03/25/2026

Batch 253692 **SampType:** LCS Units **µg/L**

SampID: LCS-253692

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**1870**	2000	0	93.3	85	115	03/25/2026
Boron		20.0		**913**	1000	0	91.3	85	115	03/25/2026
Calcium		0.100		**4.75**	5.000	0	95.0	85	115	03/25/2026

Batch 253692 **SampType:** MS Units **µg/L**

SampID: 26032108-003CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		2.5		**1980**	2000	84.70	94.6	75	125	03/25/2026
Boron		20.0		**943**	1000	16.00	92.7	75	125	03/25/2026
Calcium		0.100		**18.3**	5.000	13.75	91.6	75	125	03/25/2026

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 253692 **SampType:** MSD Units µg/L RPD Limit 20

SampID: 26032108-003CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		2.5		**1940**	2000	84.70	92.8	1977	1.84	03/25/2026
Boron		20.0		**927**	1000	16.00	91.1	943.1	1.71	03/25/2026
Calcium		0.100		**18.2**	5.000	13.75	88.0	18.33	0.99	03/25/2026

Batch 253692 **SampType:** MS Units mg/L

SampID: 26032122-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**70.2**	5.000	66.04	84.0	75	125	03/25/2026

Batch 253692 **SampType:** MSD Units mg/L RPD Limit 20

SampID: 26032122-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**72.6**	5.000	66.04	131.6	70.24	3.33	03/25/2026

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 253692 **SampType:** MBLK Units µg/L

SampID: MBLK-253692

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		**< 1.0**	0	0	0	0	0	03/28/2026
Cobalt		1.0		**< 1.0**	0	0	0	0	0	03/28/2026
Lithium	*	3.0		**< 3.0**	0	0	0	0	0	03/28/2026
Molybdenum		1.5		**< 1.5**	0	0	0	0	0	03/28/2026
Selenium		1.0		**< 1.0**	0	0	0	0	0	03/28/2026

Batch 253692 **SampType:** LCS Units µg/L

SampID: LCS-253692

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		**907**	1000	0	90.7	80	120	03/28/2026
Cobalt		1.0		**936**	1000	0	93.6	80	120	03/28/2026
Lithium	*	3.0		**957**	1000	0	95.7	80	120	03/28/2026
Molybdenum		1.5		**897**	1000	0	89.7	80	120	03/28/2026
Selenium		1.0		**861**	1000	0	86.1	80	120	03/31/2026

Client: Sikeston Board of Municipal Utilities **Work Order:** 26032108

Client Project: Fly Ash Pond (FAP) **Report Date:** 01-Apr-26

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 253692 **SampType:** MS Units **µg/L**

SampID: 26032108-003CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		**896**	1000	0	89.6	75	125	03/28/2026
Cobalt		1.0		**867**	1000	0	86.7	75	125	03/28/2026
Lithium	*	3.0		**952**	1000	0	95.2	75	125	03/28/2026
Molybdenum		1.5		**890**	1000	0	89.0	75	125	03/28/2026
Selenium		1.0		**773**	1000	0	77.3	75	125	03/28/2026

Batch 253692 **SampType:** MSD Units **µg/L** RPD Limit **20**

SampID: 26032108-003CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		1.0		**925**	1000	0	92.5	896.3	3.16	03/28/2026
Cobalt		1.0		**912**	1000	0	91.2	866.9	5.05	03/28/2026
Lithium	*	3.0		**999**	1000	0	99.9	952.0	4.85	03/28/2026
Molybdenum		1.5		**934**	1000	0	93.4	890.3	4.83	03/28/2026
Selenium		1.0		**803**	1000	0	80.3	772.9	3.84	03/28/2026

Receiving Check List

http://www.teklabinc.com/

Client: Sikeston Board of Municipal Utilities
Work Order: 26032108
Client Project: Fly Ash Pond (FAP)
Report Date: 01-Apr-26

Carrier: UPS
Received By: KTM

Completed by: Laura E Henson
On: 24-Mar-26

Reviewed by: Amber Dilallo
On: 24-Mar-26

Pages to follow: Chain of custody 2 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	1.6	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #104524. - DM/lhenson - 3/24/2026 12:18:07 PM

Additional coolers: 1.8C, 3.0C, 3.4C.LTG#9. LH 3/24/26

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 2 Work order # 26032108

TEKLAB, INC. 120 United Drive - Collinsville, IL 62234 - Phone: (618) 344-1004

Client	Sikeston Power Station 6291		
Address	107 E Malone Ave		
	Sikeston, MO 63801		
Contact	Luke St. Mary	Phone	(573) 475-3119
E-Mail	lstmary@sbmu.net	Fax	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 1.6/1.8/3.3/3.4°C LTG# 9

Preserved in: ☐ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes: PH:184524 D: 3-24-26

Client Comments

Report QC LVL: 2

Total Metals = Ba B Ca (ICP) and As Co Li Mo Se (ICP/MS)

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number	Sample Collector's Name
Fly Ash Pond (FAP)	Justin Lowes

Results Requested (call for PFAS TAT and surcharges) ☐ Standard ☐ 1-2 Day (100% Surcharge) ☐ Date ____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	MATRIX: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: Cl SO4 F-	Field pH	TDS	Total Metals
26032108-001	MW-1R	3/21/26/1525	1	1		X		X	X	X	X
002	MW-2	3/21/26/0829	1	1		X		X	X	X	X
003	MW-3	3/21/26/1239	1	1		X		X	X	X	X
004	MW-4	3/21/26/1155	1	1		X		X	X	X	X
005	NE-3	3/21/26/1051	1	1		X		X	X	X	X
006	MW-7	3/21/26/1350	1	1		X		X	X	X	X
007	MW-9	3/21/26/1436	1	1		X		X	X	X	X
008	MW-10	3/21/26/0951	1	1			X	X	X	X	X
009	Duplicate	3/21/26	1	1	X			X		X	X
010	Trip Blank		1	1		X		X		X	X

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell UPS shipment	3/23/26/0930	UPS shipment Kaylee Howell	3.24.26 9:44

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder 107026

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 2 of 2 Work order # 26032108

TEKLAB, INC. 120 United Drive - Collinsville, IL 62234 - Phone: (618) 344-1004

Client	Sikeston Power Station 6291		
Address	107 E Malone Ave		
	Sikeston, MO 63801		
Contact	Luke St. Mary	Phone	(573) 475-3119
E-Mail	lstmary@sbmu.net	Fax	

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C LTG# _____

Preserved in: ☐ LAB ☐ FIELD

FOR LAB USE ONLY

Lab Notes:

Client Comments

Report QC LVL: 2

Total Metals = Ba B Ca (ICP) and As Co Li Mo Se (ICP/MS)

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number	Sample Collector's Name
Fly Ash Pond (FAP)	

Results Requested (call for PFAS TAT and surcharges)
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date _____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	MATRIX: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: Cl SO4 F-	Field pH	TDS	Total Metals
26032108-011	Field Blank	3/21/26/1525	1	1		X		X		X	X

Relinquished By	Date/Time	Received By	Date/Time
Alicia Powell UPS shipment	3/23/26/0930	UPS shipment	5.24.26 9:44

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder 107026

Appendix 4

Fly Ash Pond Groundwater
Quality Data Base

Sikeston Board of Municipal Utilities - Sikeston Power Station
Fly Ash Pond Baseline Groundwater Statistical Evaluation
Scott County, Missouri

Appendix 4 - Groundwater Quality Summary

			Field Parameters						Appendix III Monitoring Constituents (Detection)						Appendix IV Monitoring Constituents (Assessment)													
Well ID	Date	Monitoring Purpose	Spec. Cond. µmhos/cm	Temp. °C	ORP mV	D.O. mg/L	Turbidity NTU	pH S.U.	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	TDS mg/L	Boron ug/L	Calcium mg/L	Antimony ug/L	Arsenic ug/L	Barium ug/L	Beryllium ug/L	Cadmium ug/L	Chromium ug/L	Cobalt ug/L	Fluoride mg/L	Lead ug/L	Lithium ug/L	Mercury ug/L	Molybdenum ug/L	Selenium ug/L	Thallium ug/L	Radium 226/228 (Combined) pCi/L
Federal MCL									None	4.0	None	None	None	None	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
MW-1R (DG) Baseline	10/20/2021	Background	511.3	15.25	32.2	6.41	4.62	6.55	**11**	<0.250	**130**	**330**	**2200**	**64**	<3.0	**1.3**	**40**	<1.0	<1.0	<4.0	**6.3**	<0.250	<1.0	**10**	<0.20	**160**	<1.0	<1.0	0.184 (ND)
	11/1/2021	Background	532.4	12.98	16.9	0.60	5.38	6.55	**12**	**0.286**	**110**	**330**	**2100**	**58**	<3.0	**1.5**	**38**	<1.0	<1.0	<4.0	**5.4**	**0.286**	<1.0	<10	<0.20	**160**	<1.0	<1.0	0.600(ND)
	11/16/2021	Background	540.4	11.47	41.9	0.94	1.27	6.54	**15**	**0.366**	**150**	**360**	**2800**	**73**	<3.0	<1.0	**49**	<1.0	<1.0	<4.0	**8.5**	**0.366**	<1.0	**10**	<0.20	**170**	<1.0	<1.0	1.065(ND)
	12/7/2021	Background	576.3	9.14	11.2	0.98	0.91	6.58	**13**	<0.250	**140**	**400**	**2300**	**61**	<3.0	<1.0	**37**	<1.0	<1.0	<4.0	**7.1**	<0.250	<1.0	**11**	<0.20	**190**	<1.0	<1.0	0.53(ND)
	12/27/2021	Background	757.3	8.40	21.7	1.28	1.32	6.48	**17**	<0.250	**210**	**390**	**3100**	**97**	<3.0	<1.0	**52**	<1.0	<1.0	<4.0	**9.6**	<0.250	<1.0	**19**	<0.20	**200**	<1.0	<1.0	0.430(ND)
	1/17/2022	Background	707.3	4.56	-0.3	1.02	1.46	6.56	**17**	<0.250	**190**	**440**	**2800**	**89**	<3.0	<1.0	**44**	<1.0	<1.0	<4.0	**7.9**	<0.250	<1.0	**17**	<0.20	**200**	<1.0	<1.0	0.556(ND)
	2/7/2022	Background	794.4	3.14	21.9	0.84	1.04	6.55	**19**	<0.250	**200**	**450**	**3500**	**90**	<3.0	<1.0	**51**	<1.0	<1.0	<4.0	**13.0**	<0.250	<1.0	**11**	<0.20	**210**	<1.0	<1.0	0.364(ND)
	3/2/2022	Background	515.0	2.07	36.1	0.91	4.31	6.57	**12**	<0.250	**130**	**290**	**2800**	**78**	<3.0	<1.0	**41**	<1.0	<1.0	<4.0	**8.6**	<0.250	<1.0	<10	<0.20	**190**	<1.0	<1.0	1.300
	4/9/2022	Background	671.2	-1.69	52.4	1.04	1.59	6.66	**12**	<0.250	**150**	**300**	**3,100**	**73**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	<0.250	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	8/2/2022	Background	687.8	18.18	60.3	0.56	4.87	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	11/2/2022	Background	609.3	17.48	7.6	0.51	2.79	6.55	**14**	<0.250	**170**	**440**	**2,400**	**72**	<3.0	<1.0	**30**	<1.0	<1.0	<4.0	**8.5**	<0.250	<1.0	<10	<0.20	**150**	<1.0	<1.0	**0.853**
	3/12/2023	Background	577.8	14.68	31.0	0.38	1.06	6.60	**10**	<0.250	**140**	**300**	**3,000**	**70**	(NA)	(NA)	**52**	(NA)	(NA)	(NA)	**7.9**	<0.250	(NA)	<20	<0.20	**180**	<1.0	(NA)	1.03(ND)
	12/11/2023	Background	489.0	16.07	791.4	0.54	1.35	6.55	**9**	<0.25	**118**	**310**	**1,980**	**58.6**	<3.0	2.2	**45.5**	<1.0	<1.0	<4.0	**5.8**	<0.25	<1.0	**16.1**	<0.20	**204**	<1.0	<1.0	<2.0
	4/23/2024	Background	584.0	16.74	1161.3	0.61	1.56	6.47	**14**	<0.25	**188**	**424**	**3,770**	**95.9**	(NA)	<1.0	**55.5**	(NA)	(NA)	(NA)	**10.4**	<0.25	(NA)	**10.2**	(NA)	**199**	<1.0	(NA)	(NA)
	9/25/2024	Background	736.6	17.56	1122.2	0.67	1.55	6.46	**16.6**	<0.25	**242**	**520**	**3,700**	**103.0**	<3.0	<1.0	**26.6**	<1.0	<1.0	<4.0	**13.6**	<0.25	<1.0	**10.2**	<0.20	**166**	<1.0	<1.0	0.46 (ND)
	4/16/2025	Damaged	775.5	16.32	894.2	0.67	1.65	6.32	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	5/6/2025	Background	797.2	15.42	421.5	221.66	4.65	6.38	**18.3**	**0.10"J"**	**289**	**576**	**4,690**	**116"S"**	(NA)	<1.0	**48.4**	(NA)	(NA)	(NA)	**15.0**	**0.10"J"**	(NA)	**11.2**	(NA)	**208**	<1.0	(NA)	(NA)
MW-1R	7/17/2025	D14 / A7 / CA1	567.9	17.72	1017.0	0.54	6.34	6.35	**10.5**	**0.14 "J"**	**161**	**380**	**2,710**	**66.0**	<3.0	<1.0	**19.3**	<1.0	<1.0	<4.0	**10.9**	**0.14 "J"**	<1.0	<10.0	<0.20	**202**	<1.0	<1.0	0.26 "U"
	3/21/2026	D15/ A8/ CA2	427.0	18.81	814.6	0.46	2.98	6.44	**6.64**	**0.11 "J"**	**88.5**	**248**	**1,760**	**52.7**	(NA)	1.0	**50.4**	(NA)	(NA)	(NA)	**5.5**	**0.11 "J"**	(NA)	<10.0	(NA)	**247**	<1.0	(NA)	(NA)

Notes:

1. All data and Qualifiers transcribed from analytical lab data sheets or field notes.
2. Less than (<) symbol denotes concentration not detected at or above reporting limits. Bold values indicate analyte detected above reporting limit.
3. (ND) denotes Radium 226 and 228 (combined) concentration not detected above minimum detectable activity.
4. (NA) denotes analysis not conducted, not available at time of report, or not confirmed/replaced by resampling.
5. Baseline monitoring per USEPA 40 CFR 257.93.
6. Detection monitoring per USEPA 40 CFR 257.94. Detection Monitoring database comprised of analytical results for pH, Chloride, Fluoride, Sulfate, TDS, Boron, and Calcium.
7. Assessment monitoring per USEPA 40 CFR 257.95. Note Fluoride included in both Assesment and Detecion Monitoring Constituents, but data screening may be conducted over a different range.
8. Shaded cells indicate resampling occurred. Data that were not confirmed or were replaced by resample data is indicated with (NA) in shaded cell.
9. Red text with black border represent outlier values identified by Sanitas.
10. Blue shaded cells with black border indicate data removed for correction of a trend identified by Sanitas (Sen's Slope / Mann-Kendall).
11. Analytical Data Qualifiers provided by Laboratory:
    a. "J" - Analyte detected below quantitation limits
    b. "S" - Spike Recovery outside recovery limits

Sikeston Board of Municipal Utilities - Sikeston Power Station
Fly Ash Pond Baseline Groundwater Statistical Evaluation
Scott County, Missouri

Appendix 4 - Groundwater Quality Summary

Well ID	Date	Monitoring Purpose	Spec. Cond. µmhos/cm	Temp. °C	ORP mV	D.O. mg/L	Turbidity NTU	pH S.U.	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	TDS mg/L	Boron ug/L	Calcium mg/L	Antimony ug/L	Arsenic ug/L	Barium ug/L	Beryllium ug/L	Cadmium ug/L	Chromium ug/L	Cobalt ug/L	Fluoride mg/L	Lead ug/L	Lithium ug/L	Mercury ug/L	Molybdenum ug/L	Selenium ug/L	Thallium ug/L	Radium 226/228 (Combined) pCi/L
Federal MCL									None	4.0	None	None	None	None	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
MW-2 (UG) Baseline	3/21/2018	Background	157.8	15.86	65.3	2.72	3.41	6.35	**3.4**	<0.250	**16**	**110**	**28**	**16**	<3.0	<1.0	**130**	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.896 (ND)
	4/15/2018	Background	159.8	14.04	64.7	0.87	4.05	6.36	**2.3**	**0.335**	**18**	**63**	**23**	**14**	<3.0	<1.0	**120**	<1.0	<1.0	<4.0	<2.0	**0.335**	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.483 (ND)
	5/23/2018	Background	175.3	17.40	121.7	0.58	1.72	6.18	**4.2**	<0.250	**20**	**100**	**36**	**18**	<3.0	<1.0	**170**	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	1.199 (ND)
	6/27/2018	Background	172.1	18.38	243.8	0.27	5.30	6.16	**4.7**	<0.250	**18**	**87**	**42**	**19**	<3.0	<1.0	**180**	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	**1.4**	<1.0	1.006 (ND)
	8/1/2018	Background	184.2	18.48	80.7	0.75	2.61	6.11	**5.9**	<0.250	**19**	**140**	**43**	**20**	<3.0	<1.0	**200**	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	**2.0**	<1.0	0.751(ND)
	9/5/2018	Background	187.9	19.26	83.8	0.68	2.58	6.09	**6.8**	<0.250	**18**	**110**	**46**	**22**	<3.0	<1.0	**220**	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	**2.2**	<1.0	**1.734**
	11/6/2018	Background	174.3	17.77	79.7	0.60	1.19	6.19	**4.2**	**0.272**	**19**	**100**	**43**	**20**	<3.0	<1.0	**170**	<1.0	<1.0	<4.0	<2.0	**0.272**	<1.0	<10	<0.20	<1.0	<1.0	<1.0	**1.583**
	12/12/2018	Background	186.3	16.78	82.3	0.67	5.78	6.13	**5.5**	**0.254**	**21**	**140**	**48**	**21**	<3.0	<1.0	**210**	<1.0	<1.0	<4.0	**2.0**	**0.254**	<1.0	<10	<0.20	<1.0	<1.0	<1.0	1.180 (ND)
	3/27/2019	Background	165.9	15.87	70.4	0.72	2.60	6.25	**3.3**	<0.250	**20**	**130**	**31**	**17**	NA	NA	NA	NA	NA	NA	NA	<0.250	NA	NA	NA	NA	NA	NA	NA
	9/24/2019	Background	189.4	18.75	71.3	0.61	1.16	6.1	**6.6**	<0.250	**17**	**130**	**58**	**22**	NA	NA	NA	NA	NA	NA	NA	<0.250	NA	NA	NA	NA	NA	NA	NA
	4/6/2020	Background	148.7	16.04	58.2	1.36	4.70	6.3	**2.1**	**0.336**	**16**	**140**	NA	**15**	NA	NA	NA	NA	NA	NA	NA	**0.336**	NA	NA	NA	NA	NA	NA	NA
	5/21/2020	Background	168.1	16.47	-0.8	6.90	2.76	NA	NA	NA	NA	NA	**36**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/22/2020	Background	189.8	18.34	-9.6	6.52	0.62	6.2	**4.8**	<0.250	**17**	**150**	NA	**21**	NA	NA	NA	NA	NA	NA	NA	<0.250	NA	NA	NA	NA	NA	NA	NA
	12/8/2020	Background	186.5	16.90	223.4	5.56	0.79	NA	NA	NA	NA	NA	**49**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/17/2021	Background	178.9	14.70	21.7	12.02	1.68	6.3	**3.8**	<0.250	**17**	NA	**41**	**19**	NA	NA	NA	NA	NA	NA	NA	<0.250	NA	NA	NA	NA	NA	NA	NA
	6/15/2021	Background	165.4	17.03	55.1	18.10	1.55	NA	NA	NA	NA	**350**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/20/2021	Background	188.0	14.85	19.6	5.97	1.36	6.25	**4.2**	<0.250	**15**	**140**	(NA)	**19**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	<0.250	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	12/27/2021	Background	161.0	8.90	17.7	0.88	1.53	6.31	(NA)	(NA)	(NA)	(NA)	**43**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	4/9/2022	Background	156.4	-1.47	71.9	1.20	3.31	(NA)	**2.9**	<0.250	**15**	**150**	(NA)	16	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	<0.250	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	8/2/2022	Background	185.6	18.26	83.4	0.28	2.95	6.21	(NA)	(NA)	(NA)	(NA)	**53**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	11/2/2022	Background	218.4	17.64	101.7	0.74	6.51	6.23	**7.4**	<0.250	**15**	**180**	**81**	**24**	<3.0	<1.0	**220**	<1.0	<1.0	<4.0	**2.4**	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	**1.913**
	3/12/2023	Background	120.5	15.40	54.5	0.61	3.33	6.51	**1.3**	<0.250	**8.7**	**700 H**	**29**	**12**	(NA)	(NA)	**100**	(NA)	(NA)	(NA)	<2.0	<0.250	(NA)	<20	(NA)	<1.0	<1.0	(NA)	0.630(ND)
	12/11/2023	Background	197.2	17.35	733.0	0.59	0.79	6.21	**4**	<0.25	**15**	**108**	**47.8**	**18.6**	<3.0	<1.0	**193**	<1.0	<1.0	<4.0	<2.0	<0.25	<1.0	<10.0	<0.20	**1.4**	<1.0	<1.0	<2.0
	4/23/2024	Background	176.8	17.55	518.1	0.67	1.02	6.23	**4**	<0.25	**15**	**104**	**42.9**	**20.4**	(NA)	<1.0	**192**	(NA)	(NA)	(NA)	<2.0	<0.25	(NA)	<10.0	(NA)	<1.0	<1.0	(NA)	(NA)
	9/25/2024	Background	193.9	19.99	693.4	0.75	1.73	6.24	**4.95**	<0.25	**14.4**	**108**	**49.6**	**21.0**	<3.0	<1.0	**220**	<1.0	<1.0	<4.0	<2.0	<0.25	<1.0	<10.0	<0.20	<1.0	<1.0	<1.0	0.6 (ND)
	4/16/2025	Damaged	128.0	16.85	492.1	0.87	4.24	6.36	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	5/6/2025	Background	175.9	17.25	544.9	222.16	5.49	6.33	**4.68**	**0.06 "J"**	**14.5**	**100**	**28.6**	**19.1**	(NA)	<1.0	**188**	(NA)	(NA)	(NA)	<2.0	**0.06 "J"**	(NA)	<10.0	(NA)	<1.0	<1.0	(NA)	(NA)
MW-2	7/17/2025	D14 / A7 / CA1	182.1	19.79	874.3	0.63	5.31	6.02	**4.77**	**0.07 "J"**	**13.3**	**104**	**59.8**	**18.2**	<3.0	<1.0	**185**	<1.0	<1.0	<4.0	<2.0	**0.07 "J"**	<1.0	<10.0	<0.20	<1.0	**1.9**	<1.0	0.38 "U"
	3/21/2026	D15/ A8/ CA2	136.1	16.87	591.4	0.61	8.43	6.18	**3.3 "J"**	**0.12 "J"**	**10.7**	**74**	**27.7**	**14.8**	(NA)	<1.0	**128**	(NA)	(NA)	(NA)	<2.0	**0.12 "J"**	(NA)	<10.0	(NA)	<1.0	**<1.0**	(NA)	(NA)

Notes:

1. All data and Qualifiers transcribed from analytical lab data sheets or field notes.
2. Less than (<) symbol denotes concentration not detected at or above reporting limits. Bold values indicate analyte detected above reporting limit.
3. (ND) denotes Radium 226 and 228 (combined) concentration not detected above minimum detectable activity.
4. (NA) denotes analysis not conducted, not available at time of report, or not confirmed/replaced by resampling.
5. Baseline monitoring per USEPA 40 CFR 257.93.
6. Detection monitoring per USEPA 40 CFR 257.94. Detection Monitoring database comprised of analytical results for pH, Chloride, Fluoride, Sulfate, TDS, Boron, and Calcium.
7. Assessment monitoring per USEPA 40 CFR 257.95. Note Fluoride included in both Assesment and Detecion Monitoring Constituents, but data screening may be conducted over a different range.
8. Shaded cells indicate resampling occurred. Data that were not confirmed or were replaced by resample data is indicated with (NA) in shaded cell.
9. Red text with black border represent outlier values identified by Sanitas.
10. Blue shaded cells with black border indicate data removed for correction of a trend identified by Sanitas (Sen's Slope / Mann-Kendall).
11. Analytical Data Qualifiers provided by Laboratory:
    a. "J" - Analyte detected below quantitation limits
    b. "S" - Spike Recovery outside recovery limits

4/2/2025
Prepared by: TH
Checked by: KAE
Approved by: KAE

Sikeston Board of Municipal Utilities - Sikeston Power Station
Fly Ash Pond Baseline Groundwater Statistical Evaluation
Scott County, Missouri

Appendix 4 - Groundwater Quality Summary

Well ID	Date	Monitoring Purpose	Spec. Cond. µmhos/cm	Temp. °C	ORP mV	D.O. mg/L	Turbidity NTU	pH S.U.	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	TDS mg/L	Boron ug/L	Calcium mg/L	Antimony ug/L	Arsenic ug/L	Barium ug/L	Beryllium ug/L	Cadmium ug/L	Chromium ug/L	Cobalt ug/L	Fluoride mg/L	Lead ug/L	Lithium ug/L	Mercury ug/L	Molybdenum ug/L	Selenium ug/L	Thallium ug/L	Radium 226/228 (Combined) pCi/L
Federal MCL									None	4.0	None	None	None	None	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
MW-3 (UG) Baseline	3/21/2018	Background	220.7	15.22	40.7	0.38	14.88	**6.57**	**1.4**	**0.274**	**18**	**120**	**17**	**19**	<3.0	<1.0	**96**	<1.0	<1.0	<4.0	<2.0	**0.274**	<1.0	<10	<0.20	<1.0	<1.0	<1.0	1.240 (ND)
	4/15/2018	Background	224.7	14.05	39.2	0.45	10.81	**6.48**	**1.5**	**0.386**	**20**	**120**	**25**	**18**	<3.0	<1.0	**100**	<1.0	<1.0	<4.0	<2.0	**0.386**	<1.0	<10	<0.20	<1.0	<1.0	<1.0	1.475 (ND)
	5/23/2018	Background	221.3	17.77	43.2	0.39	13.39	**6.49**	**1.4**	<0.250	**20**	**100**	**20**	**18**	<3.0	<1.0	**100**	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.994 (ND)
	6/27/2018	Background	198.7	17.81	123.8	0.45	17.03	**6.45**	**1.2**	<0.250	**17**	**110**	**27**	**18**	<3.0	<1.0	**100**	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.214 (ND)
	8/1/2018	Background	209.2	16.74	41.4	0.43	10.96	**6.55**	**1.3**	<0.250	**17**	**150**	**21**	**18**	<3.0	<1.0	**91**	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.315(ND)
	9/5/2018	Background	196.8	17.62	56.8	0.46	6.21	**6.51**	**1.2**	**0.308**	**15**	**100**	**22**	**17**	<3.0	<1.0	**98**	<1.0	<1.0	<4.0	<2.0	**0.308**	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.860(ND)
	11/6/2018	Background	206.7	16.84	63.3	0.49	2.37	**6.49**	**1.3**	**0.313**	**16**	**130**	**26**	**17**	<3.0	<1.0	**100**	<1.0	<1.0	<4.0	<2.0	**0.313**	<1.0	<10	<0.20	<1.0	<1.0	<1.0	**1.339**
	12/12/2018	Background	195.6	15.39	48.7	0.40	3.10	**6.50**	**1.4**	**0.334**	**18**	**160**	**28**	**17**	<3.0	<1.0	**99**	<1.0	<1.0	<4.0	<2.0	**0.334**	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.800 (ND)
	3/27/2019	Background	196.0	15.07	52.2	0.84	12.50	**6.36**	**1.5**	<0.250	**19**	**140**	**22**	**16**	NA	NA	NA	NA	NA	NA	NA	<0.250	NA	NA	NA	NA	NA	NA	NA
	9/24/2019	Background	191.4	17.07	58.1	0.53	2.28	6.5	**1.2**	**0.332**	**16**	**130**	**26**	**17**	NA	NA	NA	NA	NA	NA	NA	**0.332**	NA	NA	NA	NA	NA	NA	NA
	4/6/2020	Background	198.4	14.94	61.3	1.17	7.37	6.4	NA	**0.371**	**20**	NA	**29**	**16**	NA	NA	NA	NA	NA	NA	NA	**0.371**	NA	NA	NA	NA	NA	NA	NA
	5/21/2020	Background	205.5	15.25	14.9	13.48	7.29	NA	**1.5**	NA	NA	**130**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/22/2020	Background	194.1	16.65	36.7	8.29	2.13	6.5	**1.1**	<0.250	**17**	**120**	**31**	**17**	NA	NA	NA	NA	NA	NA	NA	<0.250	NA	NA	NA	NA	NA	NA	NA
	4/17/2021	Background	196.8	14.04	34.3	12.04	3.47	6.6	<1.0	<0.250	**15**	**150**	**16**	**17**	NA	NA	NA	NA	NA	NA	NA	<0.250	NA	NA	NA	NA	NA	NA	NA
	10/20/2021	Background	189.0	12.85	33.6	10.32	1.35	6.52	<1.0	<0.250	**13**	**130**	**30**	**14**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	<0.250	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	4/9/2022	Background	197.6	-2.74	66.7	2.86	2.58	6.67	<1.0	<0.250	**13**	**130**	(NA)	**15**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	<0.250	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	8/2/2022	Background	163.7	16.97	52.6	0.47	4.88	(NA)	(NA)	(NA)	(NA)	(NA)	**21**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	11/2/2022	Background	161.8	16.28	9.1	0.36	9.56	6.93	<1.0	<0.250	**10**	**160**	**29**	**17**	<3.0	<1.0	**73**	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	**1.16**
	3/12/2023	Background	177.2	14.09	73.2	1.35	3.90	6.51	<1.0	<0.250	**13**	**93 H**	**31**	**14**	(NA)	(NA)	**110**	(NA)	(NA)	(NA)	<2.0	<0.250	(NA)	<20	(NA)	<1.0	<1.0	(NA)	0.779(ND)
	12/11/2023	Background	178.5	16.25	720.9	0.90	1.11	6.62	<4	<0.25	**10**	**102**	**17.4**	**13.7**	<3.0	<1.0	**71.0**	<1.0	<1.0	<4.0	<2.0	<0.25	<1.0	<10.0	<0.20	<1.0	<1.0	<1.0	<2.0
	4/23/2024	Background	178.6	15.40	495.9	1.45	1.06	6.65	**1 "J"**	<0.25	**10**	**94**	**13.0**	**15.0**	(NA)	<1.0	**85.1**	(NA)	(NA)	(NA)	<2.0	<0.25	(NA)	<10.0	(NA)	<1.0	<1.0	(NA)	(NA)
	9/25/2024	Background	170.2	19.06	1006.8	0.50	2.61	6.82	**2.3 "J"**	<0.25	<10.0	**98**	**12.0**	**15.2**	<3.0	<1.0	**71.3**	<1.0	<1.0	<4.0	<2.0	<0.25	<1.0	<10.0	<0.20	<1.0	<1.0	<1.0	0.37 (ND)
	4/16/2025	Damaged	165.5	16.42	652.2	2.81	4.82	6.33	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	5/6/2025	Background	162.1	16.52	781.2	222.44	4.34	6.61	**1.7"J"**	**0.14 "J"**	**10.1**	**90**	**<10.0**	**14.8**	(NA)	<1.0	**82.3**	(NA)	(NA)	(NA)	<2.0	**0.14 "J"**	(NA)	<10.0	(NA)	<1.0	<1.0	(NA)	(NA)
MW-3	7/17/2025	D14 / A7 / CA1	164.5	18.24	996.9	0.95	4.58	6.32	**1.8 "J"**	**0.18 "J"**	**9.0 "J"**	**98**	**39.8**	**13.4**	<3.0	<1.0	**69.8**	<1.0	<1.0	<4.0	<2.0	**0.18 "J"**	<1.0	<10.0	<0.20	<1.0	<1.0	<1.0	0.62 "U"
	3/21/2026	D15/ A8/ CA2	165.2	17.64	739.6	1.16	9.69	6.30	**1.2 "J"**	**0.12 "J"**	**9.3 "J"**	**90**	**16**	**13.8**	(NA)	<1.0	**84.7**	(NA)	(NA)	(NA)	<2.0	**0.12 "J"**	(NA)	<10.0	(NA)	<1.0	**<1.0**	(NA)	(NA)

Notes:

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3. (ND) denotes Radium 226 and 228 (combined) concentration not detected above minimum detectable activity.
4. (NA) denotes analysis not conducted, not available at time of report, or not confirmed/replaced by resampling.
5. Baseline monitoring per USEPA 40 CFR 257.93.
6. Detection monitoring per USEPA 40 CFR 257.94. Detection Monitoring database comprised of analytical results for pH, Chloride, Fluoride, Sulfate, TDS, Boron, and Calcium.
7. Assessment monitoring per USEPA 40 CFR 257.95. Note Fluoride included in both Assesment and Detecion Monitoring Constituents, but data screening may be conducted over a different range.
8. Shaded cells indicate resampling occurred. Data that were not confirmed or were replaced by resample data is indicated with (NA) in shaded cell.
9. Red text with black border represent outlier values identified by Sanitas.
10. Blue shaded cells with black border indicate data removed for correction of a trend identified by Sanitas (Sen's Slope / Mann-Kendall).
11. Analytical Data Qualifiers provided by Laboratory:
    a. "J" - Analyte detected below quantitation limits
    b. "S" - Spike Recovery outside recovery limits

Sikeston Board of Municipal Utilities - Sikeston Power Station
Fly Ash Pond Baseline Groundwater Statistical Evaluation
Scott County, Missouri

Appendix 4 - Groundwater Quality Summary

Well ID	Date	Monitoring Purpose	Spec. Cond. µmhos/cm	Temp. °C	ORP mV	D.O. mg/L	Turbidity NTU	pH S.U.	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	TDS mg/L	Boron ug/L	Calcium mg/L	Antimony ug/L	Arsenic ug/L	Barium ug/L	Beryllium ug/L	Cadmium ug/L	Chromium ug/L	Cobalt ug/L	Fluoride mg/L	Lead ug/L	Lithium ug/L	Mercury ug/L	Molybdenum ug/L	Selenium ug/L	Thallium ug/L	Radium 226/228 (Combined) pCi/L
Federal MCL									None	4.0	None	None	None	None	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
MW-7 (DG) Baseline	3/21/2018	Background	901.8	14.85	41.8	0.58	1.61	7.30	**12**	**0.752**	**190**	**440**	**1900**	**110**	<3.0	<1.0	**41**	<1.0	<1.0	<4.0	<2.0	**0.752**	<1.0	**25**	<0.20	**160**	**5.4**	<1.0	0.883 (ND)
	4/15/2018	Background	936.4	14.04	40.0	0.51	0.96	7.24	**12**	**0.794**	**210**	**420**	**1900**	**110**	<3.0	<1.0	**43**	<1.0	<1.0	<4.0	**2.0**	**0.794**	<1.0	**19**	<0.20	**170**	**2.3**	<1.0	0.062 (ND)
	5/23/2018	Background	899.1	18.05	46.5	0.38	0.25	7.25	**11**	**0.650**	**220**	**480**	**1800**	**120**	<3.0	<1.0	**44**	<1.0	<1.0	<4.0	<2.0	**0.650**	<1.0	**22**	<0.20	**170**	**28**	<1.0	0.896 (ND)
	6/27/2018	Background	891.4	17.91	66.4	0.22	5.84	7.22	**11**	**0.592**	**220**	**500**	**2000**	**140**	<3.0	<1.0	**48**	<1.0	<1.0	<4.0	**2.1**	**0.592**	<1.0	**26**	<0.20	**160**	**53**	<1.0	1.153 (ND)
	8/1/2018	Background	958.3	18.03	53.0	0.28	1.77	7.22	**9.1**	**0.608**	**230**	**590**	**2300**	**140**	<3.0	<1.0	**47**	<1.0	<1.0	<4.0	**2.2**	**0.608**	<1.0	**30**	<0.20	**160**	**54**	<1.0	0.884(ND)
	9/5/2018	Background	873.3	19.46	69.3	0.28	2.29	7.29	**10**	**0.700**	**220**	**520**	**2100**	**130**	<3.0	<1.0	**47**	<1.0	<1.0	<4.0	**2.0**	**0.700**	<1.0	**27**	<0.20	**150**	**42**	<1.0	0.652(ND)
	11/6/2018	Background	787.9	18.12	344.4	0.44	0.44	7.35	**6.3**	**0.693**	**170**	**450**	**2000**	**120**	<3.0	<1.0	**43**	<1.0	<1.0	<4.0	**2.0**	**0.693**	<1.0	**26**	<0.20	**150**	**15**	<1.0	1.487(ND)
	12/12/2018	Background	784.8	17.26	51.6	1.05	0.41	7.27	**6.8**	**0.746**	**180**	**440**	**1800**	**120**	<3.0	<1.0	**44**	<1.0	<1.0	<4.0	**2.1**	**0.746**	<1.0	**26**	<0.20	**150**	**11**	<1.0	0.975 (ND)
	3/27/2019	Background	797.4	16.39	52.6	0.32	2.37	7.25	**6.6**	**0.670**	**170**	**480**	**1800**	**110**	NA	NA	NA	NA	NA	NA	NA	**0.670**	NA	NA	NA	NA	NA	NA	NA
	9/24/2019	Background	751.7	18.88	119.0	0.31	0.59	7.3	**3.9**	**0.684**	**150**	**470**	**1900**	**120**	NA	NA	NA	NA	NA	NA	NA	**0.684**	NA	NA	NA	NA	NA	NA	NA
	4/6/2020	Background	865.6	16.34	68.3	0.24	1.62	7.2	**4.0**	**0.737**	**200**	**540**	**2200**	**120**	NA	NA	NA	NA	NA	NA	NA	**0.737**	NA	NA	NA	NA	NA	NA	NA
	9/22/2020	Background	720.5	17.40	-80.8	3.63	0.50	NA	**3.1**	**0.628**	**110**	**460**	**1700**	**100**	NA	NA	NA	NA	NA	NA	NA	**0.628**	NA	NA	NA	NA	NA	NA	NA
	1/26/2021	Background	823.6	16.40	-49.2	0.27	0.41	7.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/17/2021	Background	870.0	15.17	-19.6	3.40	0.85	7.4	**1.8**	**0.522**	**160**	**520**	**2200**	**120**	NA	NA	NA	NA	NA	NA	NA	**0.522**	NA	NA	NA	NA	NA	NA	NA
	10/20/2021	Background	855.3	14.58	-44.0	3.75	0.75	7.35	**3.7**	**0.375**	**160**	**520**	**1,900**	**120**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	**0.375**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	4/9/2022	Background	958.3	-1.31	17.1	0.67	0.60	(NA)	**4.1**	**0.488**	**240**	**510**	**3,200**	**130**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	**0.488**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	8/2/2022	Background	835.0	17.59	64.1	0.23	1.77	7.31	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	11/2/2022	Background	874.2	18.26	56.8	0.44	2.60	7.36	**3.1**	**0.476**	**130**	**500**	**2,300**	**120**	<3.0	<1.0	**62**	<1.0	<1.0	<4.0	**3.5**	**0.476**	<1.0	**33**	<0.20	**100**	**4.7**	<1.0	**2.310**
	3/12/2023	Background	880.0	15.09	35.7	0.49	0.54	7.40	**3.7**	**0.635**	**190**	**520**	**2,600**	**140**	(NA)	(NA)	**77**	(NA)	(NA)	(NA)	**4.1**	**0.635**	(NA)	**27**	(NA)	**120**	**4.1**	(NA)	0.976(ND)
	12/11/2023	Background	840.1	16.69	172.5	0.48	0.91	7.28	**3 "J"**	**0.57**	**141**	**460**	**2,270**	**105**	<3.0	<1.0	**66.7**	<1.0	<1.0	<4.0	**2.7**	**0.57**	<1.0	**49.2**	<0.20	**127**	**3.0**	<1.0	<2.0
	4/23/2024	Background	723.4	16.59	761.7	0.38	0.93	7.29	**3 "J"**	**0.53**	**93**	**390**	**2,260**	**111 "S"**	(NA)	<1.0	**65.2**	(NA)	(NA)	(NA)	<2.0	**0.53**	(NA)	**30.6**	(NA)	**122**	**2.8**	(NA)	(NA)
	9/25/2024	Background	742.4	18.20	494.5	0.40	0.96	7.40	**4.11**	**0.58**	**84.3**	**420**	**1,800**	**98.0**	<3.0	<1.0	**64.4**	<1.0	<1.0	<4.0	**2.8**	**0.58**	<1.0	**34.7**	<0.20	**119**	**2.4**	<1.0	0.83 (ND)
	4/16/2025	Damaged	1008.3	16.65	294.5	0.39	7.38	7.25	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	5/6/2025	Background	954.7	16.74	240.2	221.30	5.22	7.27	**10.9**	**0.63**	**321**	**638**	**3,730**	**139**	(NA)	<1.0	**95.2**	(NA)	(NA)	(NA)	**2.3**	**0.63**	(NA)	**41.3**	(NA)	**108**	**2.1**	(NA)	(NA)
MW-7	7/17/2025	D14 / A7 / CA1	1165.8	18.35	636.5	0.33	6.32	7.16	**11.0**	**0.63**	**444**	**758**	**4,830**	**142**	<3.0	**<1.0**	**104**	<1.0	<1.0	<4.0	**2.7**	**0.63**	<1.0	**50.3**	<0.20	**91.5**	**1.8**	<1.0	1.44 "U"
	3/21/2026	D15/ A8/ CA2	966.1	17.84	754.9	0.27	1.67	7.17	**19**	**0.64**	**362**	**654**	**4,380**	**126**	(NA)	<1.0	**82.1**	(NA)	(NA)	(NA)	2.3	**0.64**	(NA)	81.3	(NA)	286.0	**<1.0**	(NA)	(NA)

Notes:

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3. (ND) denotes Radium 226 and 228 (combined) concentration not detected above minimum detectable activity.
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    a. "J" - Analyte detected below quantitation limits
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Sikeston Board of Municipal Utilities - Sikeston Power Station
Fly Ash Pond Baseline Groundwater Statistical Evaluation
Scott County, Missouri

Appendix 4 - Groundwater Quality Summary

Well ID	Date	Monitoring Purpose	Spec. Cond. µmhos/cm	Temp. °C	ORP mV	D.O. mg/L	Turbidity NTU	pH S.U.	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	TDS mg/L	Boron ug/L	Calcium mg/L	Antimony ug/L	Arsenic ug/L	Barium ug/L	Beryllium ug/L	Cadmium ug/L	Chromium ug/L	Cobalt ug/L	Fluoride mg/L	Lead ug/L	Lithium ug/L	Mercury ug/L	Molybdenum ug/L	Selenium ug/L	Thallium ug/L	Radium 226/228 (Combined) pCi/L
Federal MCL									None	4.0	None	None	None	None	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
MW-9 (DG) Baseline	3/21/2018	Background	979.8	14.98	25.1	0.52	1.60	7.35	**17**	**0.929**	**230**	**480**	**4700**	**65**	<3.0	<1.0	**49**	<1.0	<1.0	<4.0	<2.0	**0.929**	<1.0	**19**	<0.20	**630**	<1.0	<1.0	0.491 (ND)
	4/15/2018	Background	972.7	14.63	24.9	1.73	2.32	7.37	**21**	**1.09**	**240**	**460**	**5100**	**57**	<3.0	**1.2**	**49**	<1.0	<1.0	<4.0	<2.0	**1.09**	<1.0	**11**	<0.20	**680**	<1.0	<1.0	0.982 (ND)
	5/23/2018	Background	1020.5	18.70	25.9	0.48	0.64	7.34	**17**	**1.05**	**240**	**520**	**5800**	**55**	<3.0	<1.0	**45**	<1.0	<1.0	**8.1**	<2.0	**1.05**	<1.0	**15**	<0.20	**840**	<1.0	<1.0	0.359 (ND)
	6/27/2018	Background	902.9	19.33	25.2	0.42	4.97	7.32	**15**	**0.910**	**220**	**520**	**4600**	**73**	<3.0	<1.0	**47**	<1.0	<1.0	<4.0	<2.0	**0.910**	<1.0	**15**	<0.20	**560**	<1.0	<1.0	0.327 (ND)
	8/1/2018	Background	942.6	19.10	20.7	0.47	2.03	7.28	**16**	**0.916**	**220**	**560**	**4500**	**76**	<3.0	<1.0	**47**	<1.0	<1.0	<4.0	<2.0	**0.916**	<1.0	**18**	<0.20	**500**	<1.0	<1.0	0.418(ND)
	9/5/2018	Background	829.2	19.85	20.9	0.45	2.68	7.31	**16**	**0.957**	**180**	**420**	**4400**	**80**	<3.0	<1.0	**48**	<1.0	<1.0	<4.0	<2.0	**0.957**	<1.0	**17**	<0.20	**460**	<1.0	<1.0	0.707(ND)
	11/6/2018	Background	732.8	18.19	428.8	0.60	0.45	7.34	**11**	**0.885**	**130**	**410**	**3800**	**79**	<3.0	<1.0	**47**	<1.0	<1.0	<4.0	<2.0	**0.885**	<1.0	**13**	<0.20	**420**	<1.0	<1.0	1.473(ND)
	12/12/2018	Background	742.9	16.95	36.5	0.48	0.63	7.33	**12**	**0.972**	**170**	**360**	**3700**	**78**	<3.0	<1.0	**53**	<1.0	<1.0	<4.0	<2.0	**0.972**	<1.0	**17**	<0.20	**420**	<1.0	<1.0	1.232 (ND)
	3/27/2019	Background	673.2	16.74	22.1	0.51	0.96	7.40	**11**	**0.827**	**120**	**440**	**3100**	**70**	NA	NA	NA	NA	NA	NA	NA	**0.827**	NA	NA	NA	NA	NA	NA	NA
	9/24/2019	Background	891.5	19.25	38.3	0.41	0.62	7.4	**16**	**0.847**	**220**	**540**	**5000**	**87**	NA	NA	NA	NA	NA	NA	NA	**0.847**	NA	NA	NA	NA	NA	NA	NA
	4/6/2020	Background	967.5	17.60	61.6	0.34	0.92	7.3	**18**	**0.816**	**250**	NA	**4900**	**92**	NA	NA	NA	NA	NA	NA	NA	**0.816**	NA	NA	NA	NA	NA	NA	NA
	5/21/2020	Background	1024.4	17.09	-51.1	4.95	0.59	NA	NA	NA	NA	**560**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/22/2020	Background	891.9	17.59	-70.4	4.18	0.64	7.5	**15**	**0.832**	**210**	**550**	**5000**	**80**	NA	NA	NA	NA	NA	NA	NA	**0.832**	NA	NA	NA	NA	NA	NA	NA
	1/26/2021	Background	971.7	16.07	-69.1	0.34	0.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/17/2021	Background	1098.1	15.16	-19.7	7.52	0.91	7.4	**21**	**0.775**	**250**	**630**	**6200**	**57**	NA	NA	NA	NA	NA	NA	NA	**0.775**	NA	NA	NA	NA	NA	NA	NA
	10/20/2021	Background	1020.5	15.70	13.1	6.16	0.87	7.52	**18**	**1.33**	**240**	(NA)	**5,500**	**5**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	**1.330**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	12/27/2021	Background	886.0	8.57	-21.5	0.70	0.87	(NA)	(NA)	(NA)	(NA)	**520**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	4/9/2022	Background	894.7	-0.98	1.9	0.86	0.70	(NA)	11	(NA)	160	**330**	**3,800**	**64**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	8/2/2022	Background	681.8	18.12	27.6	0.30	2.29	7.39	(NA)	0.860	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	0.860	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	11/2/2022	Background	785.3	19.11	6.4	0.44	2.67	7.39	**12**	**1.03**	**160**	**540**	**3,000**	**97**	<3.0	<1.0	**78**	<1.0	<1.0	<4.0	<2.0	**1.03**	<1.0	**21**	<0.20	**210**	<1.0	<1.0	0.812 (ND)
	3/12/2023	Background	764.4	16.07	26.7	0.42	0.34	7.43	**11**	**1.02**	**160**	**480**	**3,600**	**95**	(NA)	(NA)	**85**	(NA)	(NA)	(NA)	<2.0	**1.02**	(NA)	<20	(NA)	**160**	<1.0	(NA)	1.50(ND)
	12/11/2023	Background	804.1	16.27	782.2	0.52	1.13	7.15	**13**	**0.70**	**171**	**466**	**2,750**	**101**	<3.0	<1.0	**84.1**	<1.0	<1.0	<4.0	<2.0	**0.70**	<1.0	**34.9**	<0.20	**102**	<1.0	<1.0	<2.0
	4/23/2024	Background	801.5	17.45	1035.7	0.44	1.06	7.05	**14**	**0.58**	**203**	**512**	**3,700**	**103**	(NA)	<1.0	**102**	(NA)	(NA)	(NA)	<2.0	**0.58**	(NA)	**23.0**	(NA)	**89.8**	<1.0	(NA)	(NA)
	9/25/2024	Background	832.2	18.46	1099.2	0.54	1.41	7.06	**14.4**	**0.55**	**216**	**508**	**4,140**	**88.9**	<3.0	<1.0	**91.5**	<1.0	<1.0	<4.0	<2.0	**0.55**	<1.0	**26.4**	<0.20	**109**	<1.0	<1.0	0.55 (ND)
	4/16/2025	Damaged	867.5	17.06	375.2	0.52	1.58	6.87	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	5/6/2025	Background	848.0	16.74	290.7	221.63	3.70	7.00	**13.1**	**0.71**	**213**	**510**	**4,060**	**87.5**	(NA)	<1.0	**90.9**	(NA)	(NA)	(NA)	**2.2**	**0.71**	(NA)	**24.4**	(NA)	**184**	<1.0	(NA)	(NA)
MW-9	7/17/2025	D14 / A7 / CA1	850.2	18.62	951.4	0.49	4.65	6.86	**13.0**	**0.64**	**208**	**506**	**4,340**	**68.8**	<3.0	<1.0	**82.0**	<1.0	<1.0	<4.0	**2.2**	**0.64**	<1.0	**25.0**	<0.20	**273**	<1.0	<1.0	0.61 "U"
	3/21/2026	D15/ A8/ CA2	703.1	18.60	787.6	0.39	8.85	6.79	**10.5**	**0.49**	**174**	**444**	**3,310**	**79.9**	(NA)	<1.0	**85.1**	(NA)	(NA)	(NA)	2.5	**0.49**	(NA)	26.9	(NA)	146	**<1.0**	(NA)	(NA)

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Fly Ash Pond Baseline Groundwater Statistical Evaluation
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Appendix 4 - Groundwater Quality Summary

Well ID	Date	Monitoring Purpose	Spec. Cond. µmhos/cm	Temp. °C	ORP mV	D.O. mg/L	Turbidity NTU	pH S.U.	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	TDS mg/L	Boron ug/L	Calcium mg/L	Antimony ug/L	Arsenic ug/L	Barium ug/L	Beryllium ug/L	Cadmium ug/L	Chromium ug/L	Cobalt ug/L	Fluoride mg/L	Lead ug/L	Lithium ug/L	Mercury ug/L	Molybdenum ug/L	Selenium ug/L	Thallium ug/L	Radium 226/228 (Combined) pCi/L
Federal MCL									None	4.0	None	None	None	None	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
MW-10 (DG) Baseline	2/15/2023	Background	599.92	18.30	-64.8	0.14	8.51	7.02	**14**	<0.250	**120**	**360**	**340**	**81**	<3.0	**6.9**	**150**	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<20	<0.20	**25**	<1.0	<1.0	<0.773
	8/21/2023	Background	677.61	20.31	-29.0	0.34	5.79	6.91	**17**	**0.31**	**141**	**465**	**233**	**90.1**	<3.0	**5.7**	**139**	<1.0	<1.0	<4.0	<2.0	**0.31**	<1.0	**31.0**	<0.20	**15.4**	<1.0	<1.0	<2.00
	9/5/2023	Background	695.13	20.58	-36.5	0.28	1.86	6.85	**18**	**0.30**	**168**	**490**	**240**	**83.5**	<3.0	**7.4**	**134**	<1.0	<1.0	<4.0	<2.0	**0.30**	<1.0	**34.7**	<0.20	**24.8**	<1.0	<1.0	<2.00
	9/20/2023	Background	693.51	19.95	-82.5	0.33	0.40	6.79	**21**	**0.28**	**182**	**450**	**249**	**86.4**	<3.0	**5.6**	**141**	<1.0	<1.0	<4.0	<2.0	**0.28**	<1.0	**32.2**	<0.20	**21.7**	<1.0	<1.0	<2.00
	10/2/2023	Background	720.70	20.81	-44.2	0.26	2.62	6.98	**19**	**0.29**	**171**	**440**	**265**	**87.6**	<3.0	**5.5**	**157**	<1.0	<1.0	<4.0	<2.0	**0.29**	<1.0	**36.2**	<0.20	**20.7**	<1.0	<1.0	<2.00
	10/17/2023	Background	726.4	19.44	-101.1	0.33	0.72	7.05	**20**	**0.42**	**164**	**412**	**284**	**86.5**	<3.0	**6.1**	**146**	<1.0	<1.0	<4.0	<2.0	**0.42**	<1.0	**40**	<0.20	**24.2**	<1.0	<1.0	<2.00
	11/2/2023	Background	722.98	19.46	198.7	0.42	0.53	6.84	**20**	**0.30**	**161**	**394**	**282**	**86.3**	<3.0	**8.7**	**141**	<1.0	<1.0	<4.0	<2.0	**0.30**	<1.0	**40.6**	<0.20	**18.0**	<1.0	<1.0	<2.0
	11/15/2023	Background	181.18	19.51	383.6	0.30	0.74	6.87	**21**	**0.30**	**187**	**400**	**342**	**91.7**	<3.0	**6.3**	**151**	<1.0	<1.0	<4.0	<1.0	**0.30**	<1.0	**13.4**	<0.20	**24.0**	<1.0	<1.0	<2.0
	12/11/2023	Background	720.43	18.48	98.6	0.35	0.60	7.06	**19**	**0.29**	**166**	**455**	**378**	**88.8**	<3.0	**5.9**	**142**	<1.0	<1.0	<4.0	<2.0	**0.29**	<1.0	**11.4**	<0.20	**25.2**	<1.0	<1.0	<2.0
	4/23/2024	Background	680.1	18.28	432.0	0.31	9.96	6.93	**8**	<0.25	**140**	**420**	**241**	**90.4**	(NA)	**6.6**	**138**	(NA)	(NA)	(NA)	<2.0	<0.25	(NA)	<10.0	(NA)	**19.3**	<1.0	(NA)	(NA)
	9/25/2024	Background	540.7	21.16	270.7	0.29	0.99	7.21	**13.7**	**0.28**	**106**	**338**	**397**	**64.4**	<3.0	**4.9**	**108**	<1.0	<1.0	<4.0	<2.0	**0.28**	<1.0	<10.0	<0.20	**25.3**	<1.0	<1.0	0.69 (ND)
	4/16/2025	Damaged	619.1	17.72	68.9	0.25	8.24	7.09	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	5/6/2025	Background	665.1	17.82	73.7	221.32	7.12	7.08	**8.41**	**0.24 "J"**	**86.3**	**396**	**210**	**88.9**	(NA)	**6.8**	**130**	(NA)	(NA)	(NA)	<2.0	**0.24 "J"**	(NA)	<10.0	(NA)	**14.1**	<1.0	(NA)	(NA)
MW-10	7/17/2025	D14 / A7 / CA1	684.5	20.17	941.6	0.34	4.96	6.93	**9.85**	**0.28**	**119**	**412**	**303**	**71.8**	<3.0	**4.4**	**130**	<1.0	<1.0	<4.0	<2.0	**0.28**	<1.0	<10.0	<0.20	**21.0**	<1.0	<1.0	0.31 "U"
	3/21/2026	D15/ A8/ CA2	636.2	17.71	253.4	0.21	16.75	7.01	**14.6**	**0.24 "J"**	**108**	**396**	**241**	**76.4**	(NA)	5.6	**128**	(NA)	(NA)	(NA)	<2.0	**0.24 "J"**	(NA)	<10.0	(NA)	16.9	**<1.0**	(NA)	(NA)

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Well ID	Date	Monitoring Purpose	Spec. Cond. µmhos/cm	Temp. °C	ORP mV	D.O. mg/L	Turbidity NTU	pH S.U.	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	TDS mg/L	Boron ug/L	Calcium mg/L	Antimony ug/L	Arsenic ug/L	Barium ug/L	Beryllium ug/L	Cadmium ug/L	Chromium ug/L	Cobalt ug/L	Fluoride mg/L	Lead ug/L	Lithium ug/L	Mercury ug/L	Molybdenum ug/L	Selenium ug/L	Thallium ug/L	Radium 226/228 (Combined) pCi/L
Federal MCL									None	4.0	None	None	None	None	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
MW-4 (DG) Baseline	11/30/2016	Background	575.6	17.51	-108.3	0.48	0.61	7.46	**18**	0.259	**140**	**390**	**1400**	**89**	<3.0	<1.0	41	<1.0	<1.0	<4.0	<2.0	0.259	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.572(ND)
	1/24/2017	Background	543.7	17.00	-105.2	0.50	0.48	7.45	**15**	<0.250	**120**	**290**	**880**	**79**	<3.0	<1.0	46	<2.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.7031(ND)
	2/22/2017	Background	554.0	17.95	-115.3	0.51	1.19	7.49	**13**	<0.250	**97**	**320**	**1500**	**78**	<3.0	<1.0	51	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.550(ND)
	3/20/2017	Background	562.8	18.58	-108.8	0.69	1.70	7.37	**12**	<0.250	**94**	**350**	**1400**	**72**	<3.0	<1.0	53	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	1.3	<1.0	<1.0	<1.0	1.036
	4/27/2017	Background	536.9	17.25	-129.6	0.91	2.38	7.38	**14**	<0.250	**99**	**300**	**1300**	**74**	<3.0	<1.0	50	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.210(ND)
	5/17/2017	Background	554.9	17.90	-115.5	0.63	3.02	7.38	**14**	<0.250	**96**	**320**	**1200**	**71**	<3.0	<1.0	66	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.774(ND)
	6/8/2017	Background	509.7	18.24	-122.9	0.86	0.84	7.38	**12**	<0.250	**86**	**340**	**1100**	**61**	<3.0	<1.0	45	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	0.464(ND)
	7/13/2017	Background	575.5	19.46	-115.2	0.52	1.43	7.37	**13**	<0.250	**88**	**300**	**1200**	**79**	<3.0	<1.0	52	<1.0	<1.0	<4.0	<2.0	<0.250	<1.0	<10	<0.20	<1.0	<1.0	<1.0	1.086(ND)
	10/31/2017	Background	525.8	18.35	-118.1	0.63	1.07	7.31	**17**	<0.250	**83**	**290**	**1400**	**67**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	6/13/2018	Background	511.5	18.92	-120.7	0.44	18.50	7.32	**14**	<0.250	**86**	**290**	**1200**	**80**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	11/26/2018	Background	468.0	16.07	-101.8	0.53	1.01	7.36	**8.8**	<0.250	**54**	**260**	**1100**	**64**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	2/5/2019	Background	761.0	15.62	-97.5	0.52	2.58	7.3	**33**	<0.250	**140**	**420**	**1100**	**100**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	5/28/2019	Background	581.7	18.65	-108.5	0.37	3.30	7.3	**11**	<0.250	**75**	(NA)	**980**	**70**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	7/23/2019	Background	615.2	18.88	-105.2	0.43	0.36	(NA)	(NA)	(NA)	(NA)	**340**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	8/28/2019	Background	645.4	19.60	-101.7	0.40	2.31	(NA)	**18**	<0.250	**110**	**300**	**1100**	**83**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	10/23/2019	Background	620.0	18.90	-110.6	0.55	1.93	7.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	11/4/2019	Background	657.7	18.52	-104.2	0.50	0.96	7.2	2.1	<0.250	**120**	**400**	**1200**	**89**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	2/18/2020	Background	526.9	14.49	-87.6	0.63	1.60	7.4	**11**	<0.250	**66**	(NA)	**930**	**67**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	3/30/2020	Background	520.6	16.45	-91.1	0.35	19.51	(NA)	(NA)	(NA)	(NA)	**300**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	7/21/2020	Background	550.7	19.75	-145.6	5.06	6.49	(NA)	**14**	<0.250	**86**	**290**	**920**	**76**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	8/3/2020	Background	567.8	18.81	-117.8	4.87	7.19	7.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	10/20/2020	Background	596.6	17.94	-92.1	6.36	1.80	7.4	**17**	<0.250	**96**	**330**	**1000**	**80**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	4/16/2021	Background	591.2	15.99	-58.4	4.85	12.85	7.4	**19**	<0.250	**100**	**340**	**920**	**85**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	11/1/2021	Background	609.8	14.87	-59.8	0.54	2.97	7.34	**16**	<0.250	**95**	**360**	**870**	**76**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	8/3/2022	Background	552.4	19.67	-130.9	0.32	6.40	7.32	**14**	<0.250	**93**	**390**	**880**	**76**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	11/1/2022	Background	539.5	18.90	-127.6	0.90	3.19	(NA)	**12**	<0.250	**79**	**340**	**940**	**81**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	12/13/2022	Background	519.3	17.05	-120.4	0.41	2.35	7.27	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	4/18/2023	Background	405.2	17.75	-96.3	0.30	10.86	7.49	**10**	<0.250	**76**	**330**	**680**	**72**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	10/11/2023	Background	596.5	18.52	-108.6	0.60	0.49	7.25	**14**	<0.250	**88**	**335**	**940**	**81.1**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	4/24/2024	Background	582.2	17.41	701.0	0.45	10.03	7.27	**14**	<0.25	**107**	**344**	**581**	**83.6**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	9/17/2024	Background	774.5	19.17	-100.3	0.52	2.29	7.37	(NA)	<0.250	(NA)	(NA)	**1030**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	10/23/2024	Background	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	45.2	(NA)	**189**	**560**	(NA)	**122**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
	4/15/2025	Background	693.9	17.02	392.1	0.62	1.79	7.41	**19.6**	<0.25	**133**	**414 "H"**	**617**	**86.5**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
MW-4	7/17/2025	CA Monitoring	803.5	19.04	518.4	0.51	5.61	7.10	**32.0**	**0.05 "J"**	**171**	**528**	**1,090**	**101**	<3.0	<1.0	**112**	<1.0	<1.0	<4.0	<2.0	**0.05 "J"**	<1.0	<10.0	<0.20	**5.3**	<1.0	<1.0	0.92 "U"
	3/21/2026	D15/ A8/ CA2	713.10	18.73	840.0	0.41	11.41	7.19	**23**	**ND**	**153**	**460**	**955**	**99.4**	(NA)	**<1.0**	**107**	(NA)	(NA)	(NA)	<2.0	**ND**	(NA)	<10.0	(NA)	9.5	<1.0	(NA)	(NA)

Notes:

1. All data and Qualifiers transcribed from analytical lab data sheets or field notes.
2. Less than (<) symbol denotes concentration not detected at or above reporting limits. Bold values indicate analyte detected above reporting limit.
3. (ND) denotes Radium 226 and 228 (combined) concentration not detected above minimum detectable activity.
4. (NA) denotes analysis not conducted, not available at time of report, or not confirmed/replaced by resampling.
5. Baseline monitoring per USEPA 40 CFR 257.93.
6. Detection monitoring per USEPA 40 CFR 257.94. Detection Monitoring database comprised of analytical results for pH, Chloride, Fluoride, Sulfate, TDS, Boron, and Calcium.
7. Assessment monitoring per USEPA 40 CFR 257.95. Note Fluoride included in both Assesment and Detecion Monitoring Constituents, but data screening may be conducted over a different range.
8. Shaded cells indicate resampling occurred. Data that were not confirmed or were replaced by resample data is indicated with (NA) in shaded cell.
9. Red text with black border represent outlier values identified by Sanitas.
10. Blue shaded cells with black border indicate data removed for correction of a trend identified by Sanitas (Sen's Slope / Mann-Kendall).
11. Analytical Data Qualifiers provided by Laboratory:
    a. "J" - Analyte detected below quantitation limits
    b. "S" - Spike Recovery outside recovery limits

4/2/2025
Prepared by: TH
Checked by: KAE
Approved by: KAE

Sikeston Board of Municipal Utilities - Sikeston Power Station
Fly Ash Pond Baseline Groundwater Statistical Evaluation
Scott County, Missouri

Appendix 4 - Groundwater Quality Summary

Well ID	Date	Monitoring Purpose	Spec. Cond. µmhos/cm	Temp. °C	ORP mV	D.O. mg/L	Turbidity NTU	pH S.U.	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	TDS mg/L	Boron ug/L	Calcium mg/L	Antimony ug/L	Arsenic ug/L	Barium ug/L	Beryllium ug/L	Cadmium ug/L	Chromium ug/L	Cobalt ug/L	Fluoride mg/L	Lead ug/L	Lithium ug/L	Mercury ug/L	Molybdenum ug/L	Selenium ug/L	Thallium ug/L	Radium 226/228 (Combined) pCi/L
Federal MCL									None	4.0	None	None	None	None	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
NE-3 (DG) Baseline	2/15/2023	Background	553.9	16.52	-62.6	0.19	16.01	7.14	**1.5**	<0.250	**33**	**300**	**77**	**82**	<3.0	**1.5**	**300**	<1.0	<1.0	<4.0	<2.0	**<0.250**	<1.0	<20	<0.20	**2.2**	**1.3**	<1.0	<2.00
	6/16/2025	Background	681.1	18.13	331.4	0.25	7.78	**6.91**	**3.6 "J"**	**0.12 "J"**	**47.8**	**332**	**48.8**	**73.1**	<3.0	**1.7**	**326**	<1.0	<1.0	<4.0	<2.0	**0.12 "J"**	<1.0	<10.0	<0.20	<1.0	<1.0	<1.0	0.15 "U"
	7/16/2025	Background	632.1	19.69	1051.8	0.23	6.29	**6.98**	**3.8 "J"**	**0.10 "J"**	**48.0**	**358**	**<10.0**	**73.5**	<3.0	**1.6**	**333**	<1.0	<1.0	<4.0	<2.0	**0.10 "J"**	<1.0	<10.0	<0.20	<1.0	<1.0	<1.0	<2.00
	7/29/2025	Background	590.8	19.62	191.3	0.29	5.53	**7.03**	**3.6 "J"**	**0.11 "J"**	**44.7**	**378 "H"**	**47.3**	**75.5**	<3.0	**1.4**	**307**	<1.0	<1.0	<4.0	<2.0	**0.11 "J"**	<1.0	<10.0	<0.20	**1.7**	<1.0	**1.0**	<2.00
	8/14/2025	Background	592.8	19.81	769.6	0.28	8.30	**7.04**	**4.46**	**0.16 "J"**	**51.3**	**337**	**54.1**	**84.1**	<3.0	**1.8**	**339 "B"**	<1.0	<1.0	<4.0	<2.0	**0.16 "J"**	<1.0	<10.0	<0.20	**1.2**	<1.0	<1.0	<2.00
	9/8/2025	Background	687.0	20.04	728.5	0.22	6.40	6.99	**4.49**	**0.04 "J"**	**59.3**	**404**	**61.8**	**90.5**	<3.0	**1.5**	**345**	<1.0	<1.0	<4.0	<2.0	**0.04 "J"**	<1.0	<10.0	<0.20	**1.5**	<1.0	<1.0	0.29 "U"
	10/7/2025	Background	622.1	19.86	579.3	0.47	9.23	7.09	**3.4 "J"**	**0.10 "J"**	**57.6**	**362**	**60.7**	**82.2**	<3.0	**1.3**	**313**	<1.0	<1.0	<4.0	<2.0	**0.10 "J"**	<1.0	<10.0	<0.20	<1.0	<1.0	<1.0	1.990 "U"
	10/23/2025	Background	626.20	20.40	218.0	0.28	7.84	7.04	**3.4 "J"**	**0.07 "J"**	**54.6**	**356**	**56.1**	**83.7**	<3.0	**1.5**	**320**	<1.0	<1.0	<4.0	<2.0	**0.07 "J"**	<1.0	<10.0	<0.20	**1.4**	<1.0	<1.0	1.960 "U"
	12/10/2025	Background	637.30	18.10	77.3	0.44	8.60	6.86	**2.3 "J"**	**0.09 "J"**	**41.7**	**346**	**32.8**	**84.0**	<3.0	**1.7**	**328**	<1.0	<1.0	<4.0	<2.0	**0.09 "J"**	<1.0	<10.0	<0.20	**1.2**	<1.0	<1.0	1.48 "U"
NE-3	7/17/2025	CA Monitoring	601.74	20.59	829.2	0.33	7.88	6.93	**3.8 "J"**	**0.14 "J"**	**45.7**	**350**	**73.8**	**67.9**	<3.0	**1.5**	**297**	<1.0	<1.0	<4.0	<2.0	**0.14 "J"**	<1.0	<10.0	<0.20	<1.0	<1.0	<1.0	0.48 "U"
	3/21/2026	D15/ A8/ CA2	648.00	17.50	334.5	0.27	11.72	6.99	**1.8"J"**	**0.11 "J"**	**41.7**	**342**	**48.2**	**83.2**	(NA)	**1.4**	**361**	(NA)	(NA)	(NA)	<2.0	**0.11 "J"**	(NA)	(NA)	(NA)	<1.0	<1.0	(NA)	(NA)

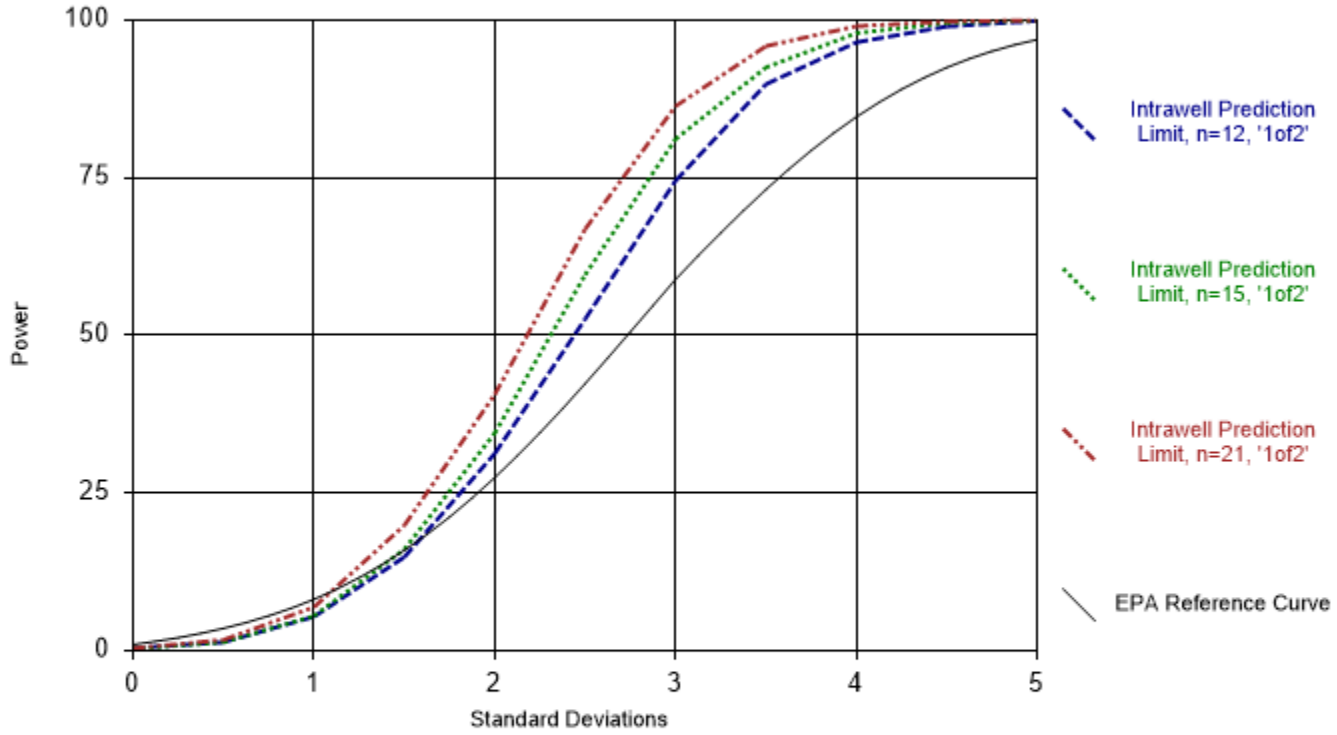
Notes:

1. All data and Qualifiers transcribed from analytical lab data sheets or field notes.
2. Less than (<) symbol denotes concentration not detected at or above reporting limits. Bold values indicate analyte detected above reporting limit.
3. (ND) denotes Radium 226 and 228 (combined) concentration not detected above minimum detectable activity.
4. (NA) denotes analysis not conducted, not available at time of report, or not confirmed/replaced by resampling.
5. Baseline monitoring per USEPA 40 CFR 257.93.
6. Detection monitoring per USEPA 40 CFR 257.94. Detection Monitoring database comprised of analytical results for pH, Chloride, Fluoride, Sulfate, TDS, Boron, and Calcium.
7. Assessment monitoring per USEPA 40 CFR 257.95. Note Fluoride included in both Assesment and Detecion Monitoring Constituents, but data screening may be conducted over a different range.
8. Shaded cells indicate resampling occurred. Data that were not confirmed or were replaced by resample data is indicated with (NA) in shaded cell.
9. Red text with black border represent outlier values identified by Sanitas.
10. Blue shaded cells with black border indicate data removed for correction of a trend identified by Sanitas (Sen's Slope / Mann-Kendall).
11. Analytical Data Qualifiers provided by Laboratory:
    a. "J" - Analyte detected below quantitation limits
    b. "S" - Spike Recovery outside recovery limits

Appendix 5
Statistical Power Curves

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Power Curve



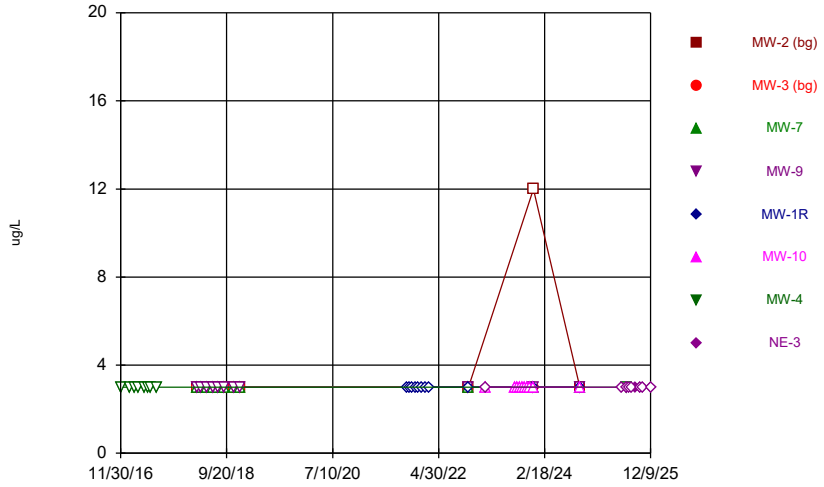
Analysis Run 8/1/2025 3:36 PM View: BKG update 7.30.2025

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Appendix 6
Time Series Plots

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

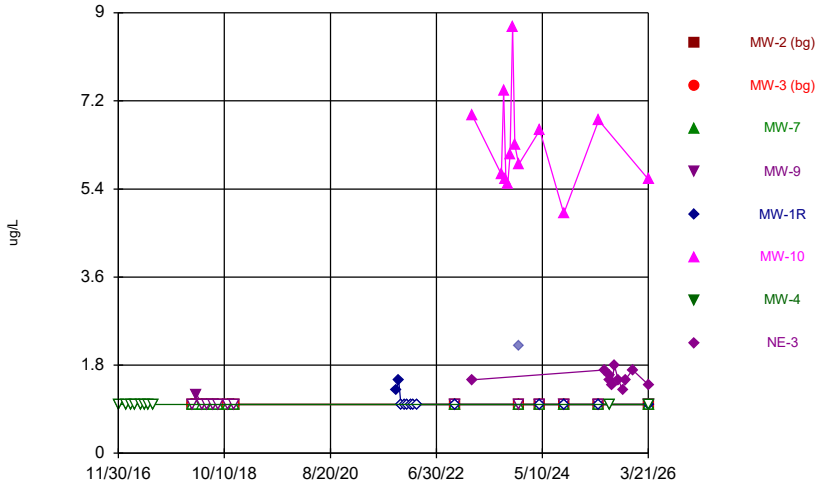
Antimony



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

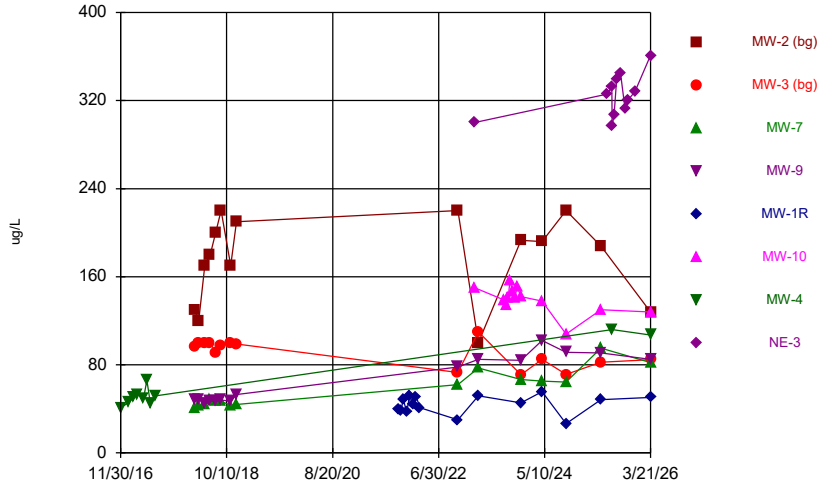
Arsenic



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

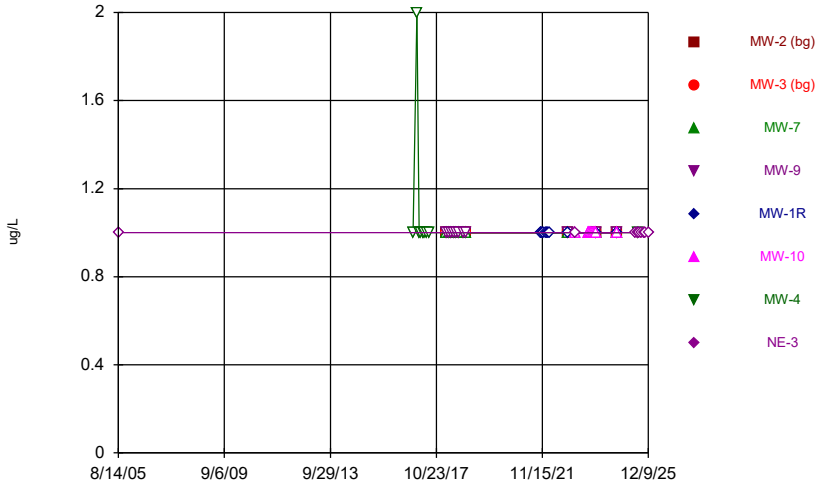
Barium



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

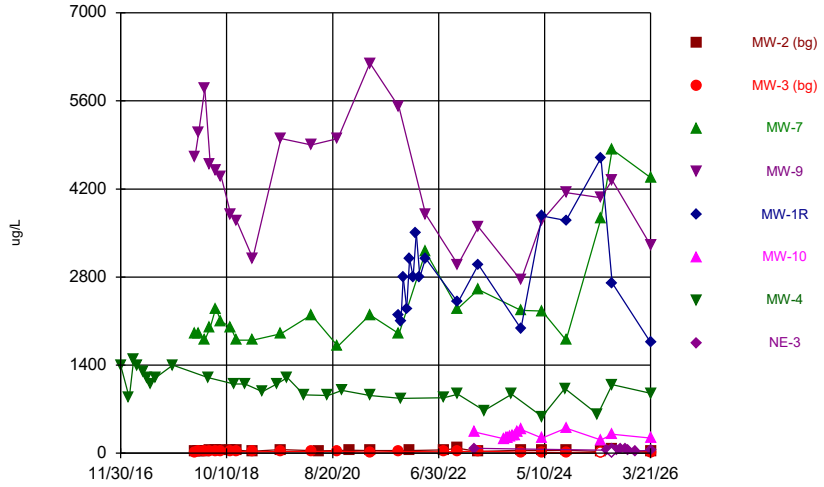
Beryllium



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

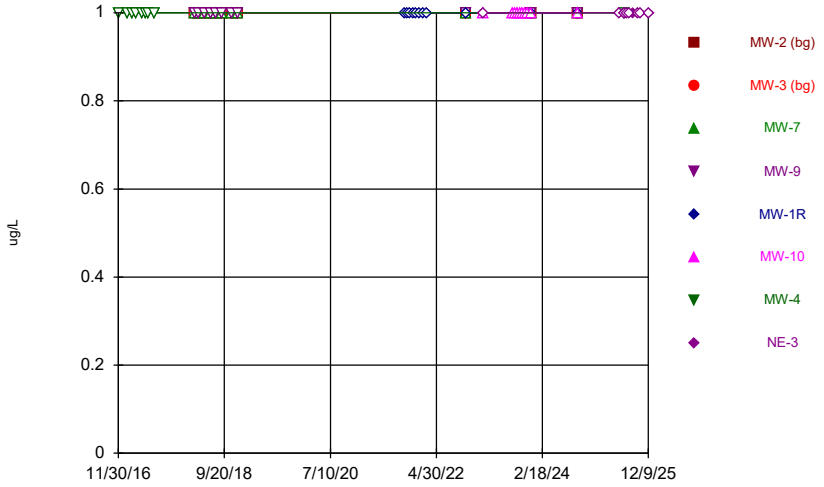
Boron



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

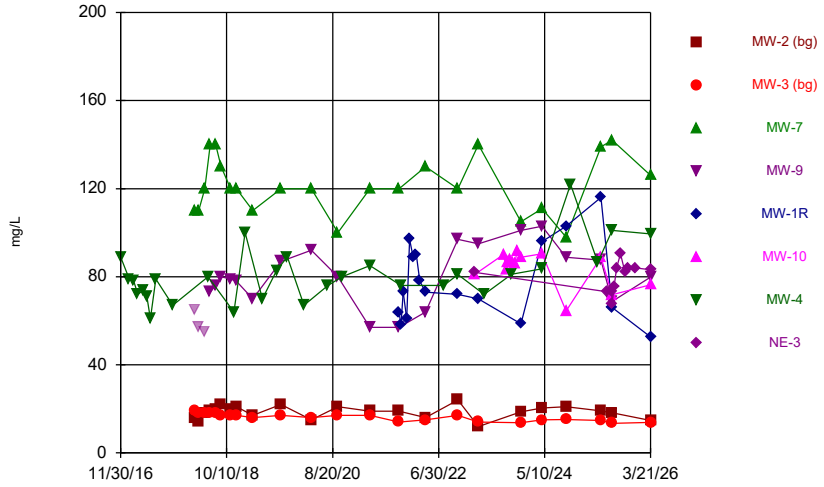
Cadmium



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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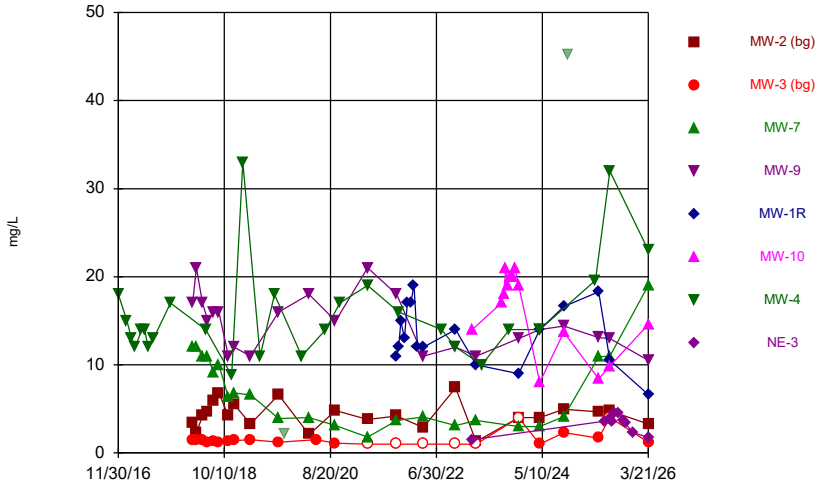
Calcium



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

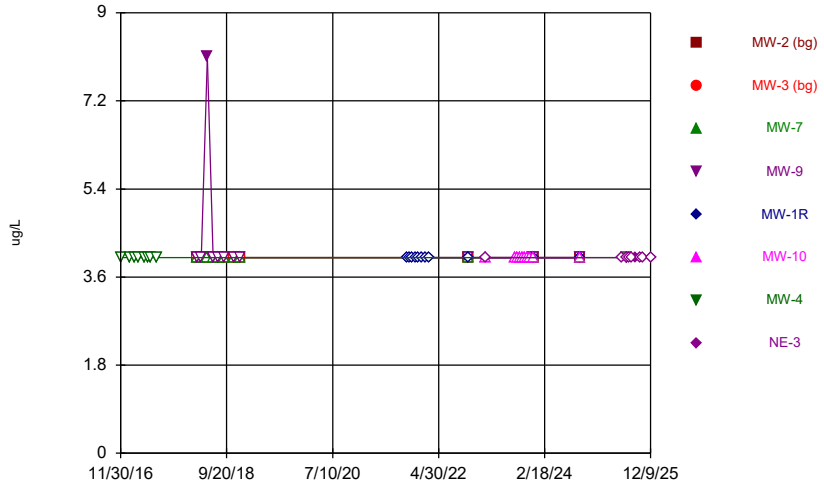
Chloride



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

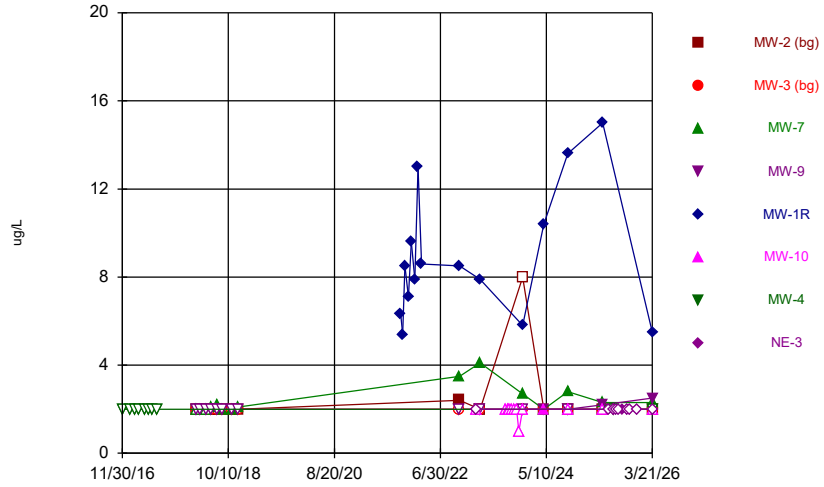
Chromium



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

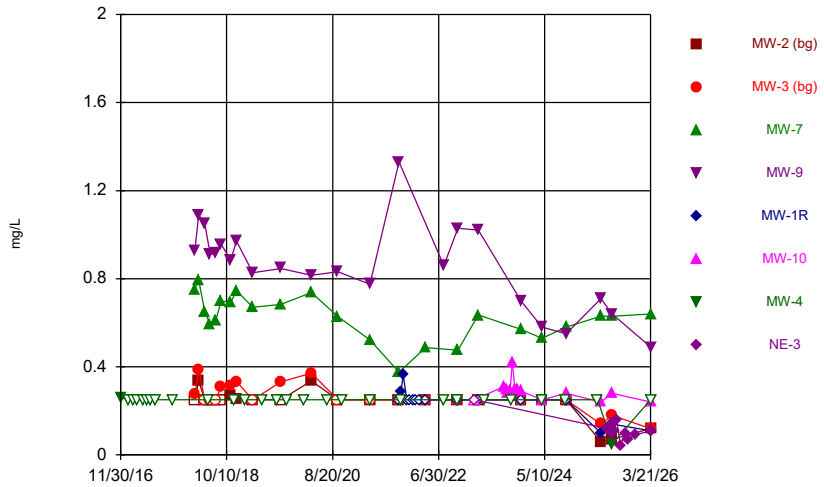
Cobalt



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

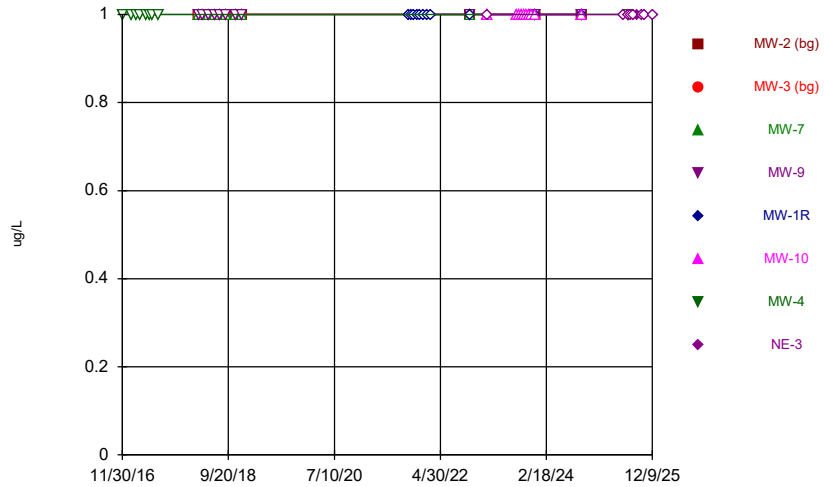
Fluoride



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

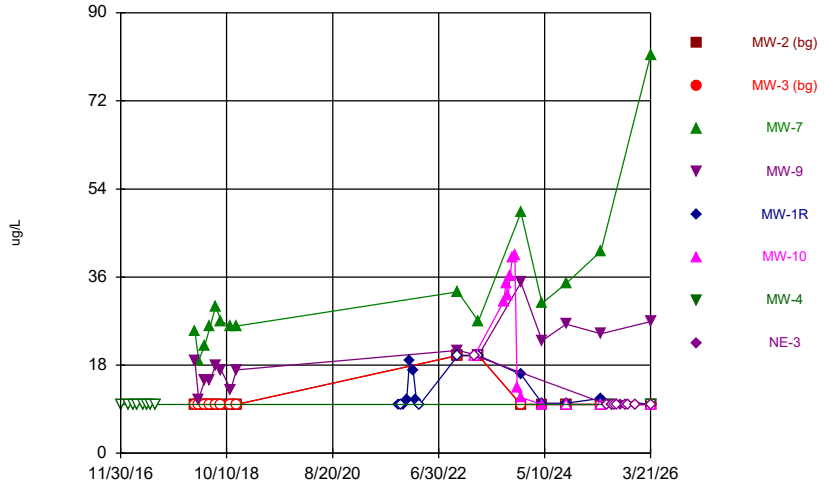
Lead



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

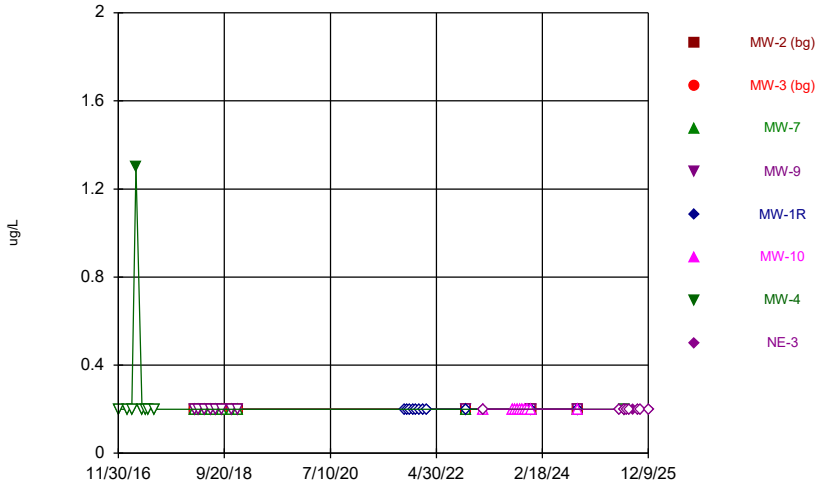
Lithium



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

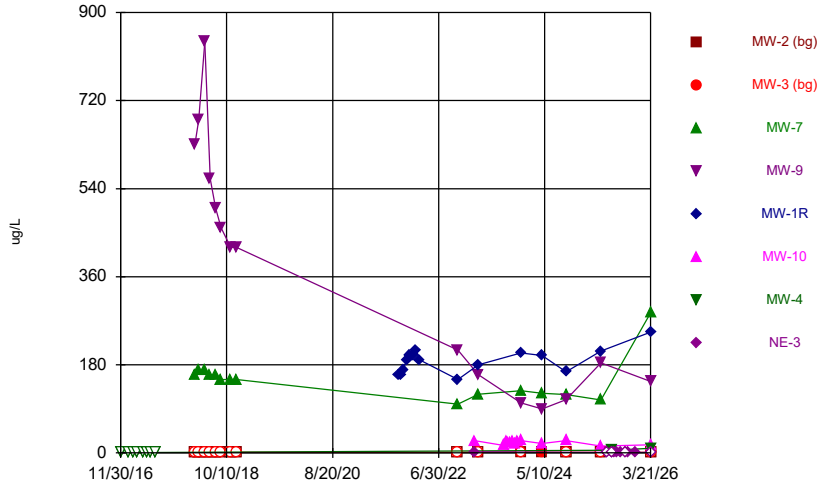
Mercury



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

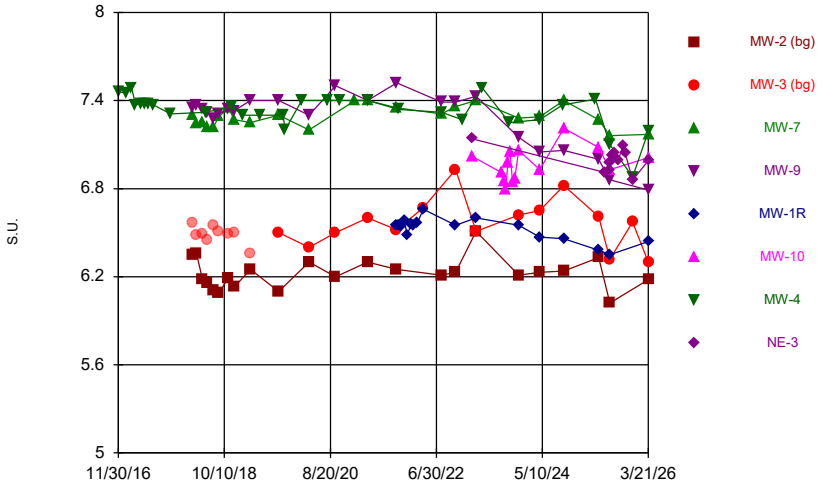
Molybdenum



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

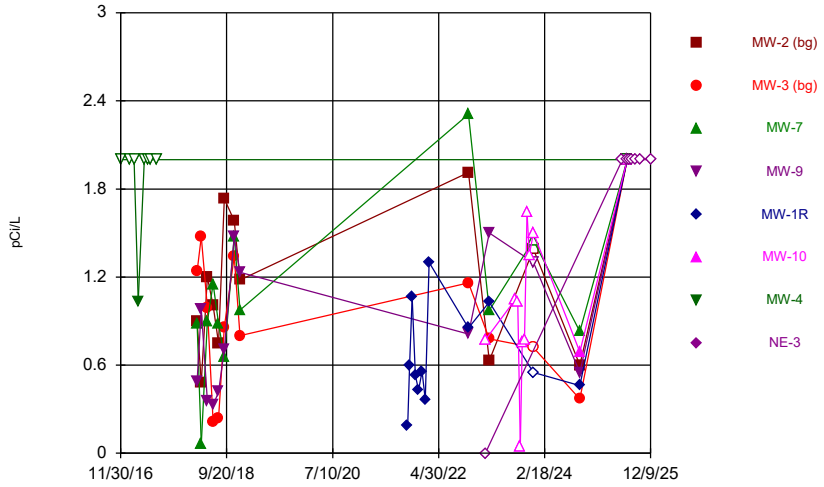
pH



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

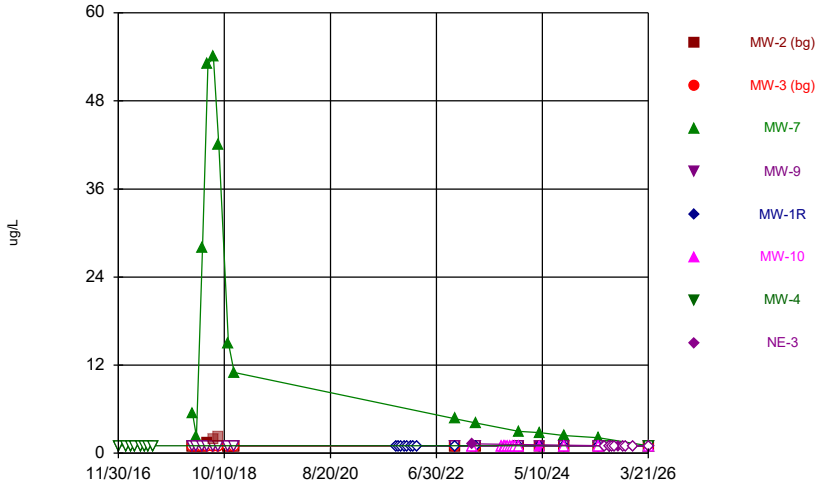
Radium



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

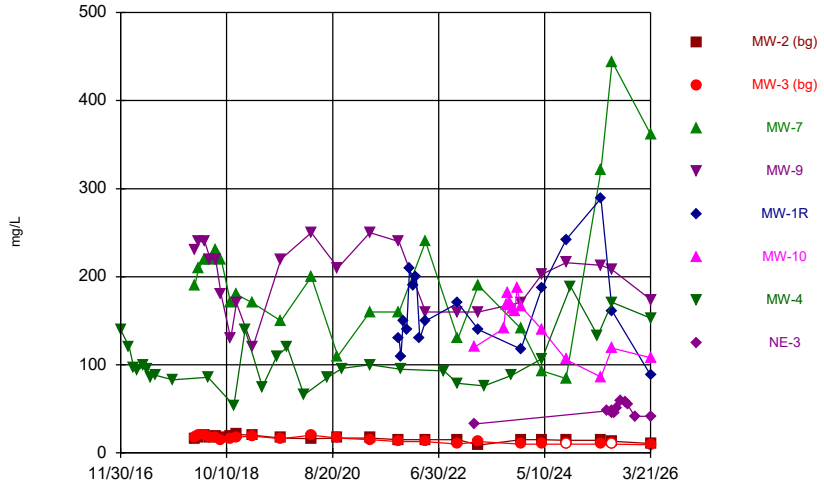
Selenium



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

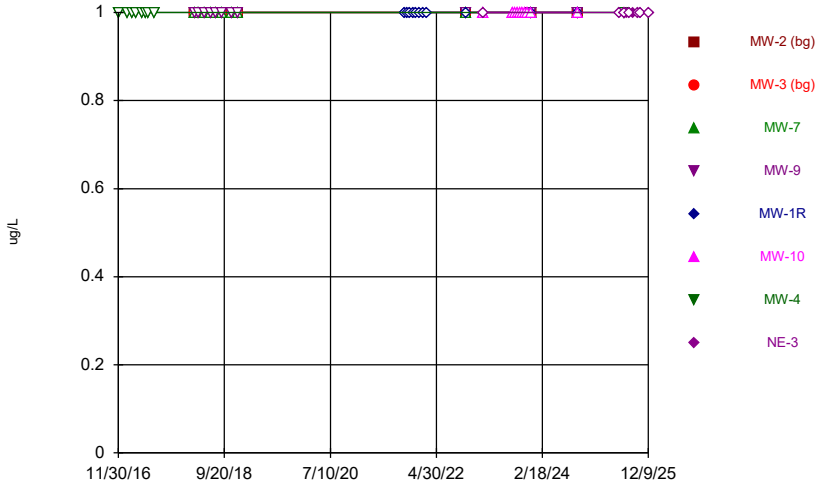
Sulfate



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

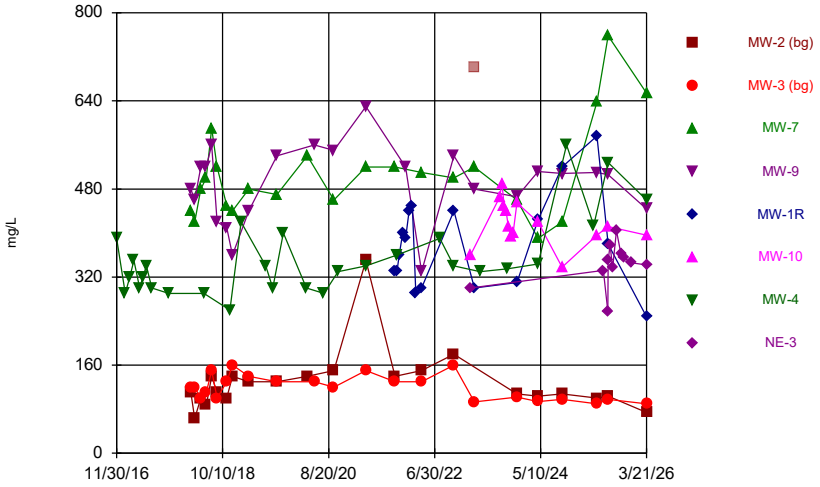
Thallium



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids



Time Series Analysis Run 4/6/2026 9:20 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Appendix 7
Box and Whiskers Plots

Box & Whiskers Plot

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 3/11/2026, 10:32 AM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Min.	Max.	%NDs
Antimony (ug/L)	MW-2 (bg)	11	3.818	2.714	0.8182	3	3	12	100
Antimony (ug/L)	MW-3 (bg)	11	3	0	0	3	3	3	100
Antimony (ug/L)	MW-7	11	3	0	0	3	3	3	100
Antimony (ug/L)	MW-9	11	3	0	0	3	3	3	100
Antimony (ug/L)	MW-1R	11	3	0	0	3	3	3	100
Antimony (ug/L)	MW-10	10	3	0	0	3	3	3	100
Antimony (ug/L)	MW-4	9	3	0	0	3	3	3	100
Antimony (ug/L)	NE-3	10	3	0	0	3	3	3	90
Arsenic (ug/L)	MW-2 (bg)	13	1	0	0	1	1	1	100
Arsenic (ug/L)	MW-3 (bg)	13	1	0	0	1	1	1	100
Arsenic (ug/L)	MW-7	13	1	0	0	1	1	1	100
Arsenic (ug/L)	MW-9	13	1.015	0.05547	0.01538	1	1	1.2	92.31
Arsenic (ug/L)	MW-1R	12	1.067	0.1614	0.0466	1	1	1.5	83.33
Arsenic (ug/L)	MW-10	12	6.367	1.012	0.2922	6.2	4.9	8.7	0
Arsenic (ug/L)	MW-4	9	1	0	0	1	1	1	100
Arsenic (ug/L)	NE-3	10	1.55	0.1509	0.04773	1.5	1.3	1.8	0
Barium (ug/L)	MW-2 (bg)	14	179.5	38.4	10.26	190	100	220	0
Barium (ug/L)	MW-3 (bg)	14	91.19	12.54	3.352	97	71	110	0
Barium (ug/L)	MW-7	14	56.25	16.08	4.296	47.5	41	95.2	0
Barium (ug/L)	MW-9	14	65.46	21.47	5.737	51	45	102	0
Barium (ug/L)	MW-1R	14	43.57	8.603	2.299	44.75	26.6	55.5	0
Barium (ug/L)	MW-10	12	139.8	12.49	3.606	141	108	157	0
Barium (ug/L)	MW-4	9	57.33	21.66	7.219	51	41	112	0
Barium (ug/L)	NE-3	10	320.8	16.31	5.159	323	297	345	0
Beryllium (ug/L)	MW-2 (bg)	11	1	0	0	1	1	1	100
Beryllium (ug/L)	MW-3 (bg)	11	1	0	0	1	1	1	100
Beryllium (ug/L)	MW-7	11	1	0	0	1	1	1	100
Beryllium (ug/L)	MW-9	11	1	0	0	1	1	1	100
Beryllium (ug/L)	MW-1R	11	1	0	0	1	1	1	100
Beryllium (ug/L)	MW-10	10	1	0	0	1	1	1	100
Beryllium (ug/L)	MW-4	9	1.111	0.3333	0.1111	1	1	2	100
Beryllium (ug/L)	NE-3	10	1	0	0	1	1	1	100
Boron (ug/L)	MW-2 (bg)	22	43.58	12.83	2.735	43	23	81	0
Boron (ug/L)	MW-3 (bg)	22	23.33	7.294	1.555	23.5	10	39.8	4.545
Boron (ug/L)	MW-7	22	2295	742.8	158.4	2050	1700	4830	0
Boron (ug/L)	MW-9	22	4350	895.8	191	4370	2750	6200	0
Boron (ug/L)	MW-1R	16	2934	715.8	178.9	2800	1980	4690	0
Boron (ug/L)	MW-10	13	289.5	58.82	16.31	282	210	397	0
Boron (ug/L)	MW-4	28	1052	231.6	43.78	1060	581	1500	0
Boron (ug/L)	NE-3	10	52.24	19.6	6.198	55.1	10	77	10
Cadmium (ug/L)	MW-2 (bg)	11	1	0	0	1	1	1	100
Cadmium (ug/L)	MW-3 (bg)	11	1	0	0	1	1	1	100
Cadmium (ug/L)	MW-7	11	1	0	0	1	1	1	100
Cadmium (ug/L)	MW-9	11	1	0	0	1	1	1	100
Cadmium (ug/L)	MW-1R	11	1	0	0	1	1	1	100
Cadmium (ug/L)	MW-10	10	1	0	0	1	1	1	100
Cadmium (ug/L)	MW-4	9	1	0	0	1	1	1	100
Cadmium (ug/L)	NE-3	10	1	0	0	1	1	1	90
Calcium (mg/L)	MW-2 (bg)	22	18.74	2.856	0.6089	19	12	24	0
Calcium (mg/L)	MW-3 (bg)	22	16.23	1.618	0.3449	17	13.4	19	0

Box & Whiskers Plot

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 3/11/2026, 10:32 AM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Min.	Max.	%NDs
Calcium (mg/L)	MW-7	22	121.1	13.29	2.832	120	98	142	0
Calcium (mg/L)	MW-9	19	80.75	13.77	3.158	80	57	103	0
Calcium (mg/L)	MW-1R	16	79.03	17.42	4.356	73	58	116	0
Calcium (mg/L)	MW-10	13	84.42	7.931	2.2	86.5	64.4	91.7	0
Calcium (mg/L)	MW-4	28	80.11	12.49	2.36	79	61	122	0
Calcium (mg/L)	NE-3	10	79.65	6.838	2.163	82.1	67.9	90.5	0
Chloride (mg/L)	MW-2 (bg)	22	4.355	1.517	0.3235	4.2	1.3	7.4	0
Chloride (mg/L)	MW-3 (bg)	22	1.545	0.8501	0.1812	1.3	1	4	31.82
Chloride (mg/L)	MW-7	22	6.555	3.583	0.7639	5.205	1.8	12	0
Chloride (mg/L)	MW-9	22	14.8	3.048	0.6498	14.7	11	21	0
Chloride (mg/L)	MW-1R	16	13.78	3.095	0.7738	13.5	9	19	0
Chloride (mg/L)	MW-10	13	16.07	4.775	1.324	18	8	21	0
Chloride (mg/L)	MW-4	26	15.59	5.676	1.113	14	8.8	33	0
Chloride (mg/L)	NE-3	10	3.465	0.9177	0.2902	3.65	1.5	4.49	0
Chromium (ug/L)	MW-2 (bg)	11	4	0	0	4	4	4	100
Chromium (ug/L)	MW-3 (bg)	11	4	0	0	4	4	4	100
Chromium (ug/L)	MW-7	11	4	0	0	4	4	4	100
Chromium (ug/L)	MW-9	11	4.373	1.236	0.3727	4	4	8.1	90.91
Chromium (ug/L)	MW-1R	11	4	0	0	4	4	4	100
Chromium (ug/L)	MW-10	10	4	0	0	4	4	4	100
Chromium (ug/L)	MW-4	9	4	0	0	4	4	4	100
Chromium (ug/L)	NE-3	10	4	0	0	4	4	4	90
Cobalt (ug/L)	MW-2 (bg)	14	2.457	1.599	0.4273	2	2	8	78.57
Cobalt (ug/L)	MW-3 (bg)	14	2	0	0	2	2	2	92.86
Cobalt (ug/L)	MW-7	14	2.414	0.6526	0.1744	2.1	2	4.1	14.29
Cobalt (ug/L)	MW-9	14	2.014	0.05345	0.01429	2	2	2.2	85.71
Cobalt (ug/L)	MW-1R	14	9.114	2.941	0.7861	8.5	5.4	15	0
Cobalt (ug/L)	MW-10	12	1.917	0.2887	0.08333	2	1	2	91.67
Cobalt (ug/L)	MW-4	9	2	0	0	2	2	2	100
Cobalt (ug/L)	NE-3	10	2	0	0	2	2	2	90
Fluoride (mg/L)	MW-2 (bg)	22	0.2421	0.06259	0.01334	0.25	0.06	0.336	68.18
Fluoride (mg/L)	MW-3 (bg)	22	0.2676	0.05563	0.01186	0.25	0.14	0.386	54.55
Fluoride (mg/L)	MW-7	22	0.6223	0.1018	0.02171	0.63	0.375	0.794	0
Fluoride (mg/L)	MW-9	22	0.8739	0.1793	0.03823	0.8725	0.55	1.33	0
Fluoride (mg/L)	MW-1R	16	0.2433	0.05693	0.01423	0.25	0.1	0.366	68.75
Fluoride (mg/L)	MW-10	13	0.2915	0.04432	0.01229	0.29	0.24	0.42	7.692
Fluoride (mg/L)	MW-4	28	0.2432	0.0379	0.007162	0.25	0.05	0.259	92.86
Fluoride (mg/L)	NE-3	10	0.118	0.05731	0.01812	0.105	0.04	0.25	10
Lead (ug/L)	MW-2 (bg)	11	1	0	0	1	1	1	100
Lead (ug/L)	MW-3 (bg)	11	1	0	0	1	1	1	100
Lead (ug/L)	MW-7	11	1	0	0	1	1	1	100
Lead (ug/L)	MW-9	11	1	0	0	1	1	1	100
Lead (ug/L)	MW-1R	11	1	0	0	1	1	1	100
Lead (ug/L)	MW-10	10	1	0	0	1	1	1	100
Lead (ug/L)	MW-4	9	1	0	0	1	1	1	100
Lead (ug/L)	NE-3	10	1	0	0	1	1	1	90
Lithium (ug/L)	MW-2 (bg)	14	11.43	3.631	0.9705	10	10	20	92.86
Lithium (ug/L)	MW-3 (bg)	14	11.43	3.631	0.9705	10	10	20	92.86
Lithium (ug/L)	MW-7	14	29.77	7.86	2.101	27	19	49.2	0
Lithium (ug/L)	MW-9	14	19.62	6.16	1.646	18.5	11	34.9	7.143

Box & Whiskers Plot

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 3/11/2026, 10:32 AM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Min.	Max.	%NDs
Lithium (ug/L)	MW-1R	14	13.26	4.128	1.103	11	10	20	28.57
Lithium (ug/L)	MW-10	12	24.13	12.74	3.678	25.5	10	40.6	25
Lithium (ug/L)	MW-4	9	10	0	0	10	10	10	100
Lithium (ug/L)	NE-3	10	11	3.162	1	10	10	20	90
Mercury (ug/L)	MW-2 (bg)	11	0.2	0	0	0.2	0.2	0.2	100
Mercury (ug/L)	MW-3 (bg)	11	0.2	0	0	0.2	0.2	0.2	100
Mercury (ug/L)	MW-7	11	0.2	0	0	0.2	0.2	0.2	100
Mercury (ug/L)	MW-9	11	0.2	0	0	0.2	0.2	0.2	100
Mercury (ug/L)	MW-1R	11	0.2	0	0	0.2	0.2	0.2	100
Mercury (ug/L)	MW-10	10	0.2	0	0	0.2	0.2	0.2	100
Mercury (ug/L)	MW-4	9	0.3222	0.3667	0.1222	0.2	0.2	1.3	88.89
Mercury (ug/L)	NE-3	10	0.2	9.4e-10	3.0e-10	0.2	0.2	0.2	90
Molybdenum (ug/L)	MW-2 (bg)	14	1.029	0.1069	0.02857	1	1	1.4	85.71
Molybdenum (ug/L)	MW-3 (bg)	14	1	0	0	1	1	1	92.86
Molybdenum (ug/L)	MW-7	14	140.4	23.62	6.314	150	100	170	0
Molybdenum (ug/L)	MW-9	14	383.2	243.5	65.09	420	89.8	840	0
Molybdenum (ug/L)	MW-1R	14	184.8	20.18	5.395	190	150	210	0
Molybdenum (ug/L)	MW-10	12	21.48	3.983	1.15	22.85	14.1	25.3	0
Molybdenum (ug/L)	MW-4	9	1.478	1.433	0.4778	1	1	5.3	88.89
Molybdenum (ug/L)	NE-3	10	1.39	0.3929	0.1242	1.3	1	2.2	30
pH (S.U.)	MW-2 (bg)	22	6.225	0.1081	0.02305	6.22	6.02	6.51	0
pH (S.U.)	MW-3 (bg)	14	6.587	0.1561	0.04171	6.586	6.32	6.93	0
pH (S.U.)	MW-7	22	7.296	0.0696	0.01484	7.29	7.16	7.4	0
pH (S.U.)	MW-9	22	7.295	0.1676	0.03572	7.34	6.86	7.52	0
pH (S.U.)	MW-1R	16	6.525	0.07933	0.01983	6.55	6.35	6.66	0
pH (S.U.)	MW-10	13	6.963	0.1179	0.03269	6.93	6.79	7.21	0
pH (S.U.)	MW-4	29	7.333	0.1212	0.02251	7.37	6.879	7.49	0
pH (S.U.)	NE-3	10	7.001	0.0851	0.02691	7.01	6.859	7.14	0
Radium (pCi/L)	MW-2 (bg)	13	1.182	0.5118	0.1419	1.18	0.483	2	15.38
Radium (pCi/L)	MW-3 (bg)	13	0.9377	0.5127	0.1422	0.86	0.214	2	15.38
Radium (pCi/L)	MW-7	13	1.119	0.5814	0.1612	0.973	0.062	2.31	15.38
Radium (pCi/L)	MW-9	13	0.9347	0.5282	0.1465	0.812	0.327	2	15.38
Radium (pCi/L)	MW-1R	13	0.7632	0.4878	0.1353	0.556	0.184	2	15.38
Radium (pCi/L)	MW-10	11	1.056	0.5396	0.1627	1.03	0.05	2	90.91
Radium (pCi/L)	MW-4	9	1.893	0.3213	0.1071	2	1.036	2	88.89
Radium (pCi/L)	NE-3	8	1.75	0.7071	0.25	2	0	2	100
Selenium (ug/L)	MW-2 (bg)	12	1.033	0.1155	0.03333	1	1	1.4	83.33
Selenium (ug/L)	MW-3 (bg)	14	1	0	0	1	1	1	92.86
Selenium (ug/L)	MW-7	14	16.41	19.51	5.214	5.05	2.1	54	0
Selenium (ug/L)	MW-9	14	1	0	0	1	1	1	92.86
Selenium (ug/L)	MW-1R	14	1	0	0	1	1	1	92.86
Selenium (ug/L)	MW-10	12	1	0	0	1	1	1	91.67
Selenium (ug/L)	MW-4	9	1	0	0	1	1	1	100
Selenium (ug/L)	NE-3	10	1.03	0.09487	0.03	1	1	1.3	80
Sulfate (mg/L)	MW-2 (bg)	22	16.45	2.725	0.581	16.5	8.7	21	0
Sulfate (mg/L)	MW-3 (bg)	22	14.87	3.675	0.7835	15.5	10	20	9.091
Sulfate (mg/L)	MW-7	22	192.4	77.5	16.52	185	84.3	444	0
Sulfate (mg/L)	MW-9	22	200.5	38.26	8.156	211.5	120	250	0
Sulfate (mg/L)	MW-1R	16	169.9	48.13	12.03	155.5	110	289	0
Sulfate (mg/L)	MW-10	13	147	31.16	8.642	161	86.3	187	0

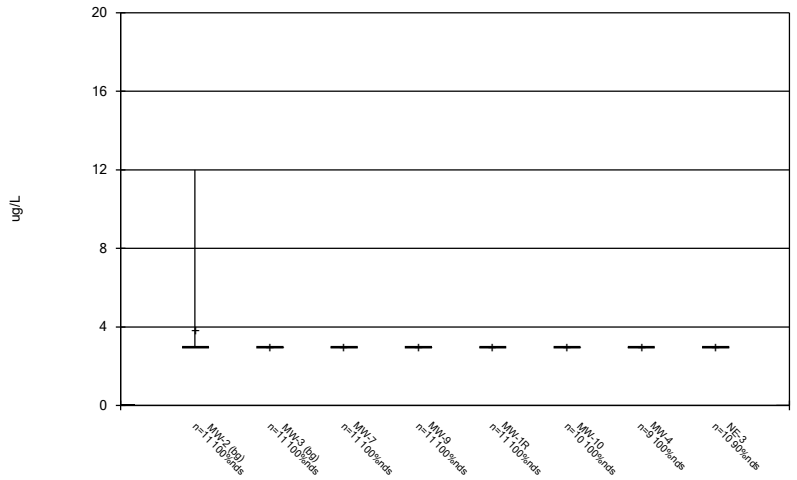
Box & Whiskers Plot

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 3/11/2026, 10:32 AM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Min.	Max.	%NDs
Sulfate (mg/L)	MW-4	28	102.4	29.98	5.666	95.5	54	189	0
Sulfate (mg/L)	NE-3	10	48.37	7.845	2.481	47.9	33	59.3	0
Thallium (ug/L)	MW-2 (bg)	11	1	0	0	1	1	1	100
Thallium (ug/L)	MW-3 (bg)	11	1	0	0	1	1	1	100
Thallium (ug/L)	MW-7	11	1	0	0	1	1	1	100
Thallium (ug/L)	MW-9	11	1	0	0	1	1	1	100
Thallium (ug/L)	MW-1R	11	1	0	0	1	1	1	100
Thallium (ug/L)	MW-10	10	1	0	0	1	1	1	100
Thallium (ug/L)	MW-4	9	1	0	0	1	1	1	100
Thallium (ug/L)	NE-3	10	1	0	0	1	1	1	80
Total Dissolved Solids (mg/L)	MW-2 (bg)	21	130.7	56.68	12.37	110	63	350	0
Total Dissolved Solids (mg/L)	MW-3 (bg)	22	120.7	22.24	4.742	120	90	160	0
Total Dissolved Solids (mg/L)	MW-7	22	501.2	80.62	17.19	490	390	758	0
Total Dissolved Solids (mg/L)	MW-9	22	491.9	69.03	14.72	509	330	630	0
Total Dissolved Solids (mg/L)	MW-1R	16	390	82.52	20.63	385	290	576	0
Total Dissolved Solids (mg/L)	MW-10	13	417.8	42.32	11.74	412	338	490	0
Total Dissolved Solids (mg/L)	MW-4	28	349	68.4	12.93	337.5	260	560	0
Total Dissolved Solids (mg/L)	NE-3	10	342.3	40.5	12.81	348	258	404	0

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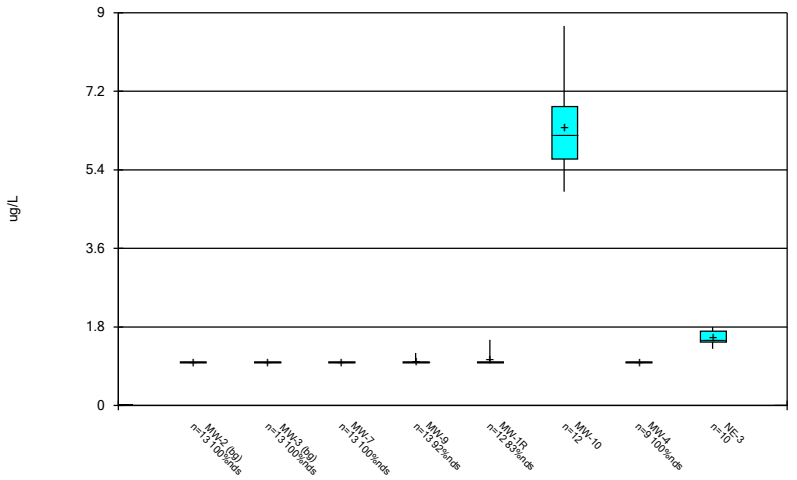
Antimony



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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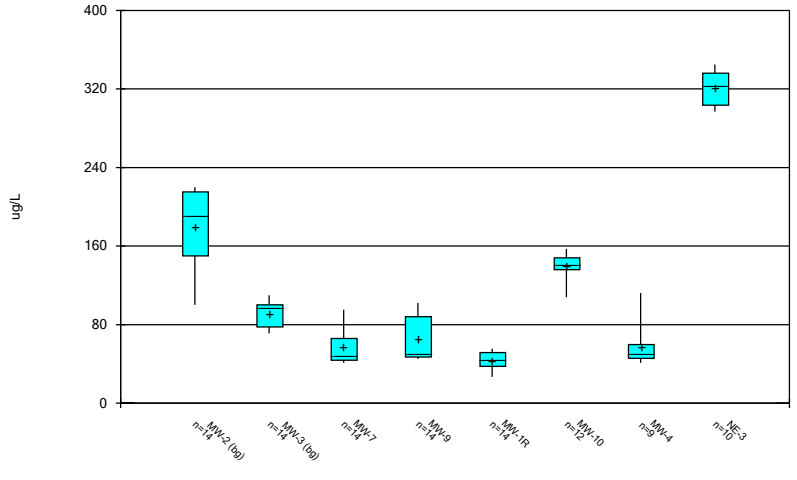
Arsenic



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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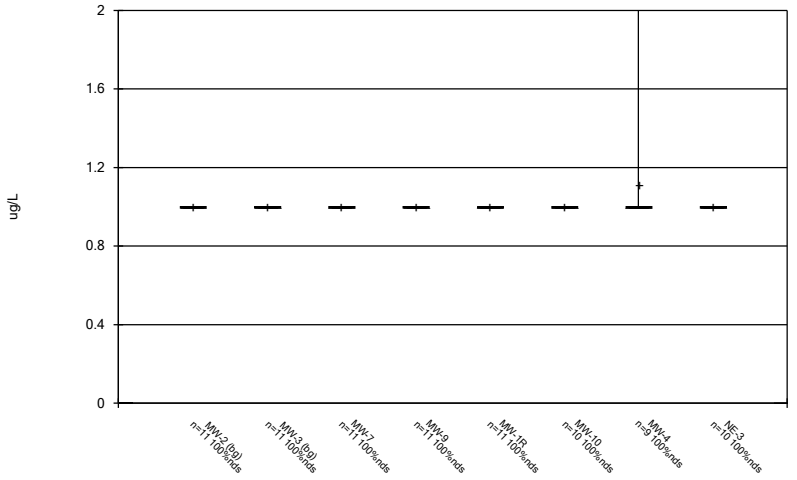
Barium



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
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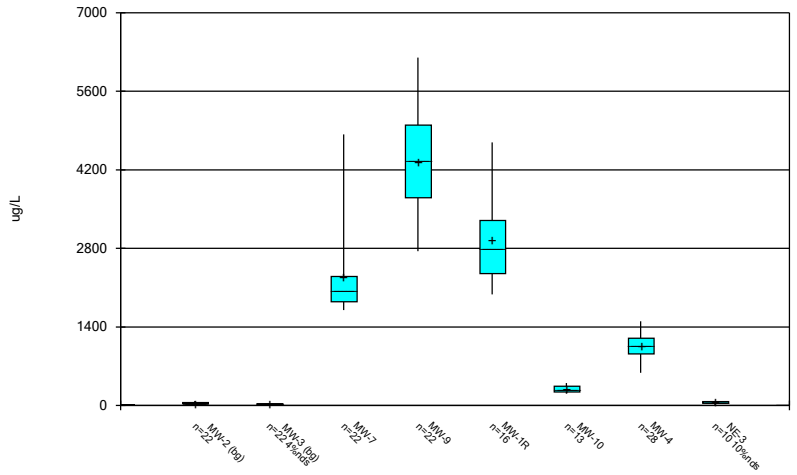
Beryllium



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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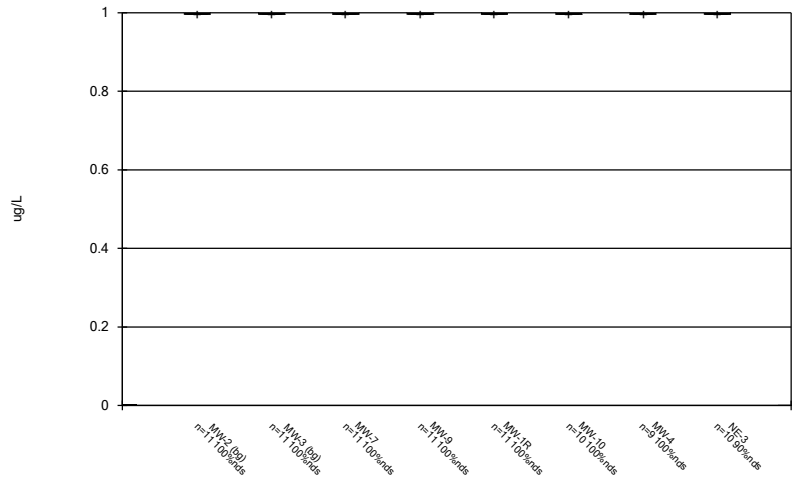
Boron



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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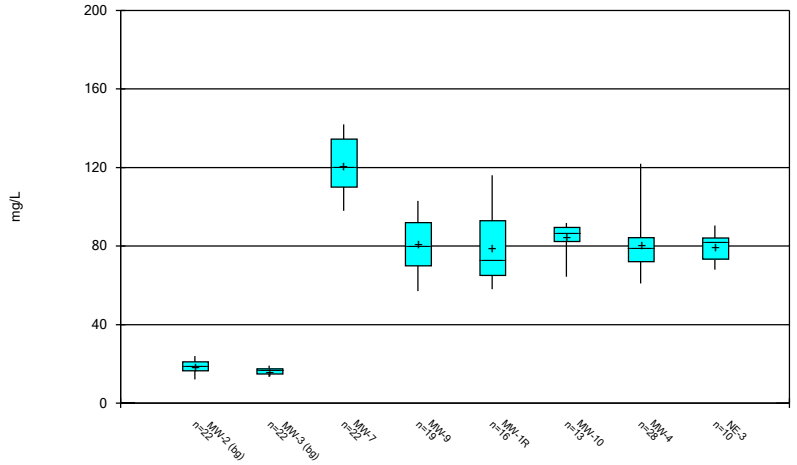
Cadmium



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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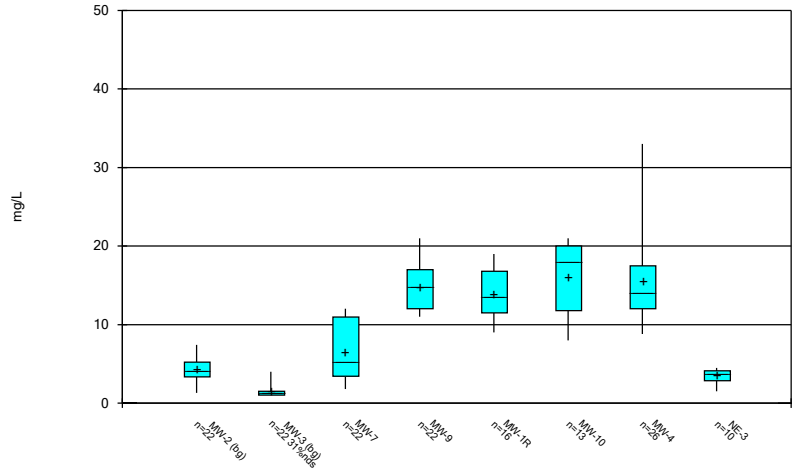
Calcium



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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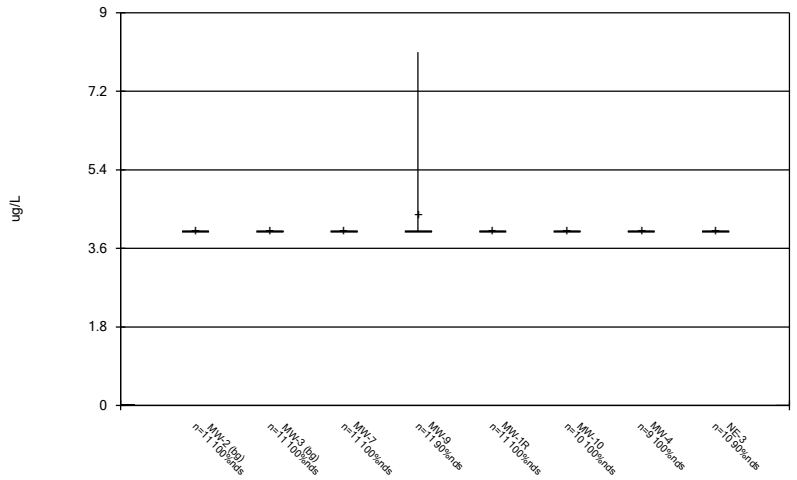
Chloride



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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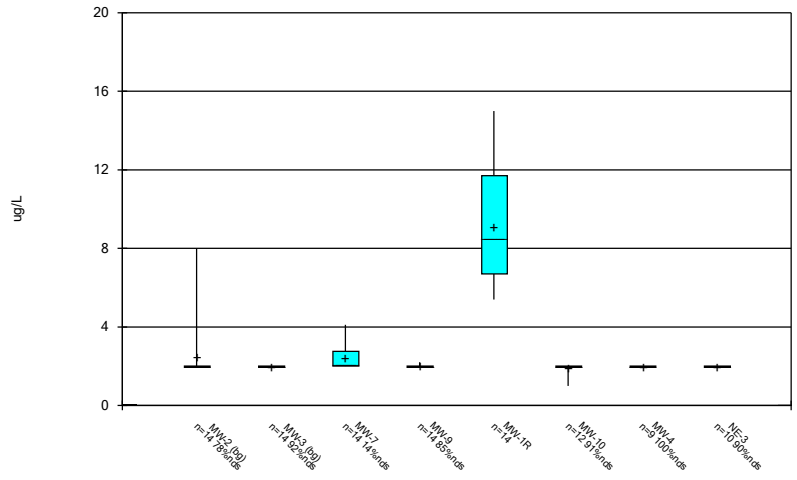
Chromium



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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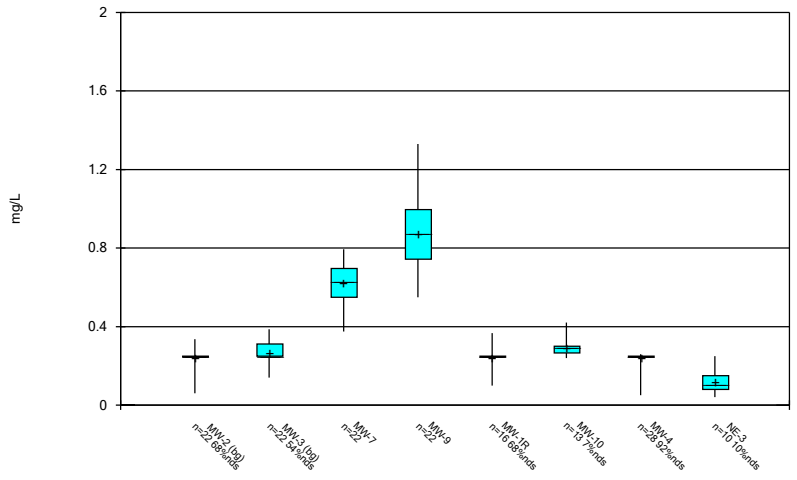
Cobalt



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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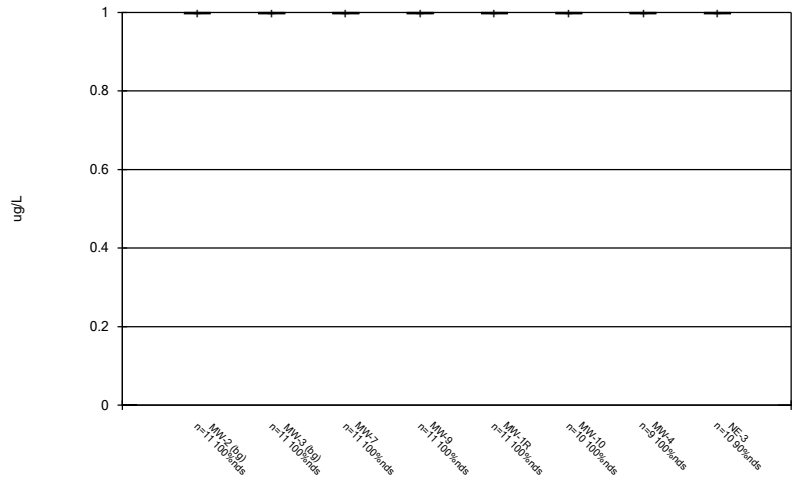
Fluoride



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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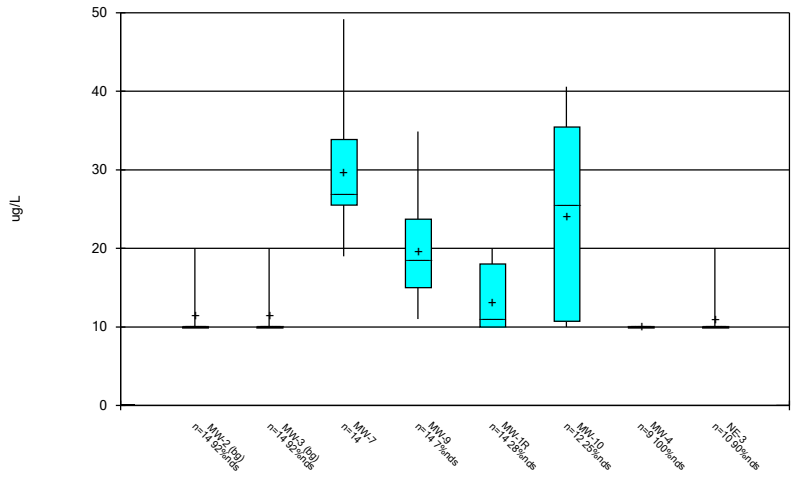
Lead



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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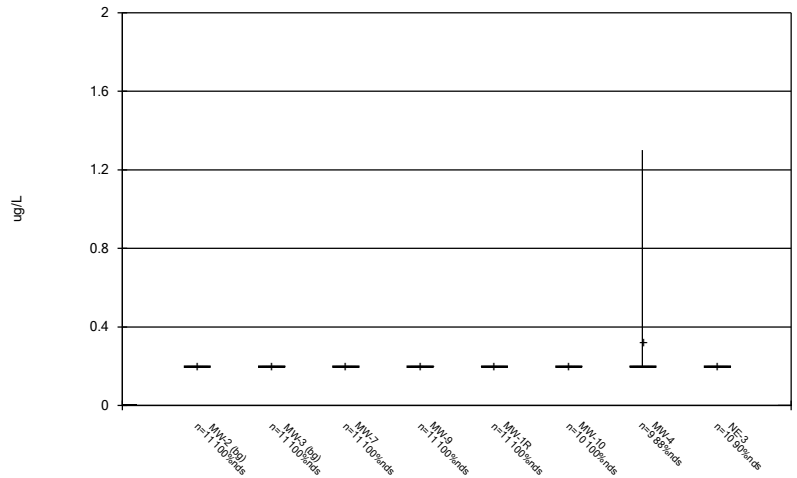
Lithium



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
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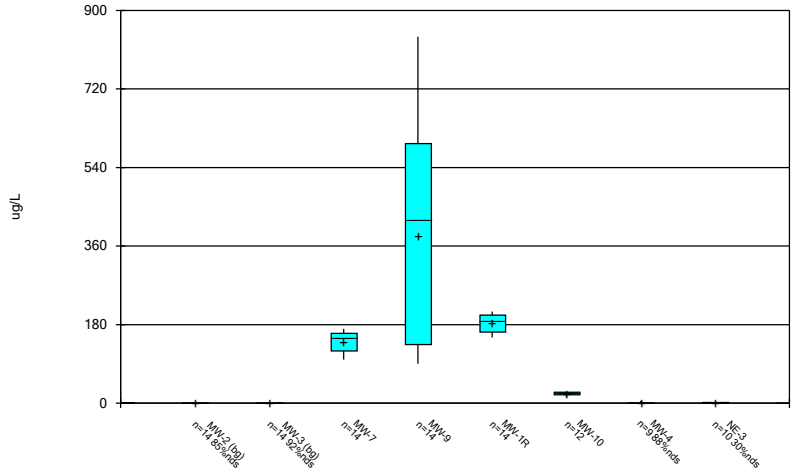
Mercury



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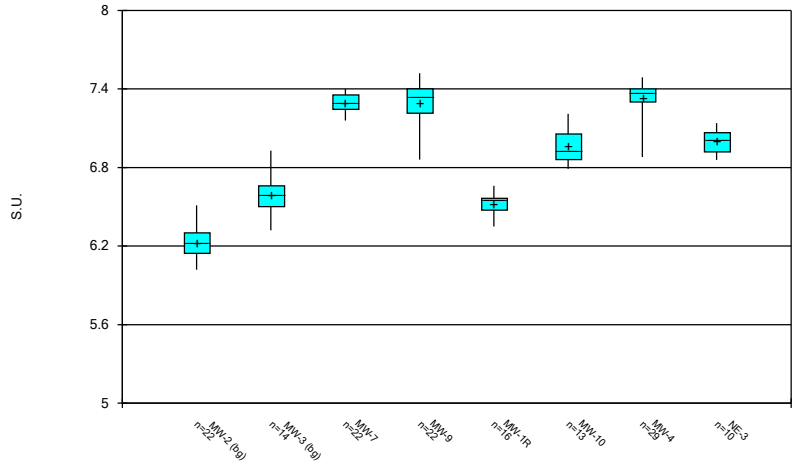
Molybdenum



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
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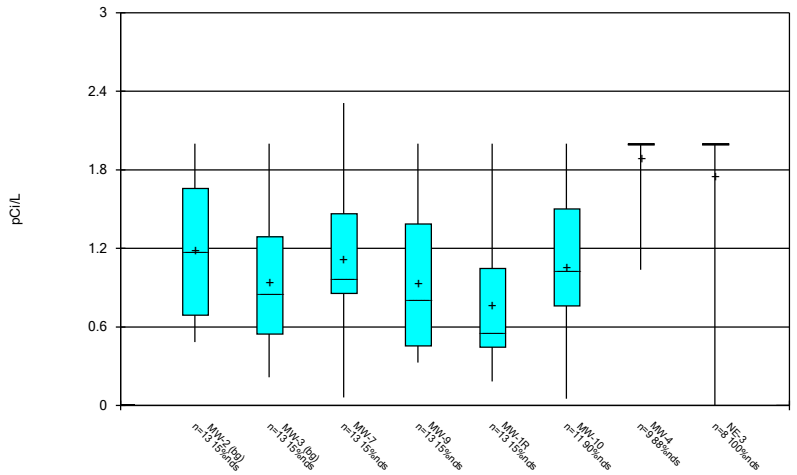
pH



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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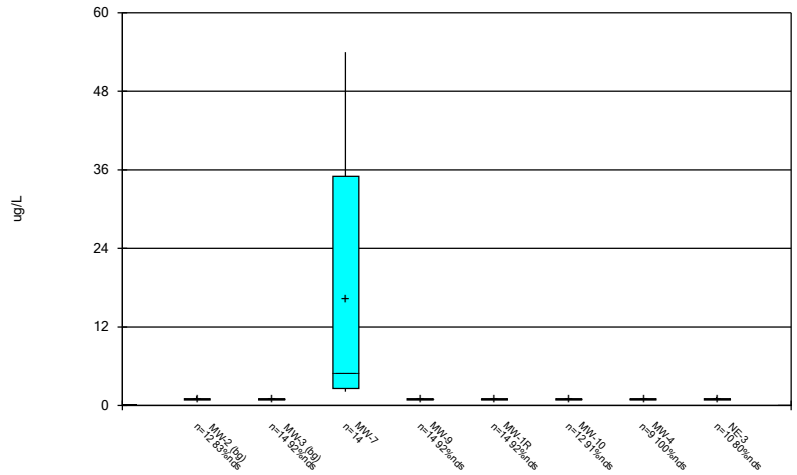
Radium



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
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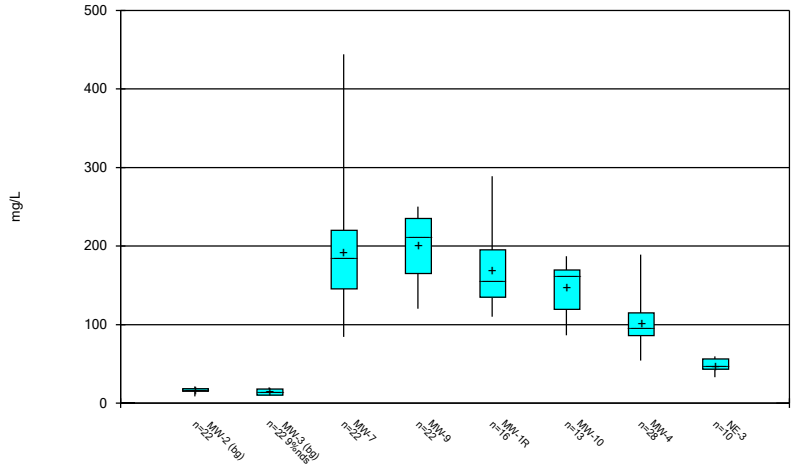
Selenium



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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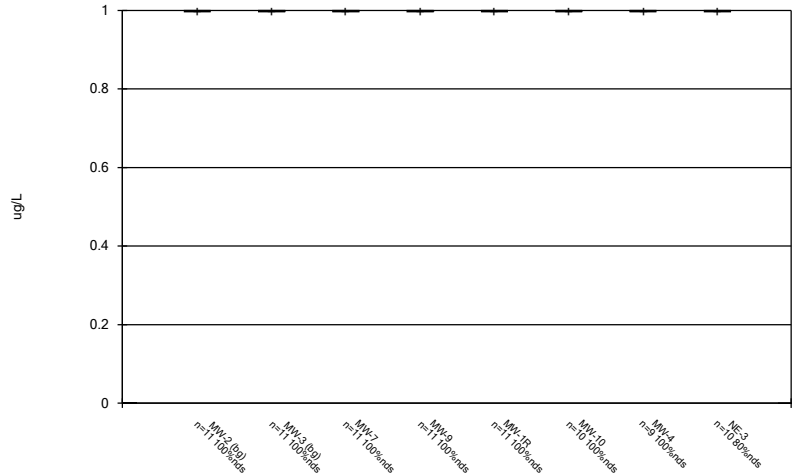
Sulfate



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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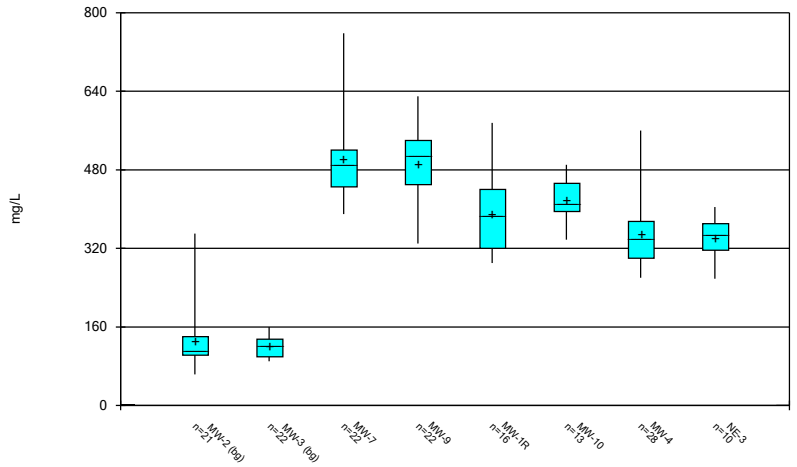
Thallium



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids



Box & Whiskers Plot Analysis Run 3/11/2026 10:31 AM View: CA Detection

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Appendix 8

Prediction Limit Charts –
Detection Constituents

Appendix 8

Prediction Limit Charts –
Detection Constituents
7.17.2025

Prediction Limit

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 1/12/2026, 10:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (ug/L)	**MW-3**	**36.05**	**n/a**	**7/17/2025**	**39.8**	**Yes**	**21**	**4.762**	**No**	**0.001254**	**Param Intra 1 of 2**
Boron (ug/L)	**MW-7**	**3730**	**n/a**	**7/17/2025**	**4830**	**Yes**	**21**	**0**	**n/a**	**0.003999**	**NP Intra (normality) ...**
pH (S.U.)	**MW-2**	**6.445**	**6.025**	**7/17/2025**	**6.02**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	**MW-7**	**7.437**	**7.168**	**7/17/2025**	**7.16**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	**MW-9**	**7.609**	**7.023**	**7/17/2025**	**6.86**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	**MW-1R**	**6.686**	**6.387**	**7/17/2025**	**6.35**	**Yes**	**15**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
Sulfate (mg/L)	**MW-7**	**295**	**n/a**	**7/17/2025**	**444**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**
Total Dissolved Solids (mg/L)	**MW-7**	**610.5**	**n/a**	**7/17/2025**	**758**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**

Prediction Limit

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 1/12/2026, 10:05 AM

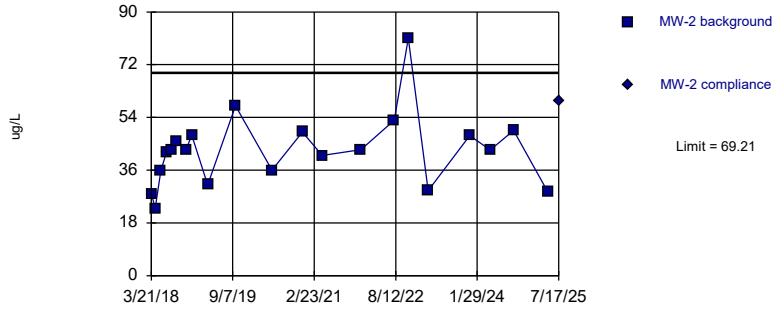
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (ug/L)	MW-2	69.21	n/a	7/17/2025	59.8	No	21	0	No	0.001254	Param Intra 1 of 2
Boron (ug/L)	**MW-3**	**36.05**	**n/a**	**7/17/2025**	**39.8**	**Yes**	**21**	**4.762**	**No**	**0.001254**	**Param Intra 1 of 2**
Boron (ug/L)	**MW-7**	**3730**	**n/a**	**7/17/2025**	**4830**	**Yes**	**21**	**0**	**n/a**	**0.003999**	**NP Intra (normality) ...**
Boron (ug/L)	MW-9	6272	n/a	7/17/2025	4340	No	21	0	No	0.001254	Param Intra 1 of 2
Boron (ug/L)	MW-1R	4611	n/a	7/17/2025	2710	No	15	0	No	0.001254	Param Intra 1 of 2
Boron (ug/L)	MW-10	434.6	n/a	7/17/2025	303	No	12	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-2	24.89	n/a	7/17/2025	18.2	No	21	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-3	19.56	n/a	7/17/2025	13.4	No	21	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-7	146.8	n/a	7/17/2025	142	No	21	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-9	111.3	n/a	7/17/2025	68.8	No	18	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-1R	119.7	n/a	7/17/2025	66	No	15	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-10	96.22	n/a	7/17/2025	71.8	No	12	0	x^5	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-2	7.584	n/a	7/17/2025	4.77	No	21	0	No	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-3	4	n/a	7/17/2025	4ND	No	21	28.57	n/a	0.003999	NP Intra (normality) ...
Chloride (mg/L)	MW-7	15.08	n/a	7/17/2025	11	No	21	0	sqrt(x)	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-9	21.36	n/a	7/17/2025	13	No	21	0	No	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-1R	20.91	n/a	7/17/2025	10.5	No	15	0	No	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-10	24.81	n/a	7/17/2025	9.85	No	12	0	x^2	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	MW-2	0.336	n/a	7/17/2025	0.07J	No	21	71.43	n/a	0.003999	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-3	0.386	n/a	7/17/2025	0.18J	No	21	57.14	n/a	0.003999	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-7	0.8404	n/a	7/17/2025	0.63	No	21	0	No	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	MW-9	1.253	n/a	7/17/2025	0.64	No	21	0	No	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	MW-1R	0.366	n/a	7/17/2025	0.14J	No	15	73.33	n/a	0.007533	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-10	0.42	n/a	7/17/2025	0.28	No	12	8.333	n/a	0.01077	NP Intra (normality) ...
pH (S.U.)	**MW-2**	**6.445**	**6.025**	**7/17/2025**	**6.02**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	MW-3	6.962	6.26	12/9/2025	6.572	No	12	0	No	0.000...	Param Intra 1 of 2
pH (S.U.)	**MW-7**	**7.437**	**7.168**	**7/17/2025**	**7.16**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	**MW-9**	**7.609**	**7.023**	**7/17/2025**	**6.86**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	**MW-1R**	**6.686**	**6.387**	**7/17/2025**	**6.35**	**Yes**	**15**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	MW-10	7.258	6.673	7/17/2025	6.93	No	12	0	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	MW-2	22.25	n/a	7/17/2025	13.3	No	21	0	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	MW-3	22.63	n/a	7/17/2025	10ND	No	21	4.762	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	**MW-7**	**295**	**n/a**	**7/17/2025**	**444**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**
Sulfate (mg/L)	MW-9	282.1	n/a	7/17/2025	208	No	21	0	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	MW-1R	282.5	n/a	7/17/2025	161	No	15	0	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	MW-10	224.1	n/a	7/17/2025	119	No	12	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-2	252.9	n/a	7/17/2025	104	No	20	0	ln(x)	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-3	168.2	n/a	7/17/2025	98	No	21	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	**MW-7**	**610.5**	**n/a**	**7/17/2025**	**758**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**
Total Dissolved Solids (mg/L)	MW-9	639.2	n/a	7/17/2025	506	No	21	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-1R	582.8	n/a	7/17/2025	380	No	15	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-10	523.7	n/a	7/17/2025	412	No	12	0	No	0.001254	Param Intra 1 of 2

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=42.8, Std. Dev.=12.61, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9064, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

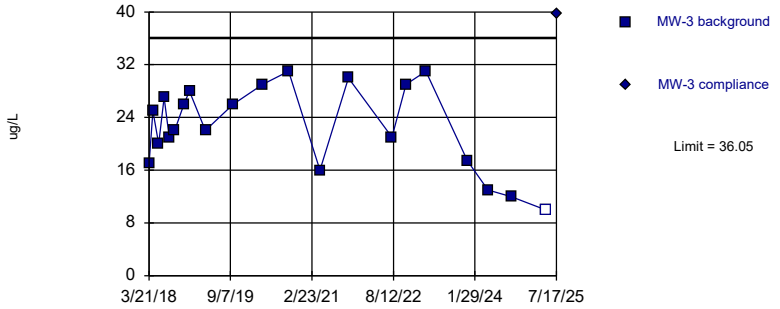
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Hollow symbols indicate censored values.

Exceeds Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=22.54, Std. Dev.=6.454, n=21, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9423, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

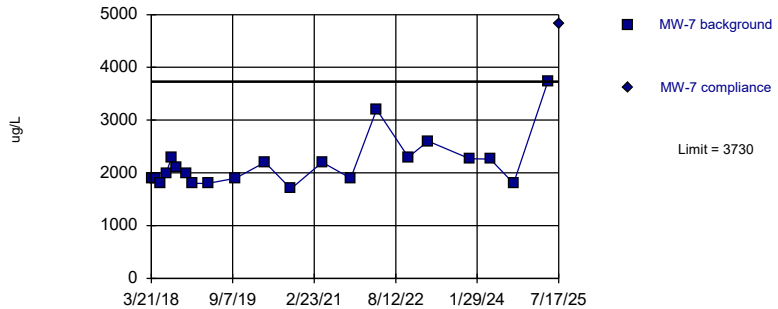
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Exceeds Limit

Boron

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

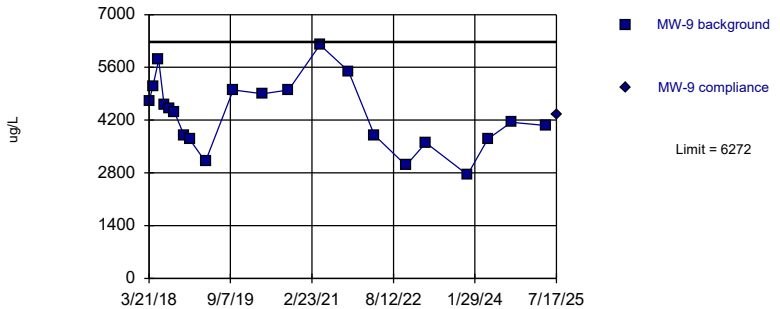
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=4350, Std. Dev.=918, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9821, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

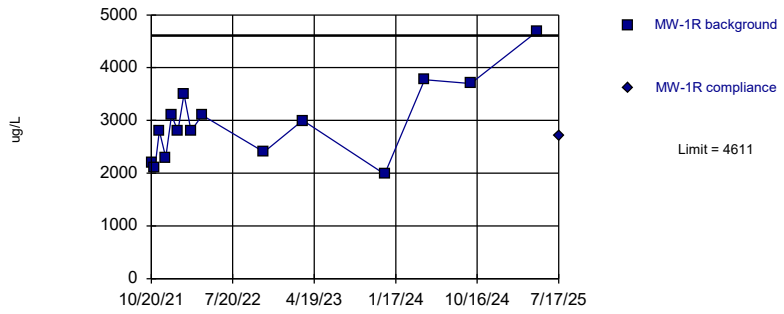
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=2949, Std. Dev.=738.3, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9392, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

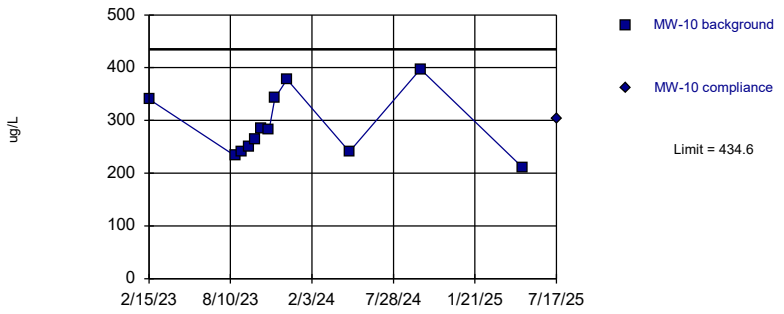
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=288.4, Std. Dev.=61.29, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9106, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

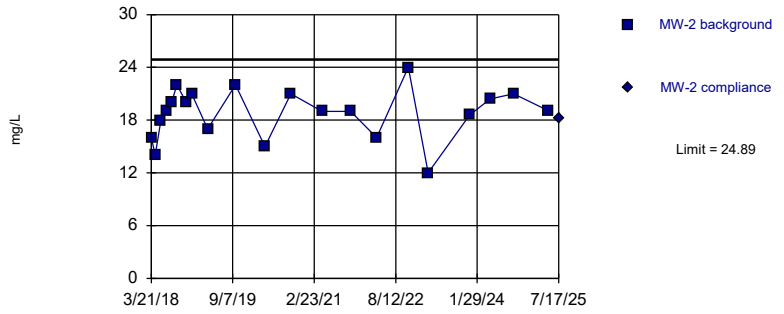
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=18.77, Std. Dev.=2.924, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

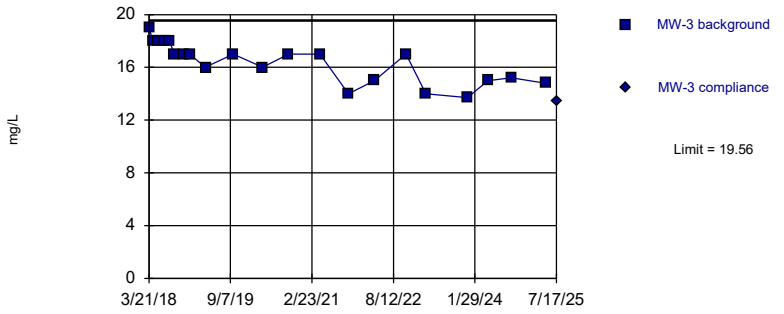
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=16.37, Std. Dev.=1.526, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9287, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

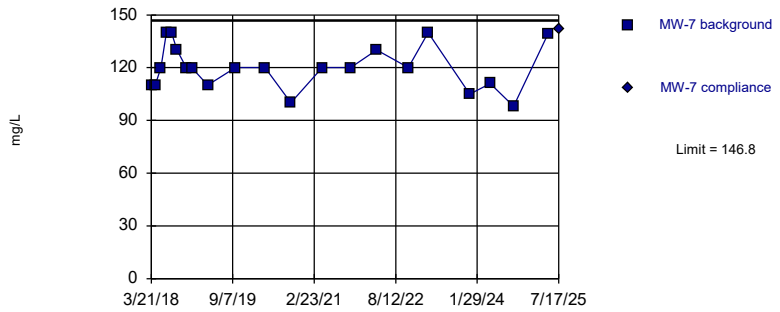
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=120.1, Std. Dev.=12.75, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9192, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

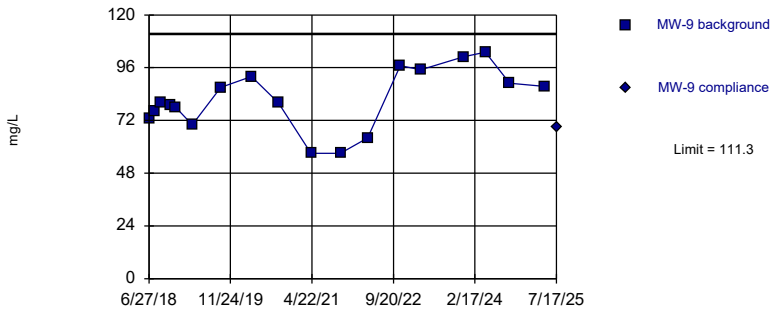
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=81.41, Std. Dev.=13.85, n=18. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9629, critical = 0.897. Kappa = 2.157 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

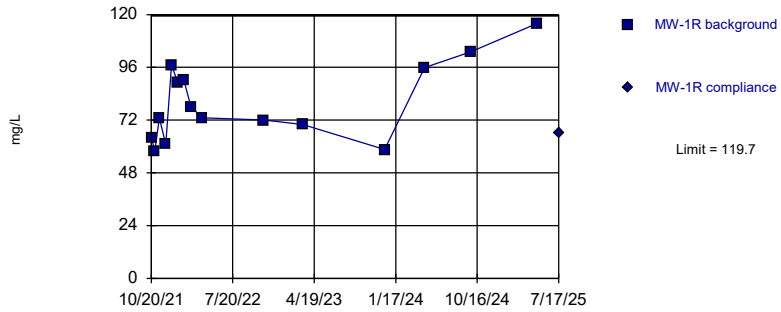
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=79.9, Std. Dev.=17.67, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.935, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

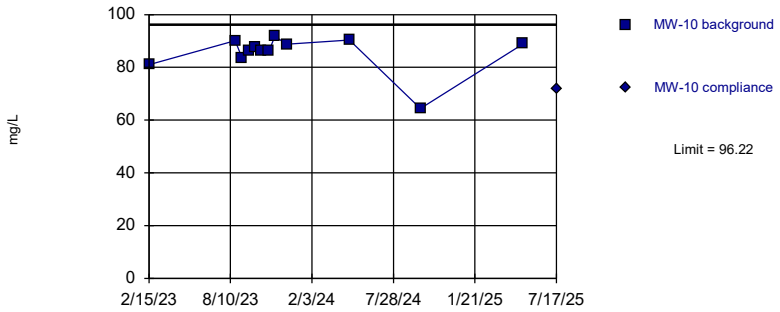
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=4.8e9, Std. Dev.=1.4e9, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8609, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

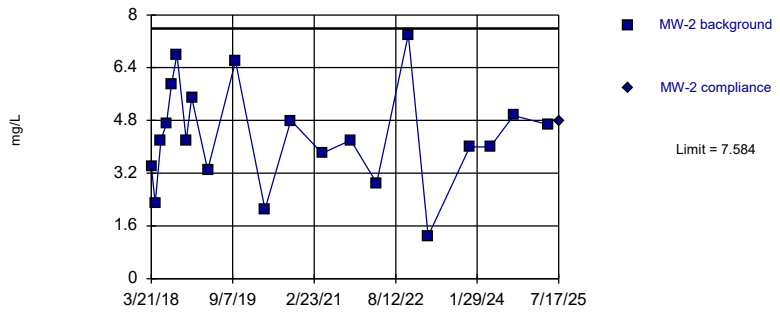
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary: Mean=4.335, Std. Dev.=1.552, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9808, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

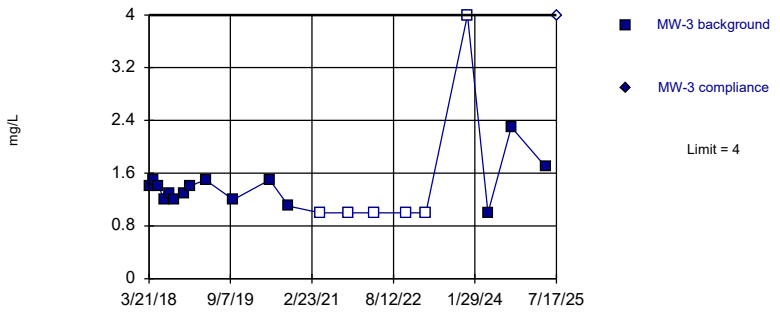
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Hollow symbols indicate censored values.

Within Limit

Chloride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 28.57% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

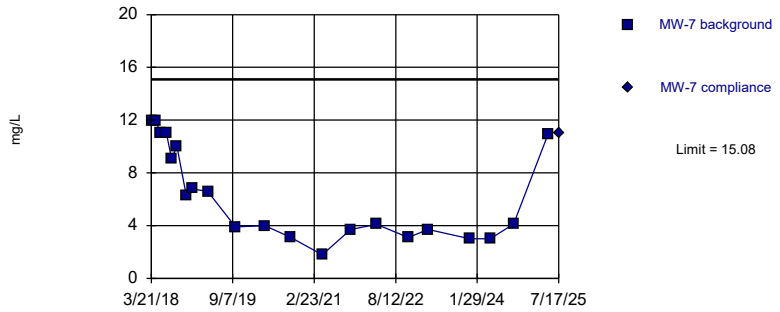
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Within Limit

Chloride

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=2.425, Std. Dev.=0.6962, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8852, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

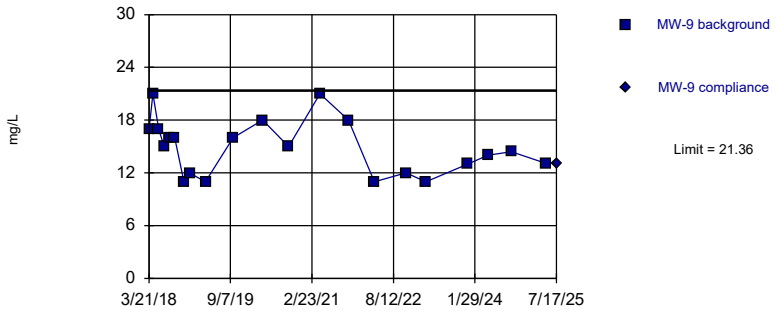
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary: Mean=14.88, Std. Dev.=3.096, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9321, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

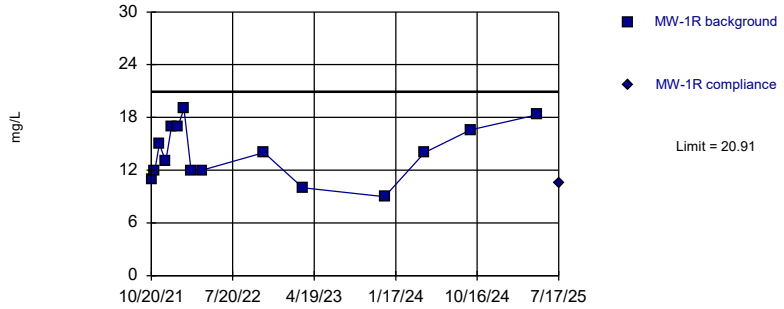
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary: Mean=13.99, Std. Dev.=3.073, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9586, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

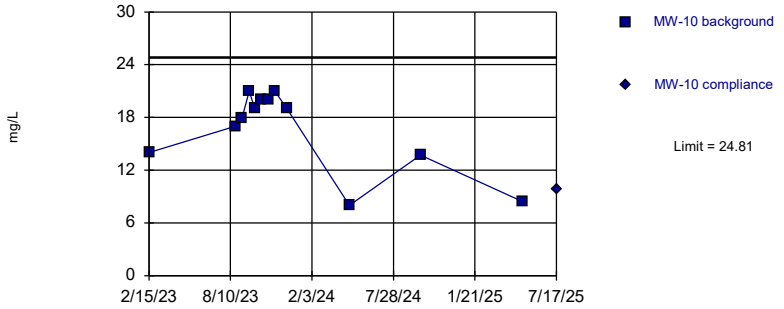
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=294.6, Std. Dev.=134.6, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8831, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

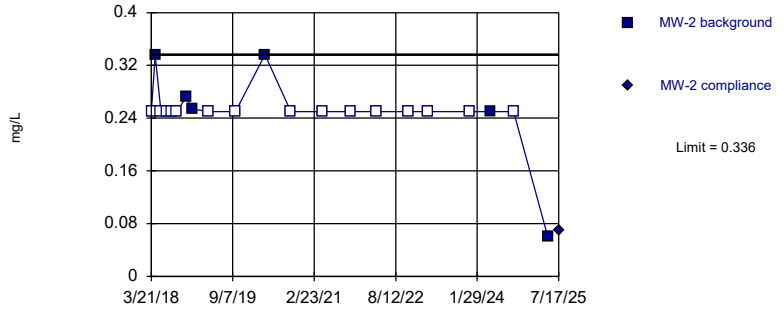
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

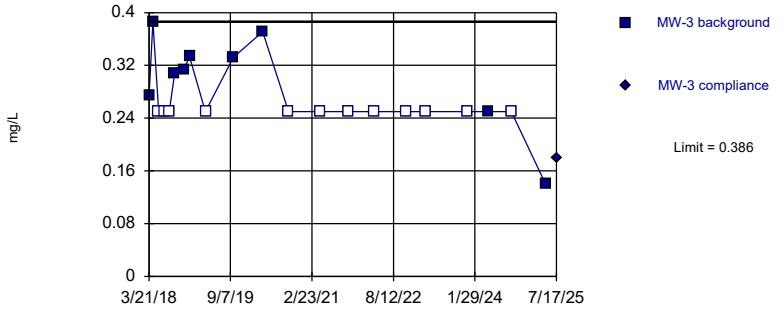
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

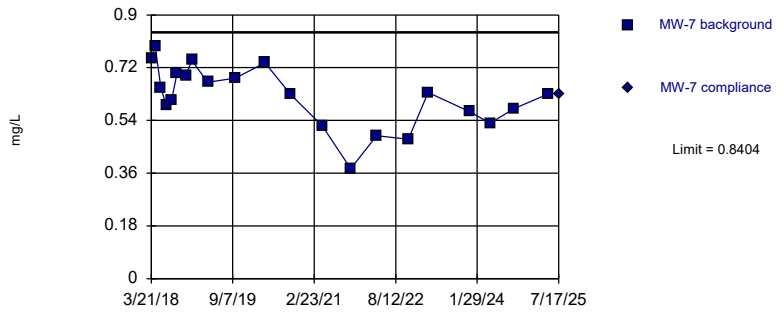
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Fluoride

Intrawell Parametric



Background Data Summary: Mean=0.6219, Std. Dev.=0.1043, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9773, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

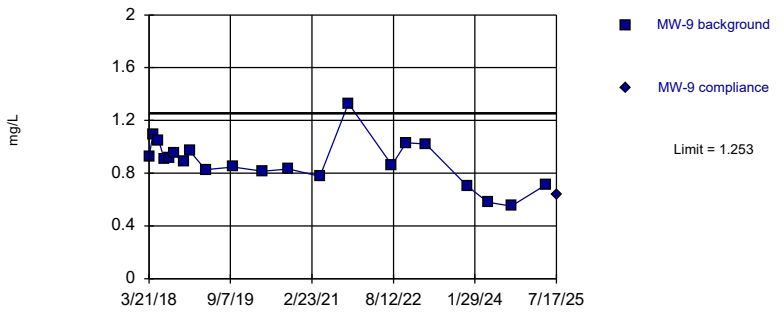
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Fluoride

Intrawell Parametric



Background Data Summary: Mean=0.885, Std. Dev.=0.1758, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9692, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

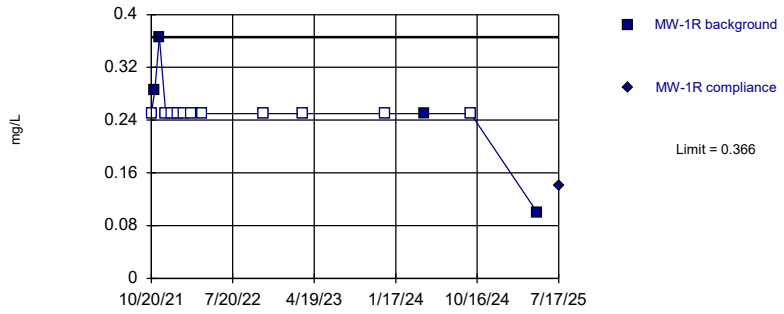
Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

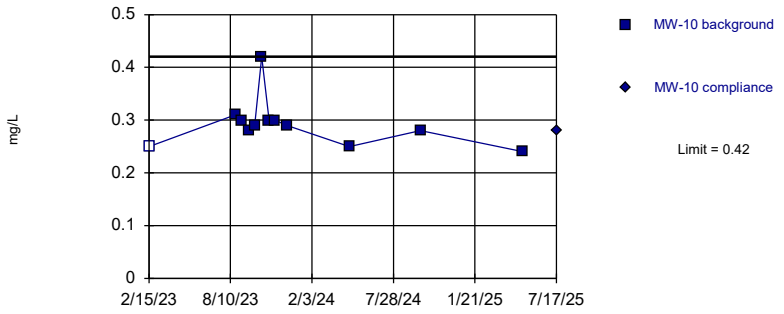
Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 12 background values. 8.333% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

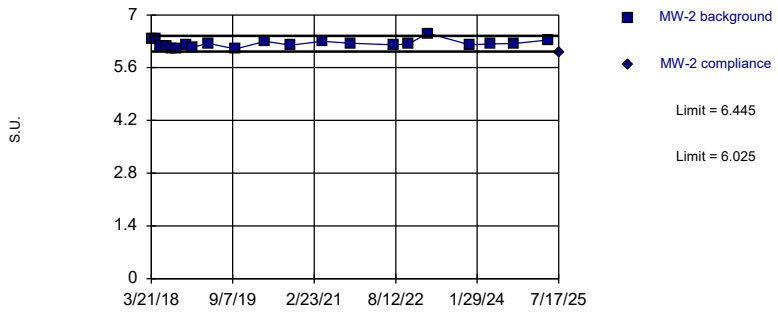
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Exceeds Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.235, Std. Dev.=0.1004, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9426, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

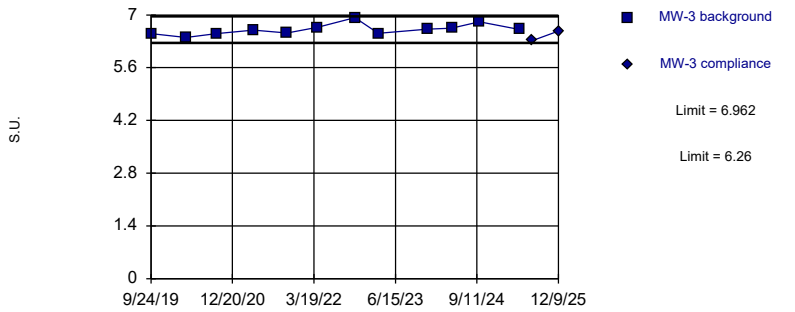
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.611, Std. Dev.=0.1472, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9199, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

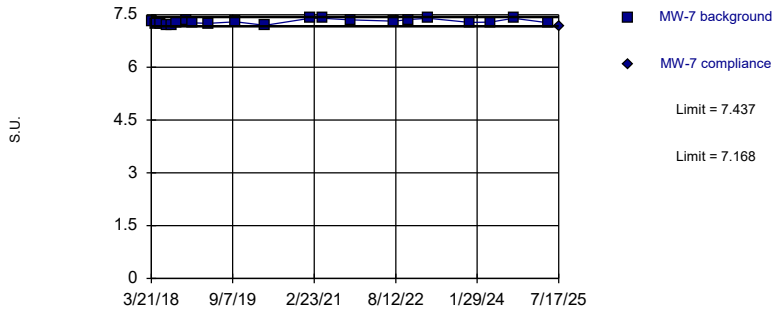
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Exceeds Limits

pH

Intrawell Parametric



Background Data Summary: Mean=7.302, Std. Dev.=0.06418, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9304, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

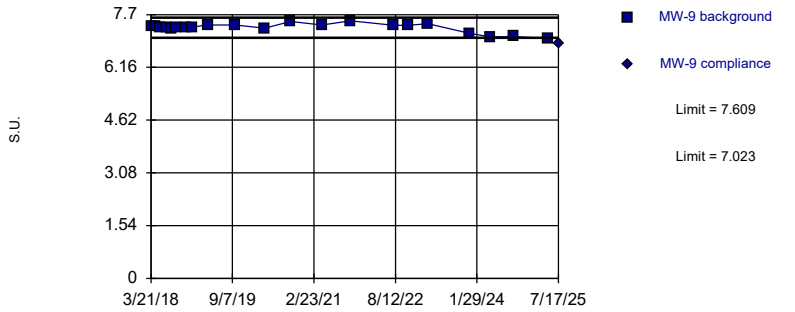
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Exceeds Limits

pH

Intrawell Parametric



Background Data Summary: Mean=7.316, Std. Dev.=0.1399, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8736, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

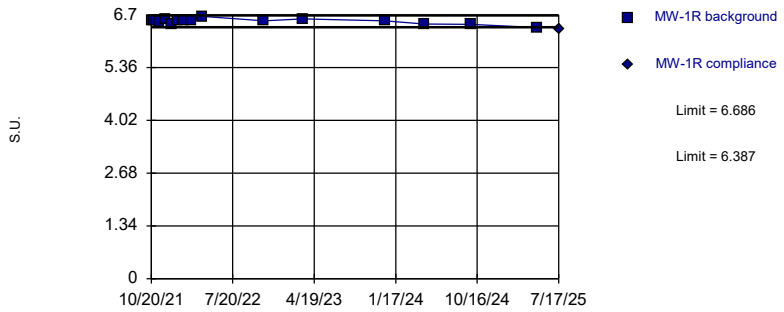
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Exceeds Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.537, Std. Dev.=0.0664, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.914, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

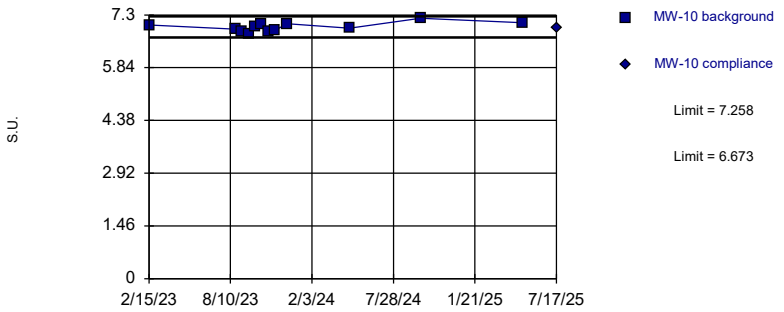
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.966, Std. Dev.=0.1227, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9632, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

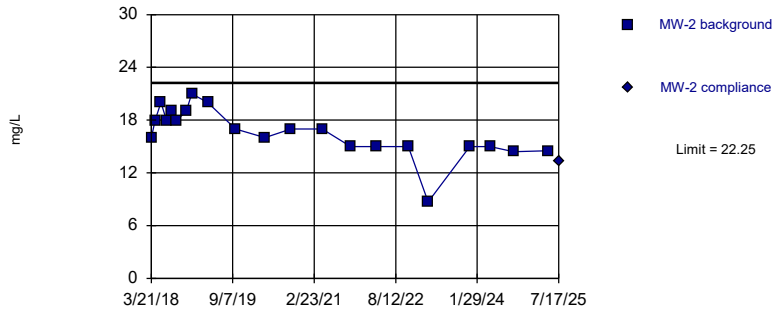
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=16.6, Std. Dev.=2.698, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9122, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

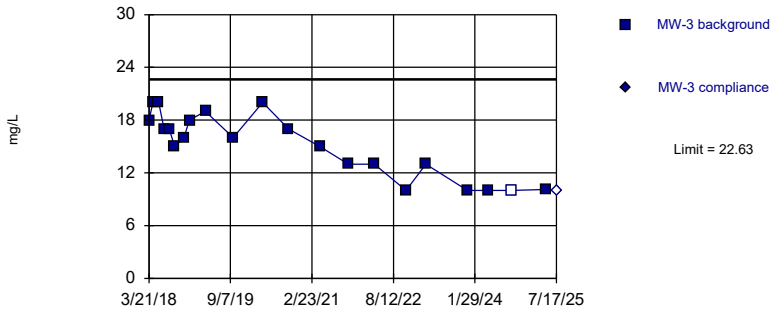
Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Hollow symbols indicate censored values.

Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=15.1, Std. Dev.=3.597, n=21, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9015, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

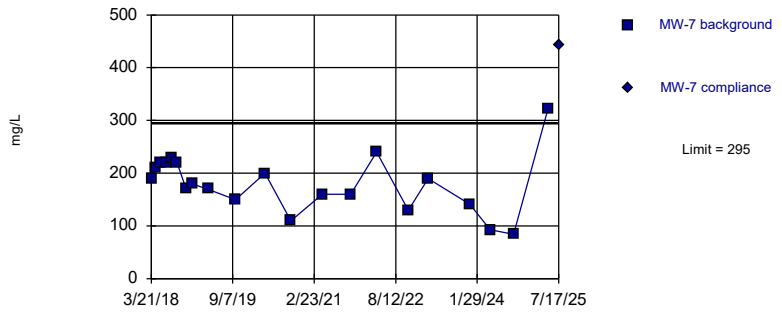
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Exceeds Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=180.4, Std. Dev.=54.69, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9668, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

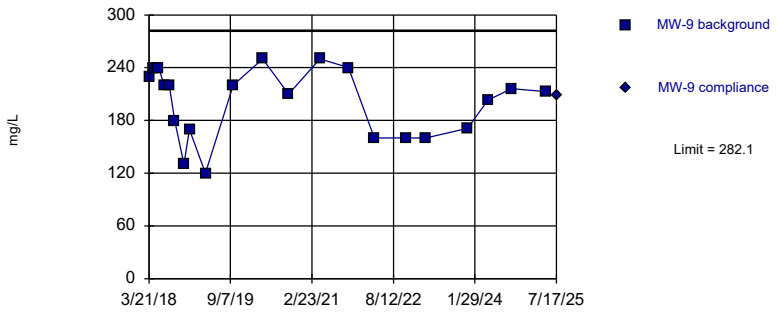
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=200.1, Std. Dev.=39.16, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9208, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

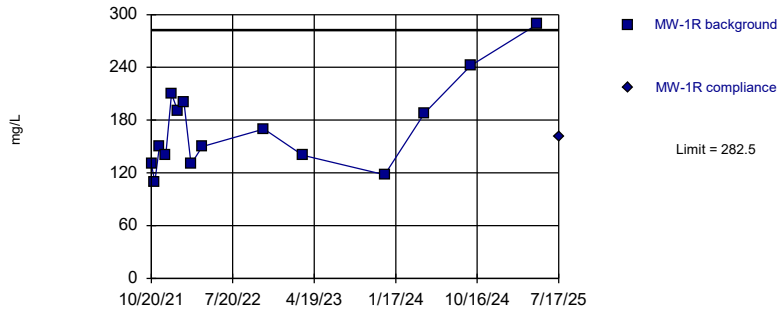
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=170.5, Std. Dev.=49.76, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9153, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

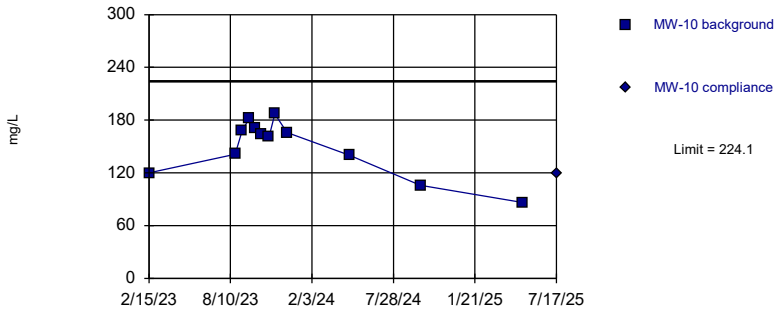
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=149.4, Std. Dev.=31.34, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9113, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

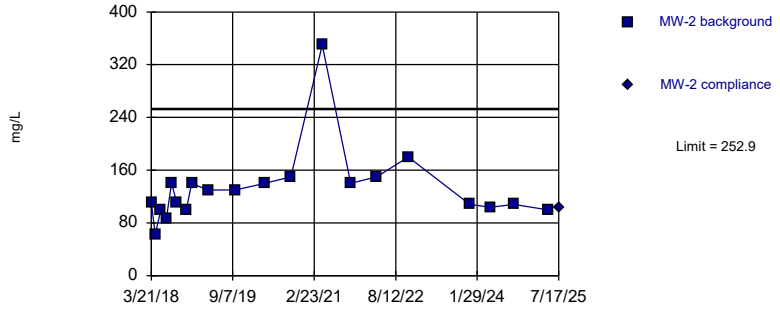
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.82, Std. Dev.=0.3381, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8822, critical = 0.868. Kappa = 2.108 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

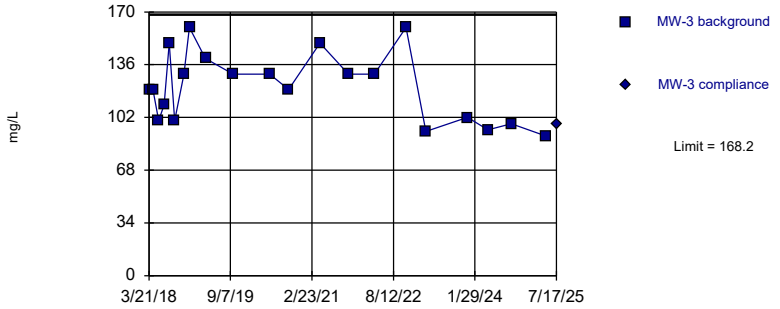
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=121.8, Std. Dev.=22.19, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9338, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

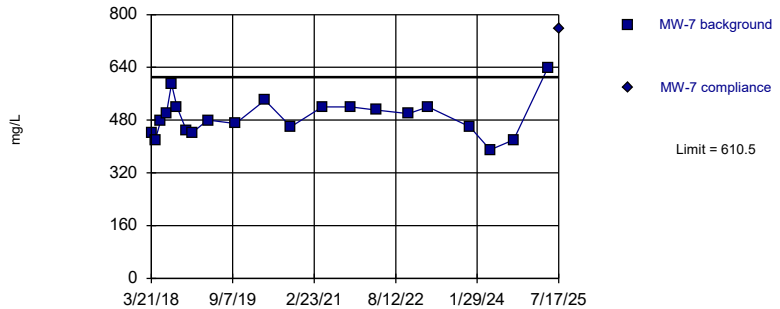
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Exceeds Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=489, Std. Dev.=58.04, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9541, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

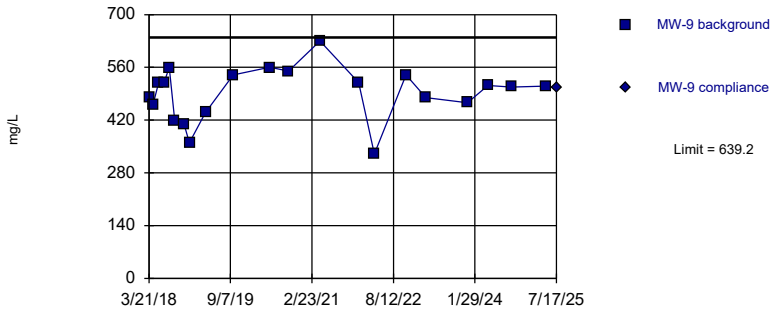
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=491.2, Std. Dev.=70.66, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9568, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

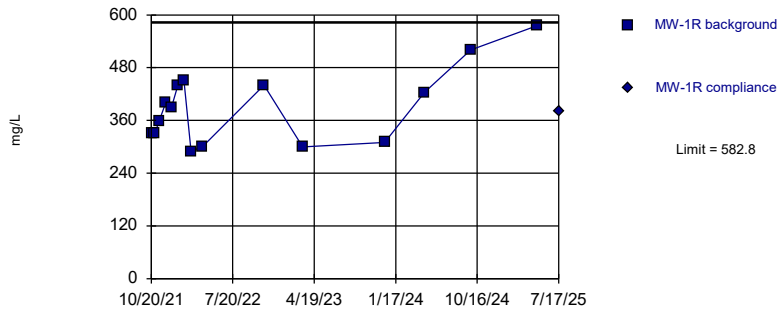
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=390.7, Std. Dev.=85.38, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9221, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

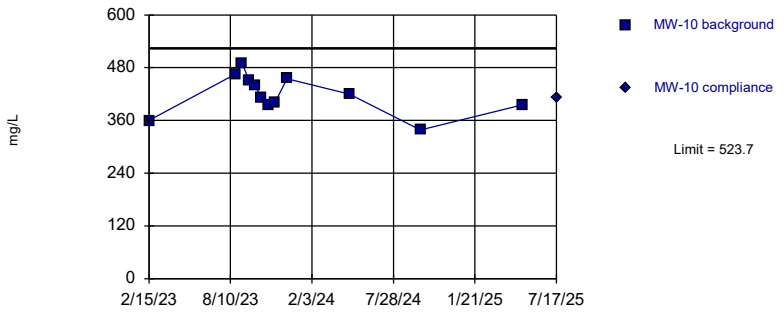
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=418.3, Std. Dev.=44.17, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9791, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Appendix 8

Prediction Limit Charts –
Detection Constituents
3.21.2026

Prediction Limit

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:36 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (ug/L)	**MW-7**	**3730**	**n/a**	**3/21/2026**	**4380**	**Yes**	**21**	**0**	**n/a**	**0.003999**	**NP Intra (normality) ...**
Chloride (mg/L)	**MW-7**	**15.08**	**n/a**	**3/21/2026**	**19**	**Yes**	**21**	**0**	**sqrt(x)**	**0.001254**	**Param Intra 1 of 2**
pH (S.U.)	**MW-9**	**7.609**	**7.023**	**3/21/2026**	**6.79**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
Sulfate (mg/L)	**MW-7**	**295**	**n/a**	**3/21/2026**	**362**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**
Total Dissolved Solids (mg/L)	**MW-7**	**610.5**	**n/a**	**3/21/2026**	**654**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**

Prediction Limit

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:36 AM

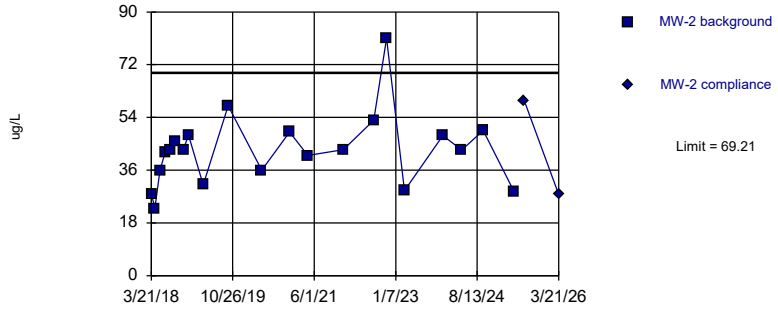
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (ug/L)	MW-2	69.21	n/a	3/21/2026	27.7	No	21	0	No	0.001254	Param Intra 1 of 2
Boron (ug/L)	MW-3	36.05	n/a	3/21/2026	16	No	21	4.762	No	0.001254	Param Intra 1 of 2
Boron (ug/L)	**MW-7**	**3730**	**n/a**	**3/21/2026**	**4380**	**Yes**	**21**	**0**	**n/a**	**0.003999**	**NP Intra (normality) ...**
Boron (ug/L)	MW-9	6272	n/a	3/21/2026	3310	No	21	0	No	0.001254	Param Intra 1 of 2
Boron (ug/L)	MW-1R	4611	n/a	3/21/2026	1760	No	15	0	No	0.001254	Param Intra 1 of 2
Boron (ug/L)	MW-10	434.6	n/a	3/21/2026	241	No	12	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-2	24.89	n/a	3/21/2026	14.8	No	21	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-3	19.56	n/a	3/21/2026	13.8	No	21	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-7	146.8	n/a	3/21/2026	126	No	21	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-9	111.3	n/a	3/21/2026	79.9	No	18	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-1R	119.7	n/a	3/21/2026	52.7	No	15	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-10	96.22	n/a	3/21/2026	76.4	No	12	0	x^5	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-2	7.584	n/a	3/21/2026	3.3J	No	21	0	No	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-3	4	n/a	3/21/2026	1.2J	No	21	28.57	n/a	0.003999	NP Intra (normality) ...
Chloride (mg/L)	**MW-7**	**15.08**	**n/a**	**3/21/2026**	**19**	**Yes**	**21**	**0**	**sqrt(x)**	**0.001254**	**Param Intra 1 of 2**
Chloride (mg/L)	MW-9	21.36	n/a	3/21/2026	10.5	No	21	0	No	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-1R	20.91	n/a	3/21/2026	6.64	No	15	0	No	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-10	24.81	n/a	3/21/2026	14.6	No	12	0	x^2	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	MW-2	0.336	n/a	3/21/2026	0.12J	No	21	71.43	n/a	0.003999	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-3	0.386	n/a	3/21/2026	0.12J	No	21	57.14	n/a	0.003999	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-7	0.8404	n/a	3/21/2026	0.64	No	21	0	No	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	MW-9	1.253	n/a	3/21/2026	0.49	No	21	0	No	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	MW-1R	0.366	n/a	3/21/2026	0.11J	No	15	73.33	n/a	0.007533	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-10	0.42	n/a	3/21/2026	0.24J	No	12	8.333	n/a	0.01077	NP Intra (normality) ...
pH (S.U.)	MW-2	6.445	6.025	3/21/2026	6.18	No	21	0	No	0.000...	Param Intra 1 of 2
pH (S.U.)	MW-3	6.962	6.26	3/21/2026	6.3	No	12	0	No	0.000...	Param Intra 1 of 2
pH (S.U.)	MW-7	7.437	7.168	3/21/2026	7.17	No	21	0	No	0.000...	Param Intra 1 of 2
pH (S.U.)	**MW-9**	**7.609**	**7.023**	**3/21/2026**	**6.79**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	MW-1R	6.686	6.387	3/21/2026	6.44	No	15	0	No	0.000...	Param Intra 1 of 2
pH (S.U.)	MW-10	7.258	6.673	3/21/2026	7.01	No	12	0	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	MW-2	22.25	n/a	3/21/2026	10.7	No	21	0	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	MW-3	22.63	n/a	3/21/2026	9.3J	No	21	4.762	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	**MW-7**	**295**	**n/a**	**3/21/2026**	**362**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**
Sulfate (mg/L)	MW-9	282.1	n/a	3/21/2026	174	No	21	0	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	MW-1R	282.5	n/a	3/21/2026	88.5	No	15	0	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	MW-10	224.1	n/a	3/21/2026	108	No	12	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-2	252.9	n/a	3/21/2026	74	No	20	0	ln(x)	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-3	168.2	n/a	3/21/2026	90	No	21	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	**MW-7**	**610.5**	**n/a**	**3/21/2026**	**654**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**
Total Dissolved Solids (mg/L)	MW-9	639.2	n/a	3/21/2026	444	No	21	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-1R	582.8	n/a	3/21/2026	248	No	15	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-10	523.7	n/a	3/21/2026	396	No	12	0	No	0.001254	Param Intra 1 of 2

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=42.8, Std. Dev.=12.61, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9064, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

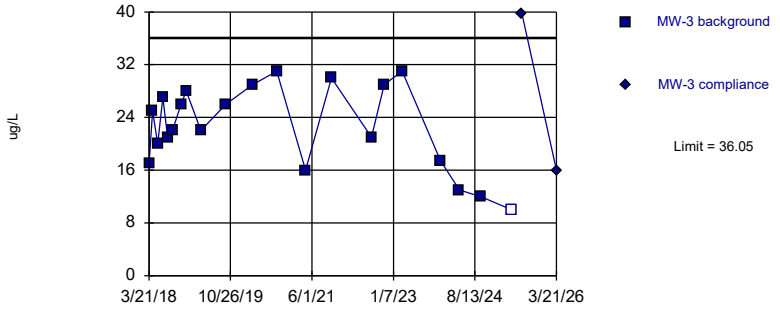
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Hollow symbols indicate censored values.

Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=22.54, Std. Dev.=6.454, n=21, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9423, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

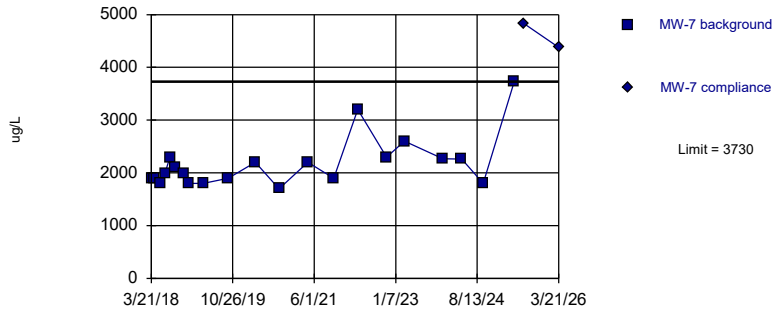
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Exceeds Limit

Boron

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

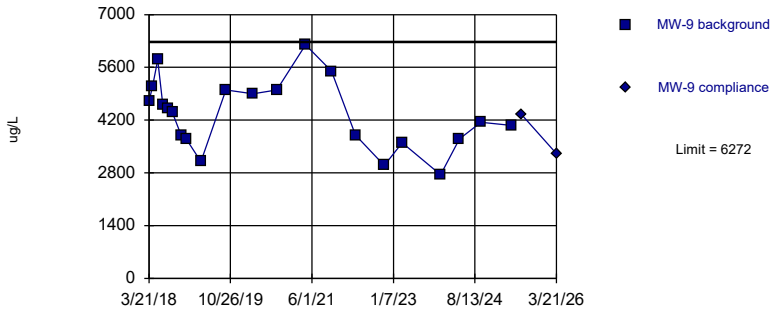
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=4350, Std. Dev.=918, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9821, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

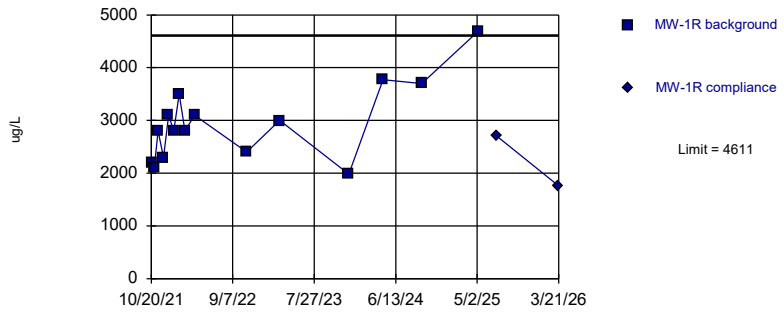
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=2949, Std. Dev.=738.3, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9392, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

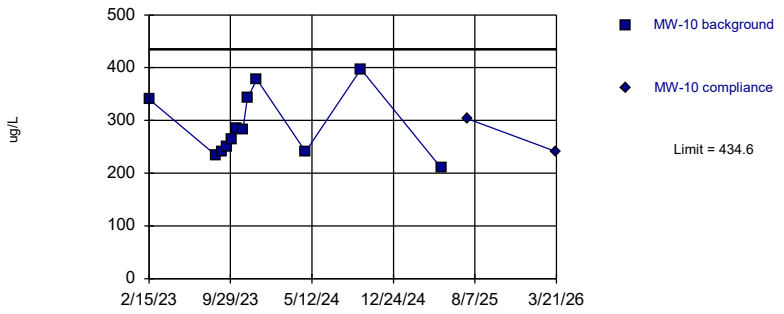
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=288.4, Std. Dev.=61.29, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9106, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

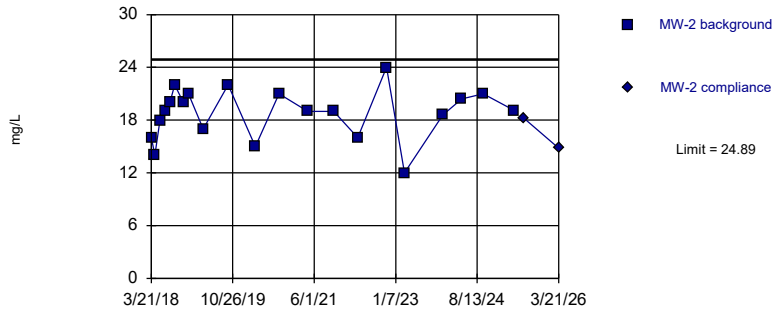
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=18.77, Std. Dev.=2.924, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

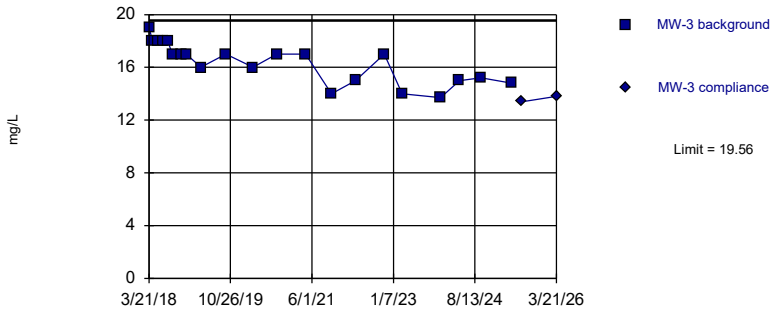
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=16.37, Std. Dev.=1.526, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9287, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

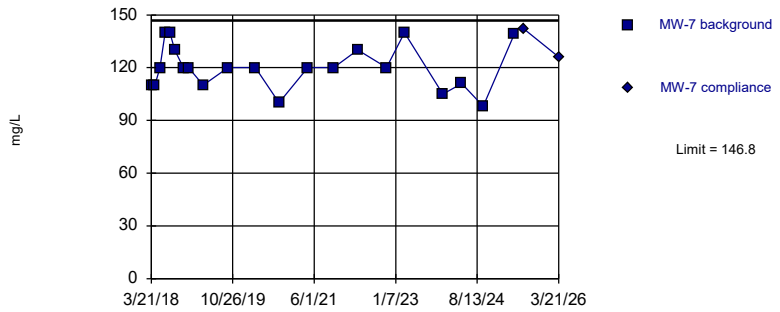
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=120.1, Std. Dev.=12.75, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9192, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

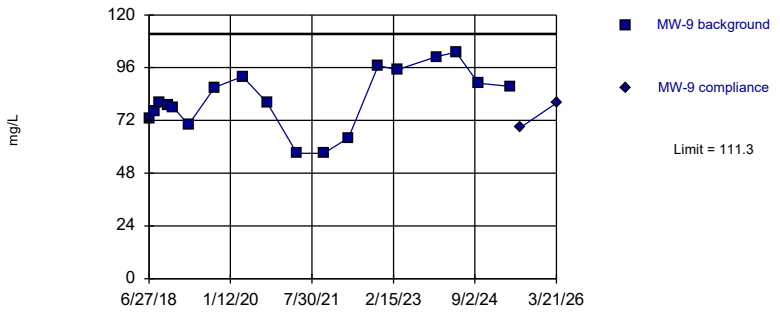
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=81.41, Std. Dev.=13.85, n=18. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9629, critical = 0.897. Kappa = 2.157 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

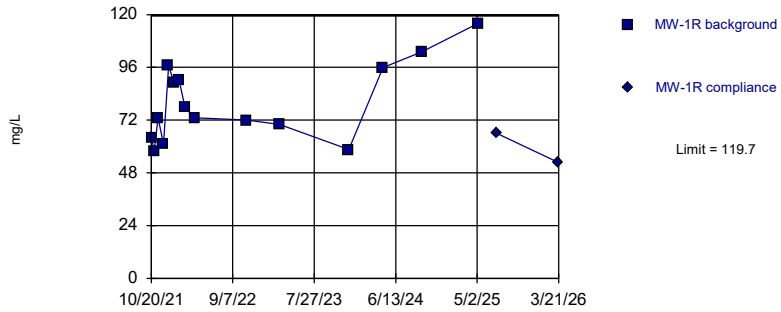
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=79.9, Std. Dev.=17.67, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.935, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

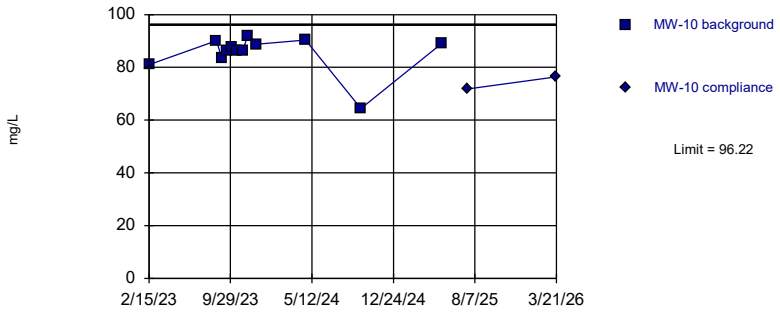
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=4.8e9, Std. Dev.=1.4e9, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8609, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

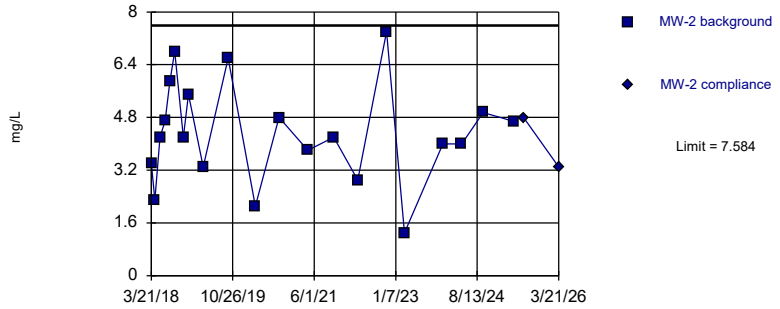
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary: Mean=4.335, Std. Dev.=1.552, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9808, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

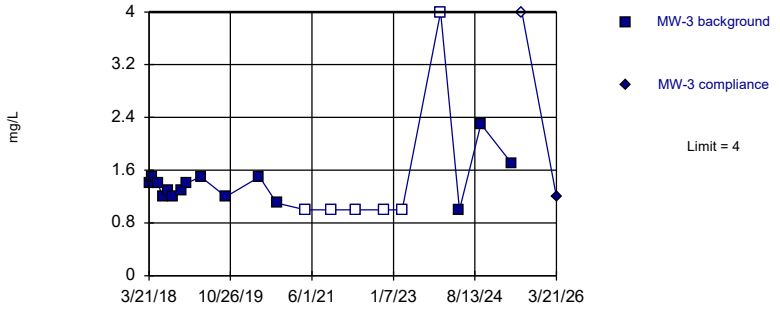
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Hollow symbols indicate censored values.

Within Limit

Chloride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 28.57% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

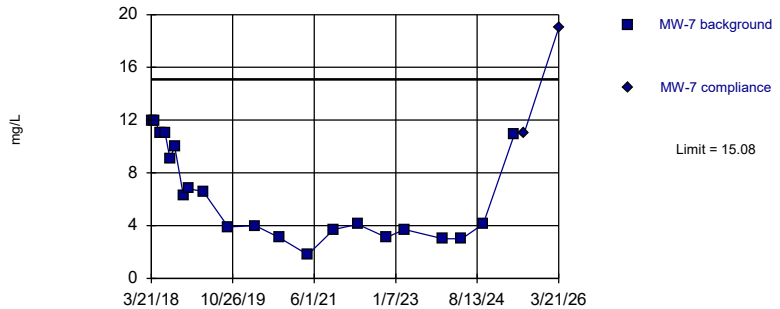
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Exceeds Limit

Chloride

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=2.425, Std. Dev.=0.6962, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8852, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

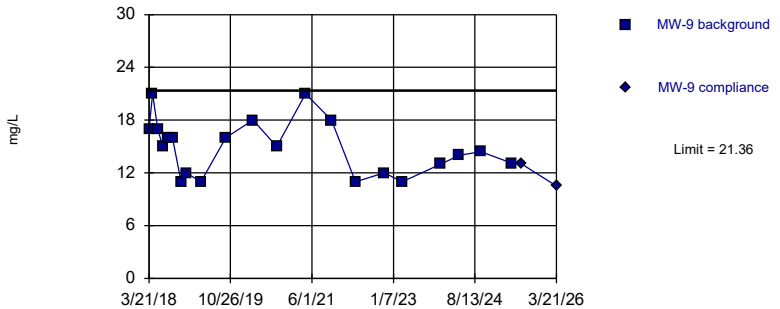
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary: Mean=14.88, Std. Dev.=3.096, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9321, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:32 AM View: CA Detection

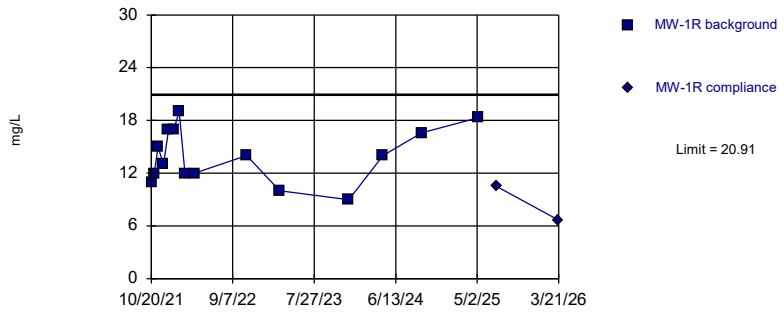
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary: Mean=13.99, Std. Dev.=3.073, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9586, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

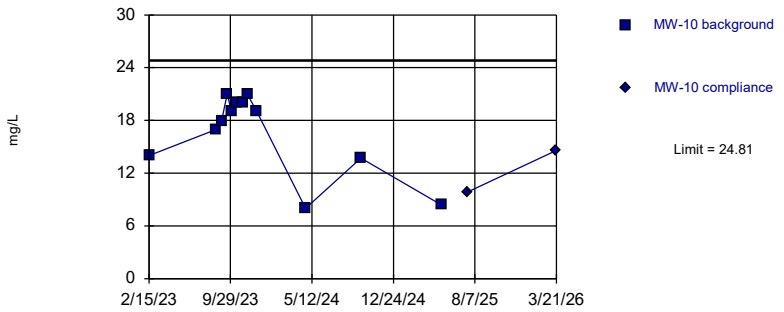
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=294.6, Std. Dev.=134.6, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8831, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

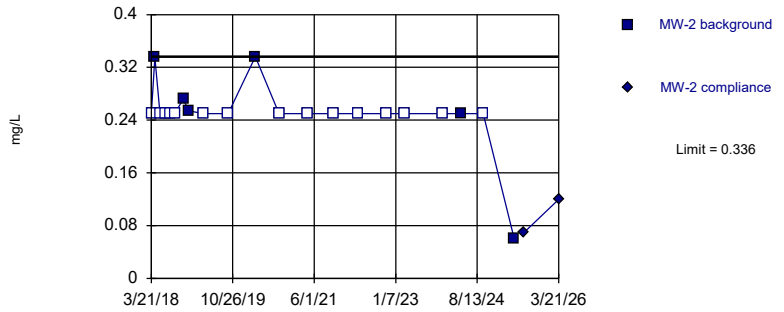
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Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

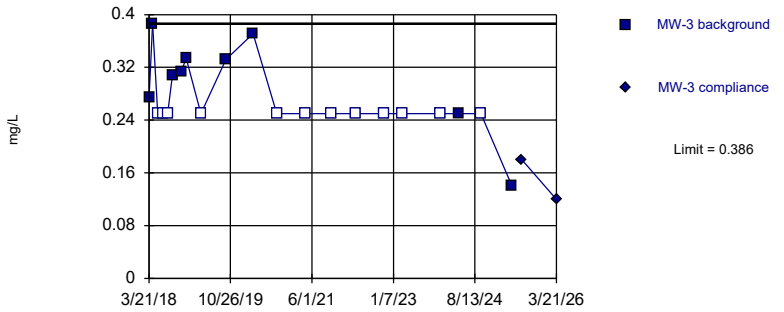
Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

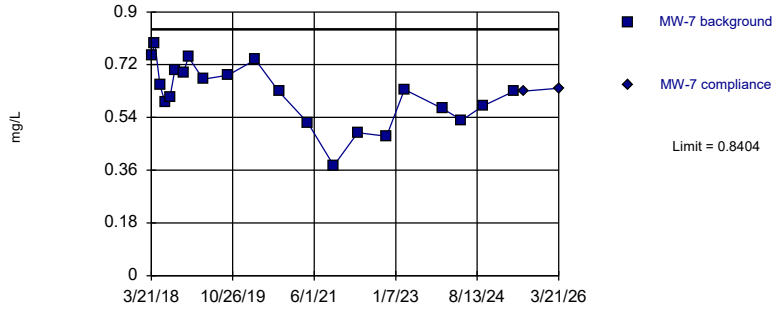
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Within Limit

Fluoride

Intrawell Parametric



Background Data Summary: Mean=0.6219, Std. Dev.=0.1043, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9773, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

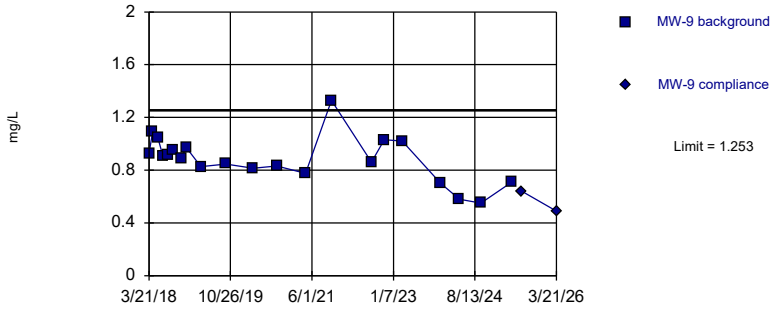
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Within Limit

Fluoride

Intrawell Parametric



Background Data Summary: Mean=0.885, Std. Dev.=0.1758, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9692, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

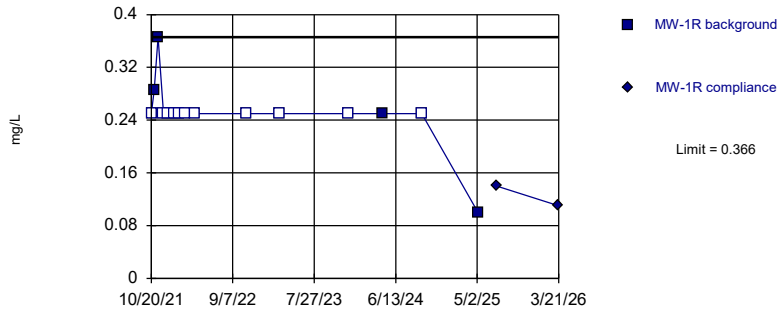
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

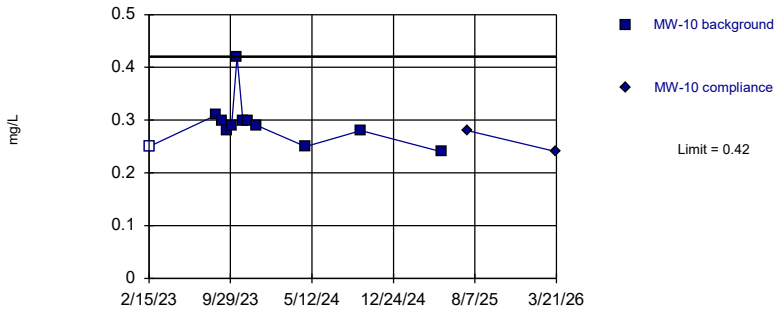
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 12 background values. 8.333% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

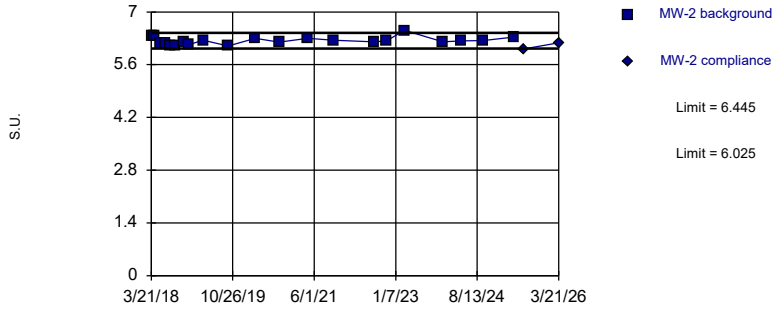
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.235, Std. Dev.=0.1004, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9426, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

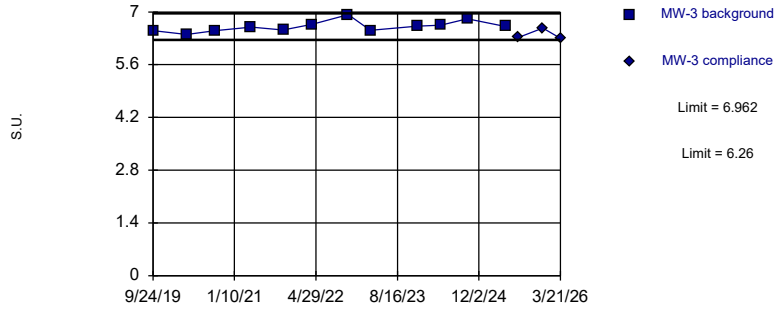
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.611, Std. Dev.=0.1472, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9199, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

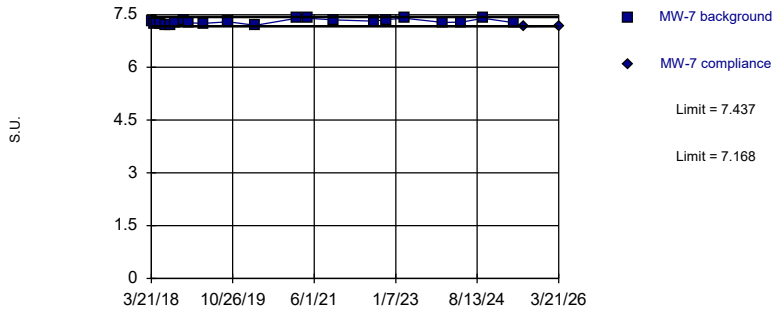
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=7.302, Std. Dev.=0.06418, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9304, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

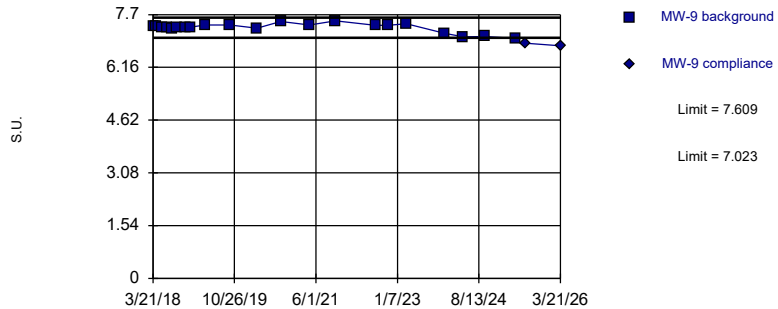
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Exceeds Limits

pH

Intrawell Parametric



Background Data Summary: Mean=7.316, Std. Dev.=0.1399, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8736, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

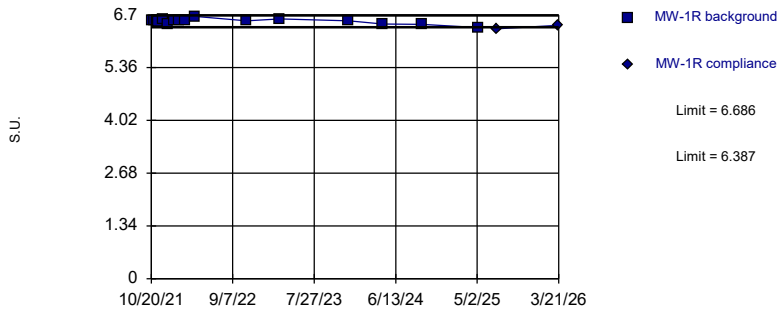
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.537, Std. Dev.=0.0664, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.914, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

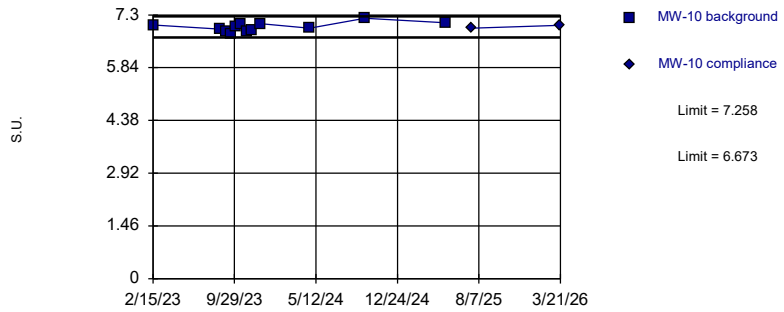
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.966, Std. Dev.=0.1227, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9632, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

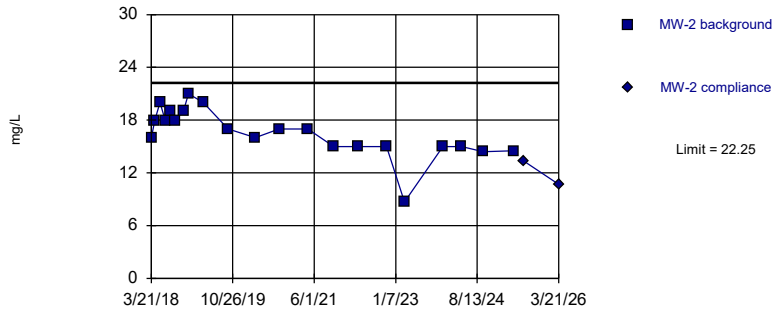
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=16.6, Std. Dev.=2.698, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9122, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

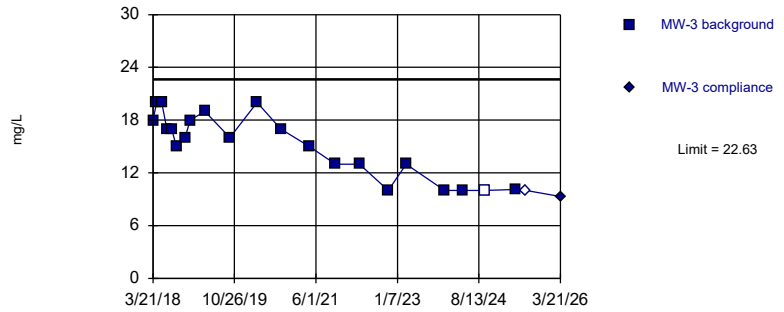
Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Hollow symbols indicate censored values.

Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=15.1, Std. Dev.=3.597, n=21, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9015, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

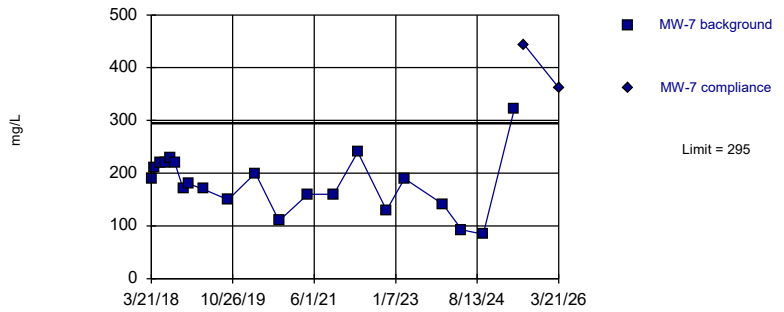
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Exceeds Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=180.4, Std. Dev.=54.69, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9668, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

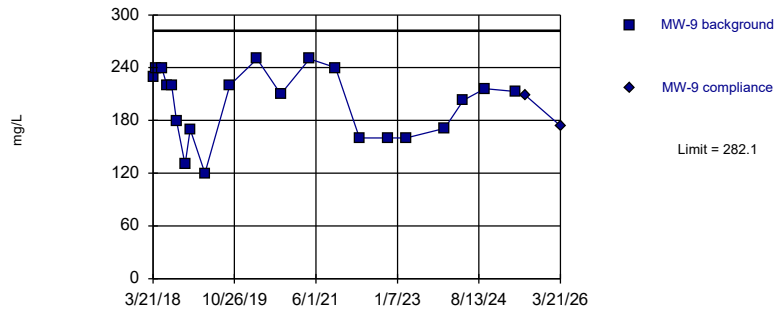
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=200.1, Std. Dev.=39.16, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9208, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

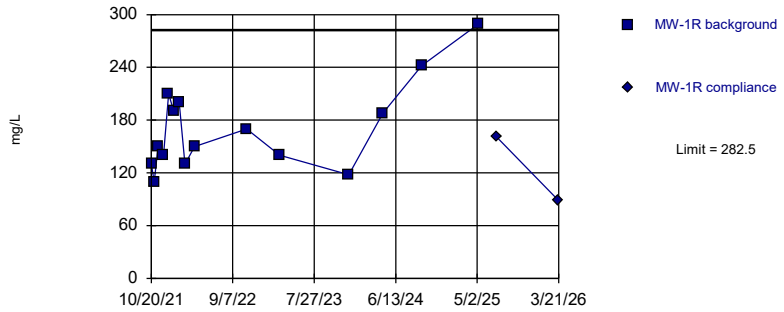
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=170.5, Std. Dev.=49.76, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9153, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

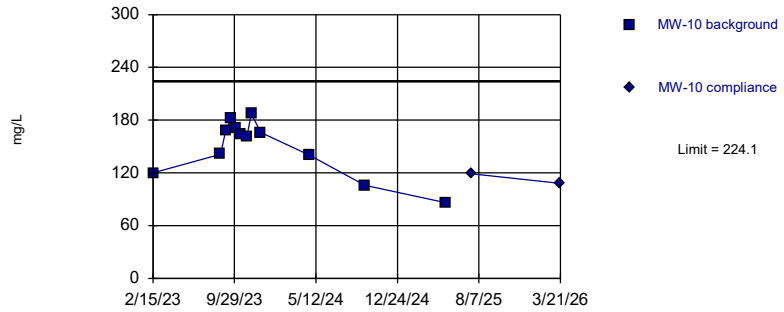
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=149.4, Std. Dev.=31.34, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9113, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

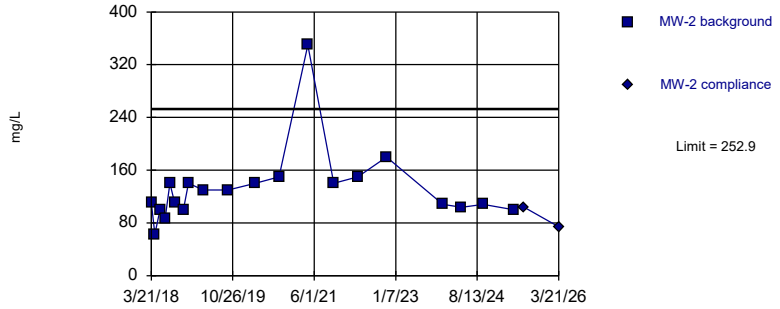
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.82, Std. Dev.=0.3381, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8822, critical = 0.868. Kappa = 2.108 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

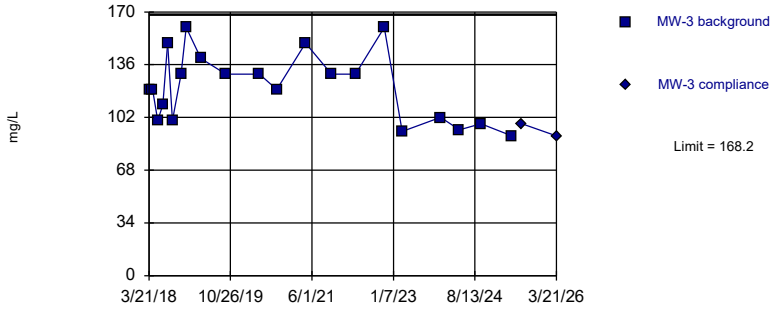
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=121.8, Std. Dev.=22.19, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9338, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

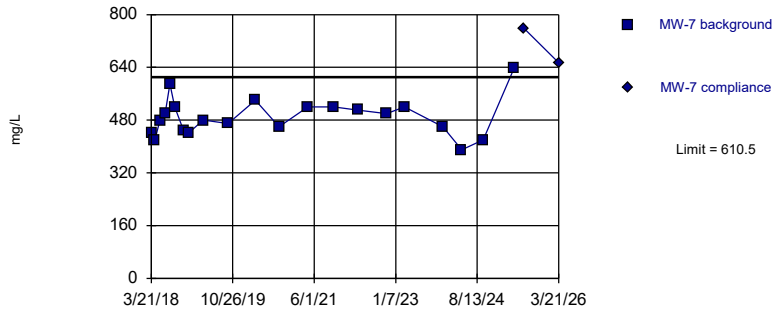
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Exceeds Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=489, Std. Dev.=58.04, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9541, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

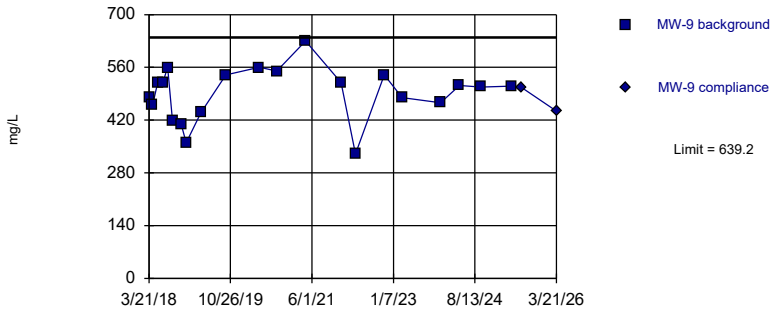
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=491.2, Std. Dev.=70.66, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9568, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

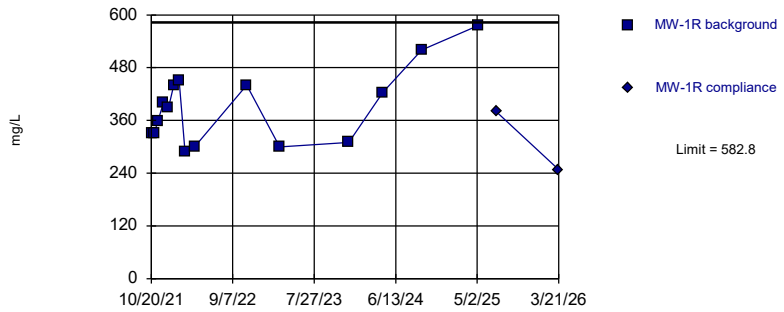
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=390.7, Std. Dev.=85.38, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9221, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

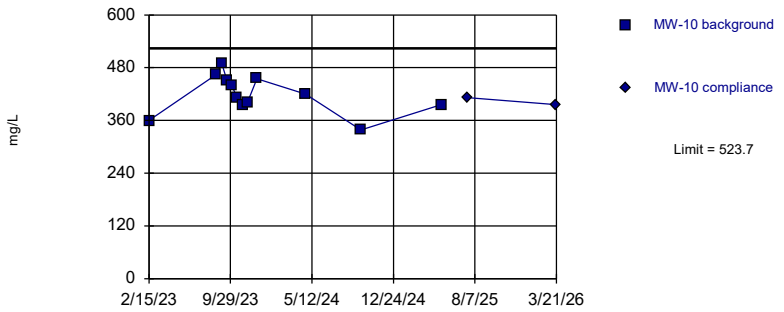
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=418.3, Std. Dev.=44.17, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9791, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 4/2/2026 8:33 AM View: CA Detection

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Appendix 9

Assessment and Corrective Action Monitoring
Statistical Evaluation Summary

Appendix 9

Assessment Monitoring Statistical Evaluation Summary

For SBMU – Sikeston Power Station Fly Ash Pond
July 7, 2025 and March 21, 2026 Monitoring Events

The following summarizes the results of the Assessment Monitoring Statistical Evaluation for the July 7, 2025 and March 21, 2026 groundwater sampling events for 40 CFR (§) 257 (CCR Rule) compliance for the Fly Ash Pond (FAP) at the Sikeston Board of Municipal Utilities – Sikeston Power Station. Included are the following Statistical Analysis Summary Reports:

Appendix 9-1 – Outlier Analysis Summary (Sanitas* Output Summary)
Appendix 9-2 – Confidence Interval Summary (Sanitas* Output Summary)
Appendix 9-3 – Corrective Action Monitoring Summary (Sanitas* Output Summary)
Appendix 9-4 – Trend Tests with Confidence Bands (Sanitas* Output Summary)

Outlier Removal (data evaluation and screening)

The §257 Appendix IV - Constituents for Assessment Monitoring were evaluated for Statistically Significant Levels (SSLs) over groundwater protection standards (GWPS) using Sanitas* to calculate confidence intervals based on the monitoring data following traditional data review, quality control, and outlier testing (Appendix 9-1). Sanitas* identified three outliers (associated with Arsenic (1) in MW-1R, and Selenium (2) in MW-2) in the assessment monitoring database. These outliers were removed from the assessment monitoring database, the remaining values were re-screened to confirm there were no masked outliers during the previous test, then confidence intervals were calculated, and trend testing was conducted.

Confidence Intervals / SSLs / Corrective Action Monitoring

Confidence Intervals were calculated for each well constituent pair as summarized in Appendix 9-2. If the Lower Confidence Limit (LCL) is greater than its respective GWPS, an Assessment Monitoring SSL is apparent. Following the assessment monitoring conducted during the 14th and 15th CCR compliance groundwater sampling events initiated on July 7, 2025 and March 21, 2026, SSLs of Molybdenum (in MW-1R, MW-7, and MW-9) and Cobalt (MW-1R) were confirmed. As a result, Corrective Action (CA) Monitoring was established in late 2025 with the addition of MW-4, and NE-3 as additional down gradient CA monitoring wells.

CA Monitoring results following the 14th and 15th CCR compliance groundwater sampling events indicated that GWPS are exceeded by the Upper Confidence Limits (UCLs) for Molybdenum (in MW-1R, MW-7, and MW-9), Cobalt (in MW-1R), and Lithium (in MW-7). As a result, CA monitoring for the FAP will continue with Assessment and Detection Monitoring.

Note: * = Sanitas© Statistical Software, © 1992-2026 SANITAS TECHNOLOGIES, Alamosa Colorado 81101-0012.

Trend Analysis

Trend analysis was also conducted to determine if the SSLs (or other constituent well pairs) are symptomatic of increasing concentrations of these constituents. Results of the trend analysis are provided in Appendix 9-4, and they demonstrate the following:

- Lithium concentrations at MW-7 and MW-9 are increasing with a statistically significant trend,
- Molybdenum concentrations at MW-7, and MW-9 are decreasing with statistically significant trends, and
- Molybdenum and Cobalt concentrations at MW-1R do not have statistically significant trends.

Recommendations

Sample all FAP System Wells (MW-1R, MW-2, MW-3, MW-7, MW-9, MW-10, MW-4, and NE-3):

- During the Second half of 2026 (Semi-annual) for all Appendix III Detection and all Appendix IV Assessment Monitoring Constituents.
- During the First half of 2027 (Semi-annual) for all Appendix III Detection and the Appendix IV Assessment Monitoring Constituents **that were detected during the previous event (late 2026)**.

Appendix 9-1

Outlier Analysis Summary
(Sanitas* Output Summary)

Outlier Analysis

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 1/26/2026, 11:45 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (ug/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	11	3.818	2.714	unknown	ShapiroWilk
Antimony (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	3	0	normal	ShapiroWilk
Antimony (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	3	0	normal	ShapiroWilk
Antimony (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	3	0	normal	ShapiroWilk
Antimony (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	3	0	normal	ShapiroWilk
Antimony (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	3	0	normal	ShapiroWilk
Antimony (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	3	0	normal	ShapiroWilk
Antimony (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	3	0	normal	ShapiroWilk
Arsenic (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	13	1	0	normal	ShapiroWilk
Arsenic (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	13	1	0	normal	ShapiroWilk
Arsenic (ug/L)	MW-7	No	n/a	n/a	NP	NaN	13	1	0	normal	ShapiroWilk
Arsenic (ug/L)	MW-9	n/a	n/a	n/a	NP	NaN	13	1.015	0.05547	unknown	ShapiroWilk
Arsenic (ug/L)	**MW-1R**	**Yes**	**2.2**	**12/11/2023**	**NP**	**NaN**	**13**	**1.154**	**0.3503**	**ln(x)**	**ShapiroWilk**
Arsenic (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	6.367	1.012	ln(x)	ShapiroWilk
Arsenic (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	1	0	normal	ShapiroWilk
Arsenic (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1.55	0.1509	x^(1/3)	ShapiroWilk
Barium (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	14	179.5	38.4	x^3	ShapiroWilk
Barium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	14	91.19	12.54	x^4	ShapiroWilk
Barium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	14	56.25	16.08	ln(x)	ShapiroWilk
Barium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	14	65.46	21.47	x^2	ShapiroWilk
Barium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	14	43.57	8.603	x^3	ShapiroWilk
Barium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	139.8	12.49	x^6	ShapiroWilk
Barium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	57.33	21.66	ln(x)	ShapiroWilk
Barium (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	320.8	16.31	x^3	ShapiroWilk
Beryllium (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-4	n/a	n/a	n/a	NP	NaN	9	1.111	0.3333	unknown	ShapiroWilk
Beryllium (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	1	0	normal	ShapiroWilk
Cadmium (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Chromium (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	4	0	normal	ShapiroWilk
Chromium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	4	0	normal	ShapiroWilk
Chromium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	4	0	normal	ShapiroWilk
Chromium (ug/L)	MW-9	n/a	n/a	n/a	NP	NaN	11	4.373	1.236	unknown	ShapiroWilk
Chromium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	4	0	normal	ShapiroWilk
Chromium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	4	0	normal	ShapiroWilk
Chromium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	4	0	normal	ShapiroWilk
Chromium (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	4	0	normal	ShapiroWilk
Cobalt (ug/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	14	2.457	1.599	unknown	ShapiroWilk
Cobalt (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	14	2	0	normal	ShapiroWilk

Outlier Analysis

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Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Cobalt (ug/L)	MW-7	No	n/a	n/a	NP	NaN	14	2.414	0.6526	ln(x)	ShapiroWilk
Cobalt (ug/L)	MW-9	n/a	n/a	n/a	NP	NaN	14	2.014	0.05345	unknown	ShapiroWilk
Cobalt (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	14	9.114	2.941	ln(x)	ShapiroWilk
Cobalt (ug/L)	MW-10	n/a	n/a	n/a	NP	NaN	12	1.917	0.2887	unknown	ShapiroWilk
Cobalt (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	2	0	normal	ShapiroWilk
Cobalt (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	2	0	normal	ShapiroWilk
Fluoride (mg/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	22	0.2421	0.06259	unknown	ShapiroWilk
Fluoride (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	22	0.2676	0.05563	normal	ShapiroWilk
Fluoride (mg/L)	MW-7	No	n/a	n/a	NP	NaN	22	0.6223	0.1018	x^2	ShapiroWilk
Fluoride (mg/L)	MW-9	No	n/a	n/a	NP	NaN	22	0.8739	0.1793	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	MW-1R	n/a	n/a	n/a	NP	NaN	16	0.2433	0.05693	unknown	ShapiroWilk
Fluoride (mg/L)	MW-10	No	n/a	n/a	NP	NaN	13	0.2915	0.04432	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-4	n/a	n/a	n/a	NP	NaN	28	0.2432	0.0379	unknown	ShapiroWilk
Fluoride (mg/L)	NE-3	No	n/a	n/a	NP	NaN	10	0.118	0.05731	x^(1/3)	ShapiroWilk
Lead (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	1	0	normal	ShapiroWilk
Lead (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Lithium (ug/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	14	11.43	3.631	unknown	ShapiroWilk
Lithium (ug/L)	MW-3 (bg)	n/a	n/a	n/a	NP	NaN	14	11.43	3.631	unknown	ShapiroWilk
Lithium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	14	29.77	7.86	ln(x)	ShapiroWilk
Lithium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	14	19.62	6.16	ln(x)	ShapiroWilk
Lithium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	14	13.26	4.128	ln(x)	ShapiroWilk
Lithium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	24.13	12.74	x^2	ShapiroWilk
Lithium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	10	0	normal	ShapiroWilk
Lithium (ug/L)	NE-3	n/a	n/a	n/a	NP	NaN	10	11	3.162	unknown	ShapiroWilk
Mercury (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-4	n/a	n/a	n/a	NP	NaN	9	0.3222	0.3667	unknown	ShapiroWilk
Mercury (ug/L)	NE-3	n/a	n/a	n/a	NP	NaN	10	0.2	9.4e-10	unknown	ShapiroWilk
Molybdenum (ug/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	14	1.029	0.1069	unknown	ShapiroWilk
Molybdenum (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	14	1	0	normal	ShapiroWilk
Molybdenum (ug/L)	MW-7	No	n/a	n/a	NP	NaN	14	140.4	23.62	x^2	ShapiroWilk
Molybdenum (ug/L)	MW-9	No	n/a	n/a	NP	NaN	14	383.2	243.5	normal	ShapiroWilk
Molybdenum (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	14	184.8	20.18	x^5	ShapiroWilk
Molybdenum (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	21.48	3.983	x^3	ShapiroWilk
Molybdenum (ug/L)	MW-4	n/a	n/a	n/a	NP	NaN	9	1.478	1.433	unknown	ShapiroWilk
Molybdenum (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1.39	0.3929	ln(x)	ShapiroWilk
Radium (pCi/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	13	1.182	0.5118	x^(1/3)	ShapiroWilk
Radium (pCi/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	13	0.9377	0.5127	normal	ShapiroWilk
Radium (pCi/L)	MW-7	No	n/a	n/a	NP	NaN	13	1.119	0.5814	normal	ShapiroWilk
Radium (pCi/L)	MW-9	No	n/a	n/a	NP	NaN	13	0.9347	0.5282	x^(1/3)	ShapiroWilk

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Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Radium (pCi/L)	MW-1R	No	n/a	n/a	NP	NaN	13	0.7632	0.4878	ln(x)	ShapiroWilk
Radium (pCi/L)	MW-10	n/a	n/a	n/a	NP	NaN	11	1.056	0.5396	unknown	ShapiroWilk
Radium (pCi/L)	MW-4	n/a	n/a	n/a	NP	NaN	9	1.893	0.3213	unknown	ShapiroWilk
Radium (pCi/L)	NE-3	n/a	n/a	n/a	NP	NaN	8	1.75	0.7071	unknown	ShapiroWilk
Selenium (ug/L)	**MW-2 (bg)**	**Yes**	**2,2.2**	**8/1/2018,...**	**NP**	**NaN**	**14**	**1.186**	**0.4036**	**ln(x)**	**ShapiroWilk**
Selenium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	14	1	0	normal	ShapiroWilk
Selenium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	14	16.41	19.51	ln(x)	ShapiroWilk
Selenium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	14	1	0	normal	ShapiroWilk
Selenium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	14	1	0	normal	ShapiroWilk
Selenium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	1	0	normal	ShapiroWilk
Selenium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	1	0	normal	ShapiroWilk
Selenium (ug/L)	NE-3	n/a	n/a	n/a	NP	NaN	10	1.03	0.09487	unknown	ShapiroWilk
Thallium (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	1	0	normal	ShapiroWilk
Thallium (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk

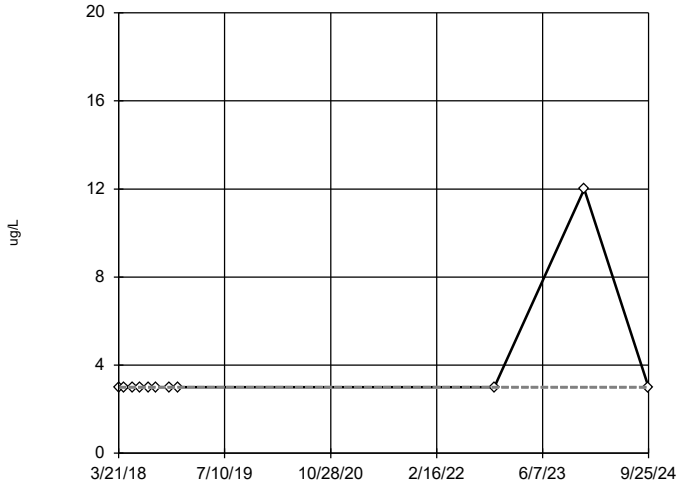
Outlier Analysis

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Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (ug/L)	**MW-1R**	**Yes**	**2.2**	**12/11/2023**	**NP**	**NaN**	**13**	**1.154**	**0.3503**	**ln(x)**	**ShapiroWilk**
Selenium (ug/L)	**MW-2 (bg)**	**Yes**	**2,2.2**	**8/1/2018,...**	**NP**	**NaN**	**14**	**1.186**	**0.4036**	**ln(x)**	**ShapiroWilk**

Antimony

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

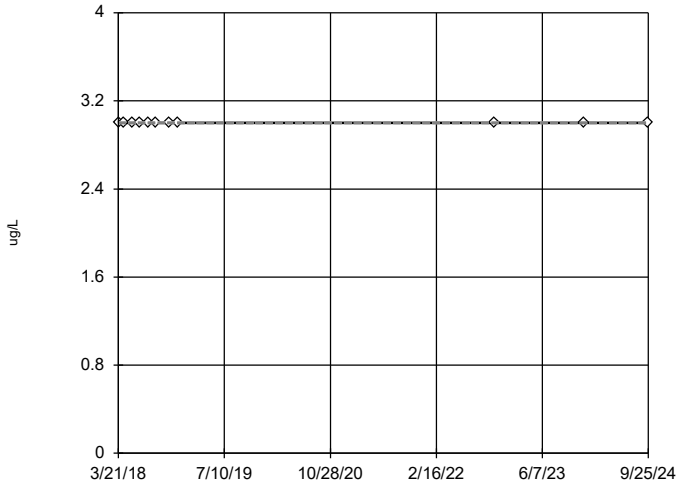
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

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Antimony

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

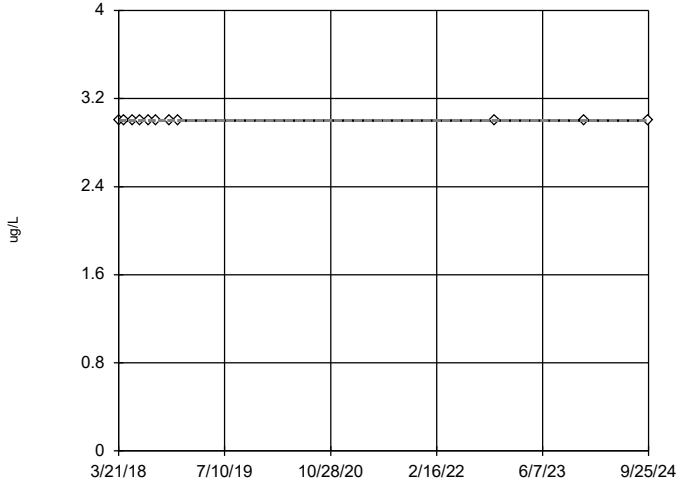
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Antimony

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

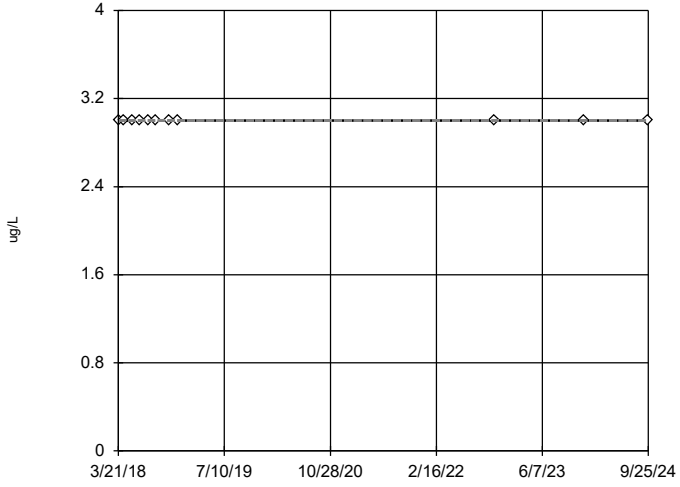
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

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Antimony

MW-9



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

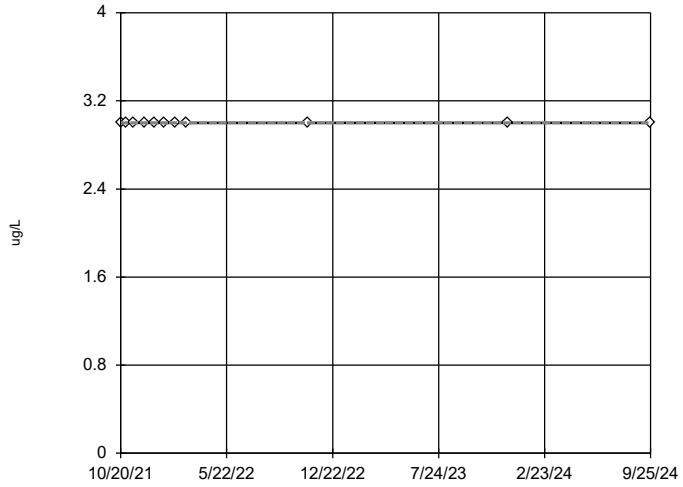
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

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Antimony

MW-1R



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

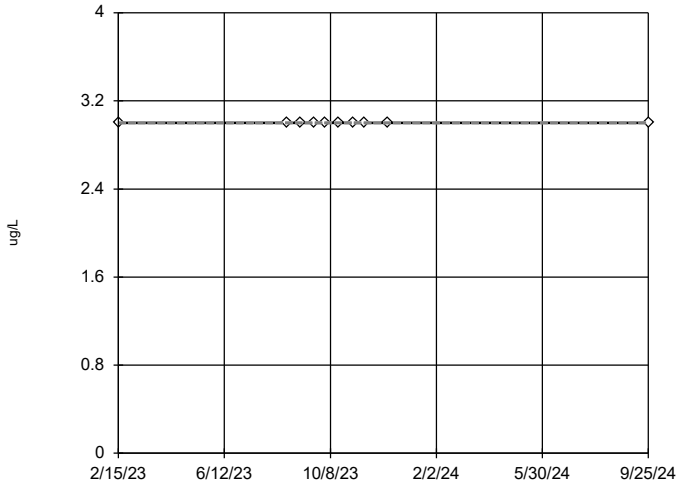
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

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Antimony

MW-10



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

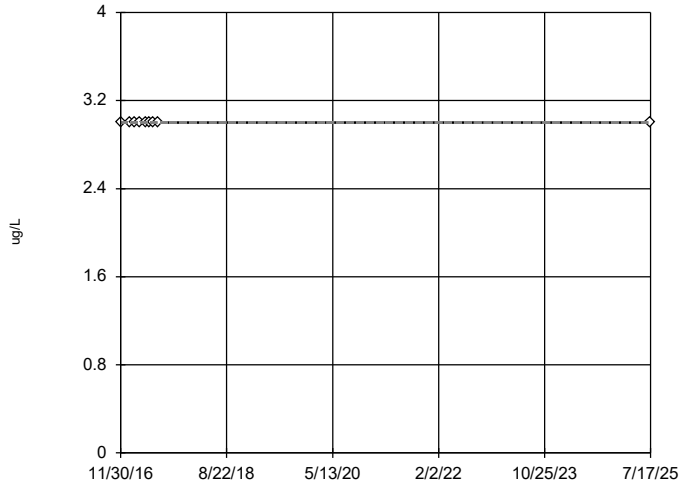
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

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Antimony

MW-4



n = 9

No outliers found. Tukey's method selected by user.

All values are the same.

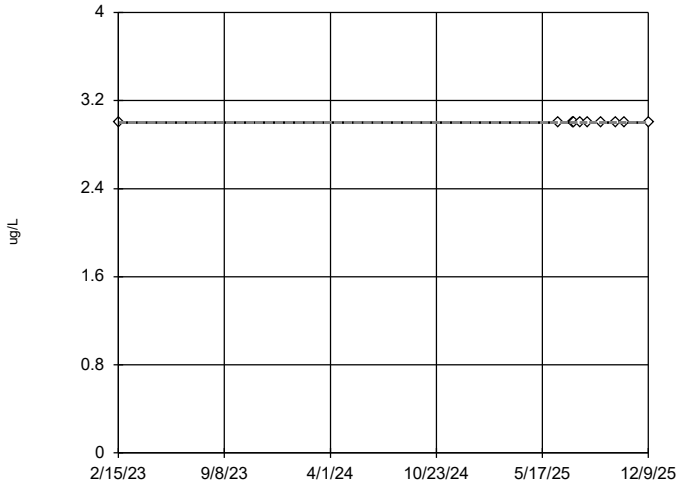
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

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Antimony

NE-3



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

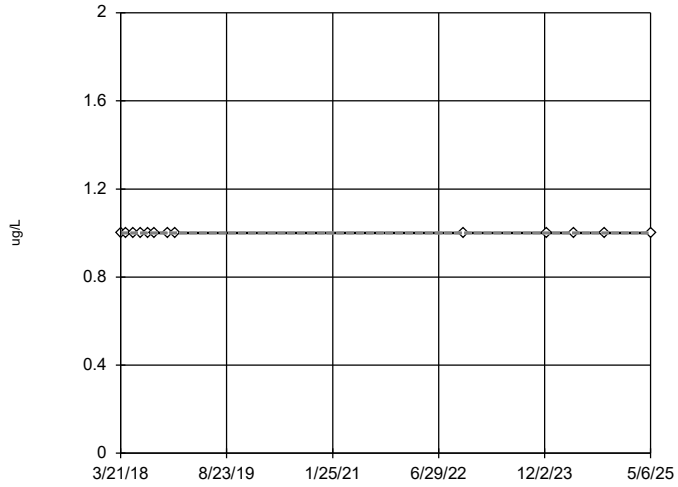
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

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Arsenic

MW-2 (bg)



n = 13

No outliers found. Tukey's method selected by user.

All values are the same.

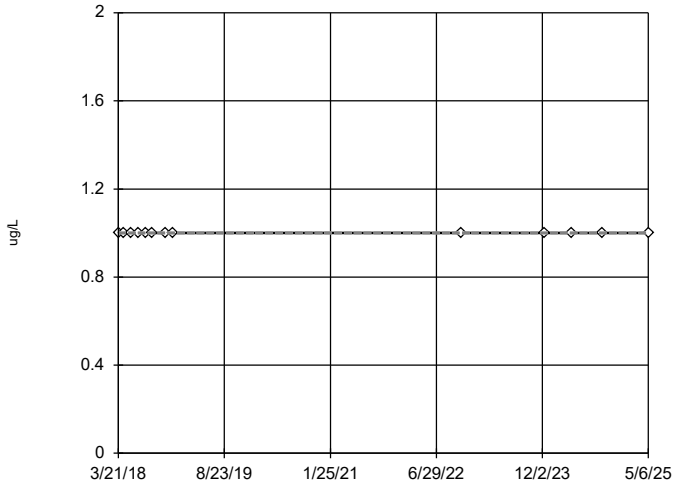
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Arsenic

MW-3 (bg)



n = 13

No outliers found. Tukey's method selected by user.

All values are the same.

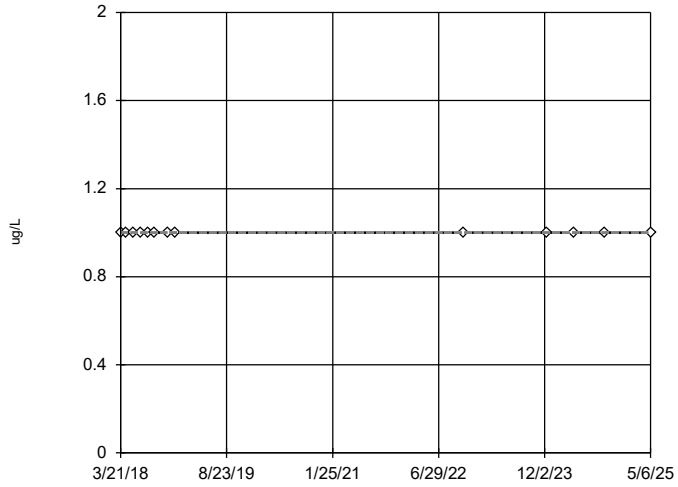
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Arsenic

MW-7



n = 13

No outliers found. Tukey's method selected by user.

All values are the same.

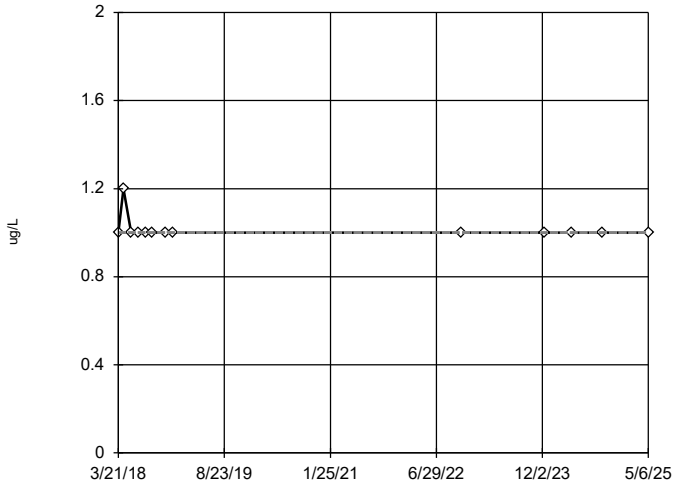
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Arsenic

MW-9



n = 13

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

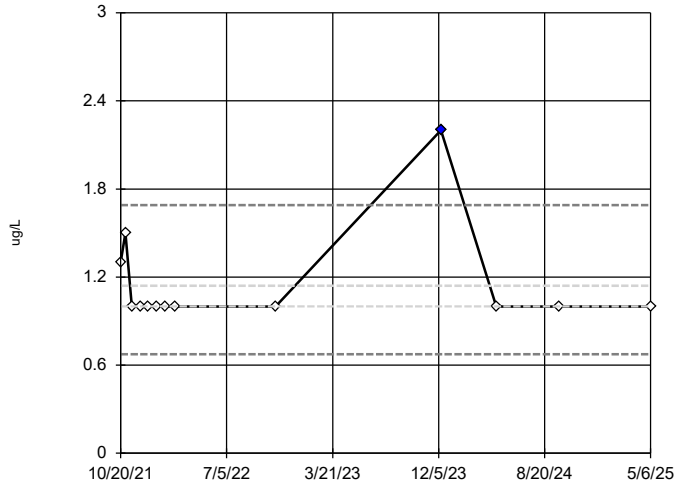
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Arsenic

MW-1R



n = 13

Outlier is drawn as solid. Tukey's method select-ed by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 1.69, low cutoff = 0.6747, based on IQR multiplier of 3.

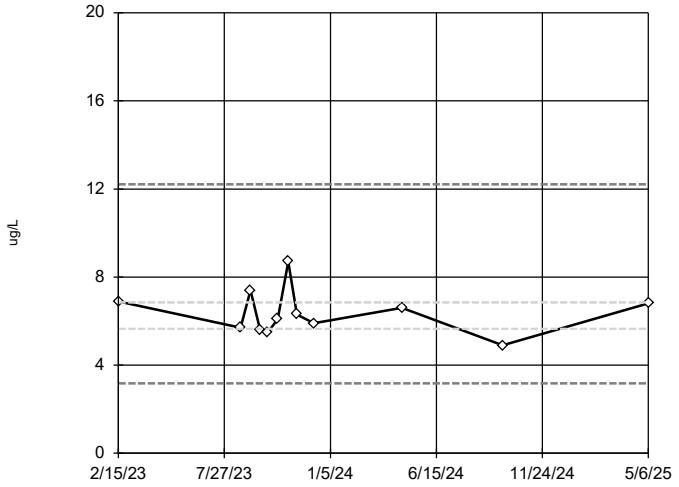
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Arsenic

MW-10



n = 12

No outliers found. Tukey's method select-ed by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 12.21, low cutoff = 3.17, based on IQR multiplier of 3.

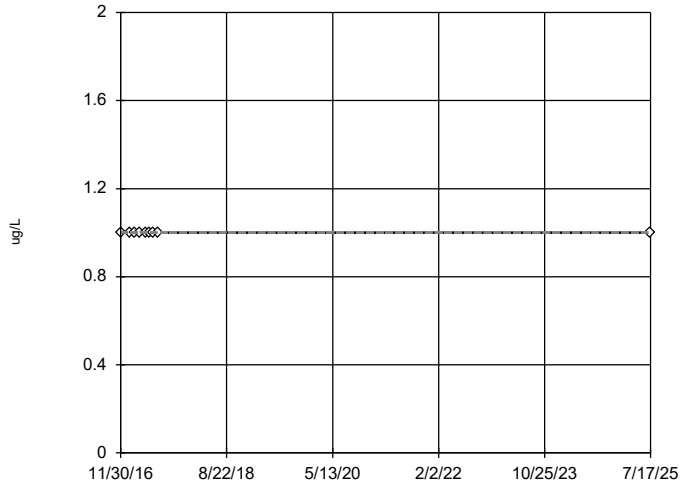
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Arsenic

MW-4



n = 9

No outliers found. Tukey's method select-ed by user.

All values are the same.

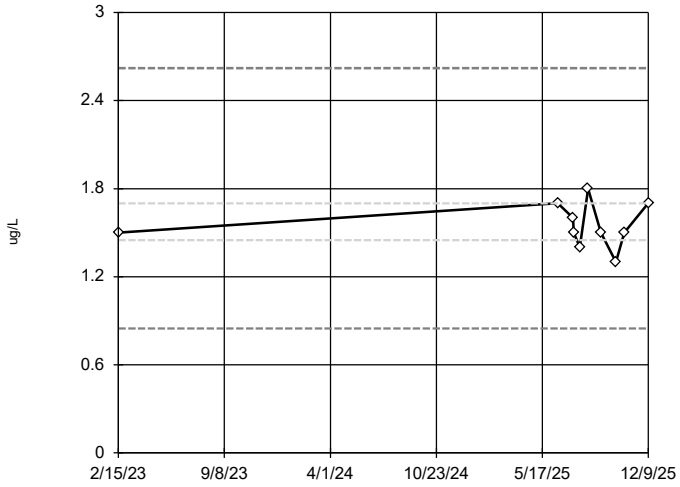
Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Arsenic

NE-3



n = 10

No outliers found. Tukey's method select-ed by user.

Data were cube root trans-formed to achieve best W statistic (graph shown in original units).

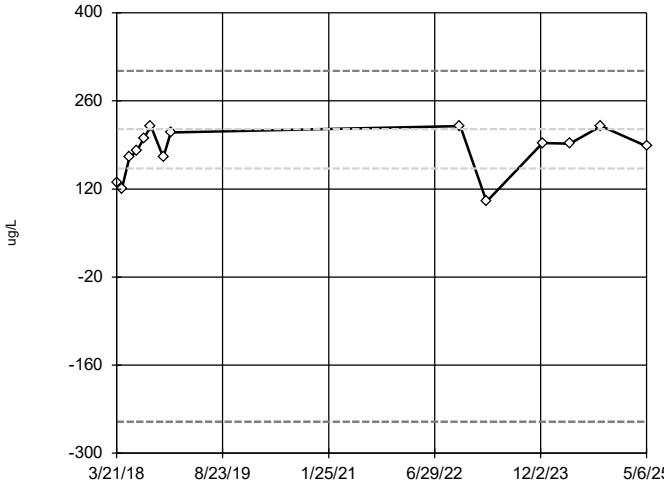
High cutoff = 2.621, low cutoff = 0.8475, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:41 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Barium

MW-2 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 307.8, low cutoff = -250.1, based on IQR multiplier of 3.

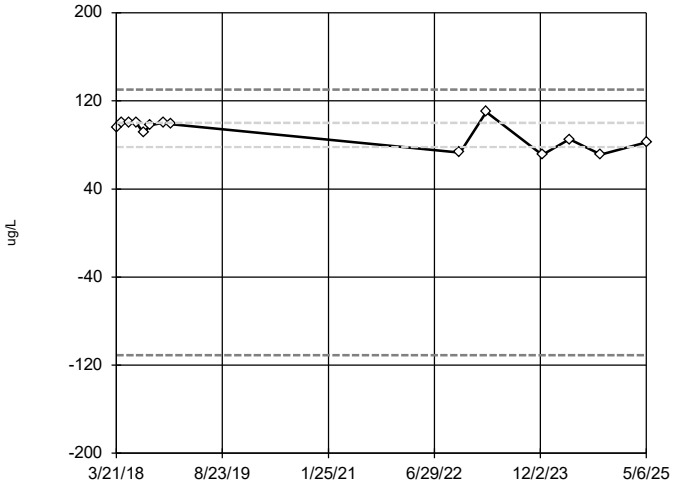
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-3 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 130.3, low cutoff = -110.9, based on IQR multiplier of 3.

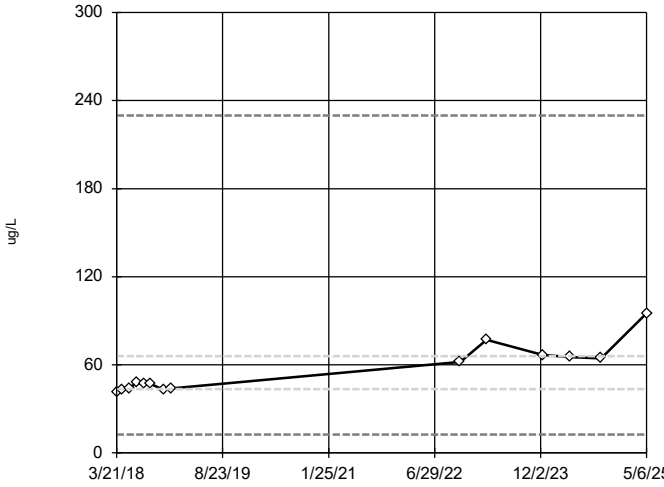
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-7



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 229.8, low cutoff = 12.48, based on IQR multiplier of 3.

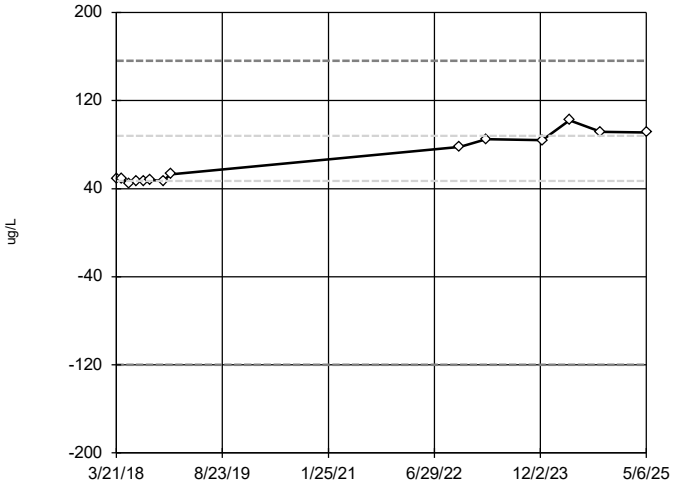
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-9



n = 14

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

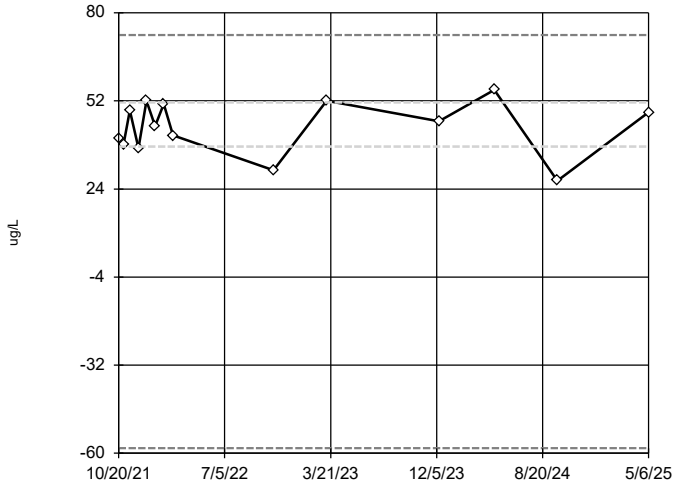
High cutoff = 156, low cutoff = -120, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Barium

MW-1R



n = 14

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 72.95, low cutoff = -58.37, based on IQR multiplier of 3.

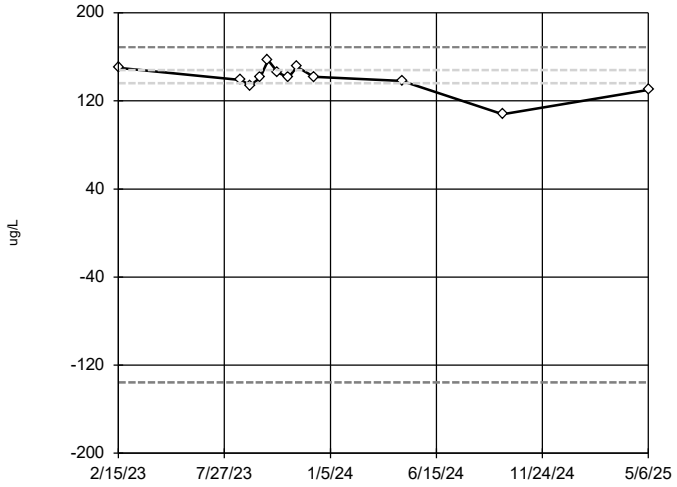
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 168.8, low cutoff = -135.6, based on IQR multiplier of 3.

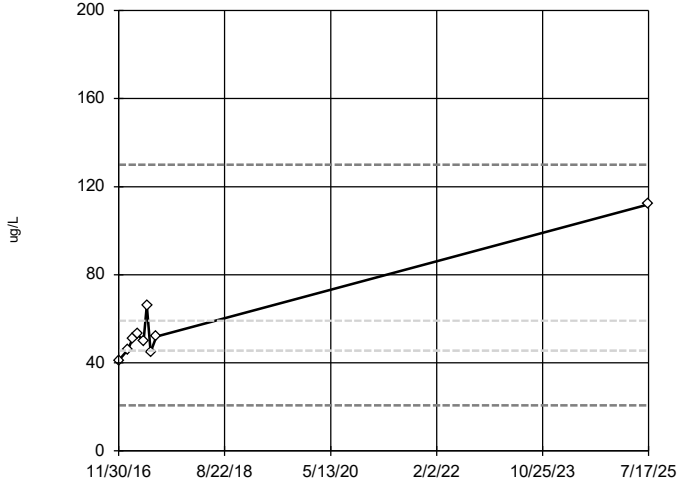
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-4



n = 9

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 129.9, low cutoff = 20.71, based on IQR multiplier of 3.

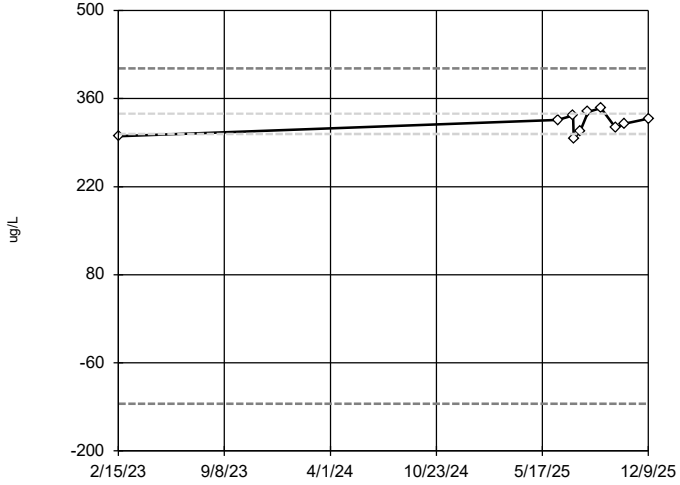
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

NE-3



n = 10

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 407.9, low cutoff = -125.1, based on IQR multiplier of 3.

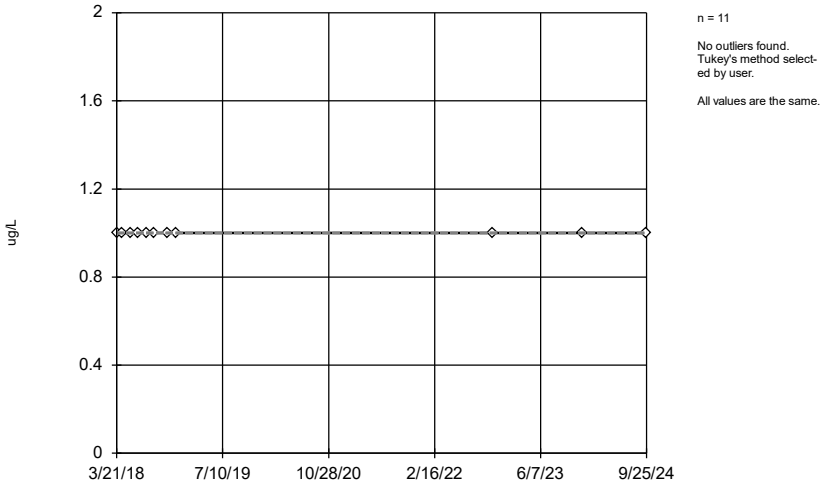
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Beryllium

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

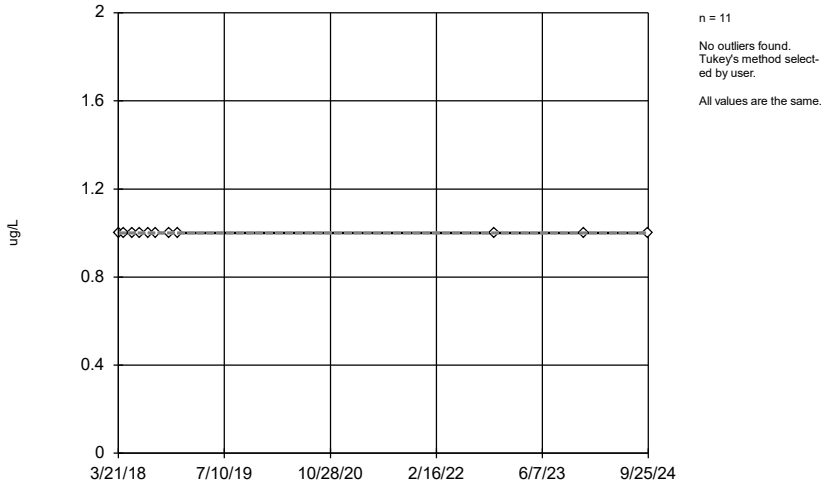
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Beryllium

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

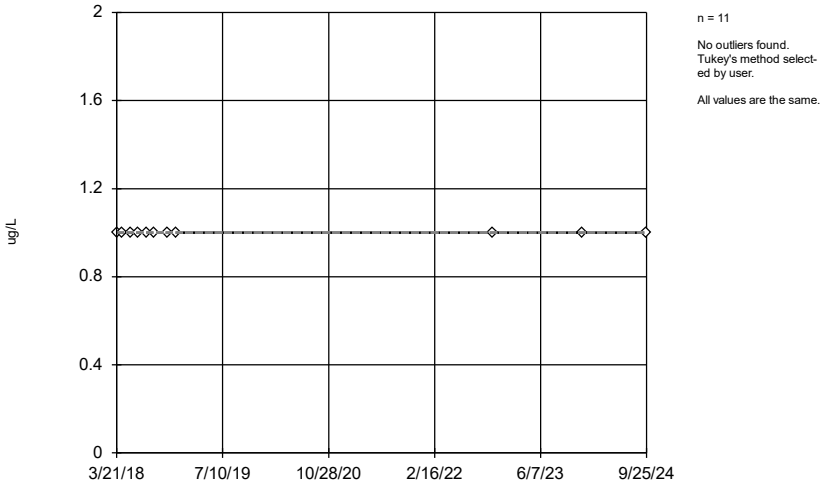
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Beryllium

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

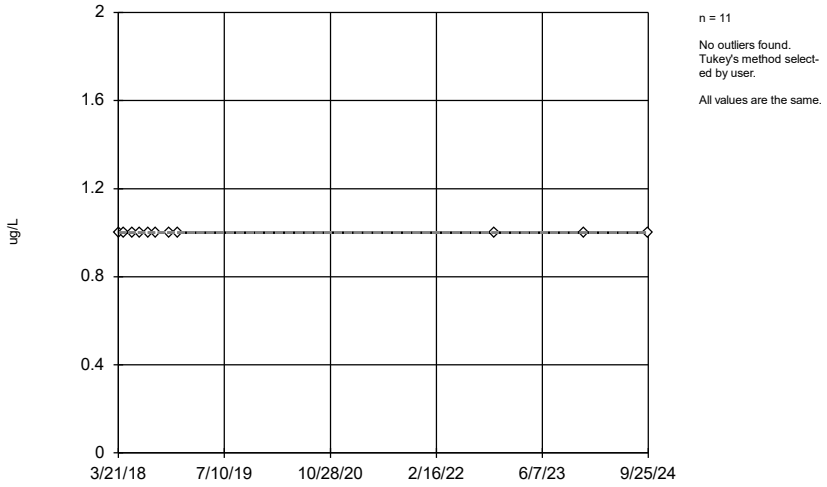
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Beryllium

MW-9



n = 11

No outliers found. Tukey's method selected by user.

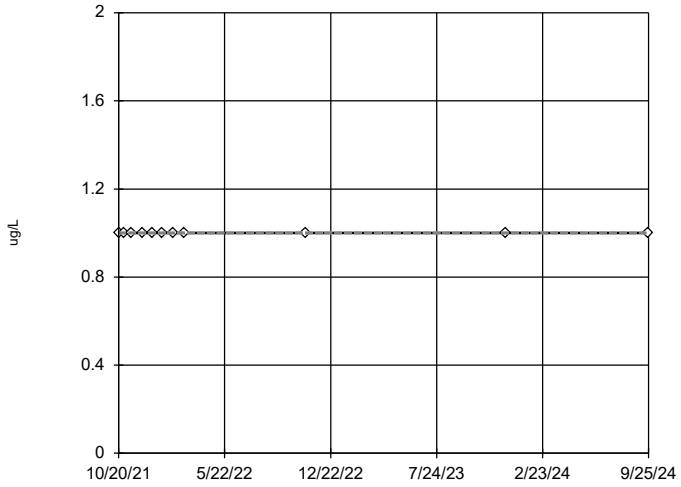
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Beryllium

MW-1R



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

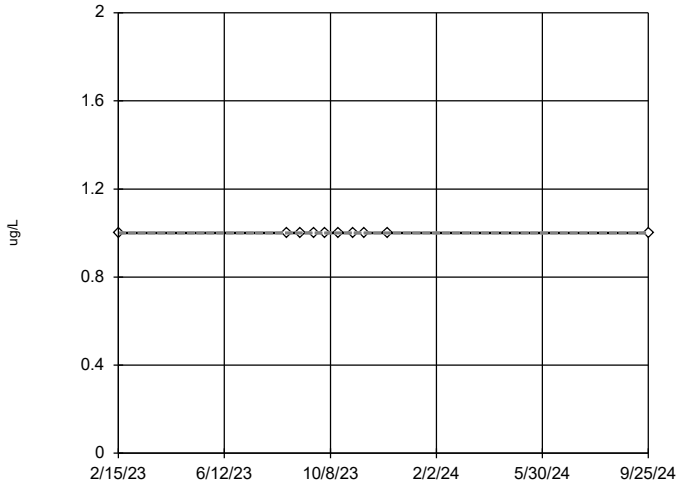
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Beryllium

MW-10



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

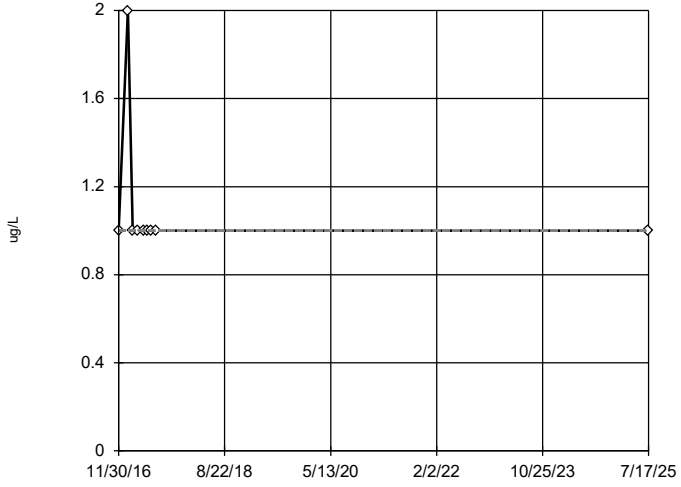
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Beryllium

MW-4



n = 9

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

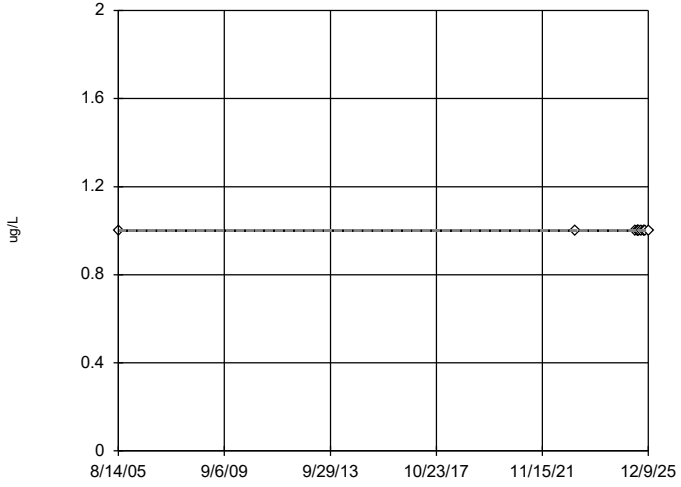
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Beryllium

NE-3



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

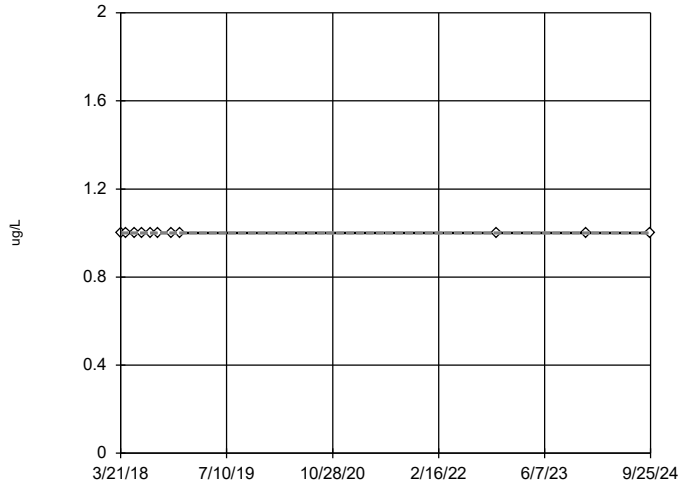
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cadmium

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

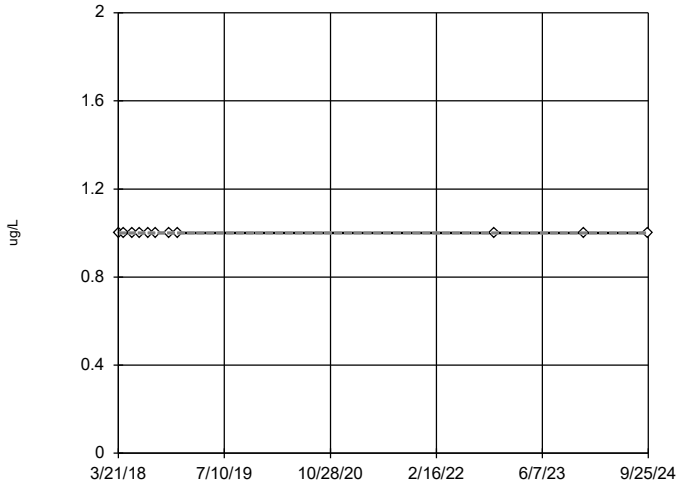
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cadmium

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

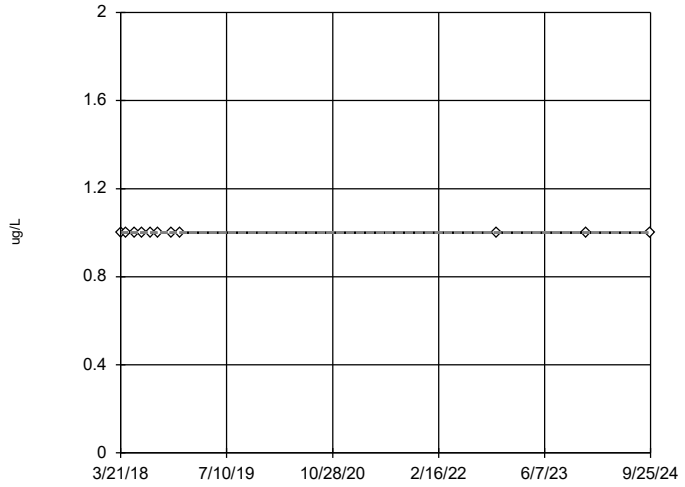
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cadmium

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

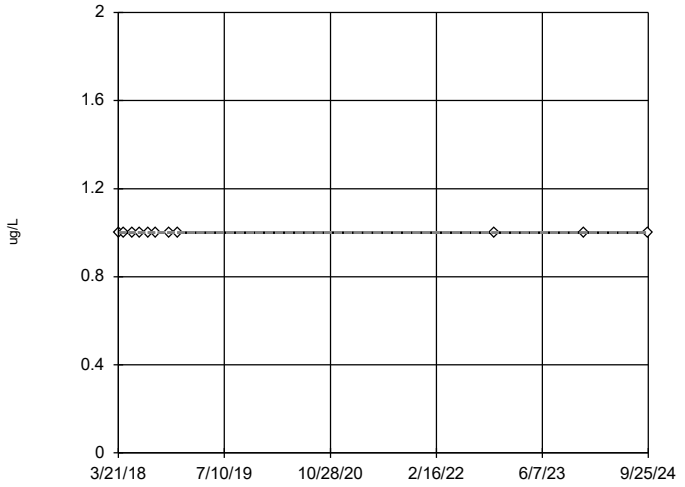
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Cadmium

MW-9



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

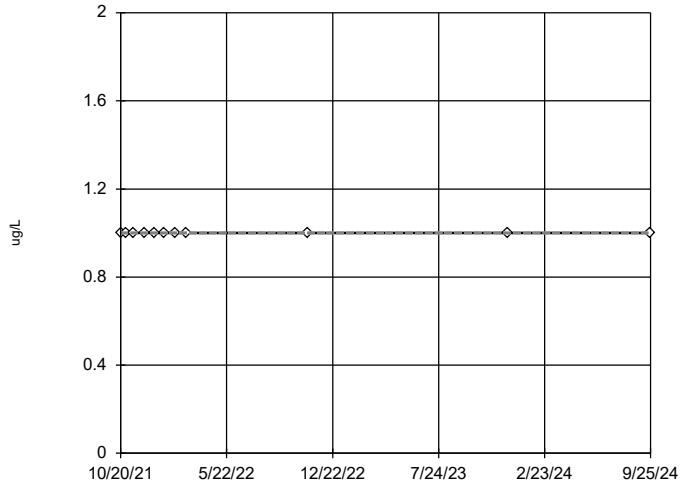
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Cadmium

MW-1R



n = 11

No outliers found.
Tukey's method select-
ed by user.

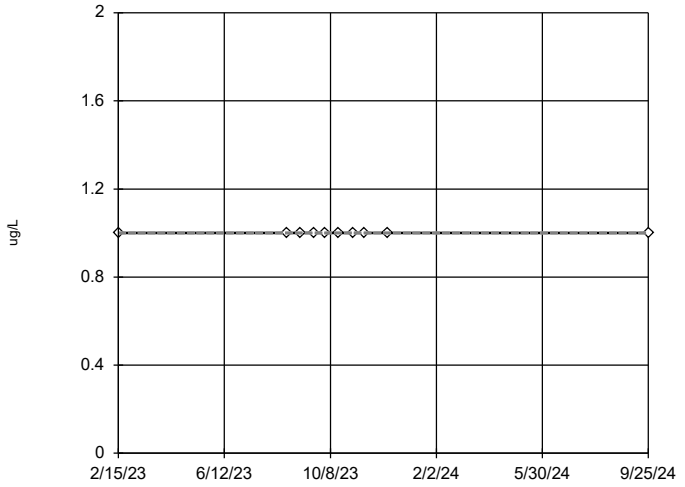
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Cadmium

MW-10



n = 10

No outliers found.
Tukey's method select-
ed by user.

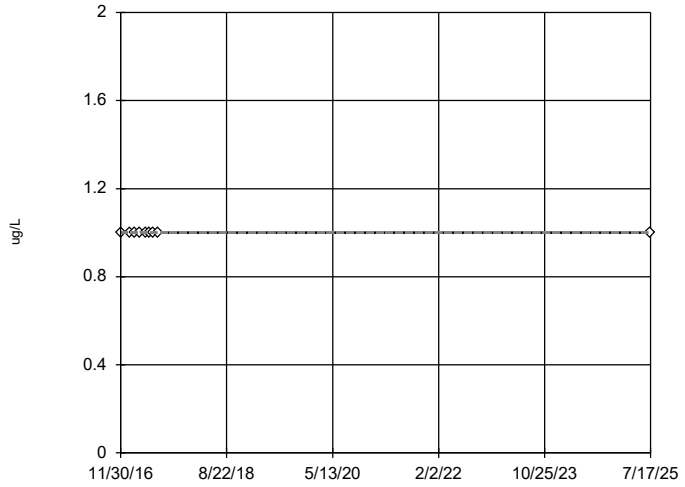
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Cadmium

MW-4



n = 9

No outliers found.
Tukey's method select-
ed by user.

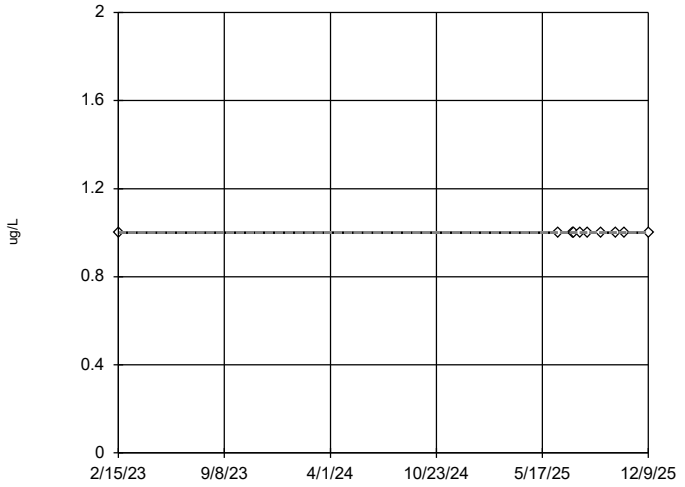
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Cadmium

NE-3



n = 10

No outliers found.
Tukey's method select-
ed by user.

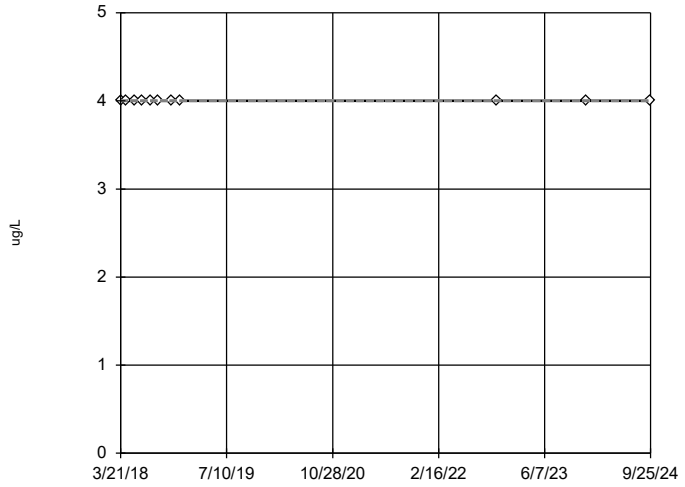
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

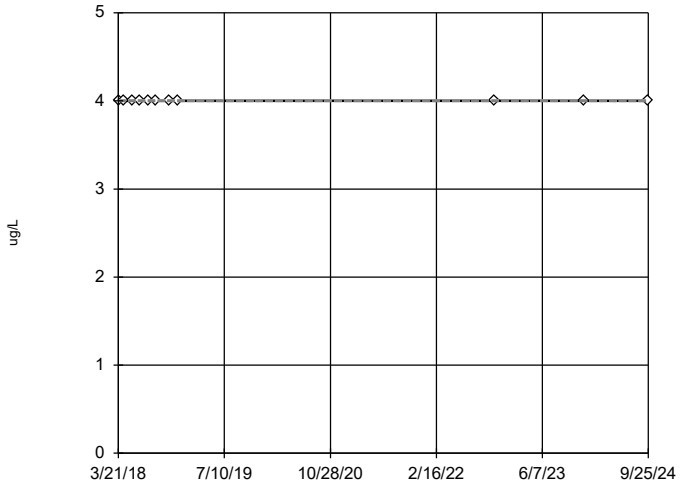
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

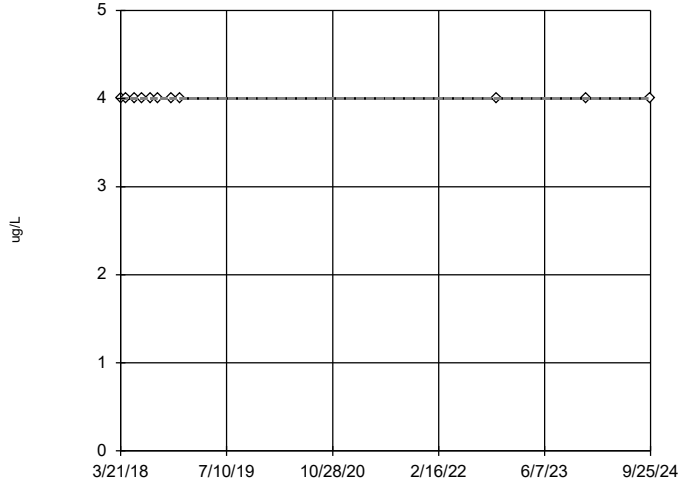
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-7



n = 11

No outliers found. Tukey's method selected by user.

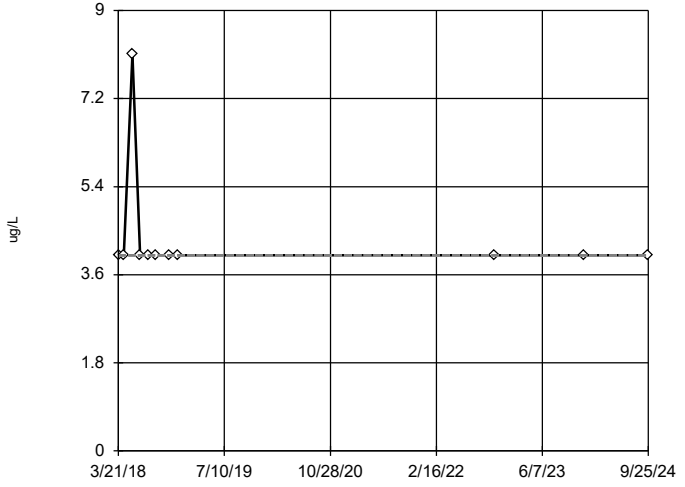
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-9



n = 11

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

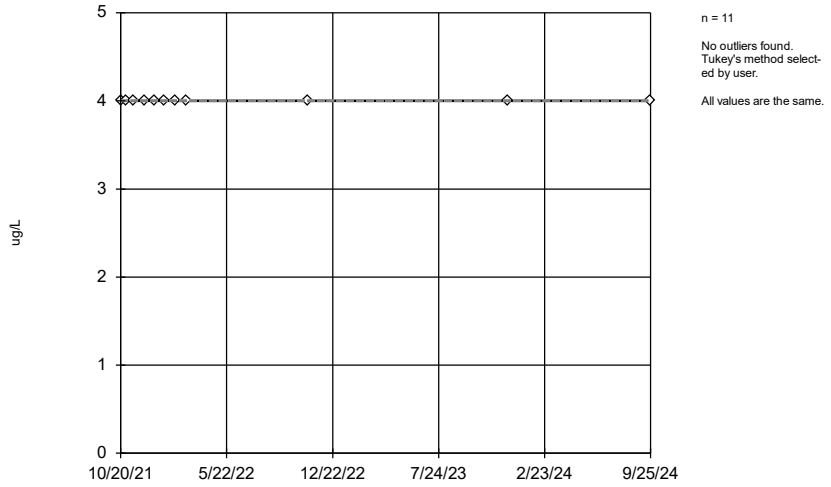
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-1R



n = 11

No outliers found. Tukey's method select-ed by user.

All values are the same.

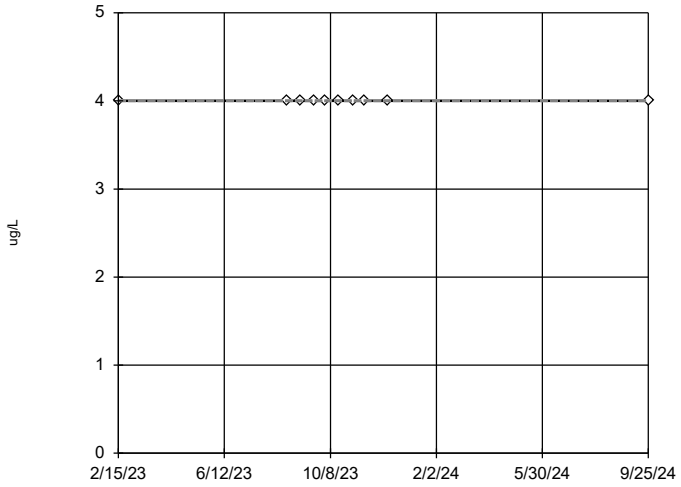
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-10



n = 10

No outliers found. Tukey's method select-ed by user.

All values are the same.

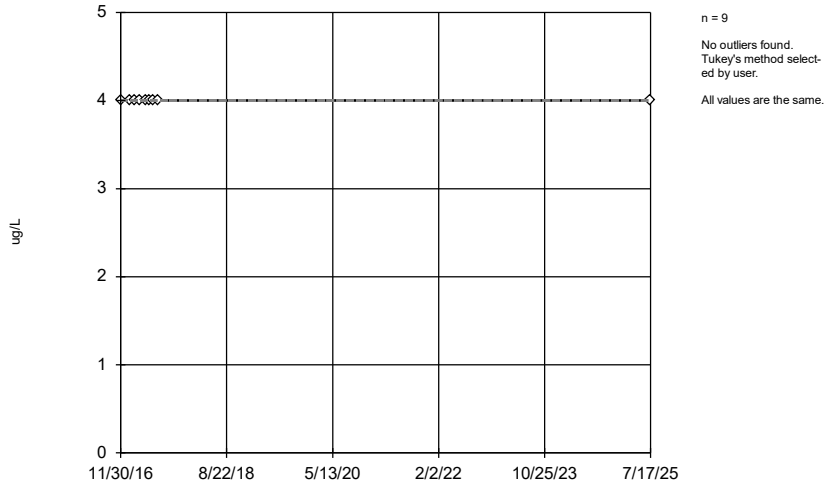
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-4



n = 9

No outliers found. Tukey's method select-ed by user.

All values are the same.

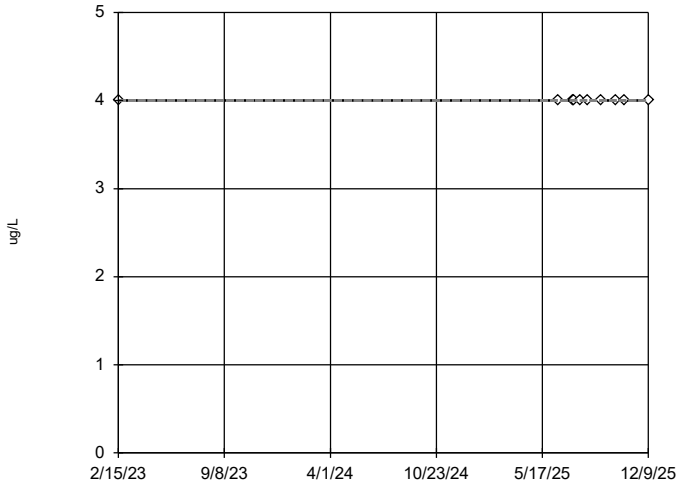
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

NE-3



n = 10

No outliers found. Tukey's method select-ed by user.

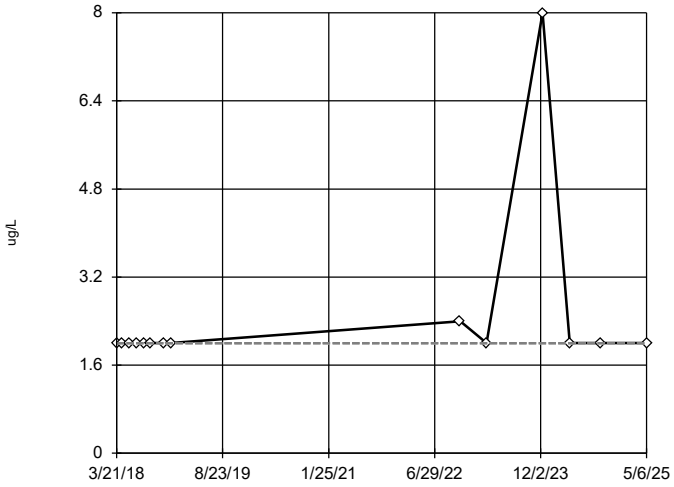
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Cobalt

MW-2 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

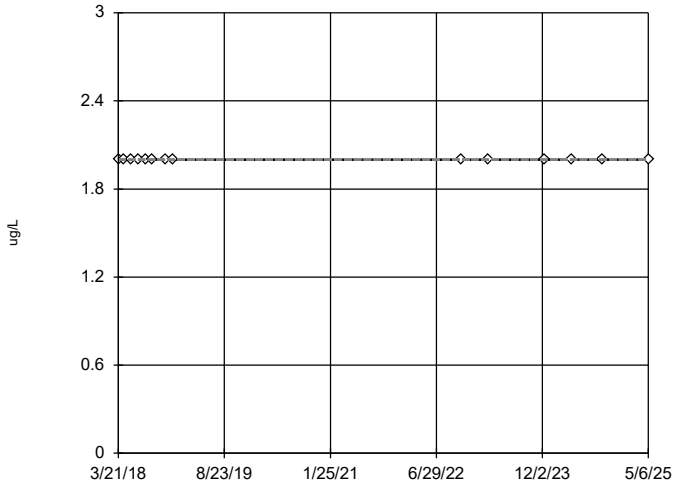
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cobalt

MW-3 (bg)



n = 14

No outliers found. Tukey's method selected by user.

All values are the same.

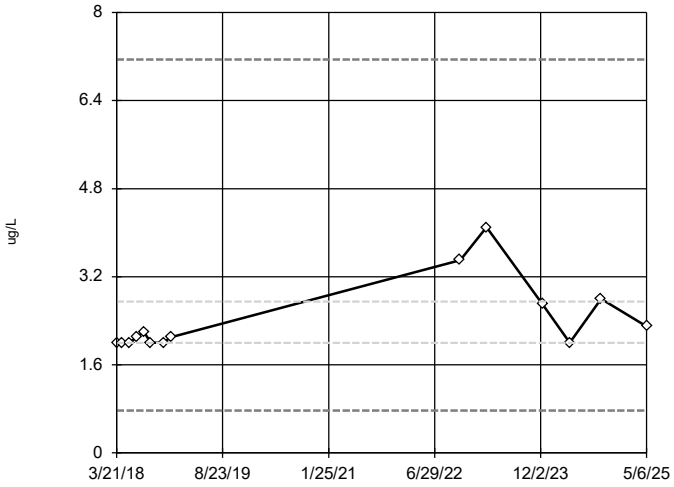
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cobalt

MW-7



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 7.144, low cutoff = 0.7697, based on IQR multiplier of 3.

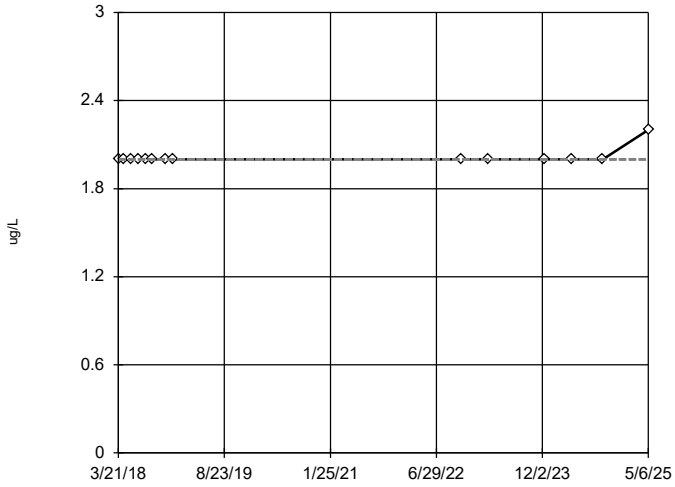
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cobalt

MW-9



n = 14

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

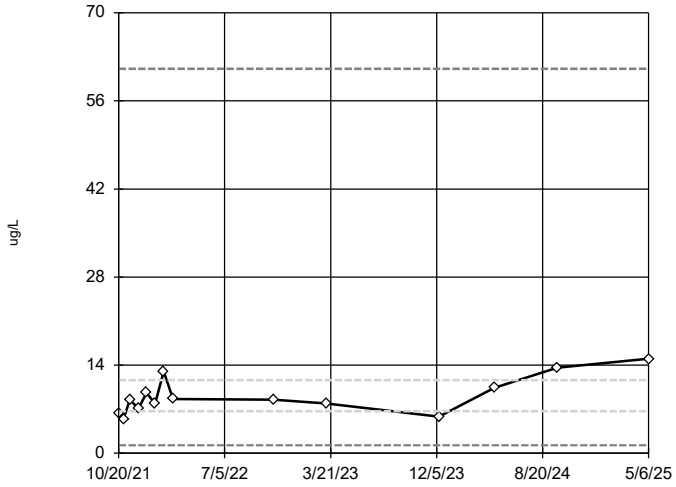
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Cobalt

MW-1R



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 61.1, low cutoff = 1.273, based on IQR multiplier of 3.

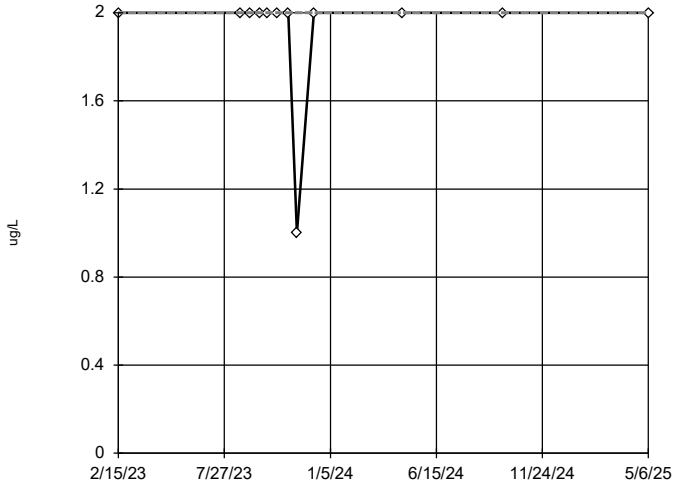
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cobalt

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

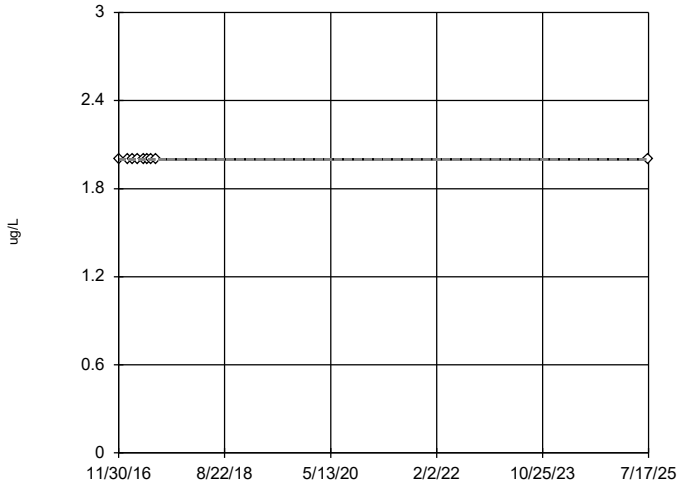
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

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Cobalt

MW-4



n = 9

No outliers found. Tukey's method selected by user.

All values are the same.

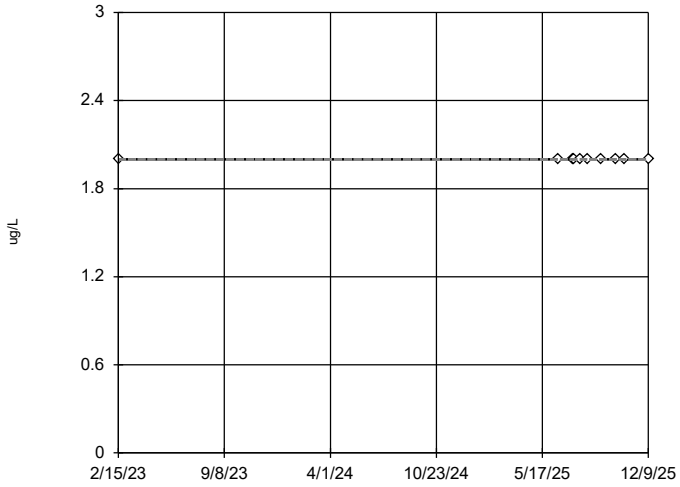
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cobalt

NE-3



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

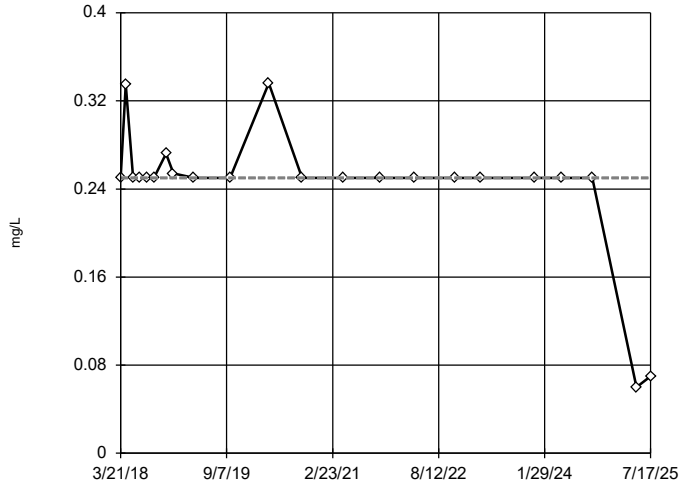
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-2 (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

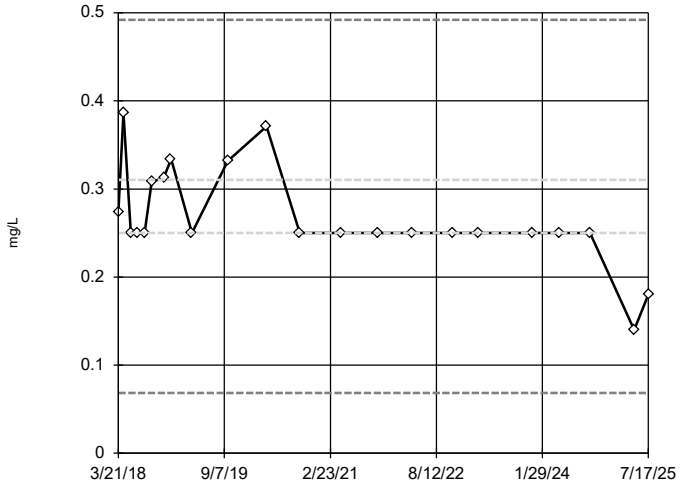
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-3 (bg)



n = 22

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.492, low cutoff = 0.0685, based on IQR multiplier of 3.

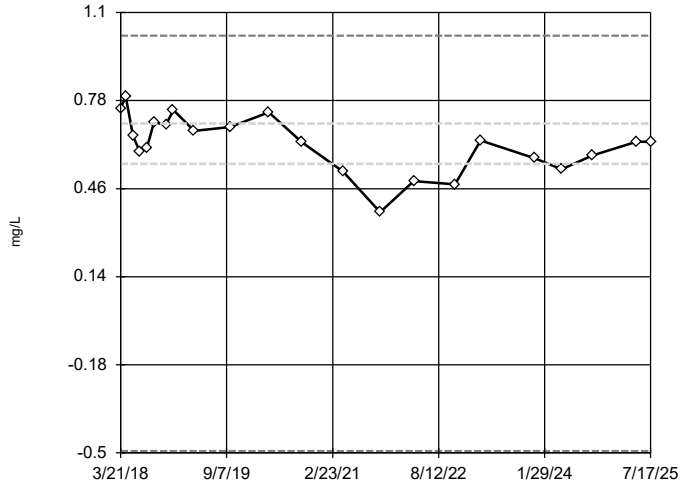
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-7



n = 22

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 1.016, low cutoff = -0.4937, based on IQR multiplier of 3.

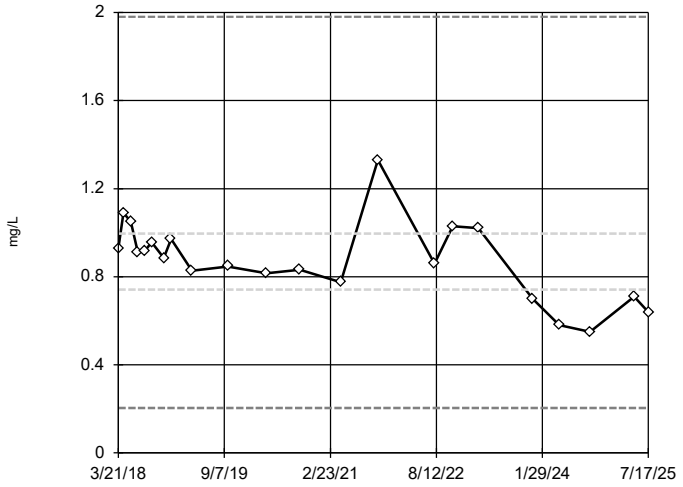
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-9



n = 22

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

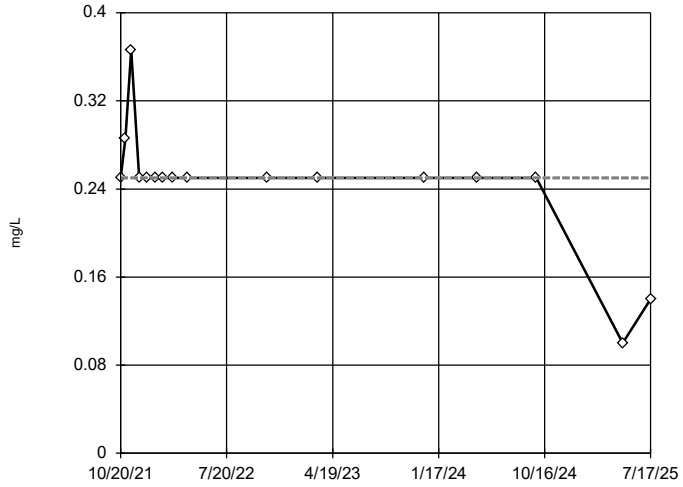
High cutoff = 1.98, low cutoff = 0.2044, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Fluoride

MW-1R



n = 16

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

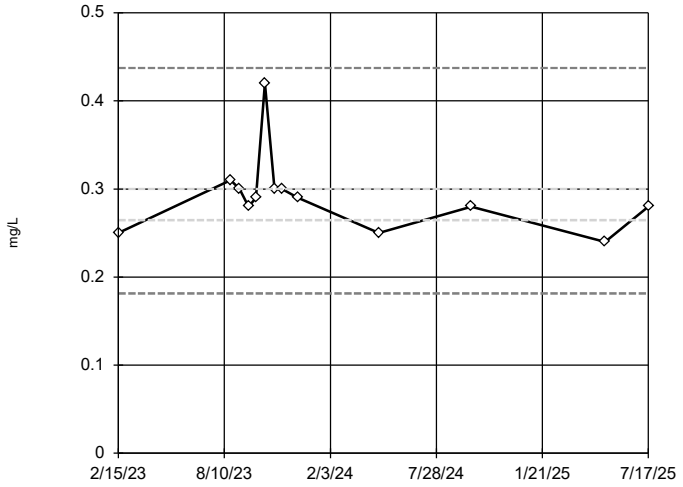
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

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Fluoride

MW-10



n = 13

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.4374, low cutoff = 0.1815, based on IQR multiplier of 3.

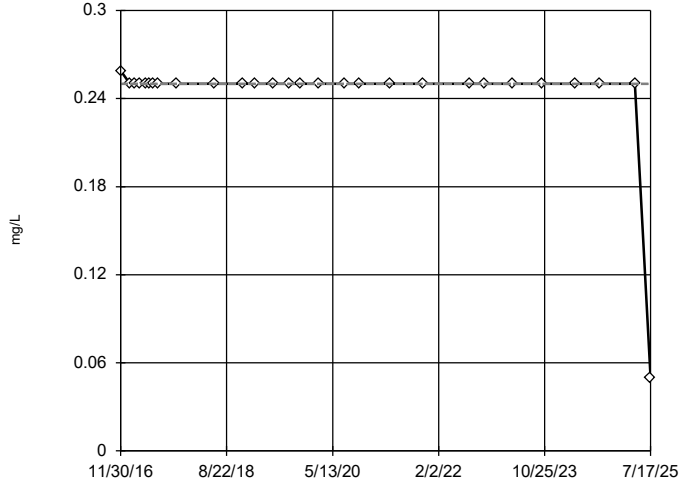
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

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Fluoride

MW-4



n = 28

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

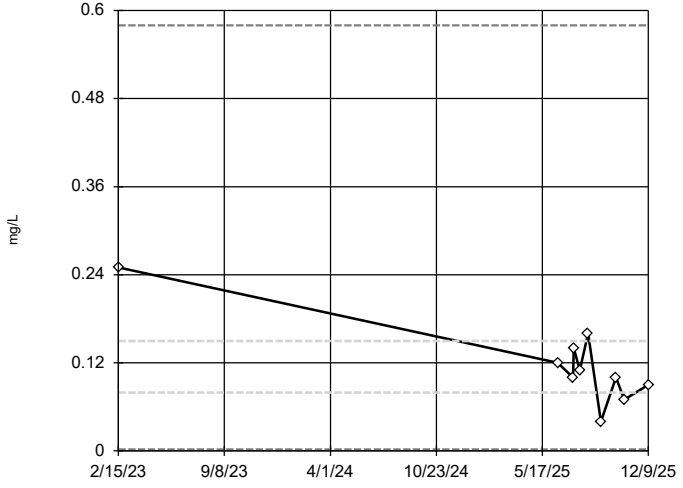
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

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Fluoride

NE-3



n = 10

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.5798, low cutoff = 0.002065, based on IQR multiplier of 3.

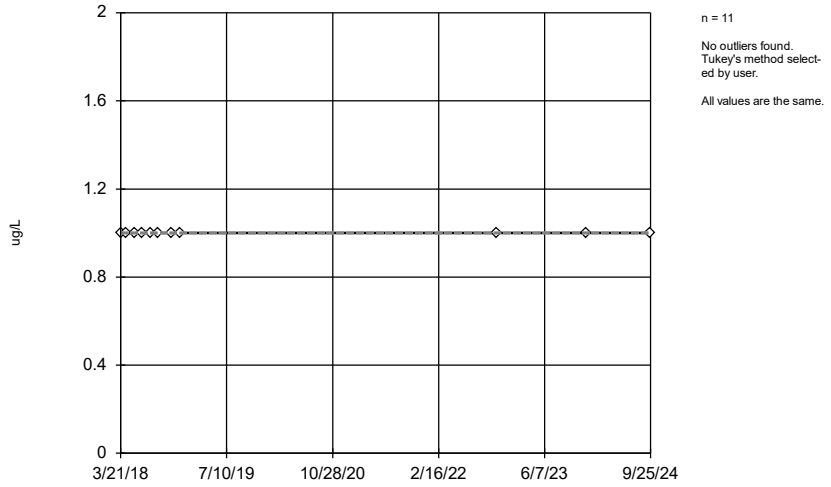
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

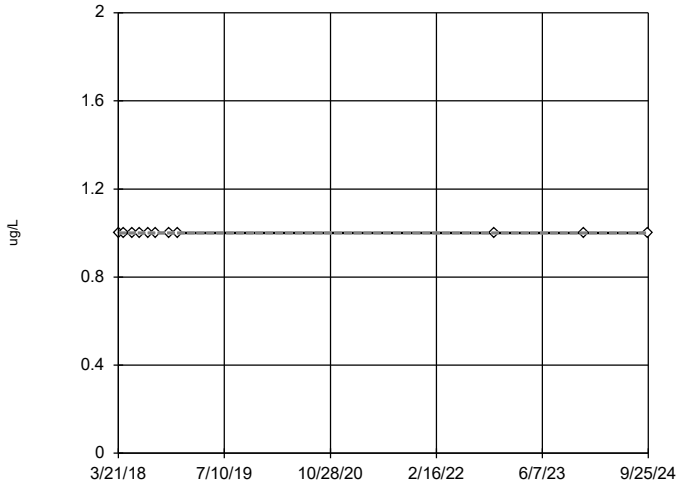
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

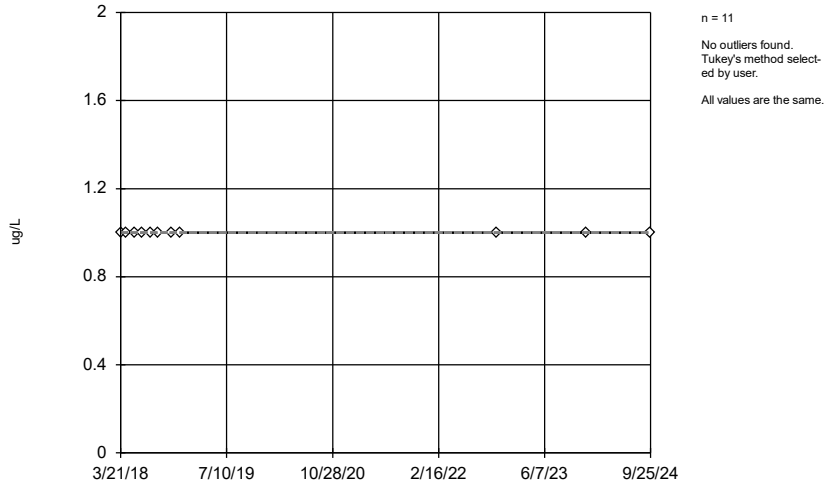
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

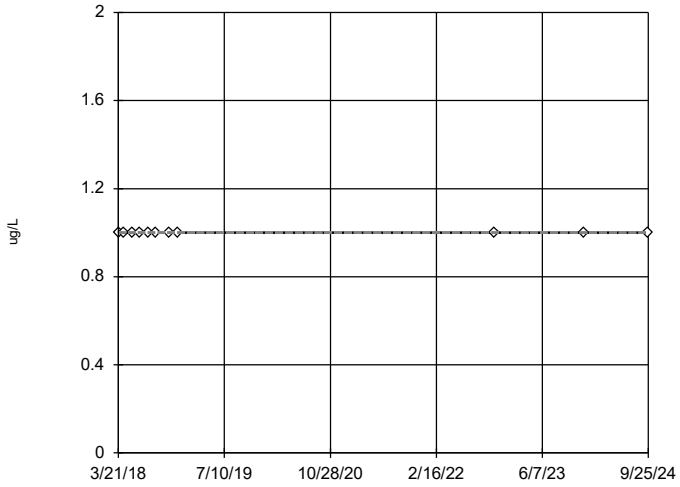
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-9



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

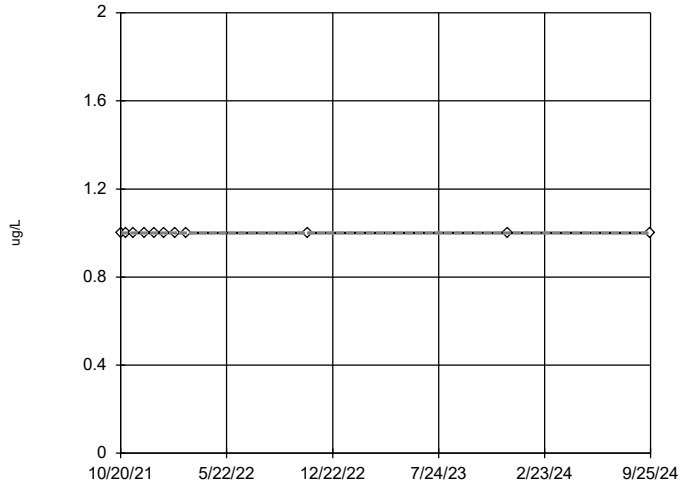
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-1R



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

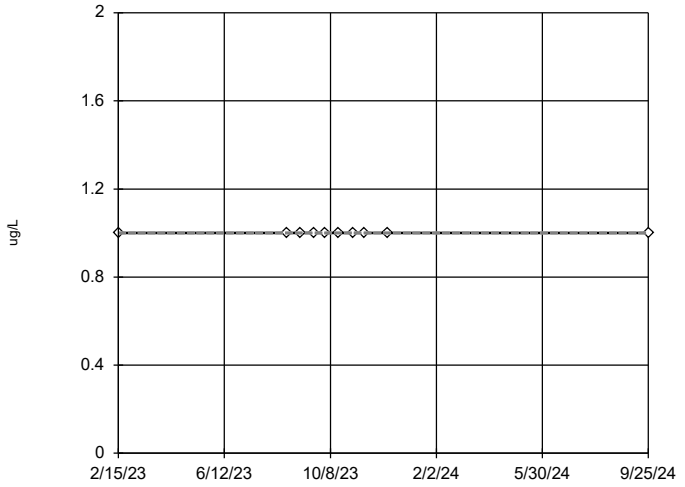
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SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-10



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

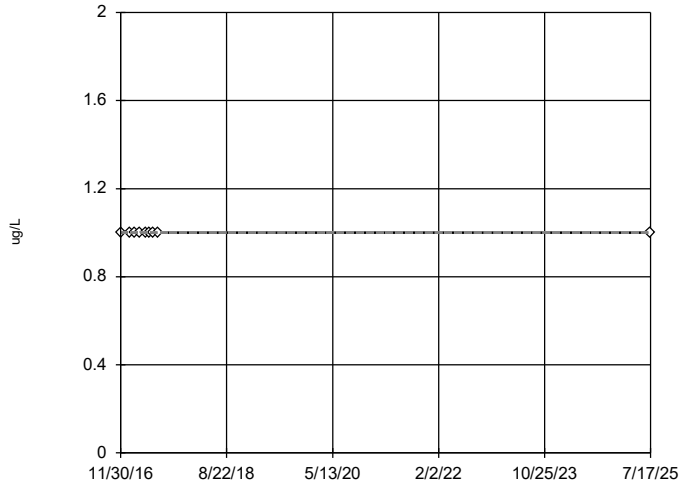
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-4



n = 9

No outliers found. Tukey's method selected by user.

All values are the same.

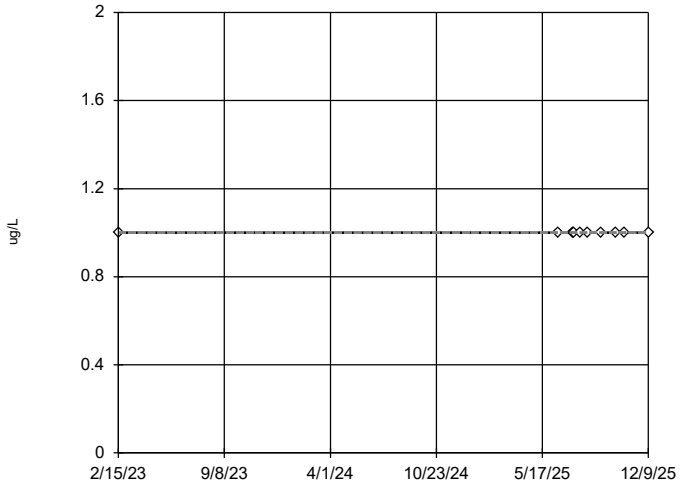
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

NE-3



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

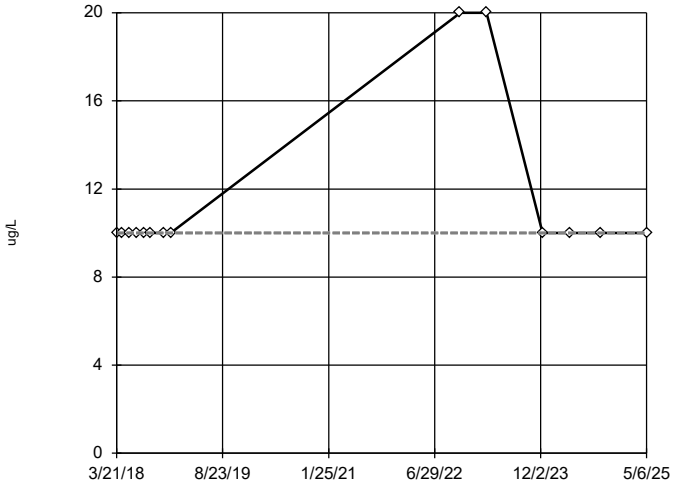
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lithium

MW-2 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

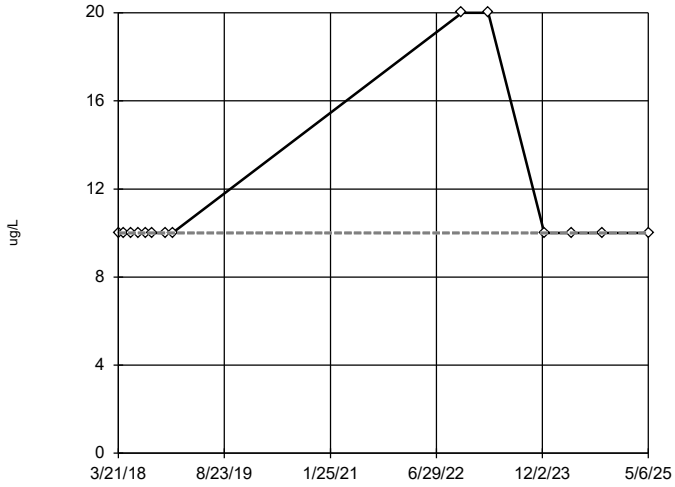
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lithium

MW-3 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

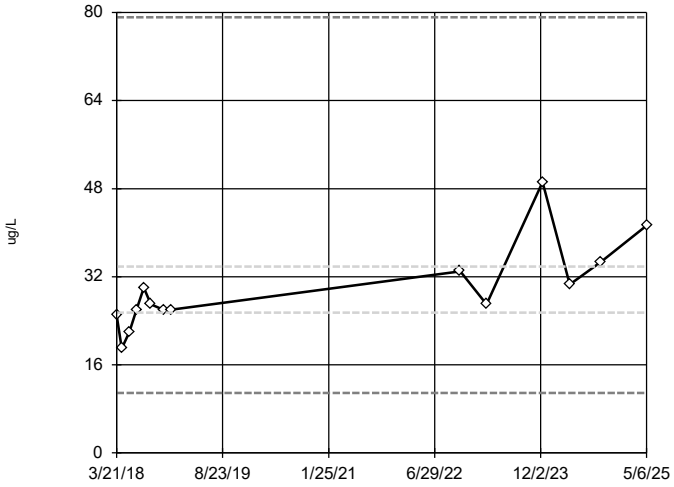
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

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Lithium

MW-7



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 79.13, low cutoff = 10.9, based on IQR multiplier of 3.

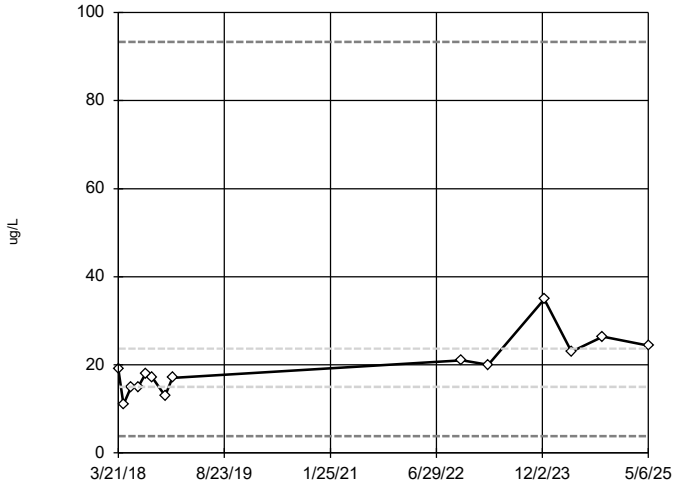
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

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Lithium

MW-9



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 93.32, low cutoff = 3.808, based on IQR multiplier of 3.

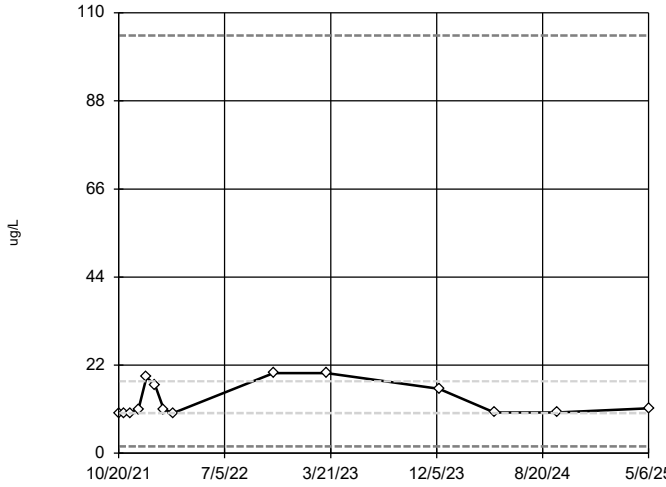
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

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Lithium

MW-1R



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

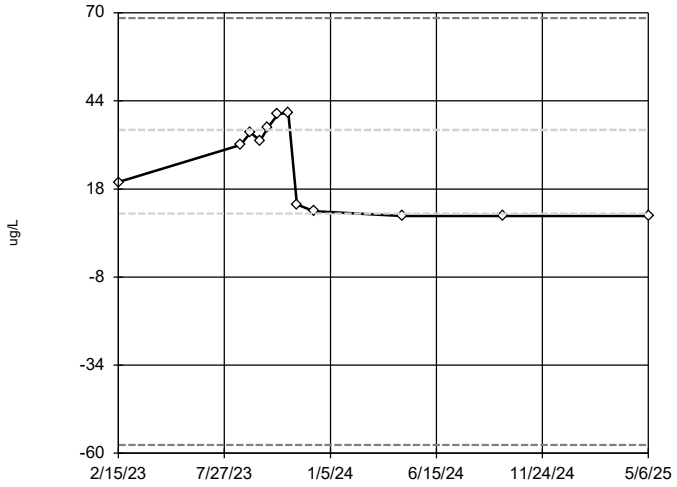
High cutoff = 104.3, low cutoff = 1.723, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
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Lithium

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

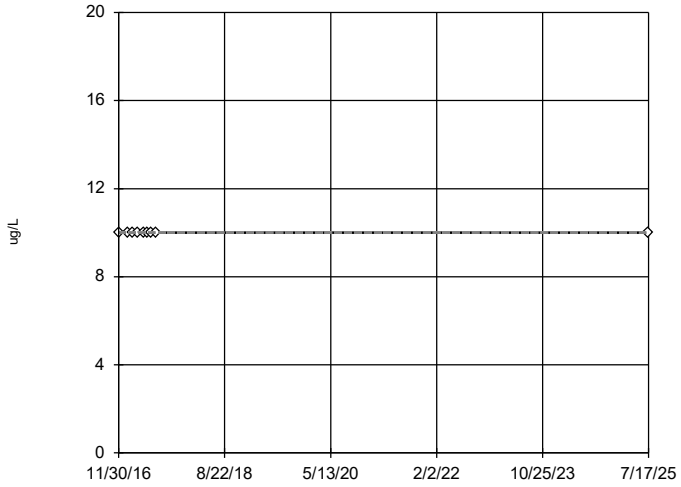
High cutoff = 68.44, low cutoff = -57.55, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
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Lithium

MW-4



n = 9

No outliers found. Tukey's method selected by user.

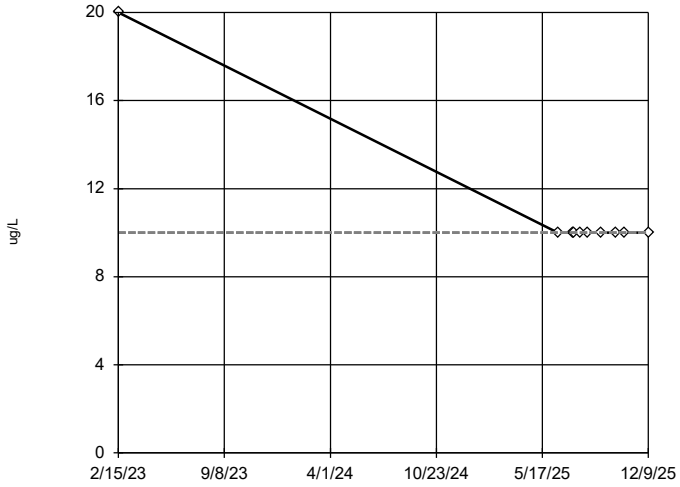
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lithium

NE-3



n = 10

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

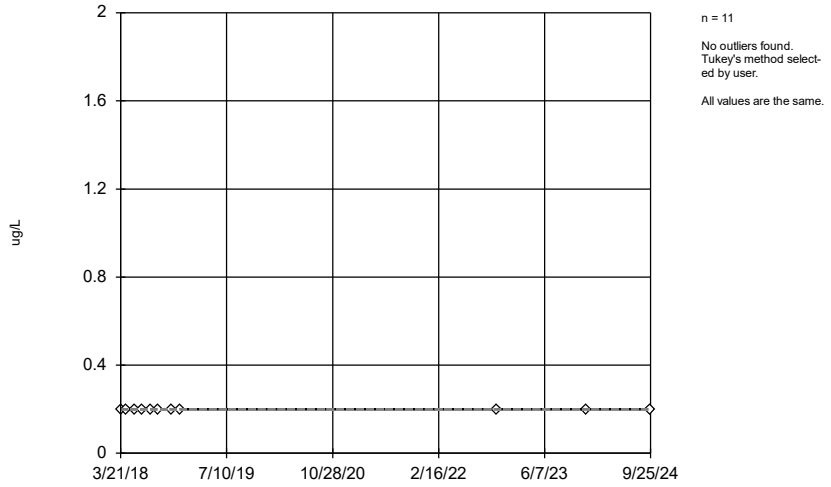
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

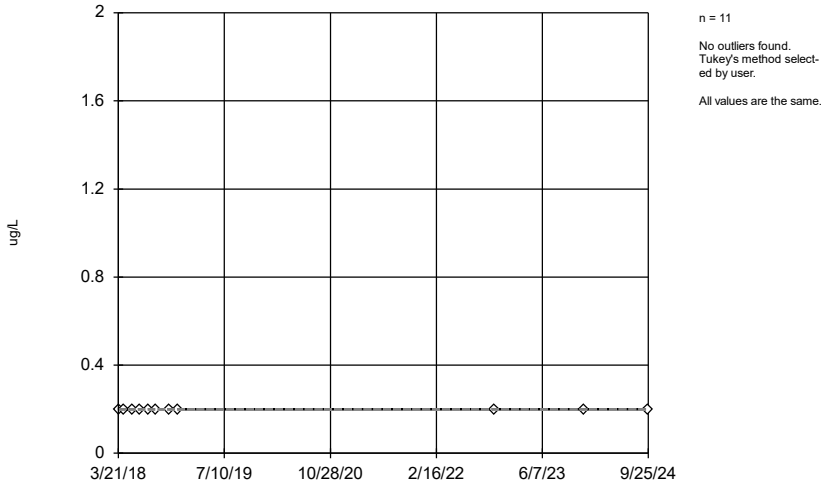
Tukey's Outlier Screening Analysis Run 1/26/2026 11:42 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

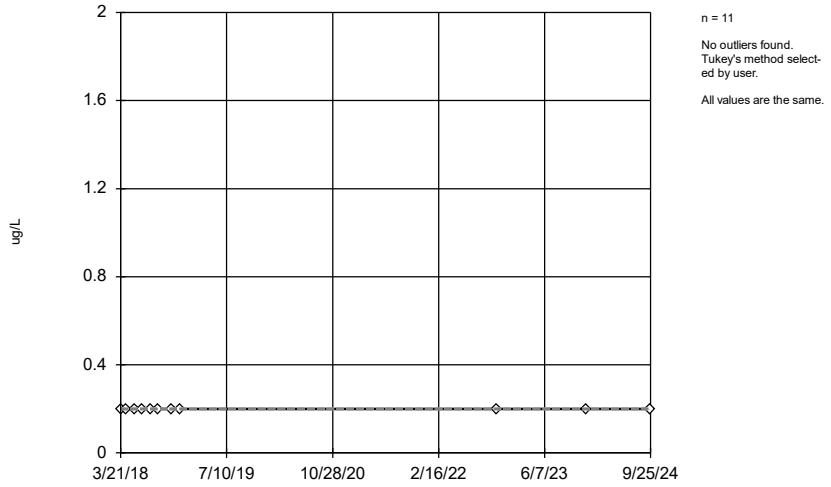
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

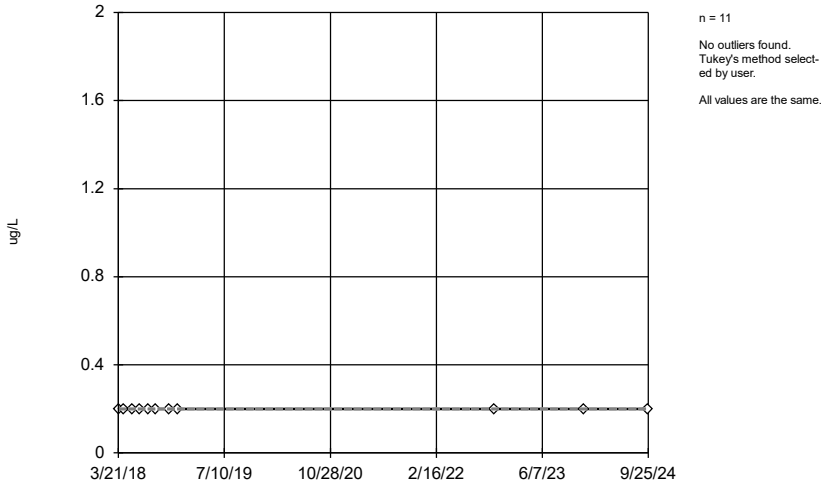
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-9



n = 11

No outliers found. Tukey's method selected by user.

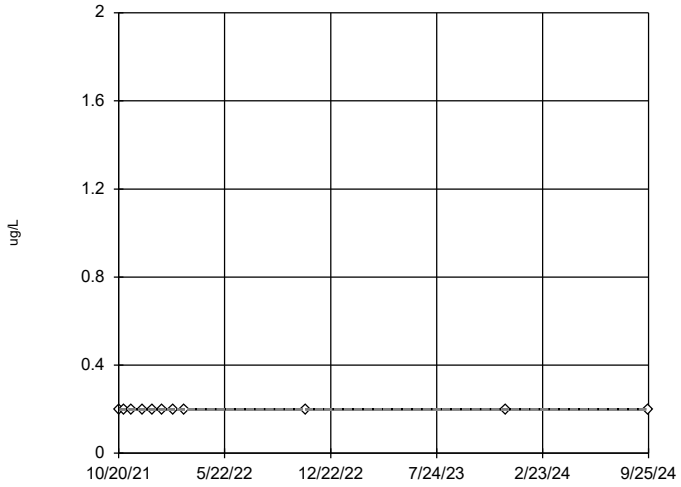
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Mercury

MW-1R



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

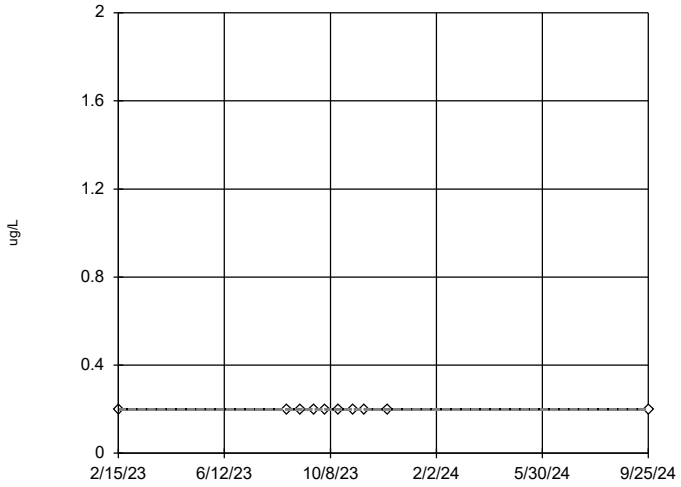
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-10



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

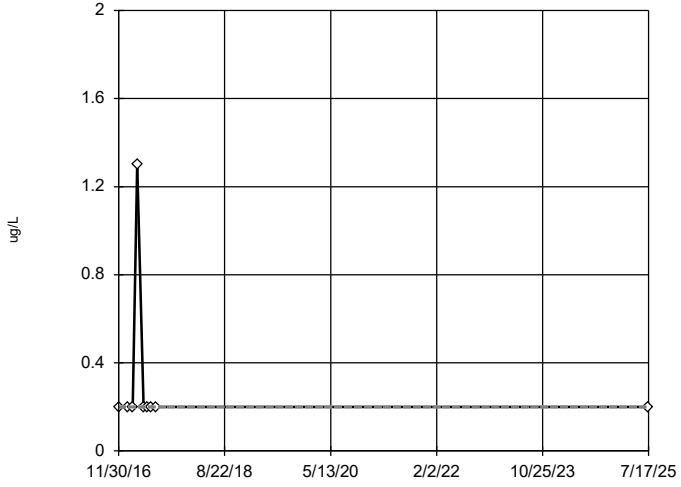
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-4



n = 9

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

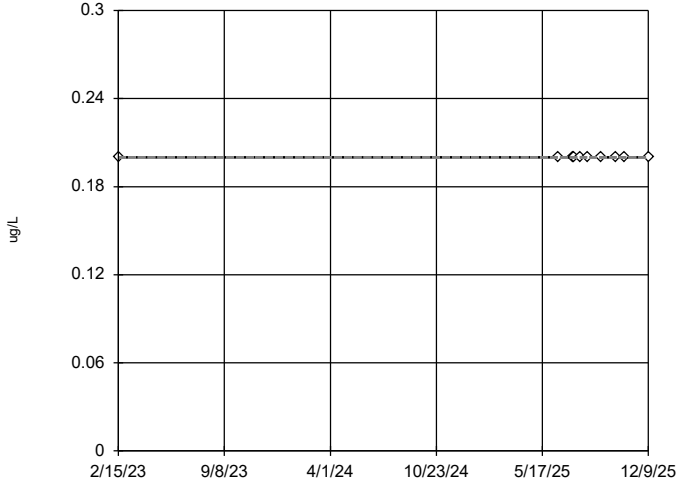
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

NE-3



n = 10

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

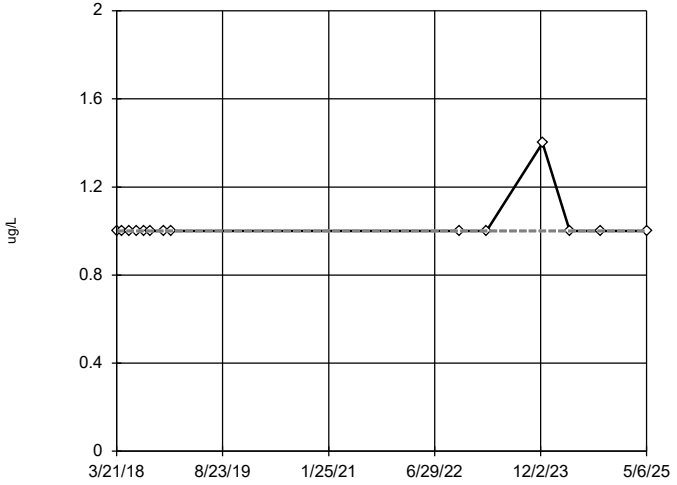
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Molybdenum

MW-2 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

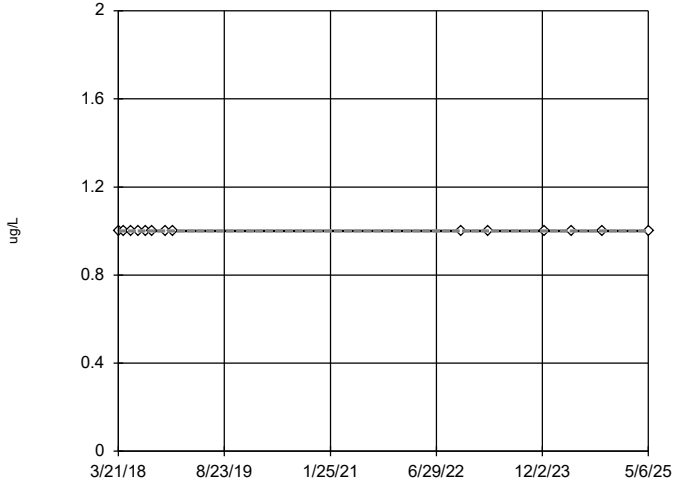
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Molybdenum

MW-3 (bg)



n = 14

No outliers found. Tukey's method selected by user.

All values are the same.

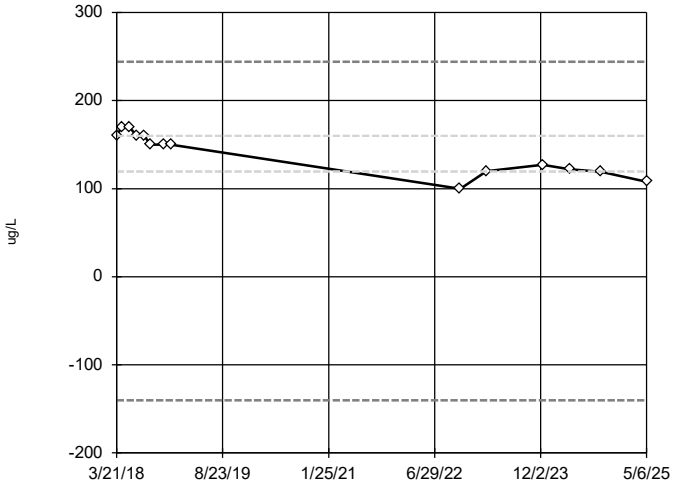
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Molybdenum

MW-7



n = 14

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 244, low cutoff = -140.3, based on IQR multiplier of 3.

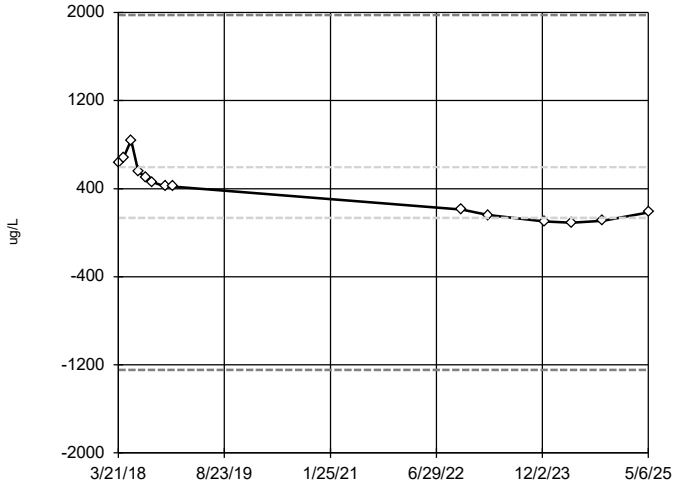
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Molybdenum

MW-9



n = 14

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

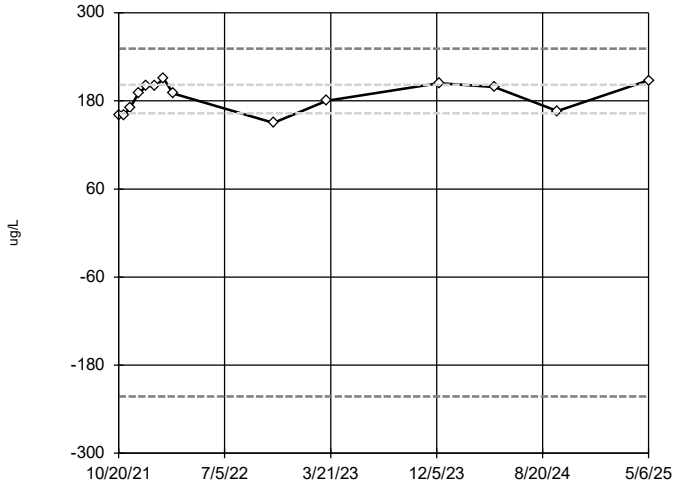
High cutoff = 1977, low cutoff = -1247, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Molybdenum

MW-1R



n = 14

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 251.2, low cutoff = -222.7, based on IQR multiplier of 3.

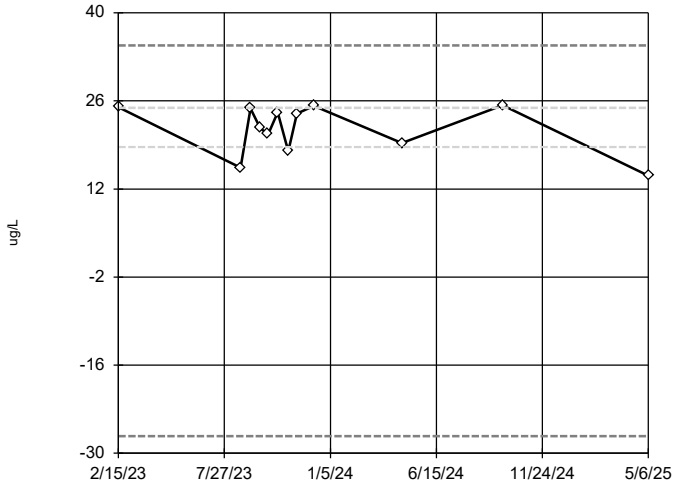
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Molybdenum

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 34.82, low cutoff = -27.27, based on IQR multiplier of 3.

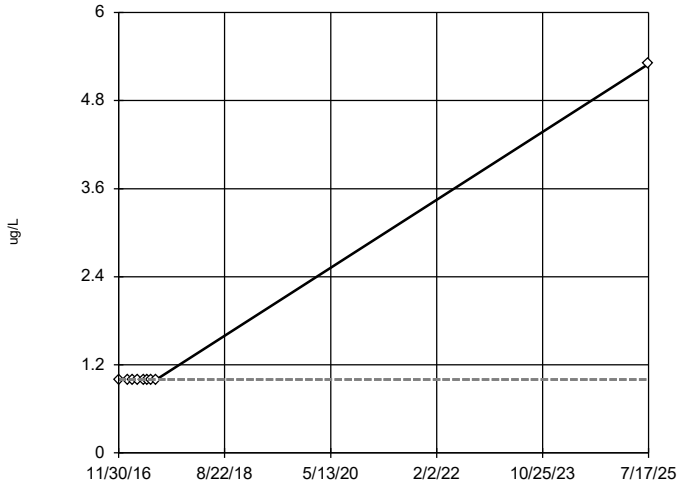
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Molybdenum

MW-4



n = 9

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

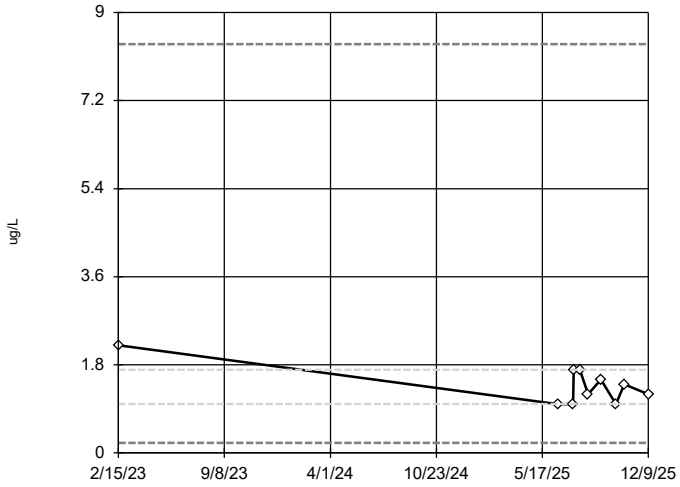
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Molybdenum

NE-3



n = 10

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 8.352, low cutoff = 0.2035, based on IQR multiplier of 3.

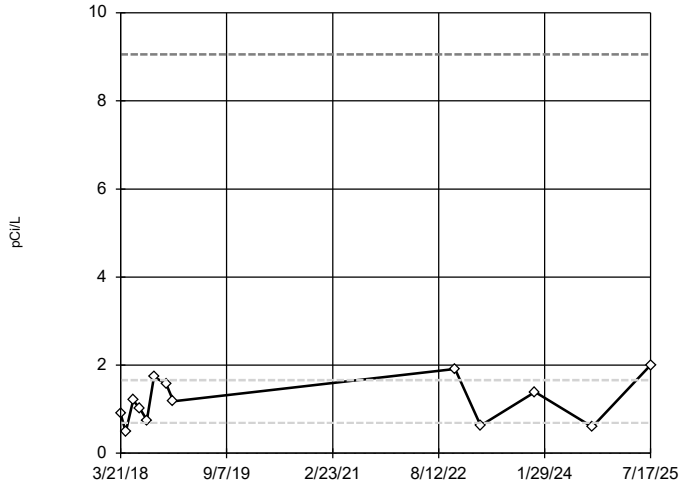
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-2 (bg)



n = 13

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 9.055, low cutoff = -0.000005644, based on IQR multiplier of 3.

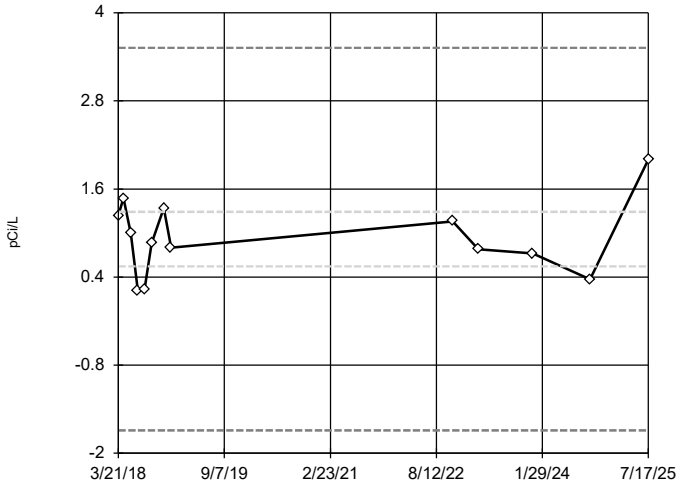
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-3 (bg)



n = 13

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 3.523, low cutoff = -1.688, based on IQR multiplier of 3.

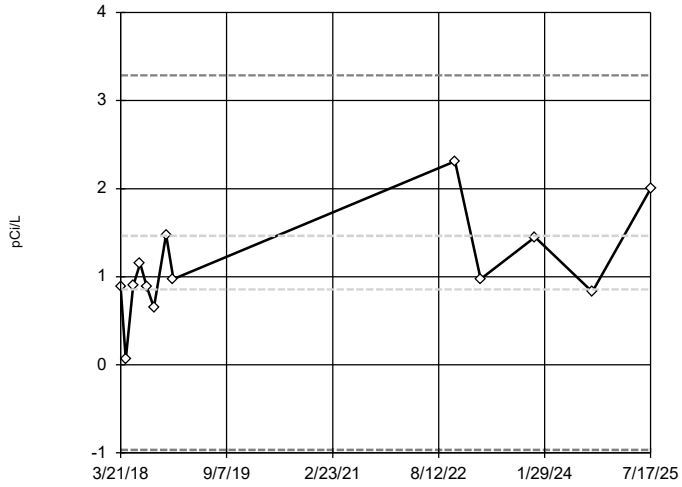
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-7



n = 13

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 3.287, low cutoff = -0.966, based on IQR multiplier of 3.

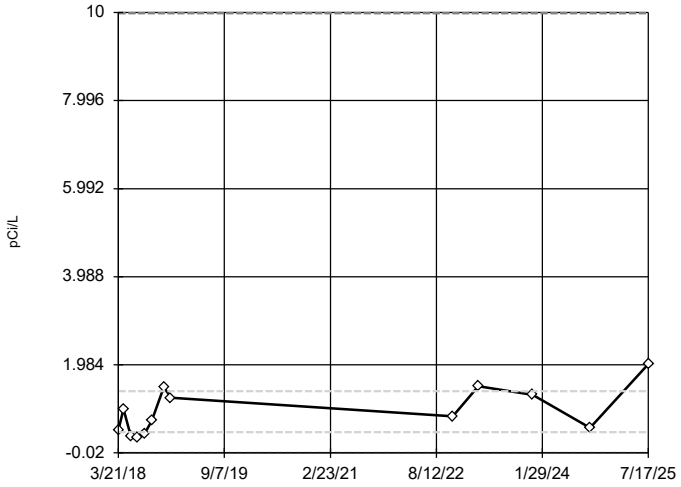
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-9



n = 13

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

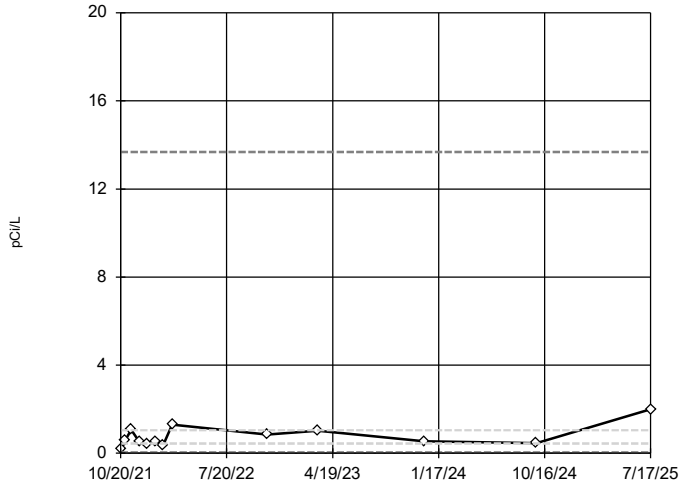
High cutoff = 9.987, low cutoff = -0.01981, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Radium

MW-1R



n = 13

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 13.68, low cutoff = 0.03405, based on IQR multiplier of 3.

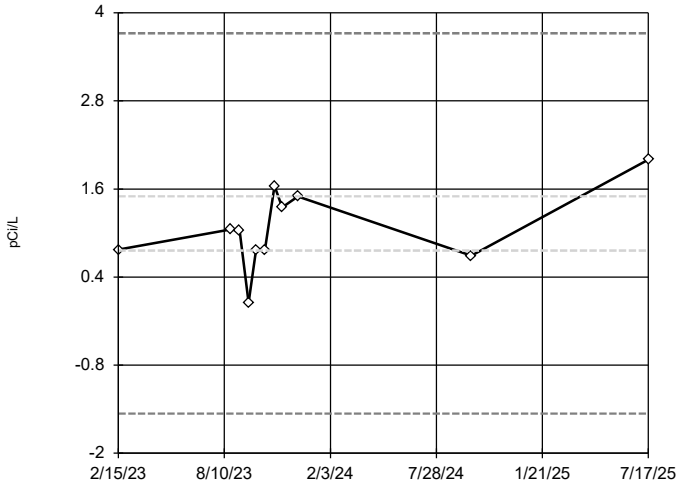
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-10



n = 11

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

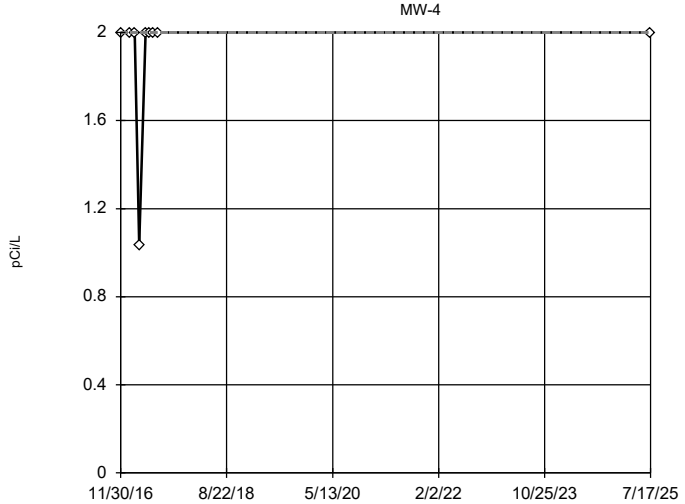
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-4



n = 9

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

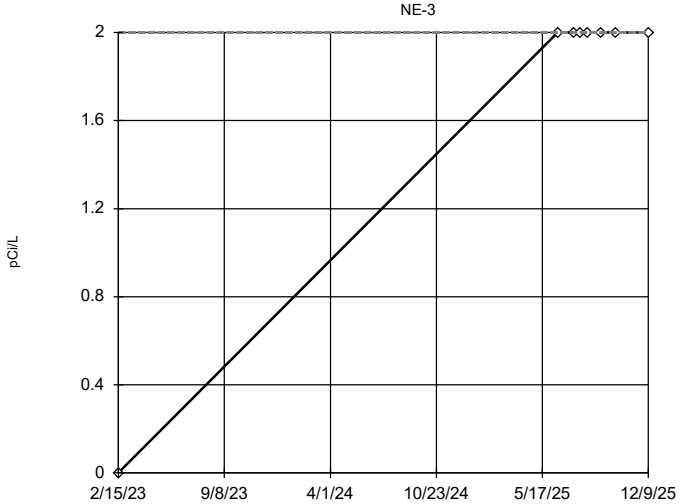
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

NE-3



n = 8

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

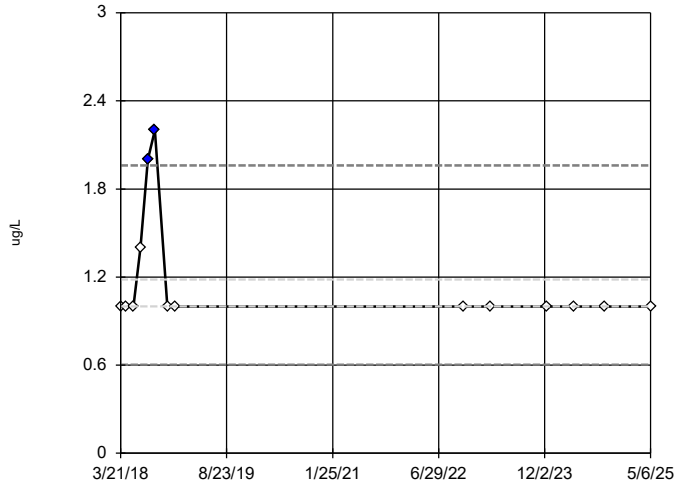
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Selenium

MW-2 (bg)



n = 14

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

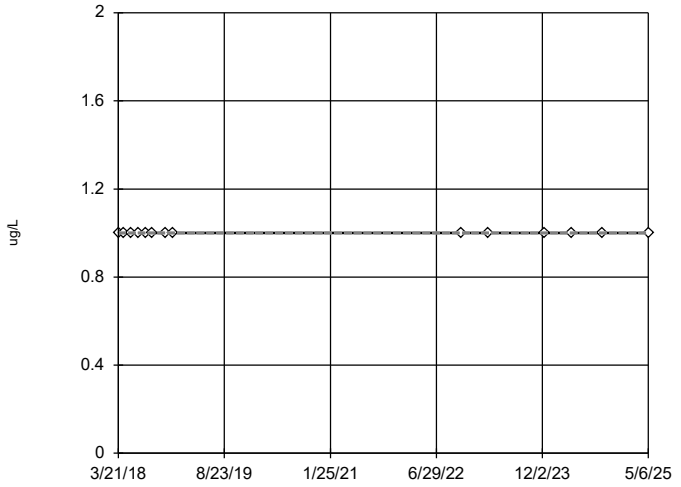
High cutoff = 1.96, low cutoff = 0.6037, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

MW-3 (bg)



n = 14

No outliers found.
Tukey's method selected by user.

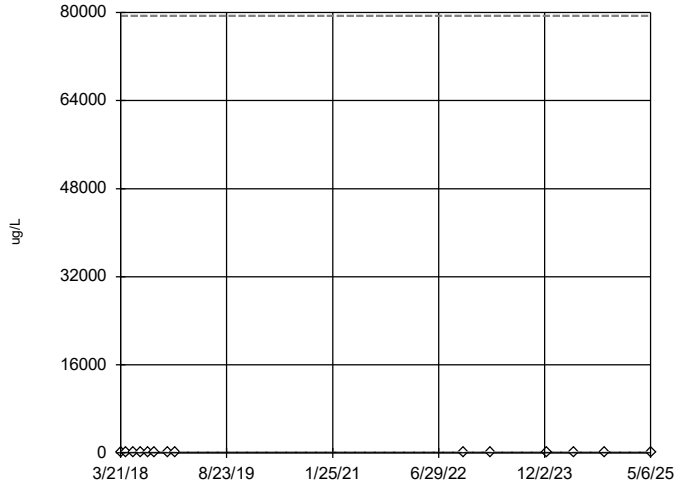
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

MW-7



n = 14

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

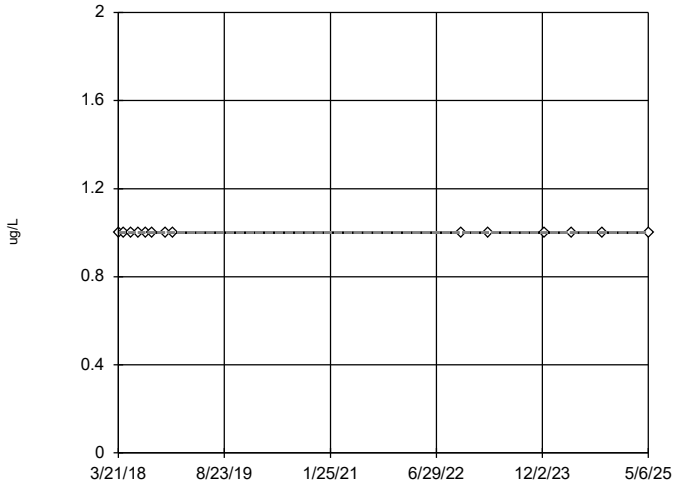
High cutoff = 79389, low cutoff = 0.00112, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

MW-9



n = 14

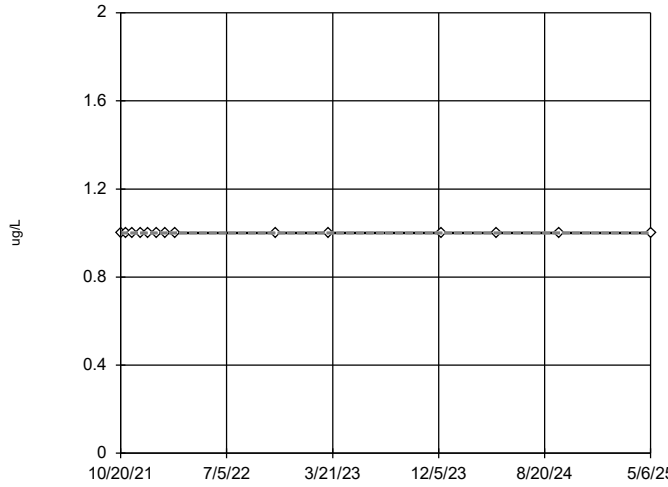
No outliers found.
Tukey's method selected by user.

All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Selenium

MW-1R



n = 14

No outliers found. Tukey's method selected by user.

All values are the same.

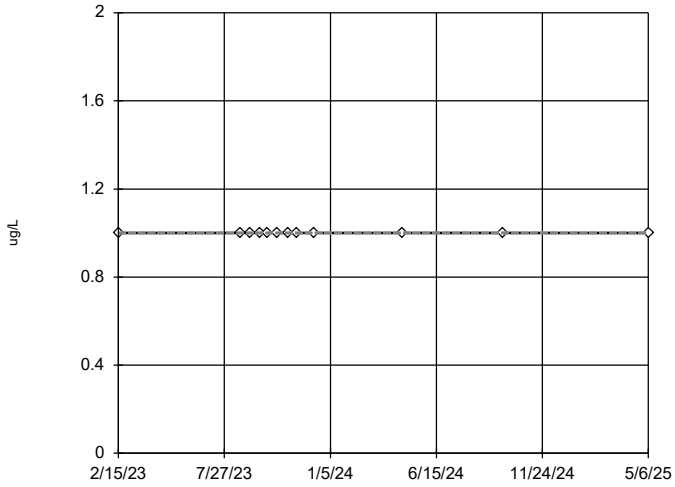
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

MW-10



n = 12

No outliers found. Tukey's method selected by user.

All values are the same.

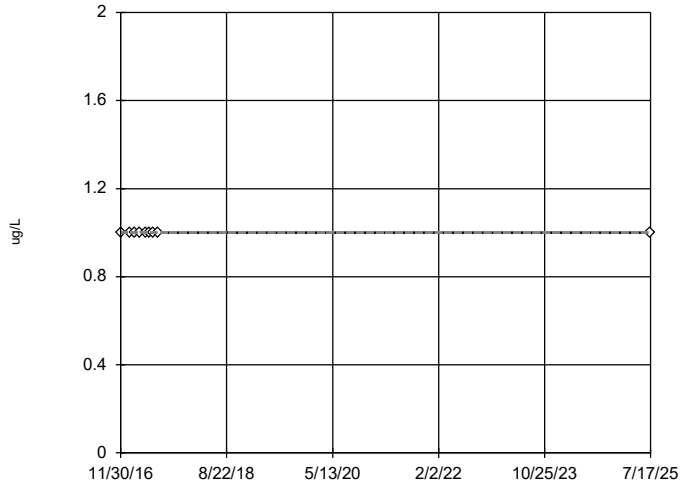
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

MW-4



n = 9

No outliers found. Tukey's method selected by user.

All values are the same.

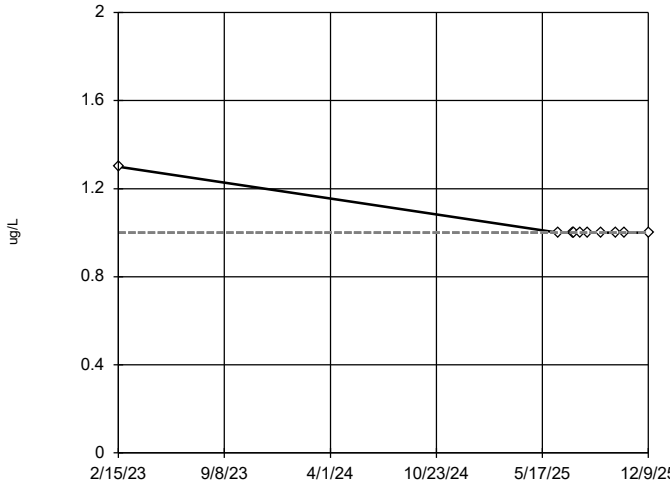
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

NE-3



n = 10

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

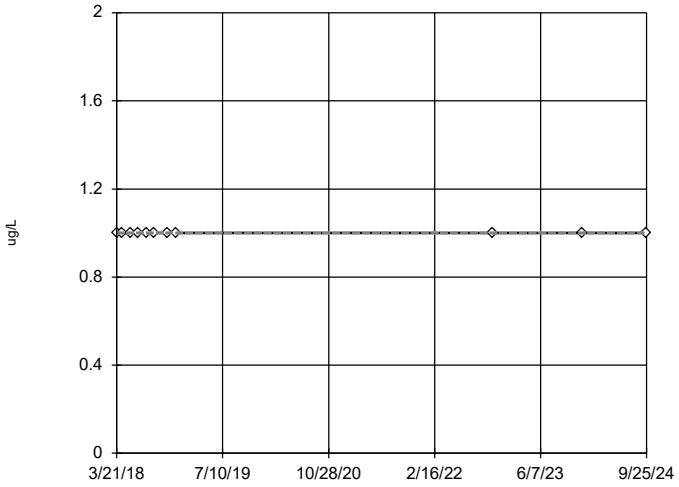
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

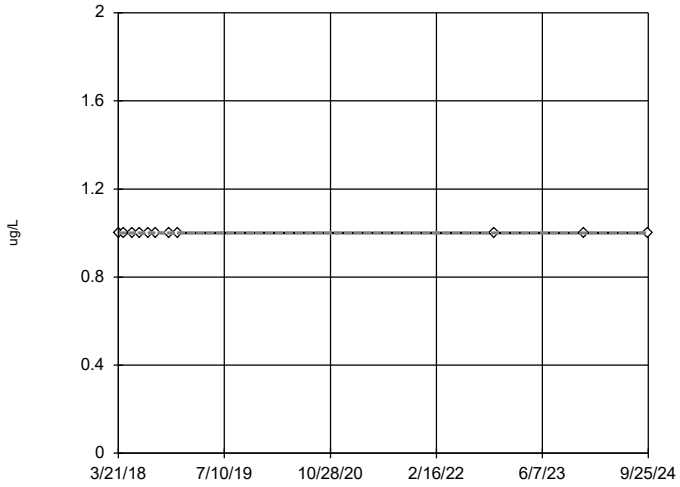
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

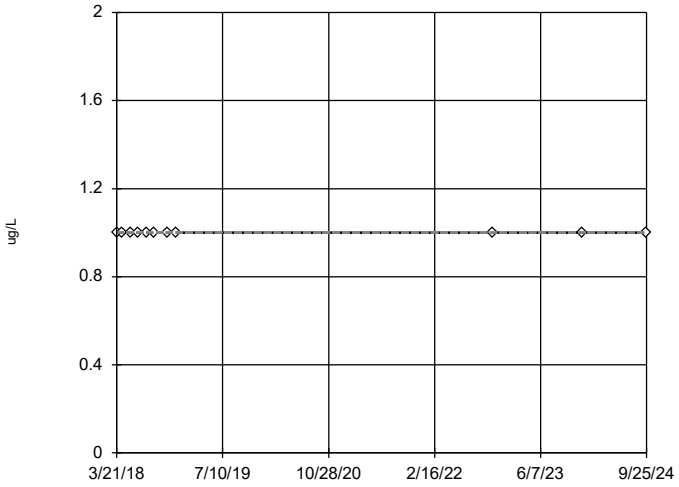
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

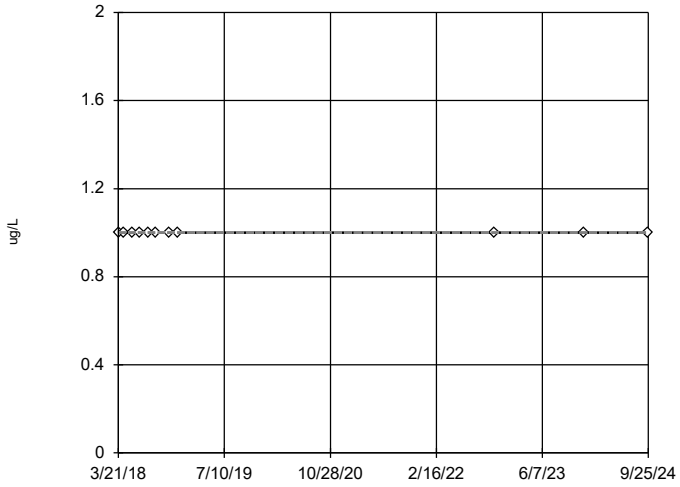
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-9



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

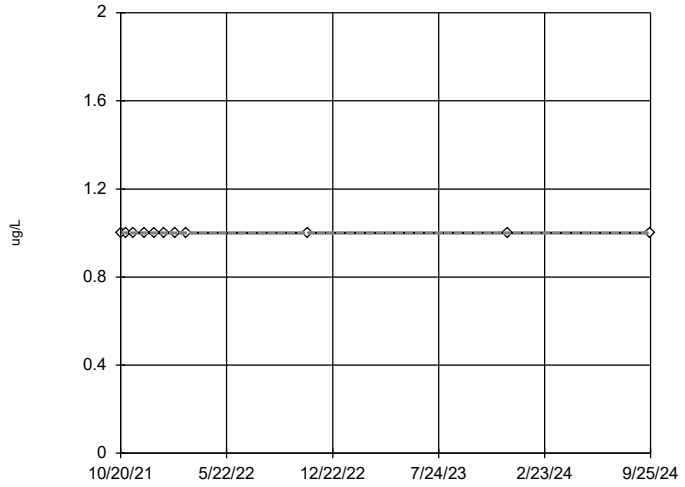
Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-1R



n = 11

No outliers found.
Tukey's method select-
ed by user.

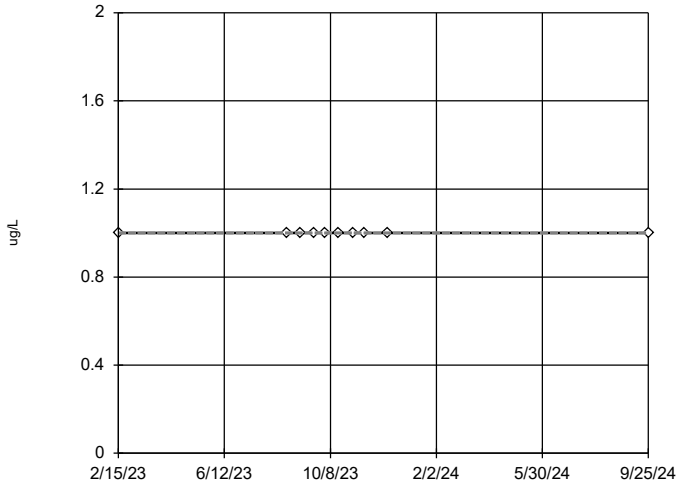
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-10



n = 10

No outliers found.
Tukey's method select-
ed by user.

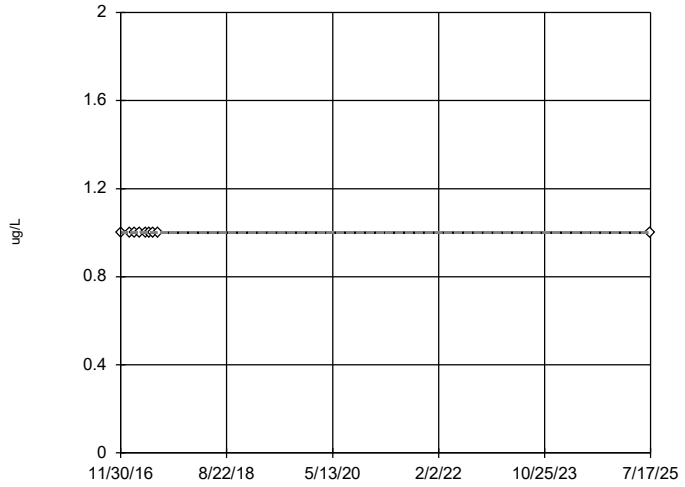
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-4



n = 9

No outliers found.
Tukey's method select-
ed by user.

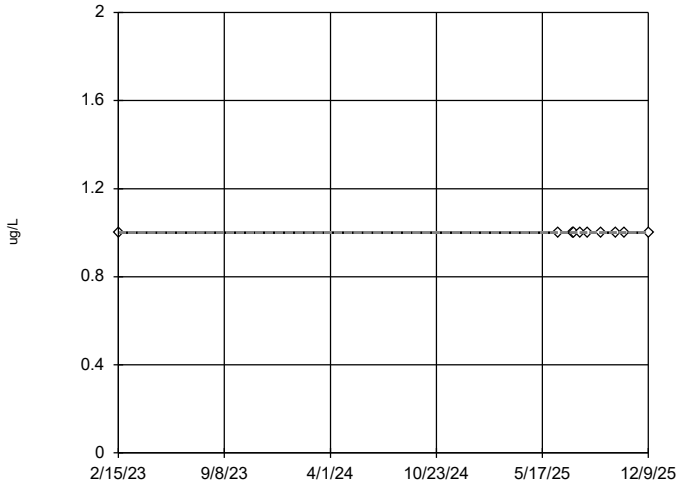
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

NE-3



n = 10

No outliers found.
Tukey's method select-
ed by user.

All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:43 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Outlier Analysis

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 1/26/2026, 11:50 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (ug/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	11	3.818	2.714	unknown	ShapiroWilk
Antimony (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	3	0	normal	ShapiroWilk
Antimony (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	3	0	normal	ShapiroWilk
Antimony (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	3	0	normal	ShapiroWilk
Antimony (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	3	0	normal	ShapiroWilk
Antimony (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	3	0	normal	ShapiroWilk
Antimony (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	3	0	normal	ShapiroWilk
Antimony (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	3	0	normal	ShapiroWilk
Arsenic (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	13	1	0	normal	ShapiroWilk
Arsenic (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	13	1	0	normal	ShapiroWilk
Arsenic (ug/L)	MW-7	No	n/a	n/a	NP	NaN	13	1	0	normal	ShapiroWilk
Arsenic (ug/L)	MW-9	n/a	n/a	n/a	NP	NaN	13	1.015	0.05547	unknown	ShapiroWilk
Arsenic (ug/L)	MW-1R	n/a	n/a	n/a	NP	NaN	12	1.067	0.1614	unknown	ShapiroWilk
Arsenic (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	6.367	1.012	ln(x)	ShapiroWilk
Arsenic (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	1	0	normal	ShapiroWilk
Arsenic (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1.55	0.1509	x^(1/3)	ShapiroWilk
Barium (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	14	179.5	38.4	x^3	ShapiroWilk
Barium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	14	91.19	12.54	x^4	ShapiroWilk
Barium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	14	56.25	16.08	ln(x)	ShapiroWilk
Barium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	14	65.46	21.47	x^2	ShapiroWilk
Barium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	14	43.57	8.603	x^3	ShapiroWilk
Barium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	139.8	12.49	x^6	ShapiroWilk
Barium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	57.33	21.66	ln(x)	ShapiroWilk
Barium (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	320.8	16.31	x^3	ShapiroWilk
Beryllium (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Beryllium (ug/L)	MW-4	n/a	n/a	n/a	NP	NaN	9	1.111	0.3333	unknown	ShapiroWilk
Beryllium (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Cadmium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	1	0	normal	ShapiroWilk
Cadmium (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Chromium (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	4	0	normal	ShapiroWilk
Chromium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	4	0	normal	ShapiroWilk
Chromium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	4	0	normal	ShapiroWilk
Chromium (ug/L)	MW-9	n/a	n/a	n/a	NP	NaN	11	4.373	1.236	unknown	ShapiroWilk
Chromium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	4	0	normal	ShapiroWilk
Chromium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	4	0	normal	ShapiroWilk
Chromium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	4	0	normal	ShapiroWilk
Chromium (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	4	0	normal	ShapiroWilk
Cobalt (ug/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	14	2.457	1.599	unknown	ShapiroWilk
Cobalt (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	14	2	0	normal	ShapiroWilk

Outlier Analysis

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 1/26/2026, 11:50 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Cobalt (ug/L)	MW-7	No	n/a	n/a	NP	NaN	14	2.414	0.6526	ln(x)	ShapiroWilk
Cobalt (ug/L)	MW-9	n/a	n/a	n/a	NP	NaN	14	2.014	0.05345	unknown	ShapiroWilk
Cobalt (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	14	9.114	2.941	ln(x)	ShapiroWilk
Cobalt (ug/L)	MW-10	n/a	n/a	n/a	NP	NaN	12	1.917	0.2887	unknown	ShapiroWilk
Cobalt (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	2	0	normal	ShapiroWilk
Cobalt (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	2	0	normal	ShapiroWilk
Fluoride (mg/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	22	0.2421	0.06259	unknown	ShapiroWilk
Fluoride (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	22	0.2676	0.05563	normal	ShapiroWilk
Fluoride (mg/L)	MW-7	No	n/a	n/a	NP	NaN	22	0.6223	0.1018	x^2	ShapiroWilk
Fluoride (mg/L)	MW-9	No	n/a	n/a	NP	NaN	22	0.8739	0.1793	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	MW-1R	n/a	n/a	n/a	NP	NaN	16	0.2433	0.05693	unknown	ShapiroWilk
Fluoride (mg/L)	MW-10	No	n/a	n/a	NP	NaN	13	0.2915	0.04432	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-4	n/a	n/a	n/a	NP	NaN	28	0.2432	0.0379	unknown	ShapiroWilk
Fluoride (mg/L)	NE-3	No	n/a	n/a	NP	NaN	10	0.118	0.05731	x^(1/3)	ShapiroWilk
Lead (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Lead (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	1	0	normal	ShapiroWilk
Lead (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Lithium (ug/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	14	11.43	3.631	unknown	ShapiroWilk
Lithium (ug/L)	MW-3 (bg)	n/a	n/a	n/a	NP	NaN	14	11.43	3.631	unknown	ShapiroWilk
Lithium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	14	29.77	7.86	ln(x)	ShapiroWilk
Lithium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	14	19.62	6.16	ln(x)	ShapiroWilk
Lithium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	14	13.26	4.128	ln(x)	ShapiroWilk
Lithium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	24.13	12.74	x^2	ShapiroWilk
Lithium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	10	0	normal	ShapiroWilk
Lithium (ug/L)	NE-3	n/a	n/a	n/a	NP	NaN	10	11	3.162	unknown	ShapiroWilk
Mercury (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	0.2	0	normal	ShapiroWilk
Mercury (ug/L)	MW-4	n/a	n/a	n/a	NP	NaN	9	0.3222	0.3667	unknown	ShapiroWilk
Mercury (ug/L)	NE-3	n/a	n/a	n/a	NP	NaN	10	0.2	9.4e-10	unknown	ShapiroWilk
Molybdenum (ug/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	14	1.029	0.1069	unknown	ShapiroWilk
Molybdenum (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	14	1	0	normal	ShapiroWilk
Molybdenum (ug/L)	MW-7	No	n/a	n/a	NP	NaN	14	140.4	23.62	x^2	ShapiroWilk
Molybdenum (ug/L)	MW-9	No	n/a	n/a	NP	NaN	14	383.2	243.5	normal	ShapiroWilk
Molybdenum (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	14	184.8	20.18	x^5	ShapiroWilk
Molybdenum (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	21.48	3.983	x^3	ShapiroWilk
Molybdenum (ug/L)	MW-4	n/a	n/a	n/a	NP	NaN	9	1.478	1.433	unknown	ShapiroWilk
Molybdenum (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1.39	0.3929	ln(x)	ShapiroWilk
Radium (pCi/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	13	1.182	0.5118	x^(1/3)	ShapiroWilk
Radium (pCi/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	13	0.9377	0.5127	normal	ShapiroWilk
Radium (pCi/L)	MW-7	No	n/a	n/a	NP	NaN	13	1.119	0.5814	normal	ShapiroWilk
Radium (pCi/L)	MW-9	No	n/a	n/a	NP	NaN	13	0.9347	0.5282	x^(1/3)	ShapiroWilk

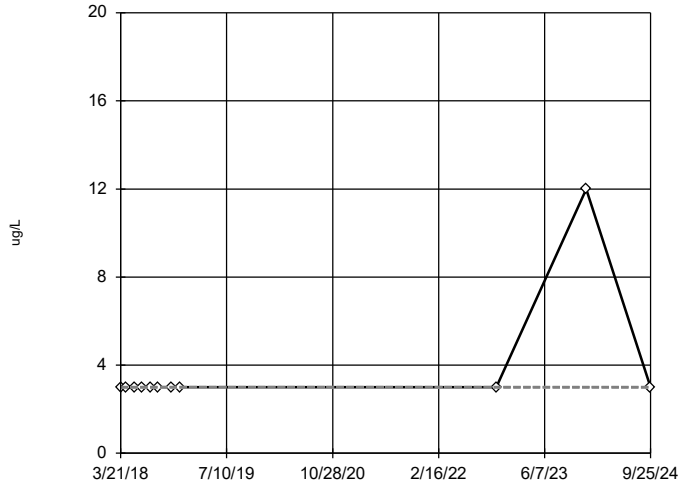
Outlier Analysis

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 1/26/2026, 11:50 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Radium (pCi/L)	MW-1R	No	n/a	n/a	NP	NaN	13	0.7632	0.4878	ln(x)	ShapiroWilk
Radium (pCi/L)	MW-10	n/a	n/a	n/a	NP	NaN	11	1.056	0.5396	unknown	ShapiroWilk
Radium (pCi/L)	MW-4	n/a	n/a	n/a	NP	NaN	9	1.893	0.3213	unknown	ShapiroWilk
Radium (pCi/L)	NE-3	n/a	n/a	n/a	NP	NaN	8	1.75	0.7071	unknown	ShapiroWilk
Selenium (ug/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	12	1.033	0.1155	unknown	ShapiroWilk
Selenium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	14	1	0	normal	ShapiroWilk
Selenium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	14	16.41	19.51	ln(x)	ShapiroWilk
Selenium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	14	1	0	normal	ShapiroWilk
Selenium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	14	1	0	normal	ShapiroWilk
Selenium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	1	0	normal	ShapiroWilk
Selenium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	1	0	normal	ShapiroWilk
Selenium (ug/L)	NE-3	n/a	n/a	n/a	NP	NaN	10	1.03	0.09487	unknown	ShapiroWilk
Thallium (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-7	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-9	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	11	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-10	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk
Thallium (ug/L)	MW-4	No	n/a	n/a	NP	NaN	9	1	0	normal	ShapiroWilk
Thallium (ug/L)	NE-3	No	n/a	n/a	NP	NaN	10	1	0	normal	ShapiroWilk

Antimony

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

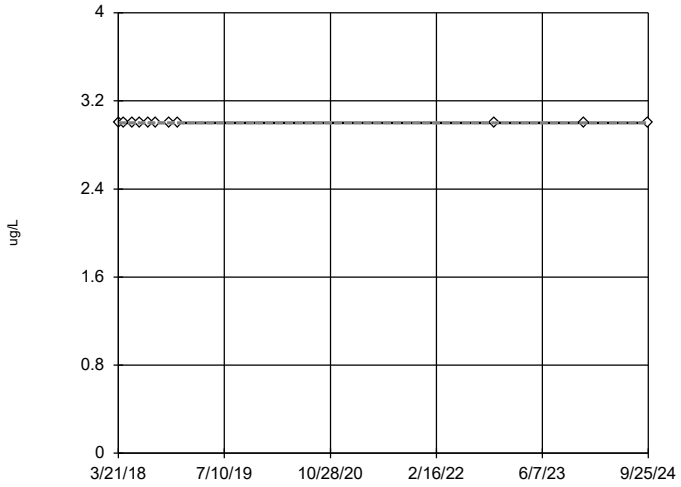
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Antimony

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

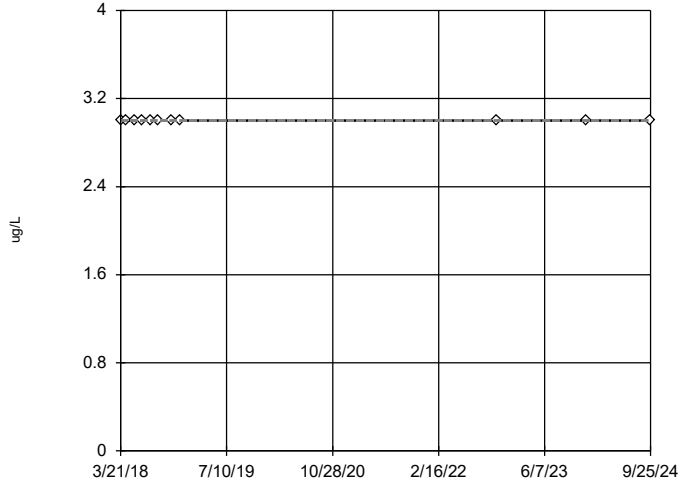
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

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Antimony

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

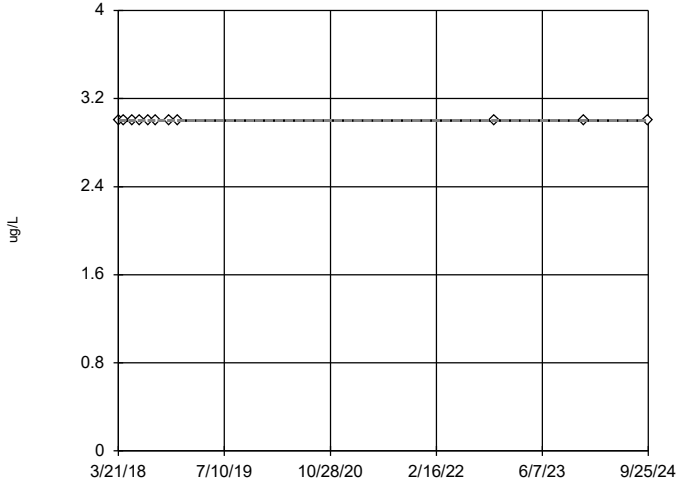
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

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Antimony

MW-9



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

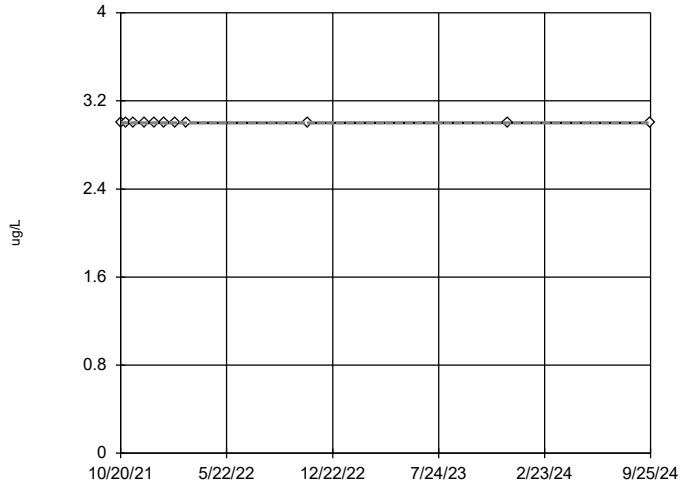
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

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Antimony

MW-1R



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

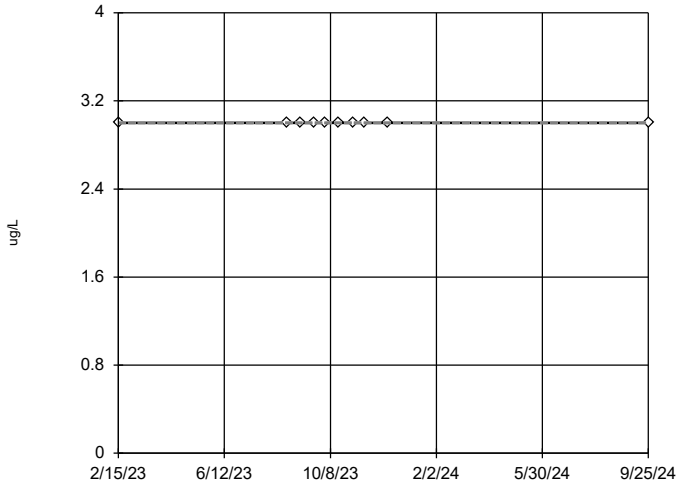
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

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Antimony

MW-10



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

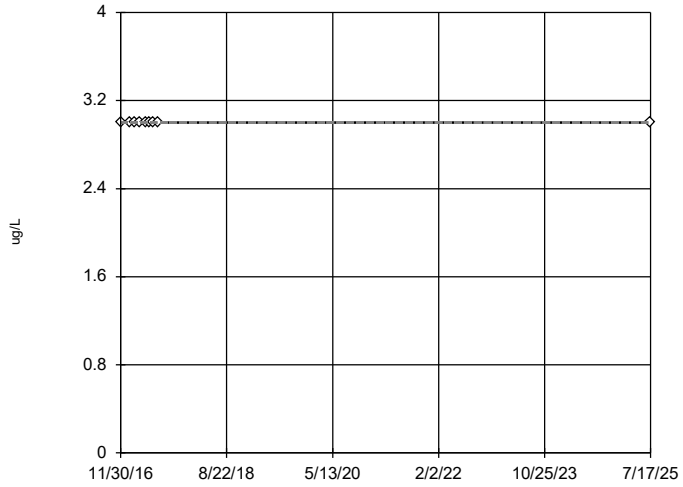
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Antimony

MW-4



n = 9

No outliers found. Tukey's method selected by user.

All values are the same.

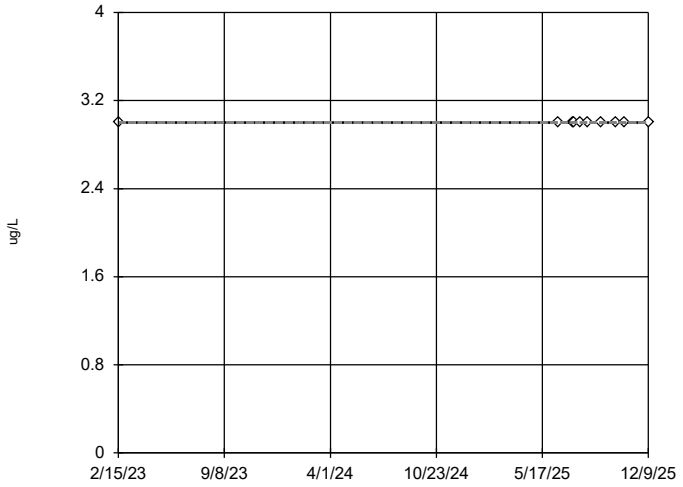
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Antimony

NE-3



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

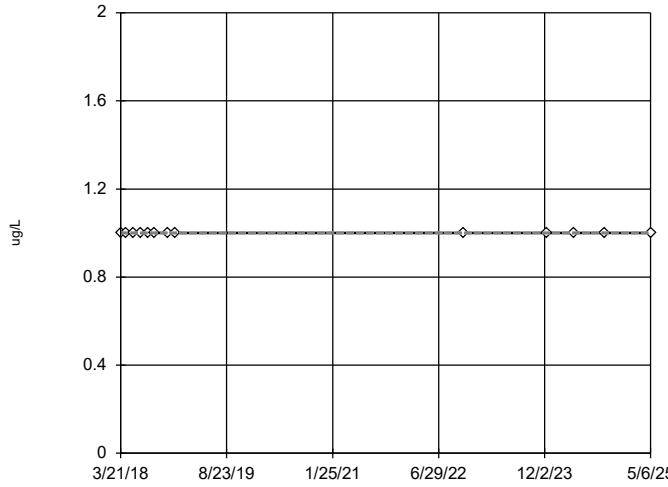
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Arsenic

MW-2 (bg)



n = 13

No outliers found. Tukey's method selected by user.

All values are the same.

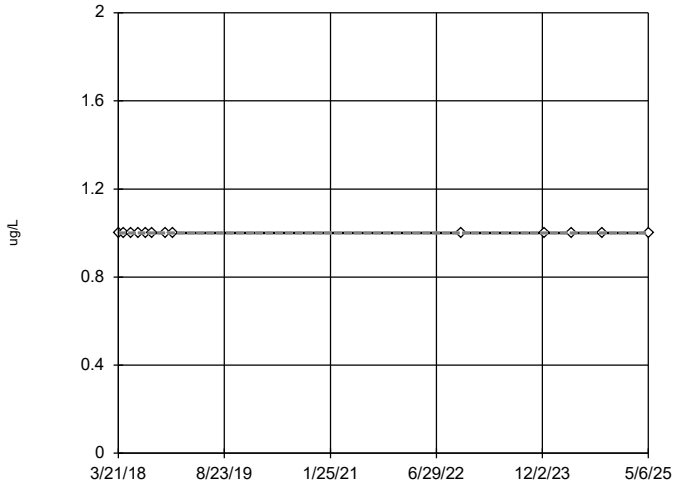
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Arsenic

MW-3 (bg)



n = 13

No outliers found. Tukey's method selected by user.

All values are the same.

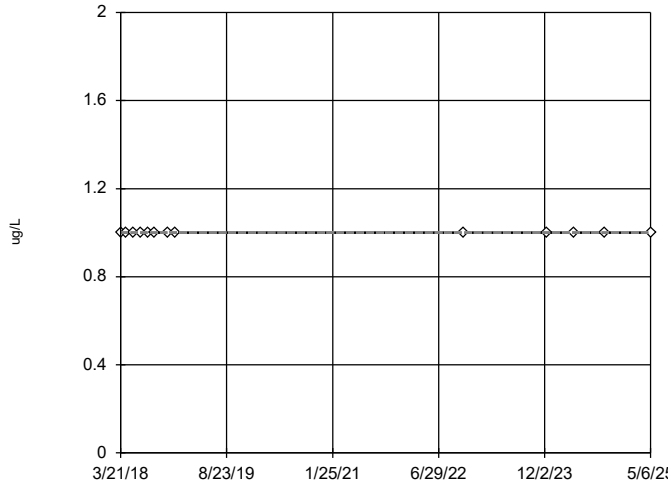
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

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Arsenic

MW-7



n = 13

No outliers found. Tukey's method selected by user.

All values are the same.

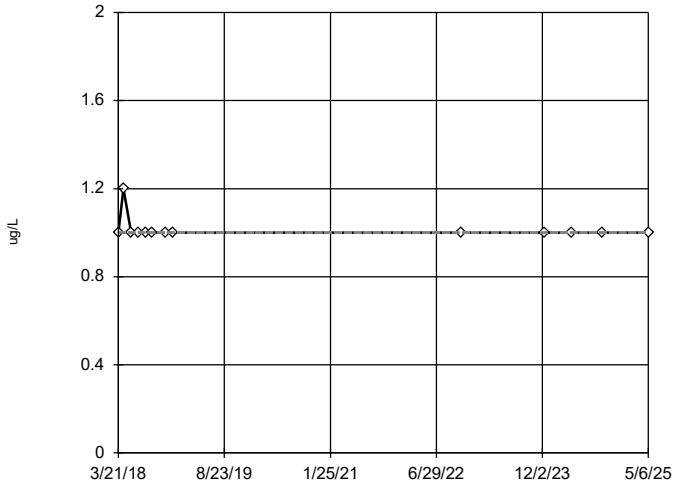
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

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Arsenic

MW-9



n = 13

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

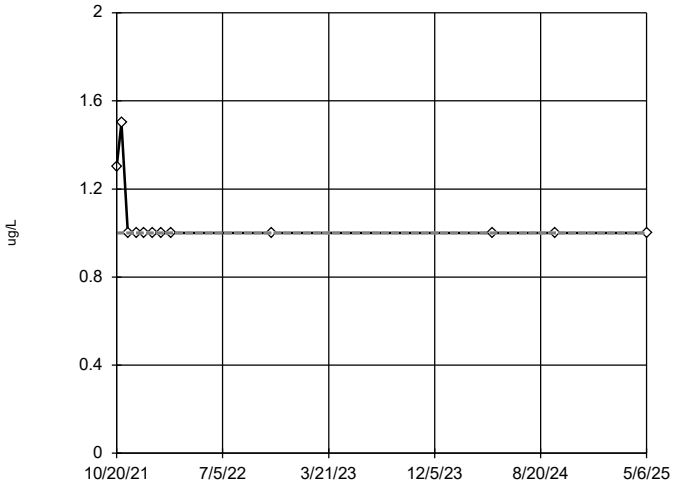
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Arsenic

MW-1R



n = 12

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

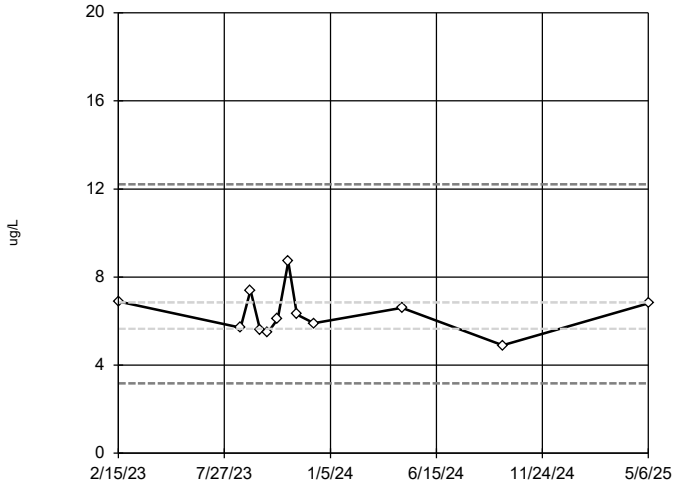
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action
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Arsenic

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

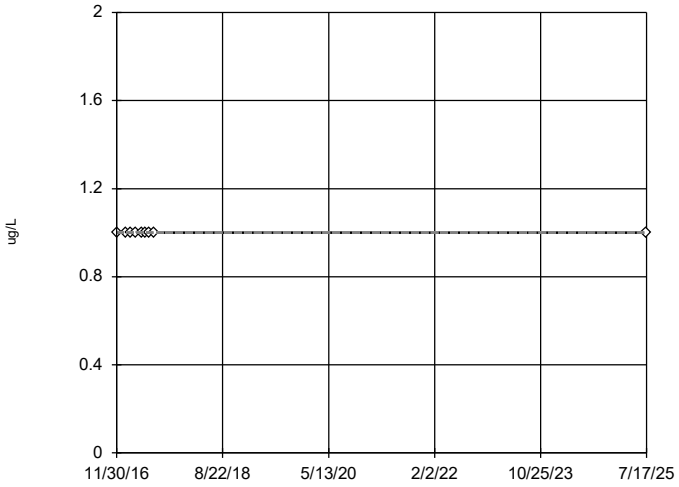
High cutoff = 12.21, low cutoff = 3.17, based on IQR multiplier of 3.

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Arsenic

MW-4



n = 9

No outliers found. Tukey's method selected by user.

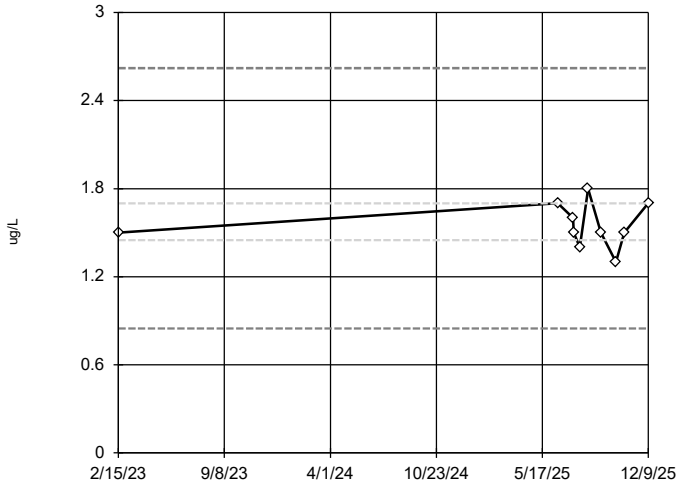
All values are the same.

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Arsenic

NE-3



n = 10

No outliers found. Tukey's method selected by user.

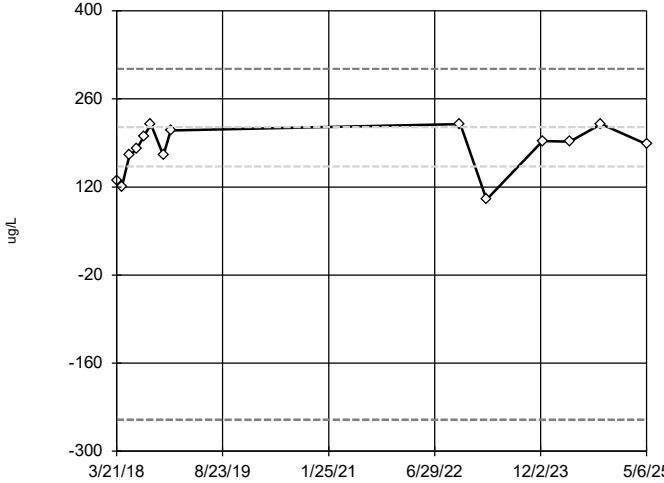
Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 2.621, low cutoff = 0.8475, based on IQR multiplier of 3.

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SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Barium

MW-2 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 307.8, low cutoff = -250.1, based on IQR multiplier of 3.

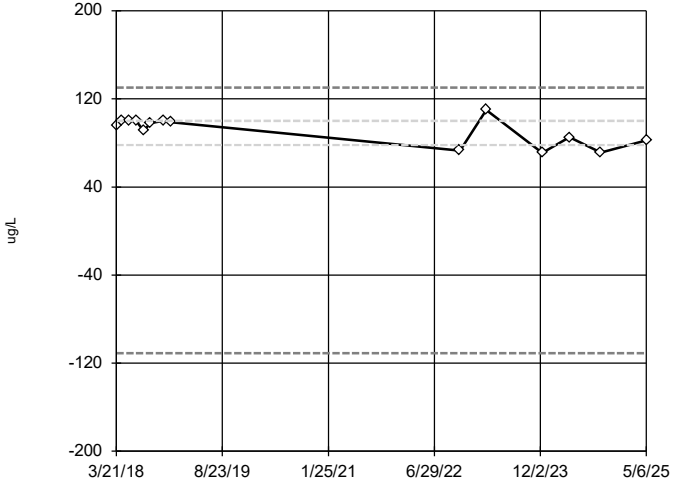
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-3 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 130.3, low cutoff = -110.9, based on IQR multiplier of 3.

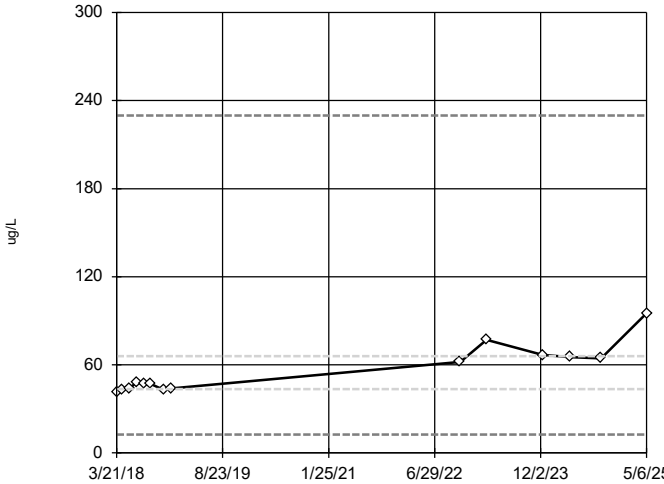
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-7



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 229.8, low cutoff = 12.48, based on IQR multiplier of 3.

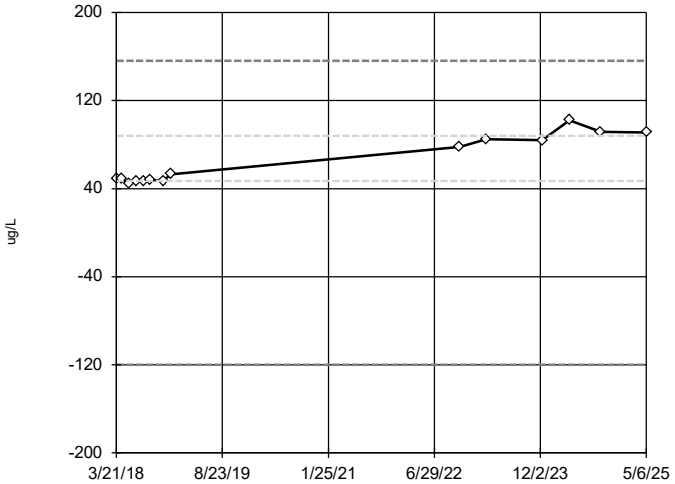
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-9



n = 14

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

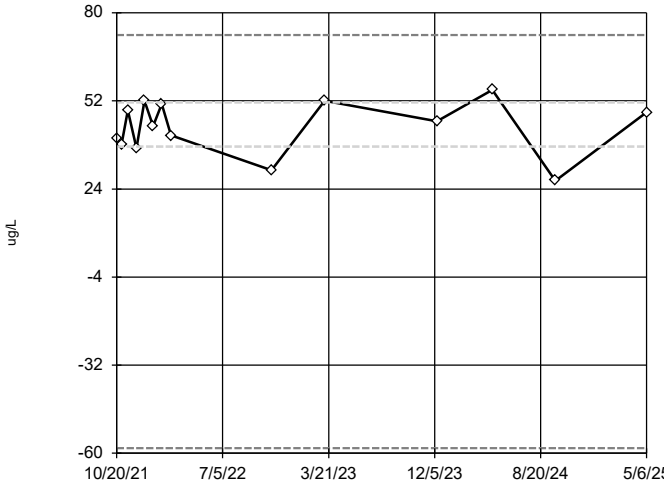
High cutoff = 156, low cutoff = -120, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Barium

MW-1R



n = 14

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 72.95, low cutoff = -58.37, based on IQR multiplier of 3.

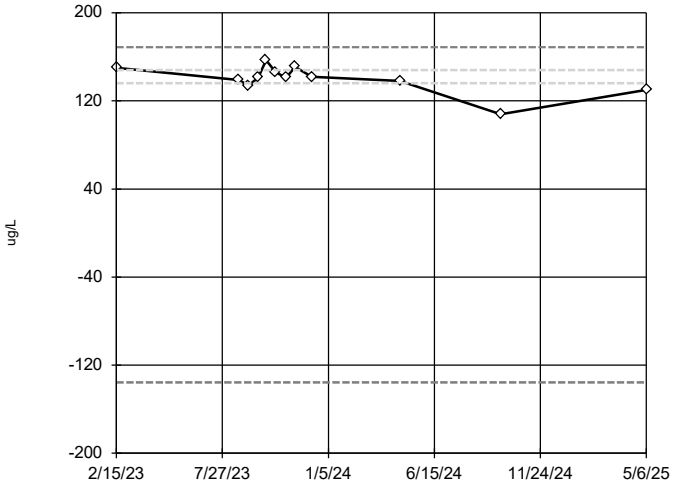
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 168.8, low cutoff = -135.6, based on IQR multiplier of 3.

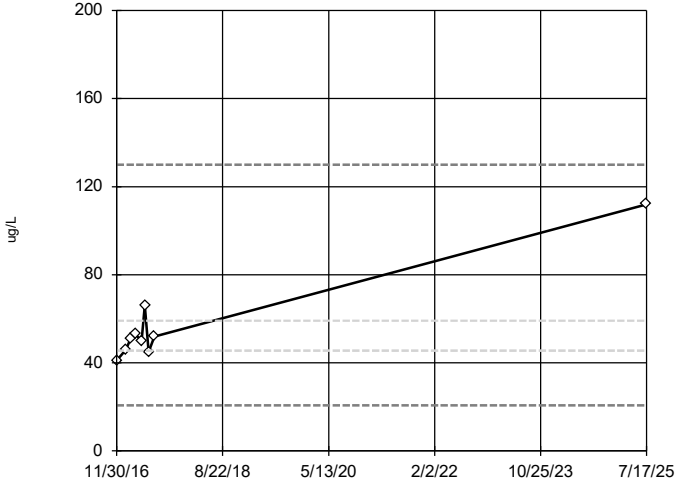
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Barium

MW-4



n = 9

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 129.9, low cutoff = 20.71, based on IQR multiplier of 3.

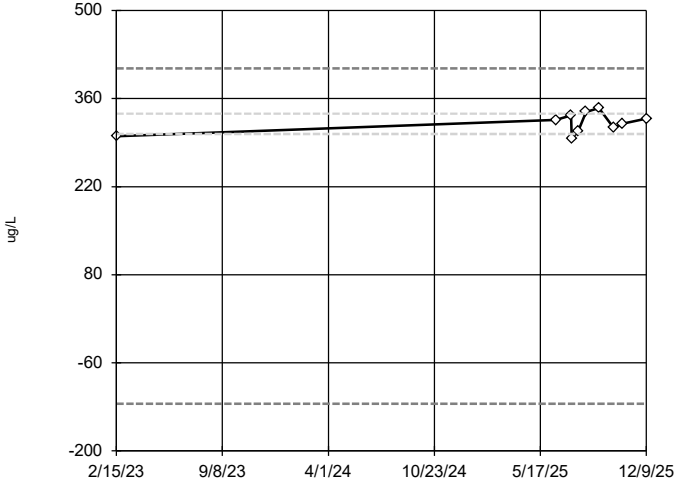
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

NE-3



n = 10

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 407.9, low cutoff = -125.1, based on IQR multiplier of 3.

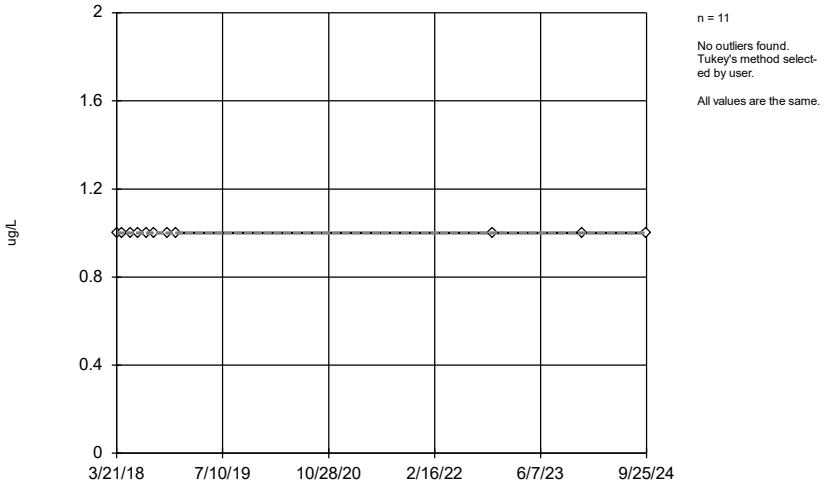
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Beryllium

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

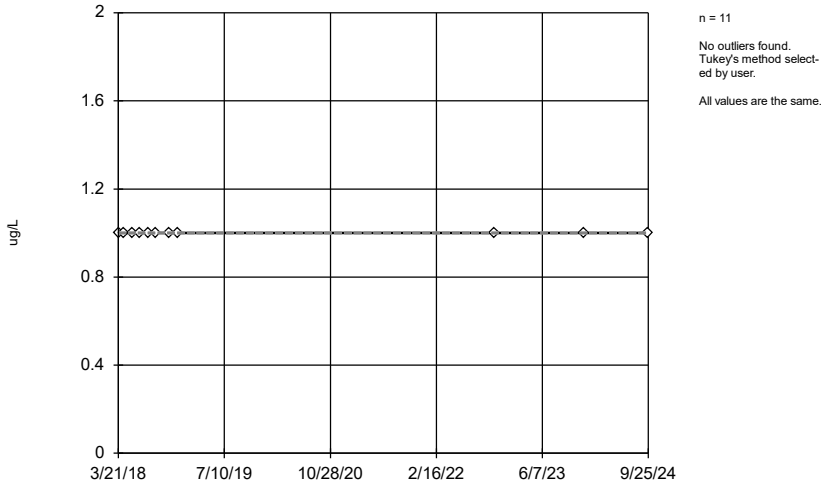
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Beryllium

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

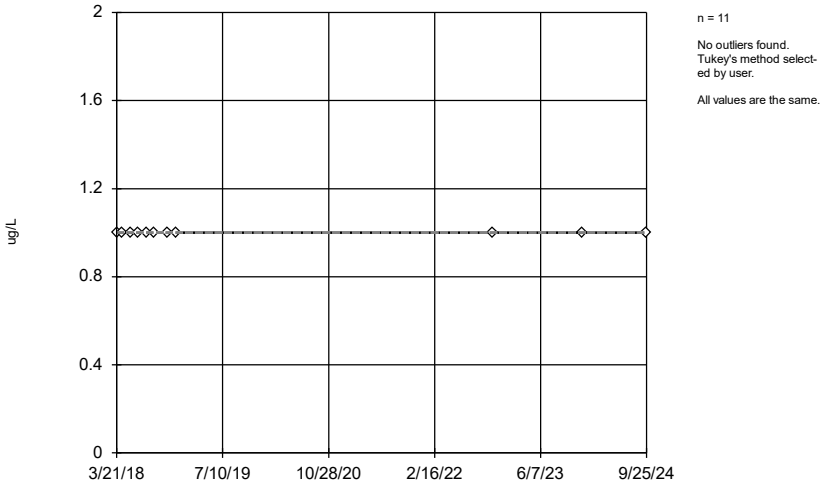
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Beryllium

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

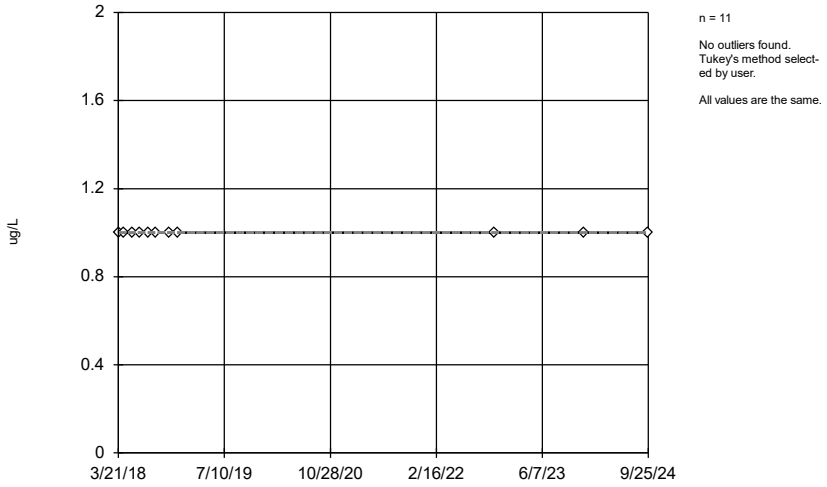
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Beryllium

MW-9



n = 11

No outliers found. Tukey's method selected by user.

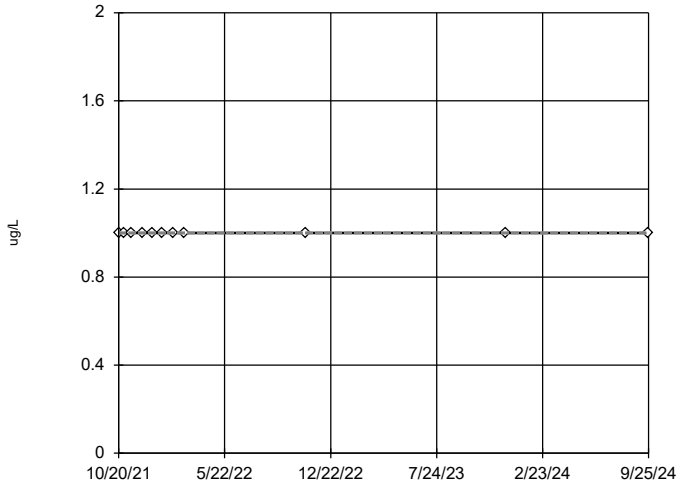
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Beryllium

MW-1R



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

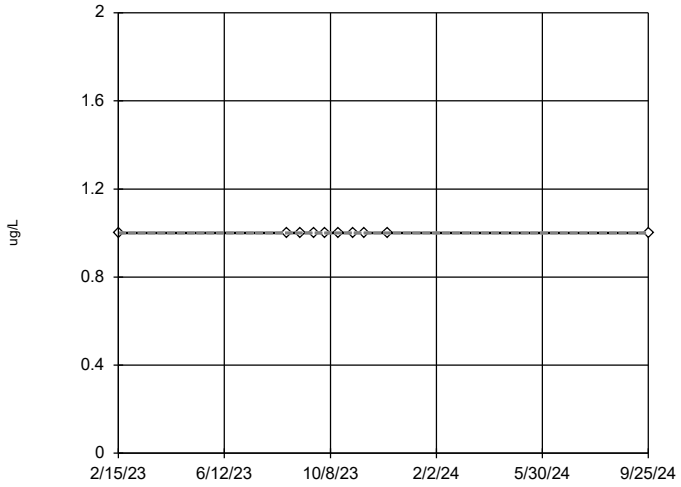
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Beryllium

MW-10



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

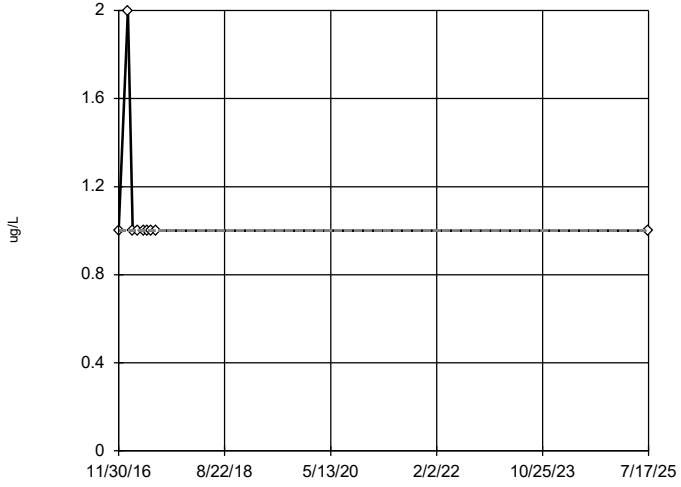
Tukey's Outlier Screening Analysis Run 1/26/2026 11:47 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Beryllium

MW-4



n = 9

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

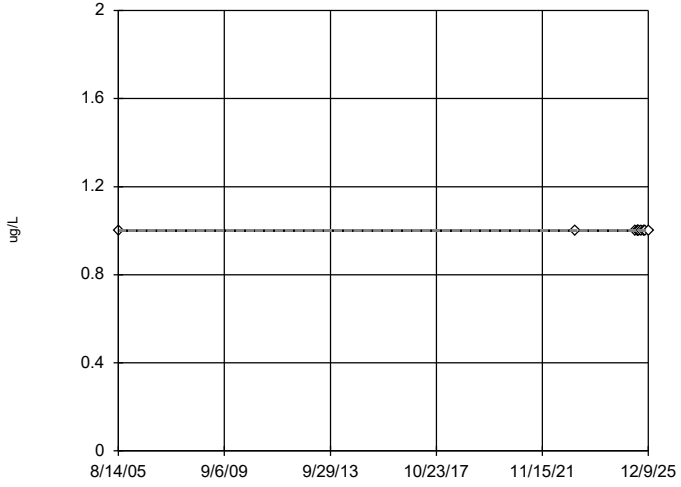
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Beryllium

NE-3



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

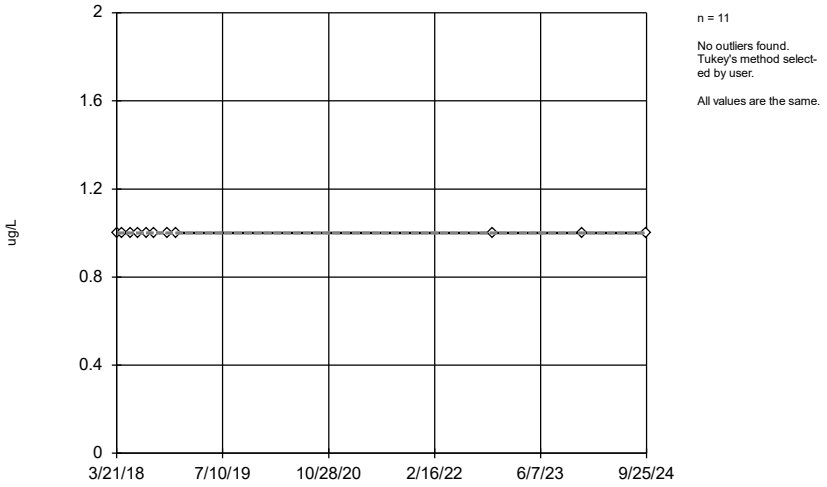
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cadmium

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

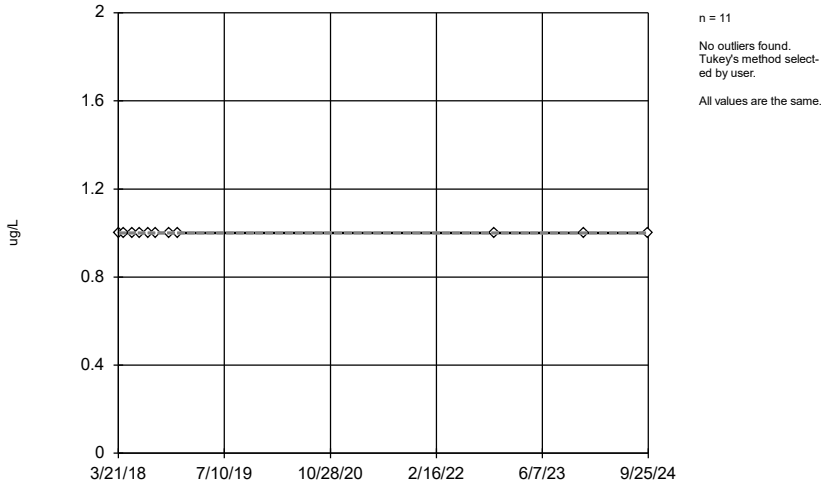
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cadmium

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

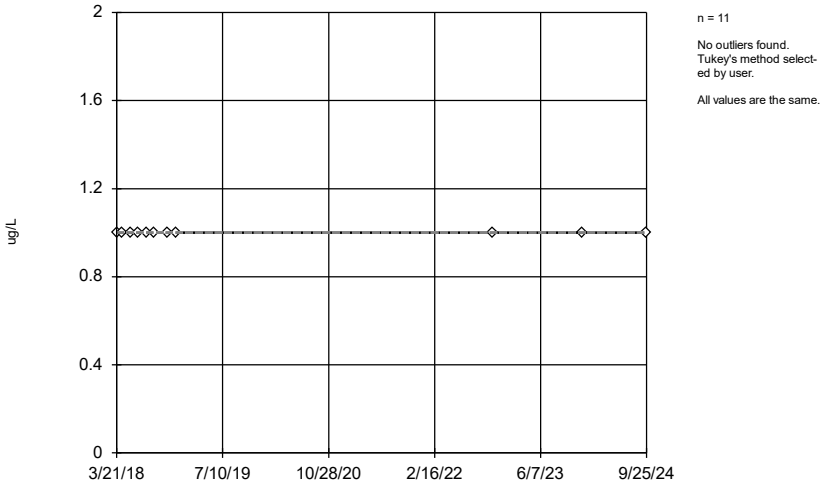
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cadmium

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

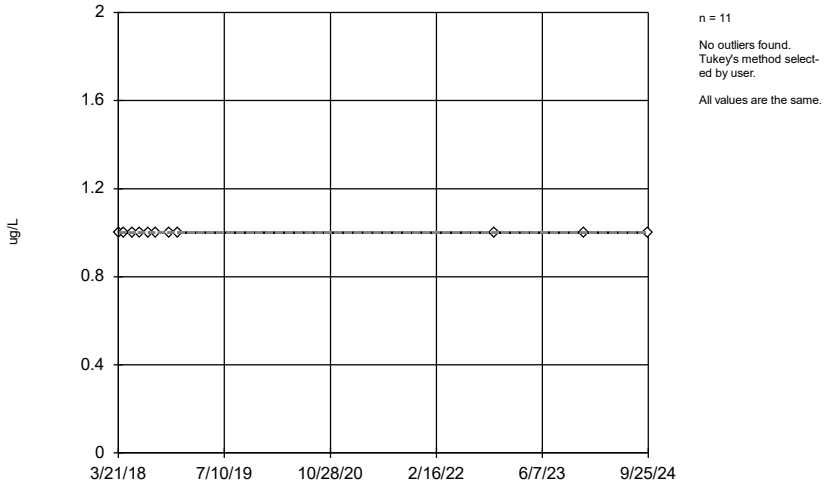
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cadmium

MW-9



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

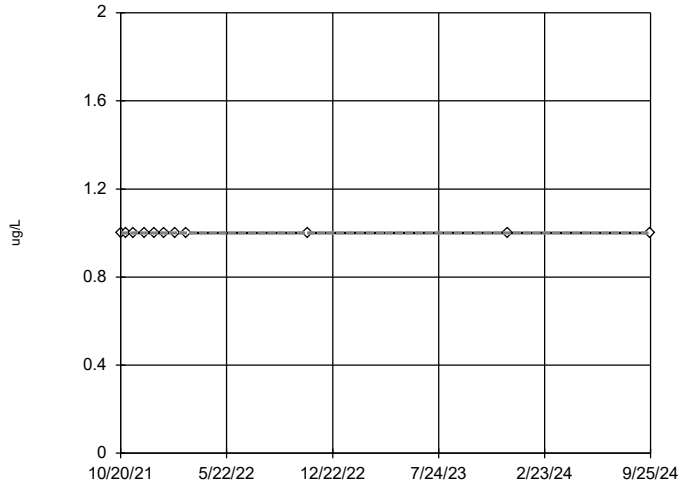
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cadmium

MW-1R



n = 11

No outliers found.
Tukey's method select-
ed by user.

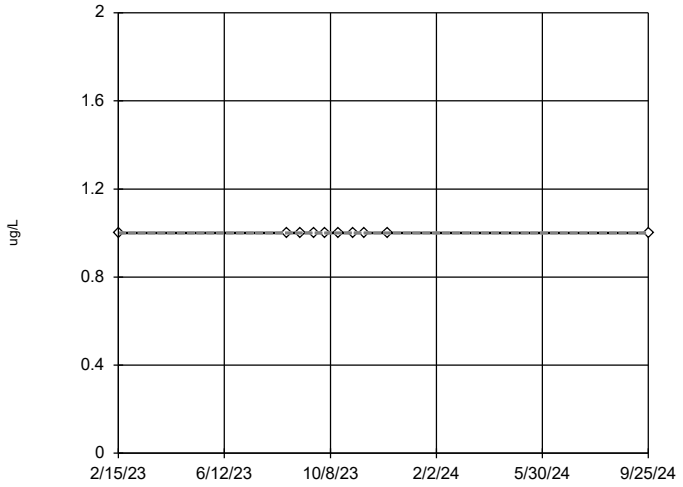
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cadmium

MW-10



n = 10

No outliers found.
Tukey's method select-
ed by user.

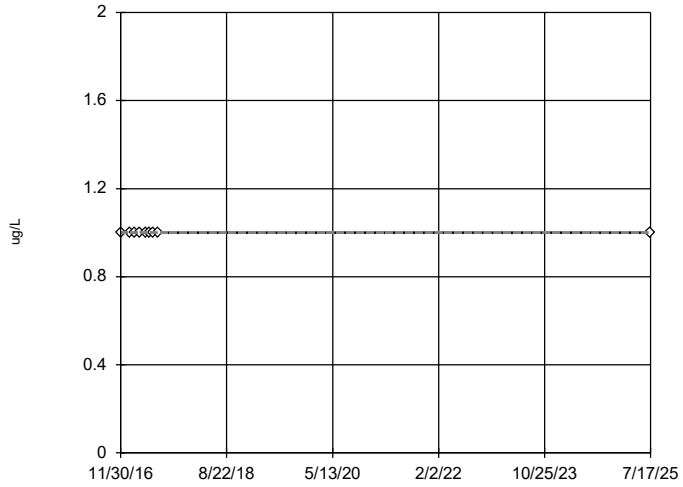
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Cadmium

MW-4



n = 9

No outliers found.
Tukey's method select-
ed by user.

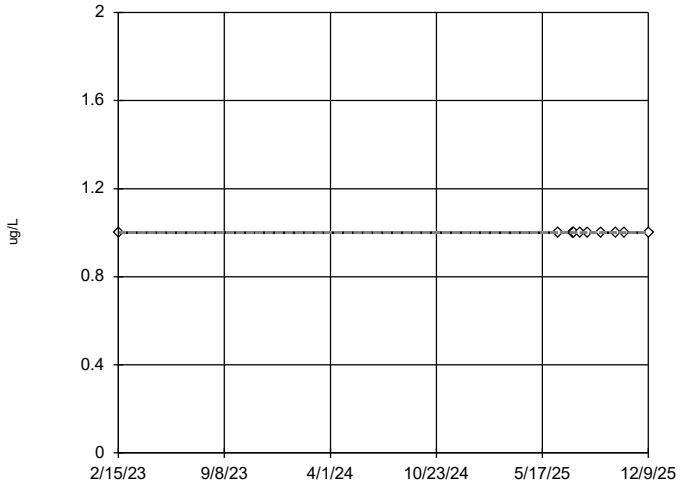
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cadmium

NE-3



n = 10

No outliers found.
Tukey's method select-
ed by user.

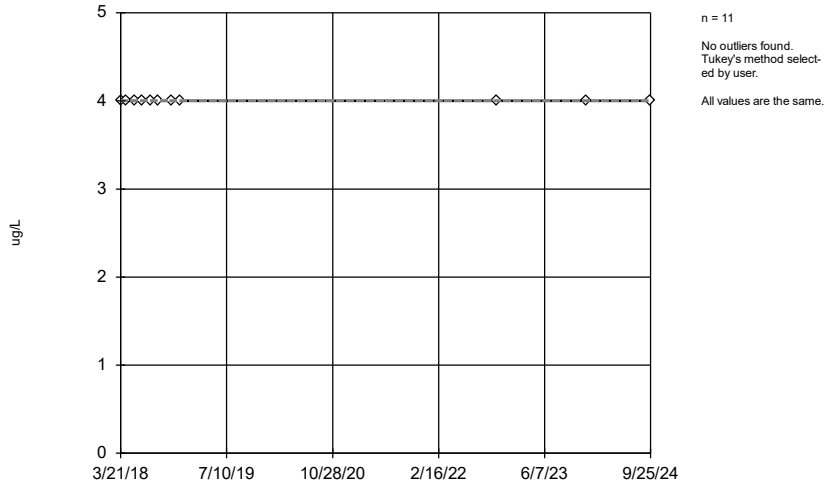
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

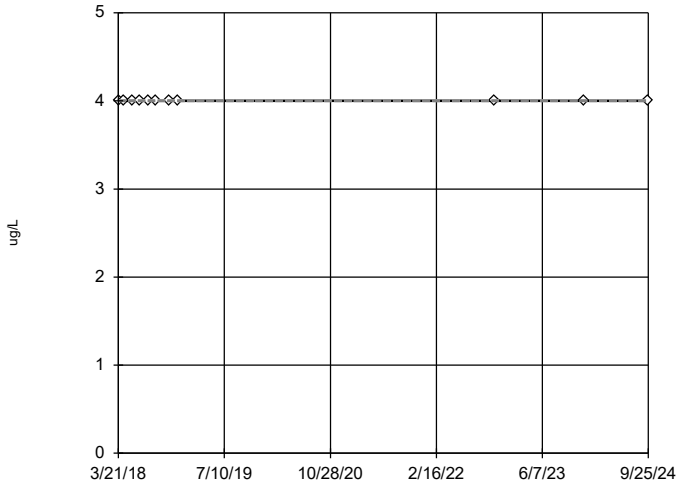
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

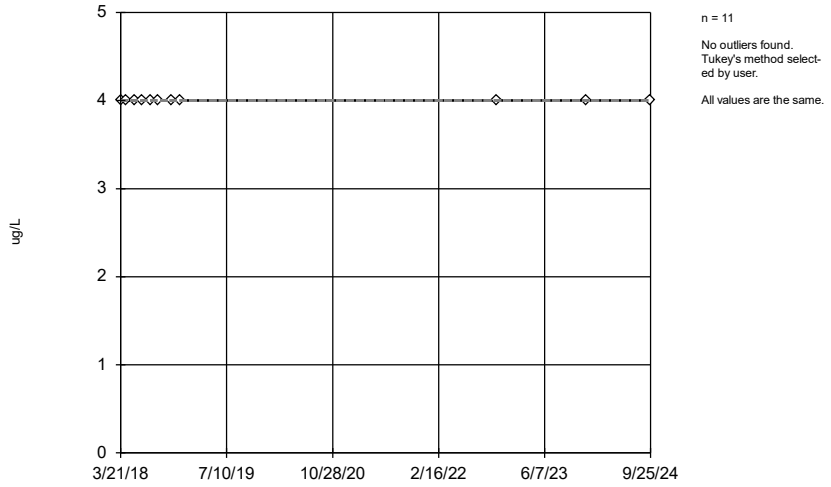
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-7



n = 11

No outliers found. Tukey's method selected by user.

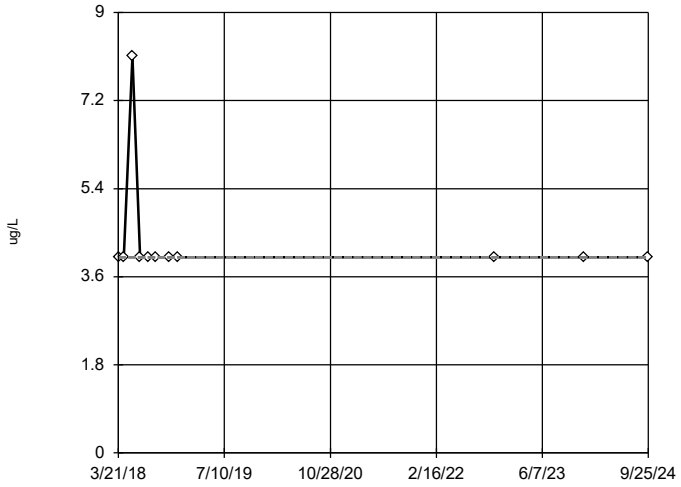
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-9



n = 11

No outliers found. Tukey's method selected by user.

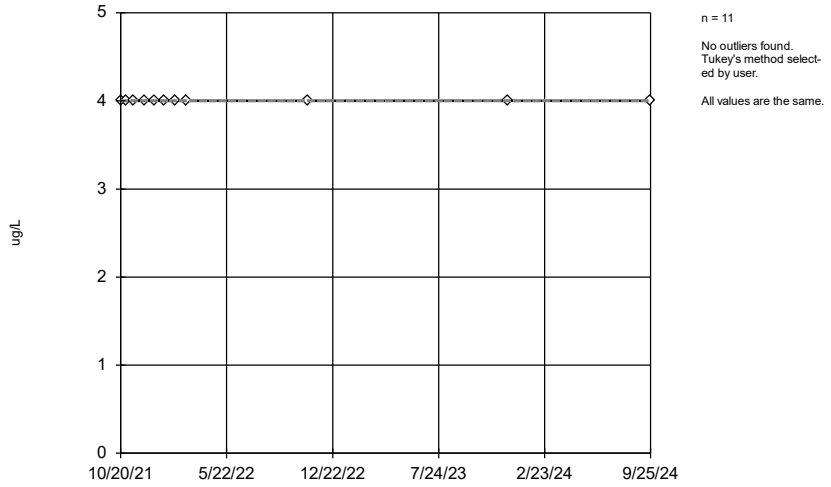
Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Chromium

MW-1R



n = 11

No outliers found. Tukey's method select-ed by user.

All values are the same.

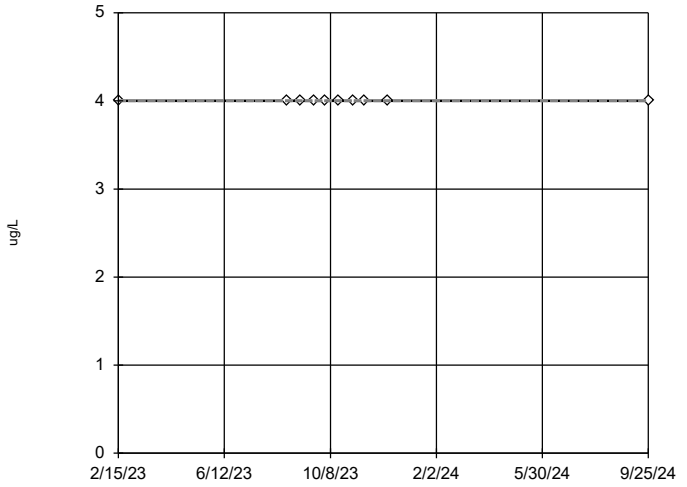
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chromium

MW-10



n = 10

No outliers found. Tukey's method select-ed by user.

All values are the same.

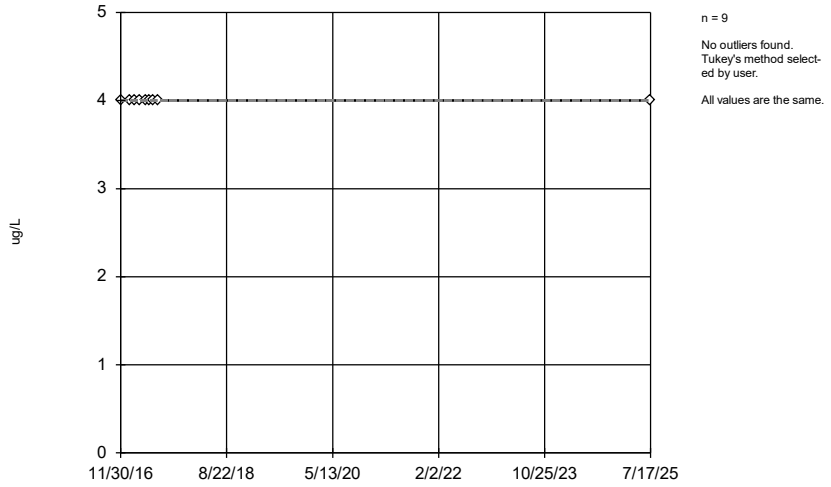
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Chromium

MW-4



n = 9

No outliers found. Tukey's method select-ed by user.

All values are the same.

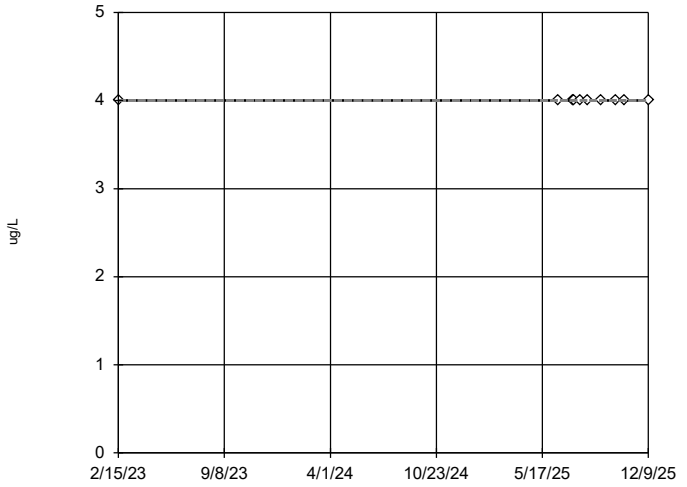
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Chromium

NE-3



n = 10

No outliers found. Tukey's method select-ed by user.

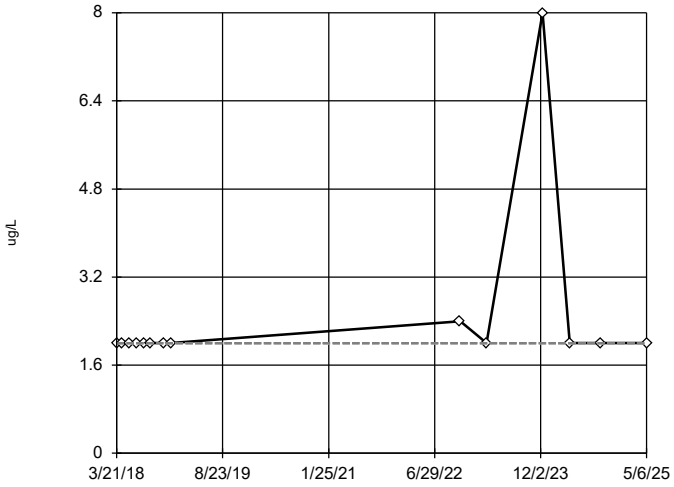
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Cobalt

MW-2 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

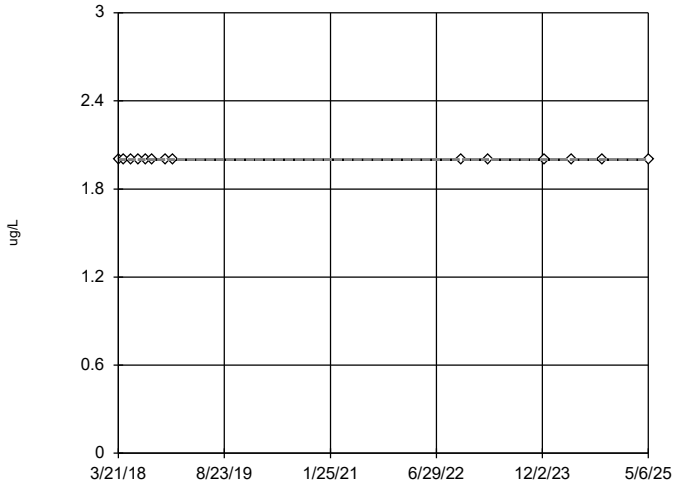
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Cobalt

MW-3 (bg)



n = 14

No outliers found. Tukey's method selected by user.

All values are the same.

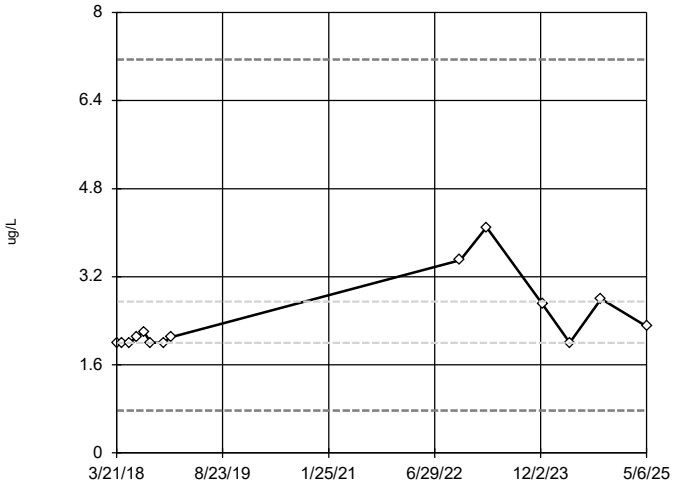
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Cobalt

MW-7



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 7.144, low cutoff = 0.7697, based on IQR multiplier of 3.

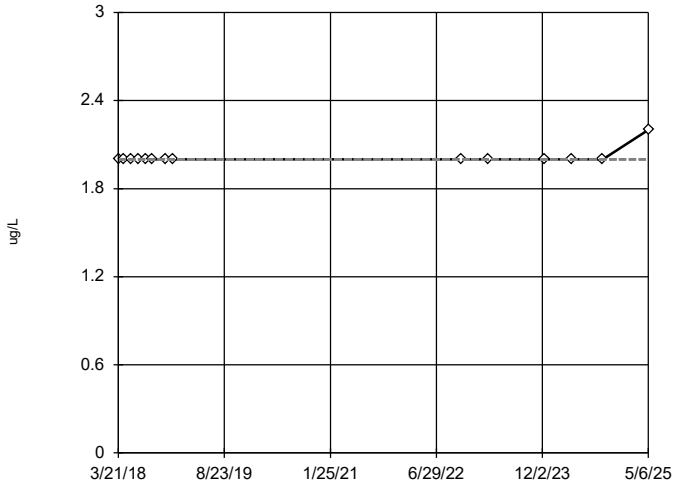
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Cobalt

MW-9



n = 14

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

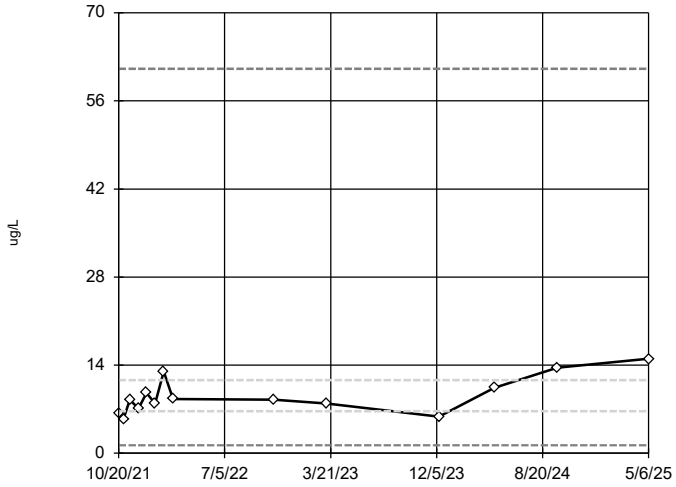
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Cobalt

MW-1R



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 61.1, low cutoff = 1.273, based on IQR multiplier of 3.

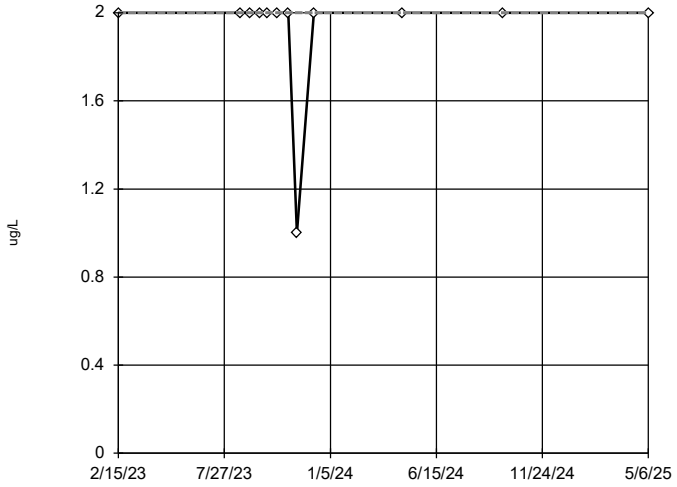
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cobalt

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

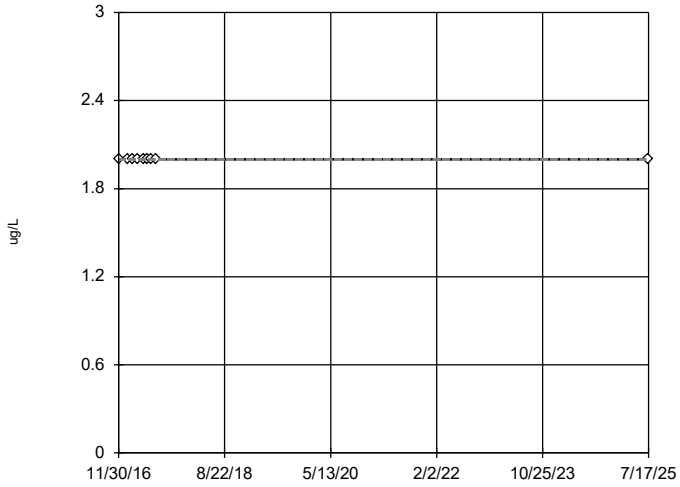
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cobalt

MW-4



n = 9

No outliers found. Tukey's method selected by user.

All values are the same.

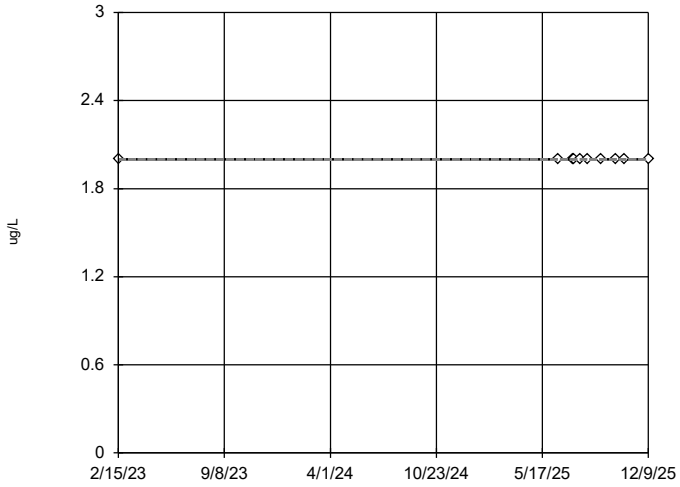
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Cobalt

NE-3



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

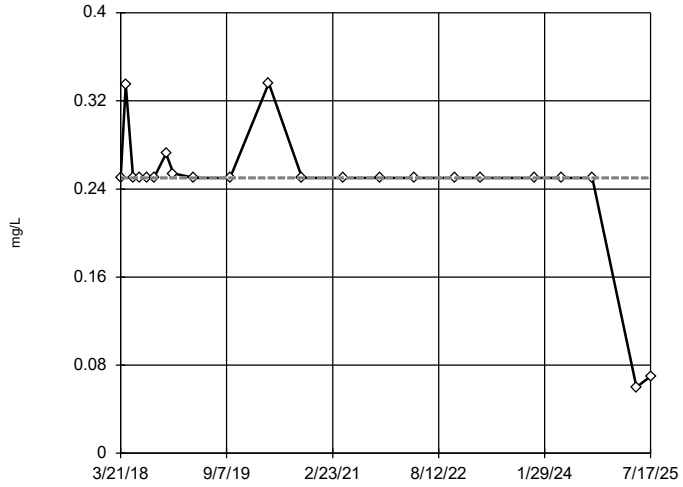
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

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Fluoride

MW-2 (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

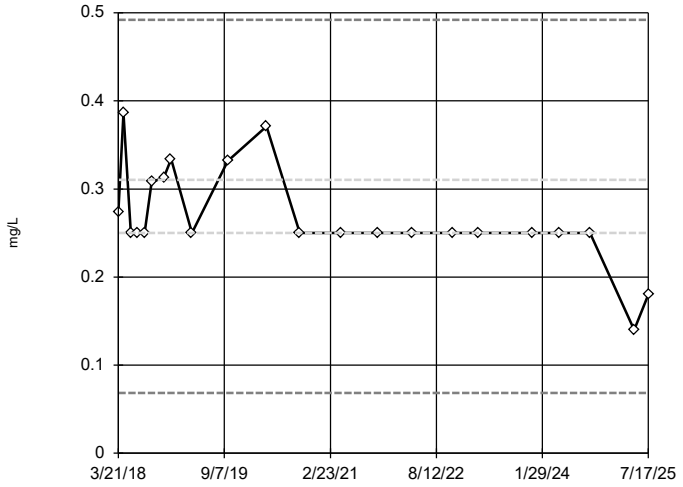
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-3 (bg)



n = 22

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.492, low cutoff = 0.0685, based on IQR multiplier of 3.

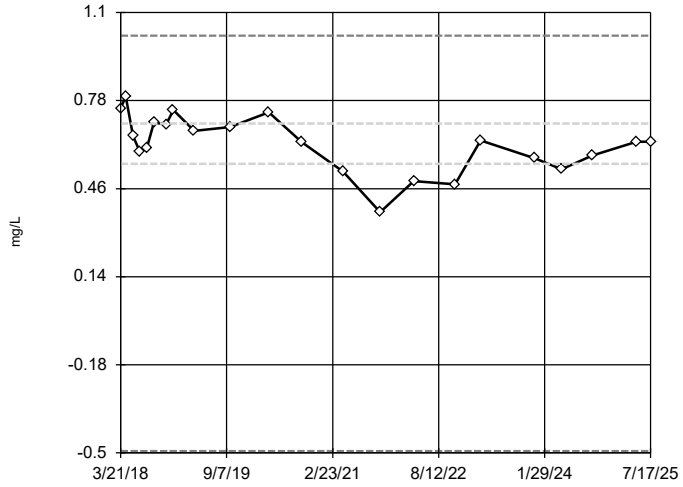
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

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Fluoride

MW-7



n = 22

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 1.016, low cutoff = -0.4937, based on IQR multiplier of 3.

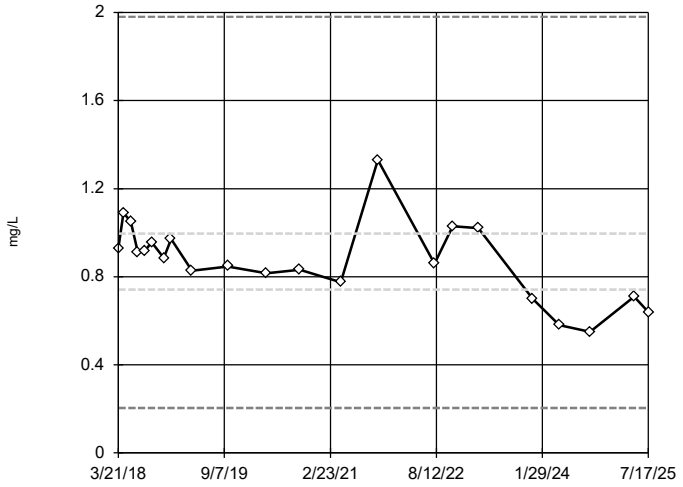
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

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Fluoride

MW-9



n = 22

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

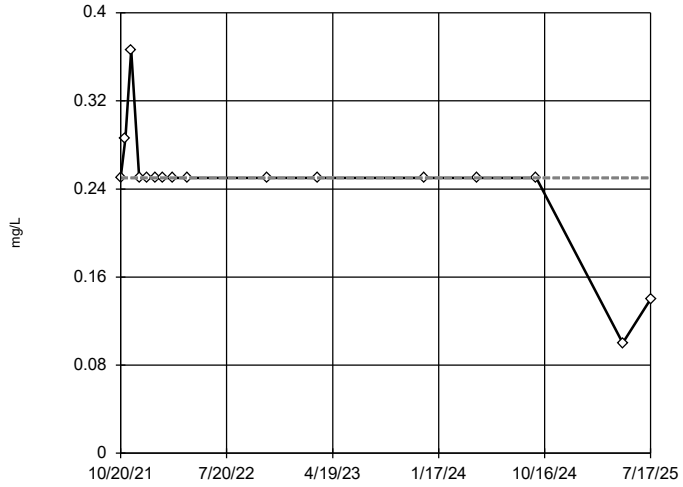
High cutoff = 1.98, low cutoff = 0.2044, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Fluoride

MW-1R



n = 16

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

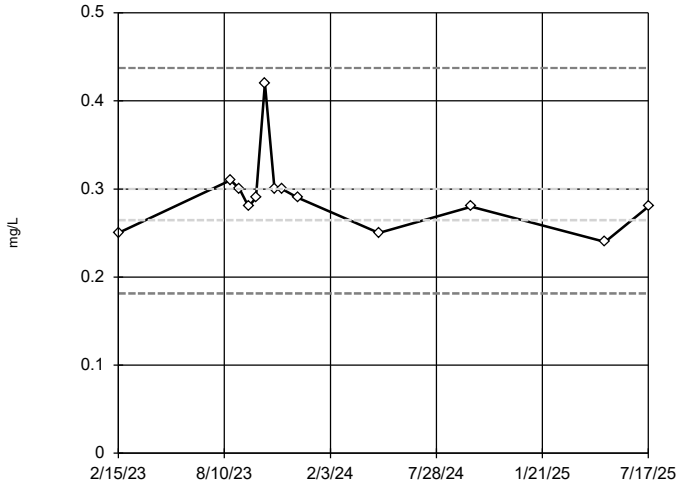
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

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Fluoride

MW-10



n = 13

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.4374, low cutoff = 0.1815, based on IQR multiplier of 3.

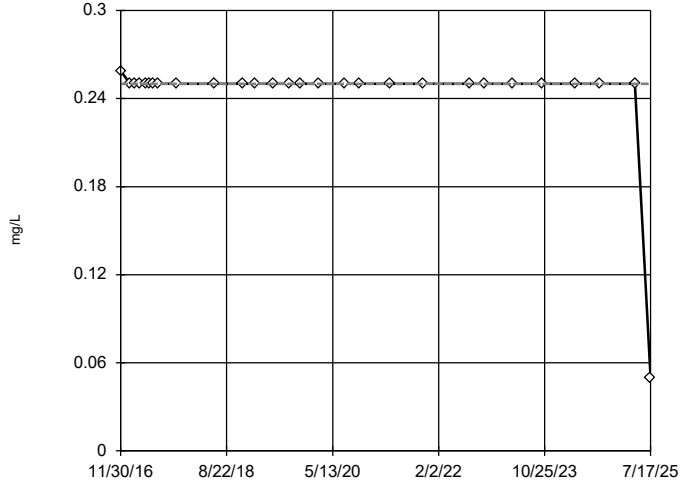
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

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Fluoride

MW-4



n = 28

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

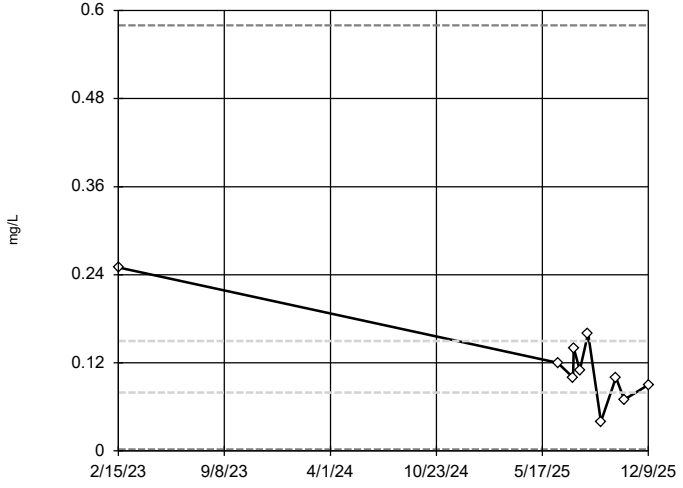
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

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Fluoride

NE-3



n = 10

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.5798, low cutoff = 0.002065, based on IQR multiplier of 3.

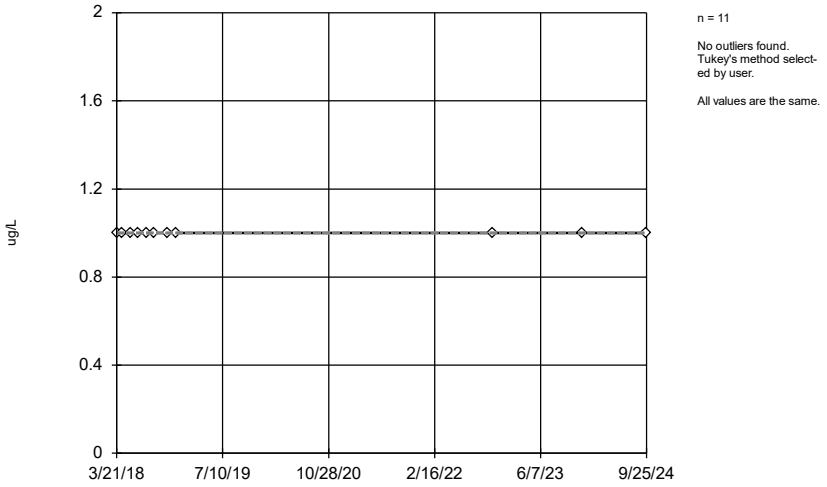
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

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Lead

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

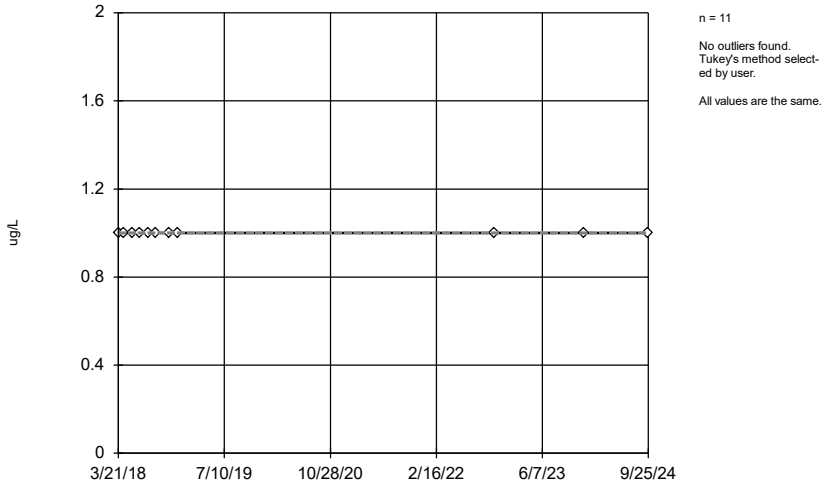
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

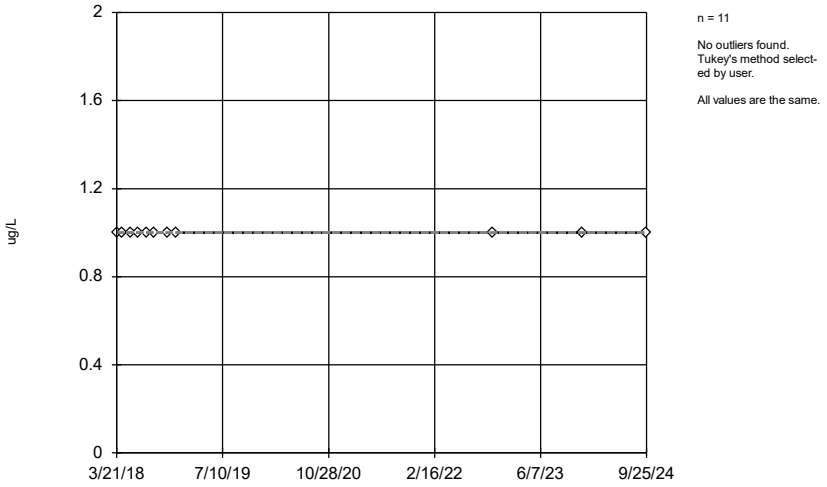
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

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Lead

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

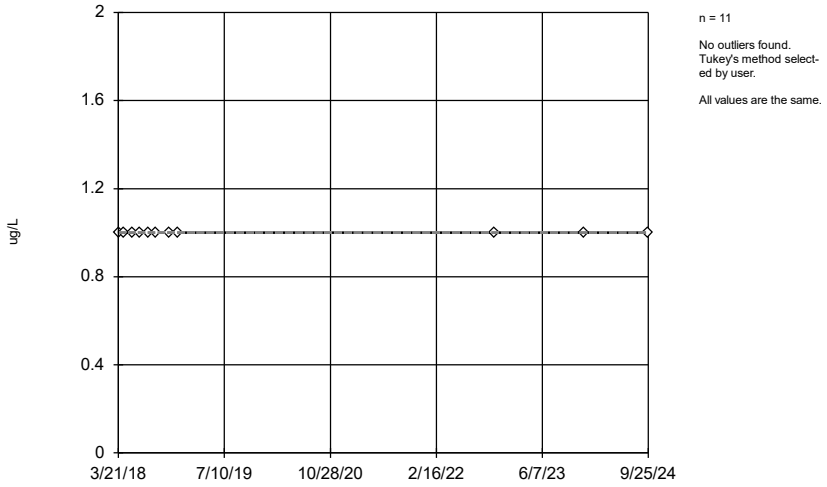
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-9



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

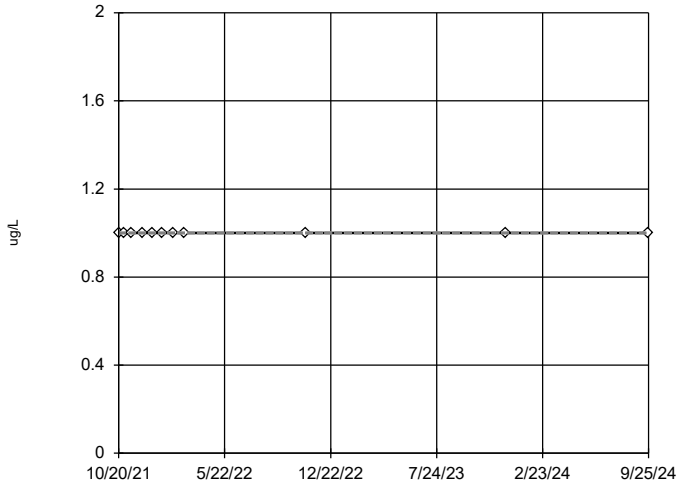
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-1R



n = 11

No outliers found.
Tukey's method selected by user.

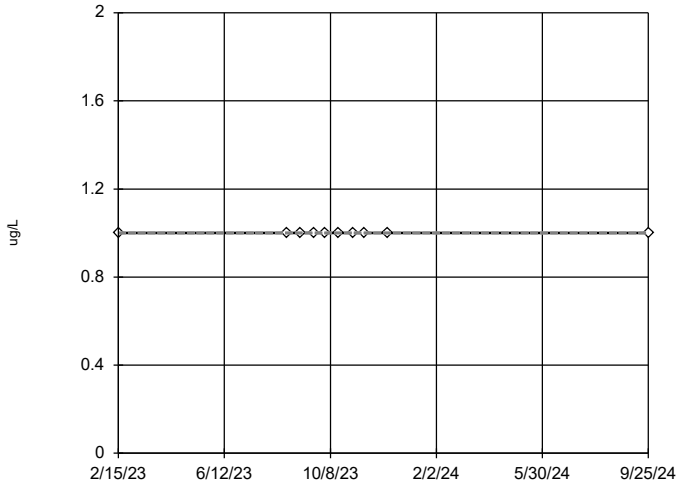
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-10



n = 10

No outliers found.
Tukey's method selected by user.

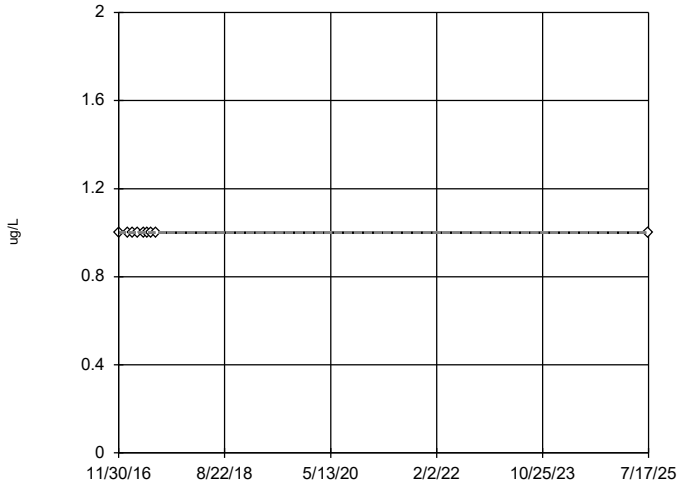
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

MW-4



n = 9

No outliers found.
Tukey's method selected by user.

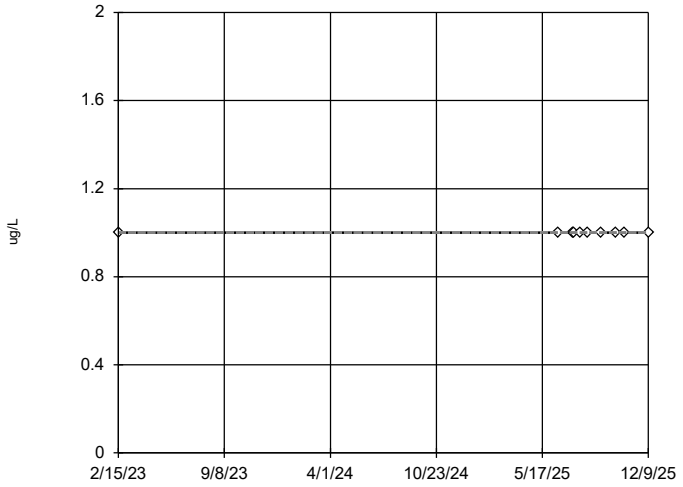
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lead

NE-3



n = 10

No outliers found.
Tukey's method selected by user.

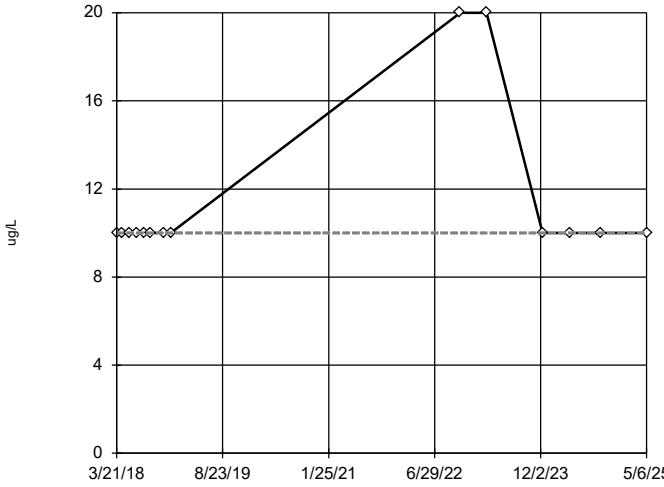
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lithium

MW-2 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

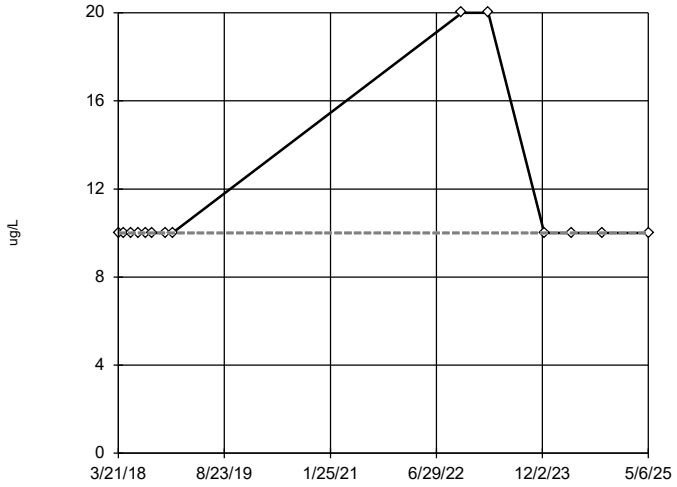
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lithium

MW-3 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

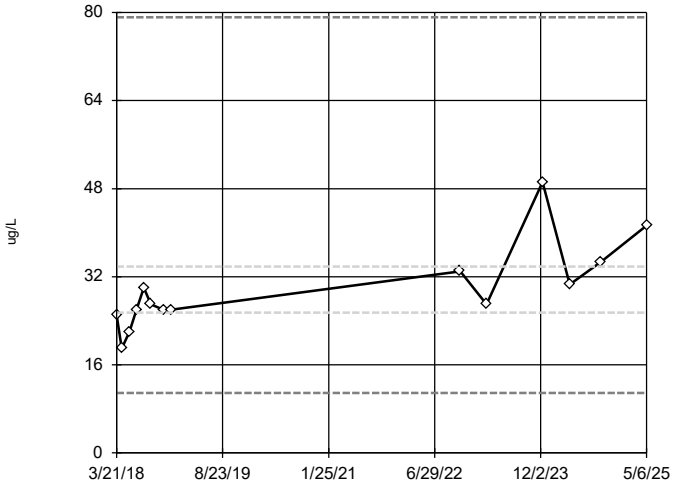
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lithium

MW-7



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 79.13, low cutoff = 10.9, based on IQR multiplier of 3.

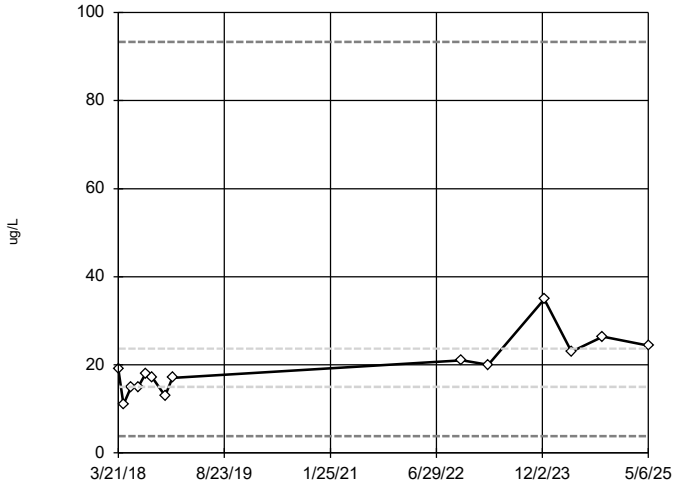
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lithium

MW-9



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 93.32, low cutoff = 3.808, based on IQR multiplier of 3.

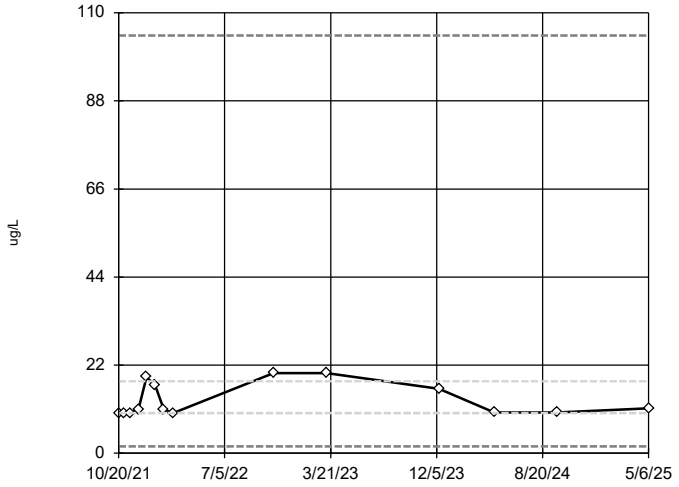
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

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Lithium

MW-1R



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

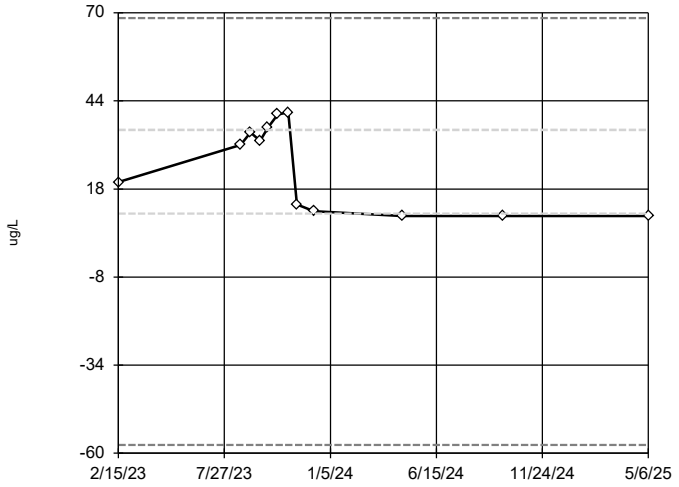
High cutoff = 104.3, low cutoff = 1.723, based on IQR multiplier of 3.

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Lithium

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

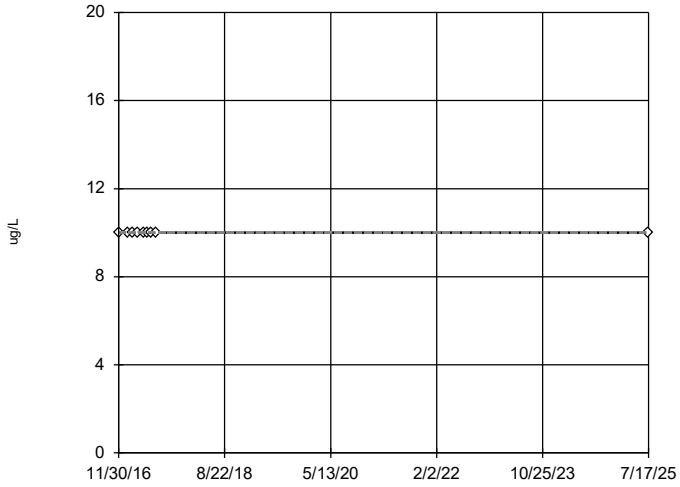
High cutoff = 68.44, low cutoff = -57.55, based on IQR multiplier of 3.

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SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lithium

MW-4



n = 9

No outliers found. Tukey's method selected by user.

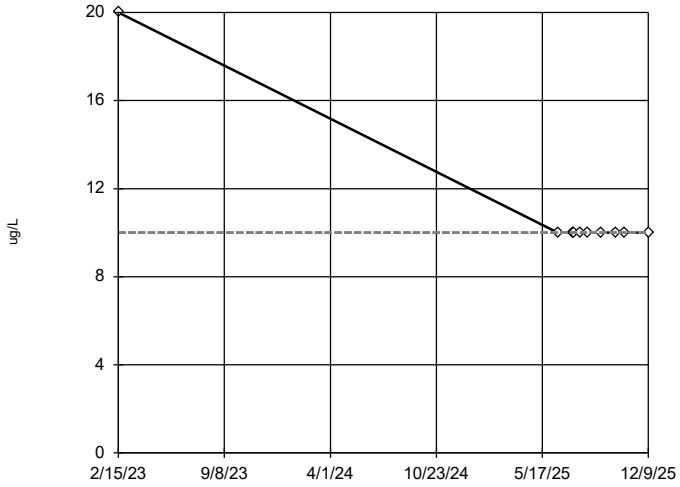
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Lithium

NE-3



n = 10

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

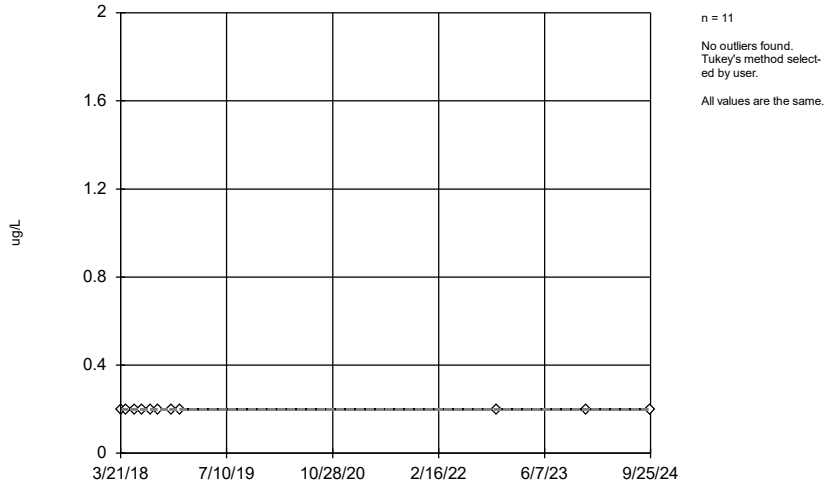
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

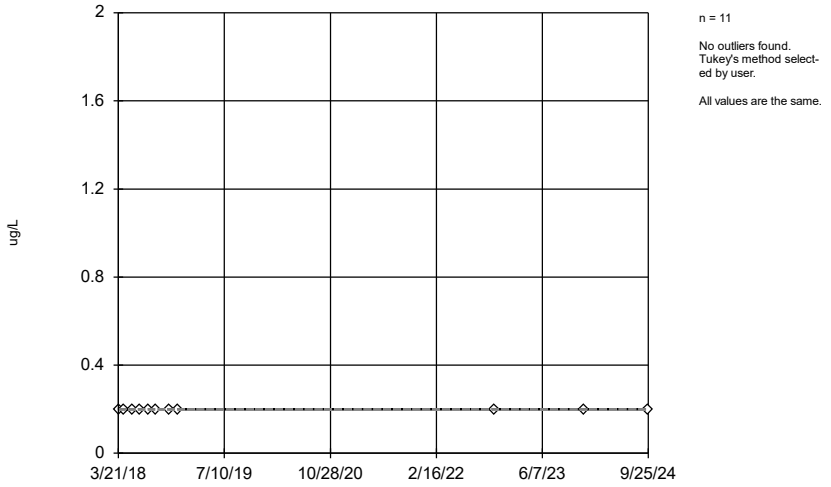
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

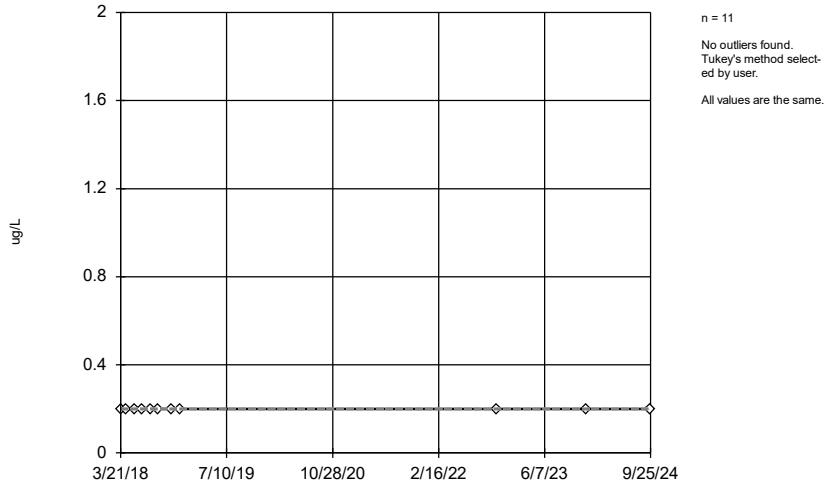
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

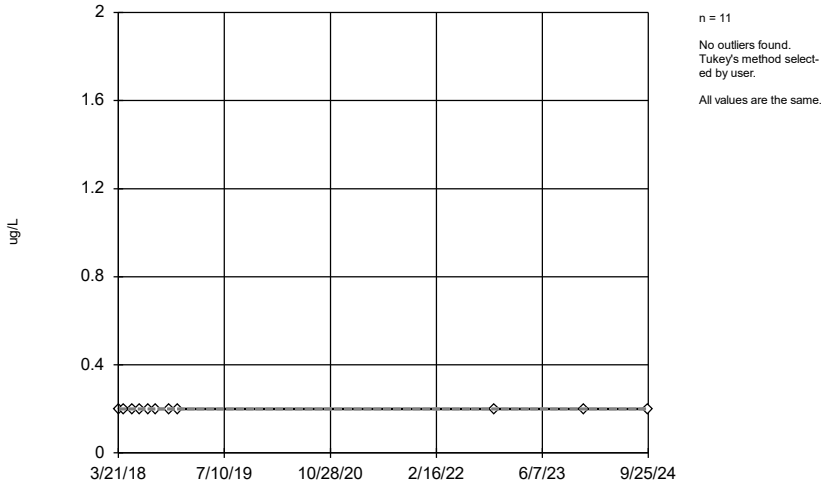
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-9



n = 11

No outliers found. Tukey's method selected by user.

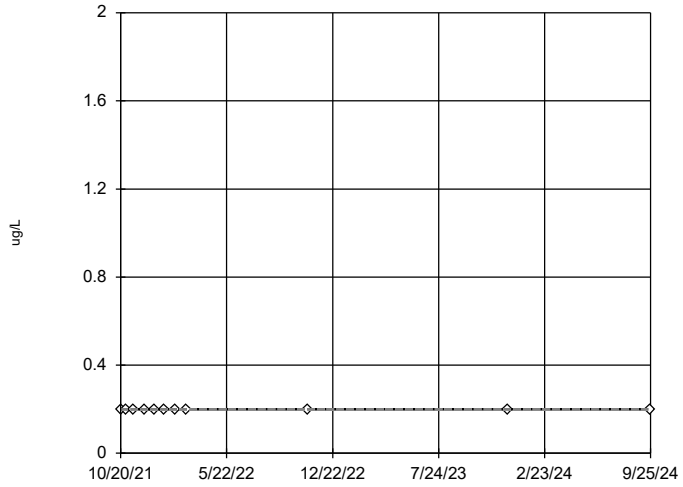
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Mercury

MW-1R



n = 11

No outliers found. Tukey's method selected by user.

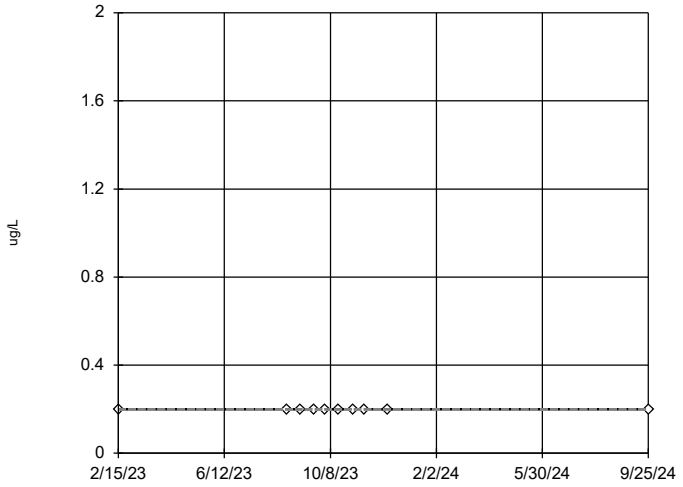
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-10



n = 10

No outliers found. Tukey's method selected by user.

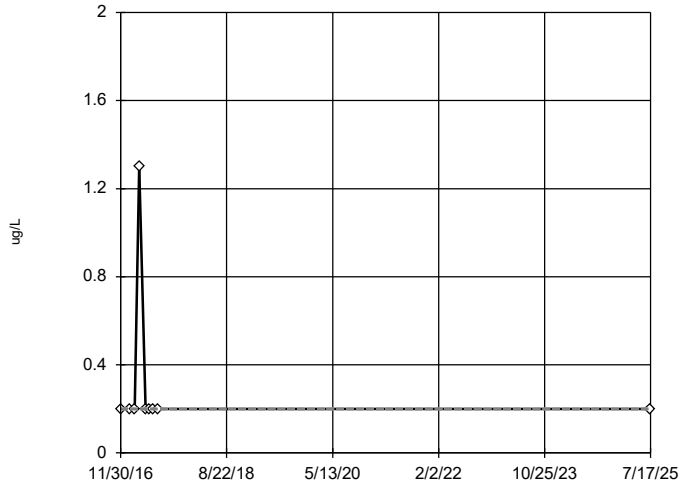
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

MW-4



n = 9

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

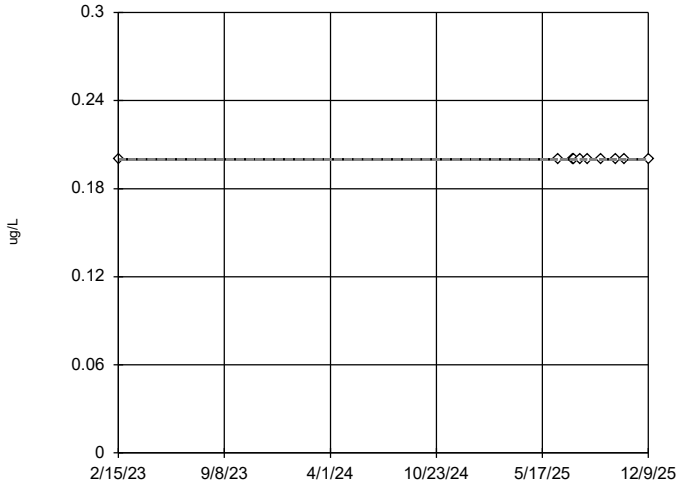
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Mercury

NE-3



n = 10

No outliers found. Tukey's method selected by user.

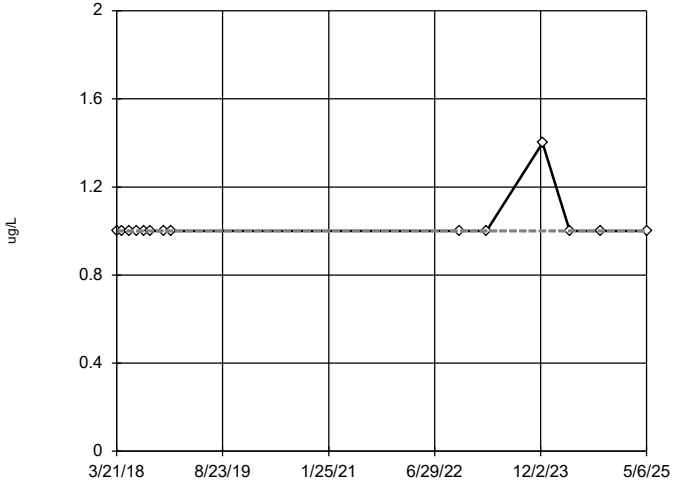
Data were x^5 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Molybdenum

MW-2 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

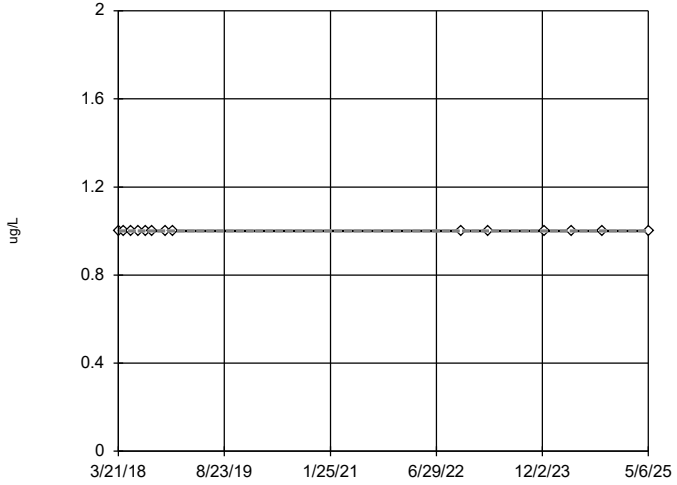
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Molybdenum

MW-3 (bg)



n = 14

No outliers found. Tukey's method selected by user.

All values are the same.

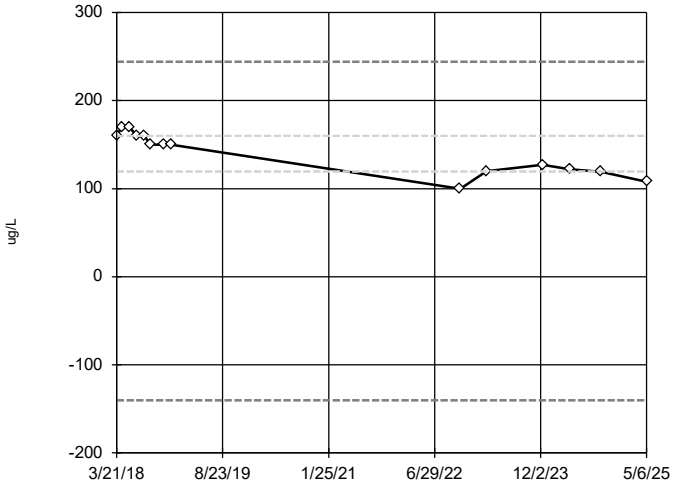
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Molybdenum

MW-7



n = 14

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 244, low cutoff = -140.3, based on IQR multiplier of 3.

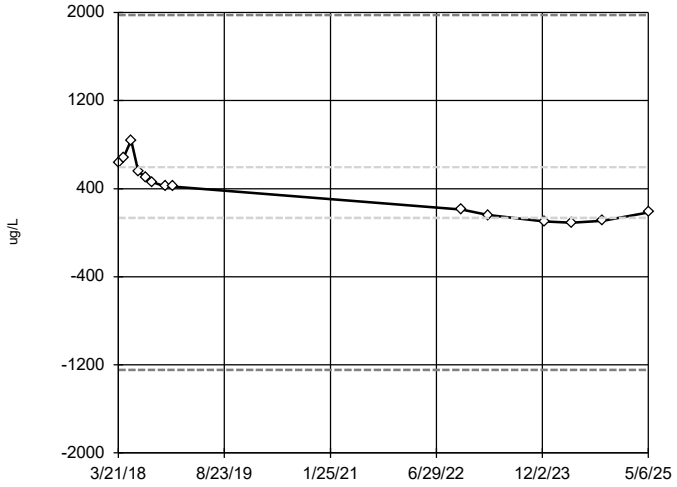
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Molybdenum

MW-9



n = 14

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

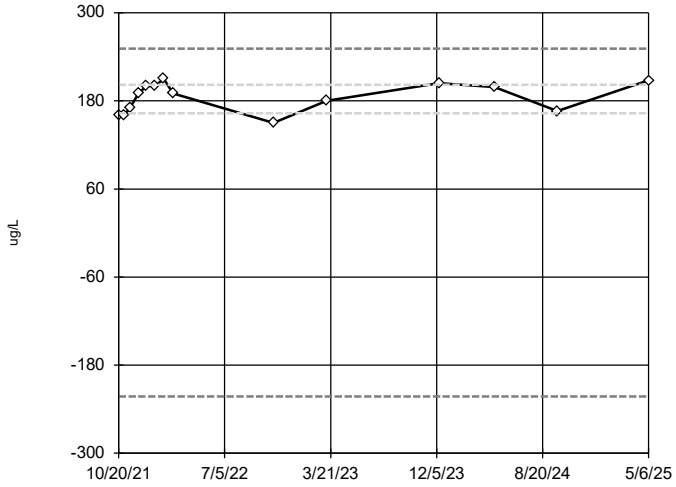
High cutoff = 1977, low cutoff = -1247, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Molybdenum

MW-1R



n = 14

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 251.2, low cutoff = -222.7, based on IQR multiplier of 3.

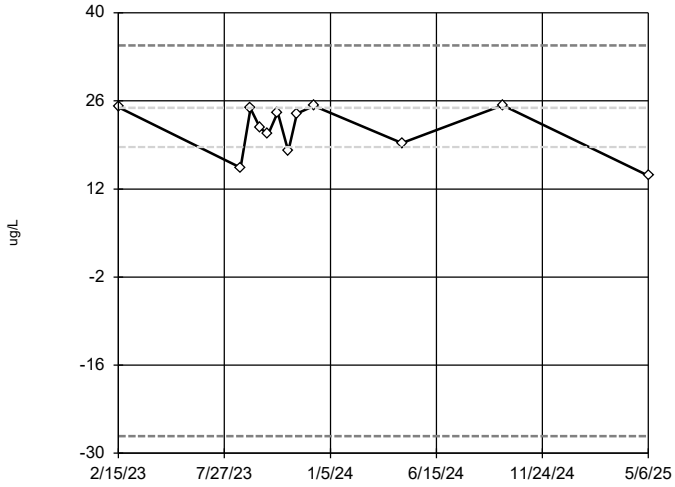
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Molybdenum

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 34.82, low cutoff = -27.27, based on IQR multiplier of 3.

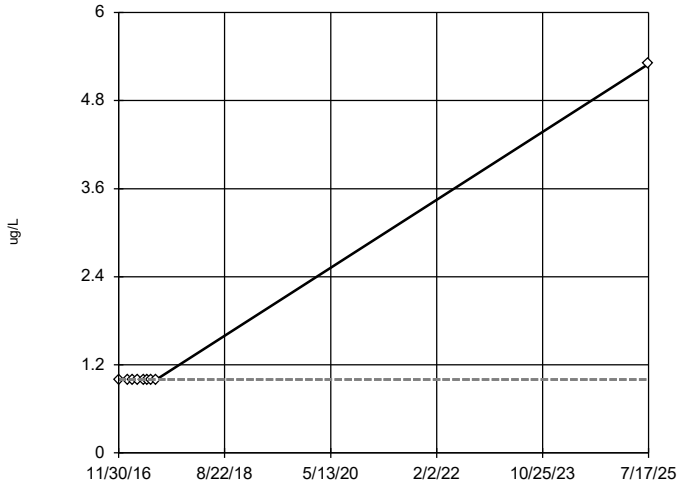
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Molybdenum

MW-4



n = 9

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

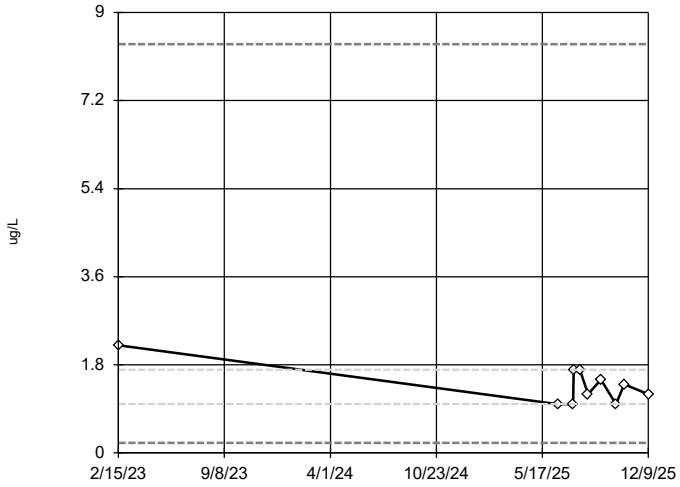
Tukey's Outlier Screening Analysis Run 1/26/2026 11:48 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Molybdenum

NE-3



n = 10

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 8.352, low cutoff = 0.2035, based on IQR multiplier of 3.

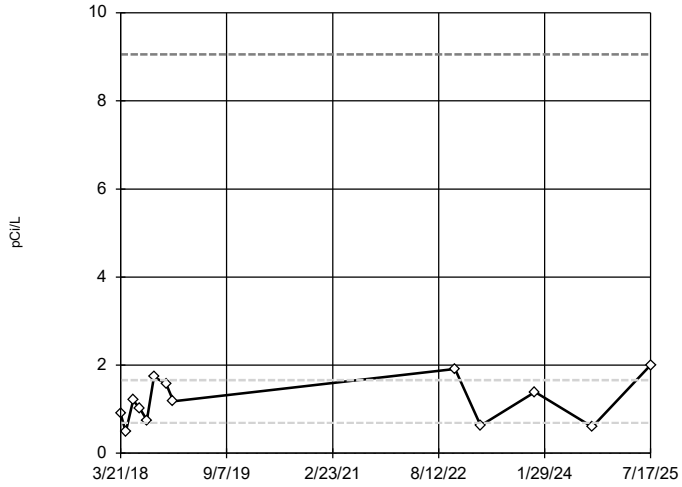
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-2 (bg)



n = 13

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 9.055, low cutoff = -0.000005644, based on IQR multiplier of 3.

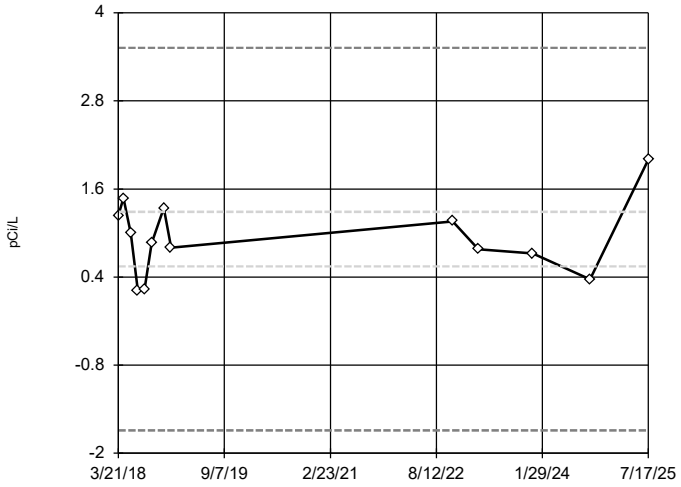
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-3 (bg)



n = 13

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 3.523, low cutoff = -1.688, based on IQR multiplier of 3.

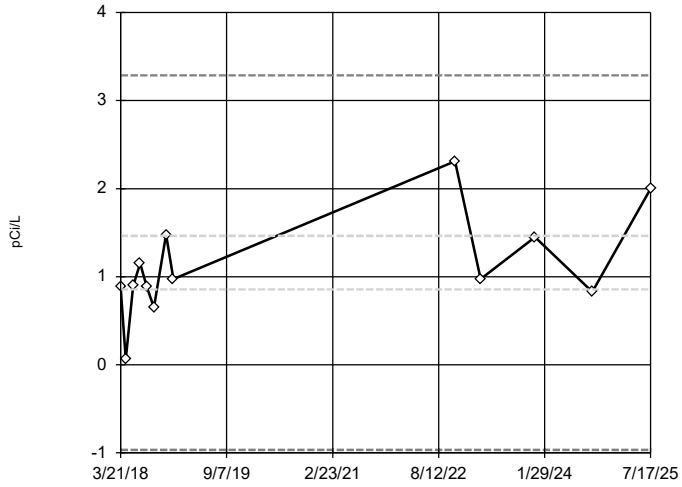
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-7



n = 13

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 3.287, low cutoff = -0.966, based on IQR multiplier of 3.

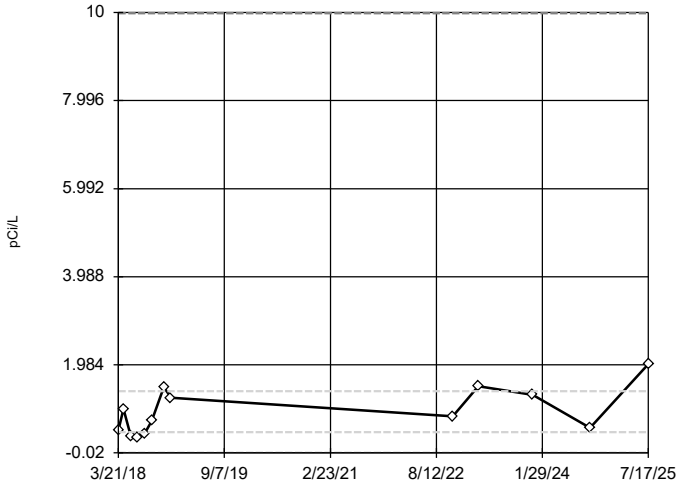
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-9



n = 13

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

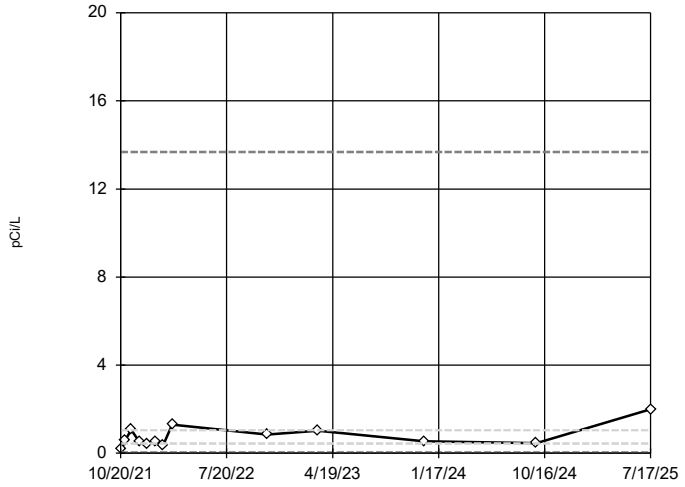
High cutoff = 9.987, low cutoff = -0.01981, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Radium

MW-1R



n = 13

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 13.68, low cutoff = 0.03405, based on IQR multiplier of 3.

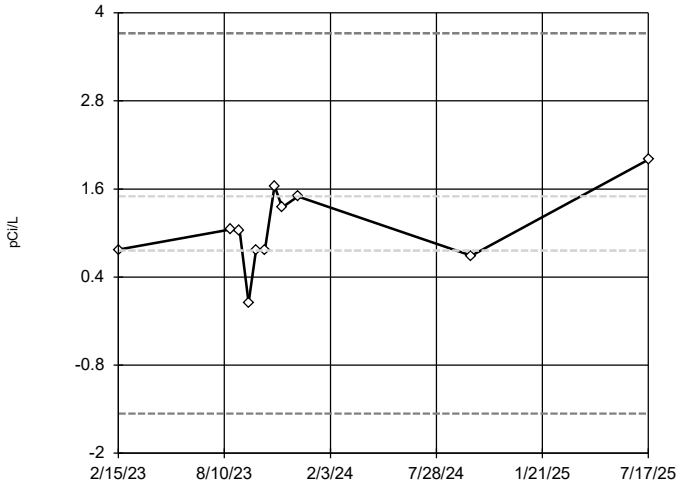
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-10



n = 11

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

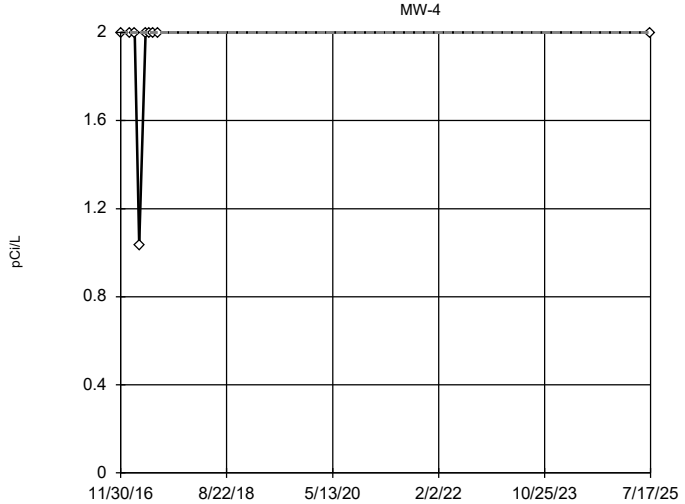
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

MW-4



n = 9

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

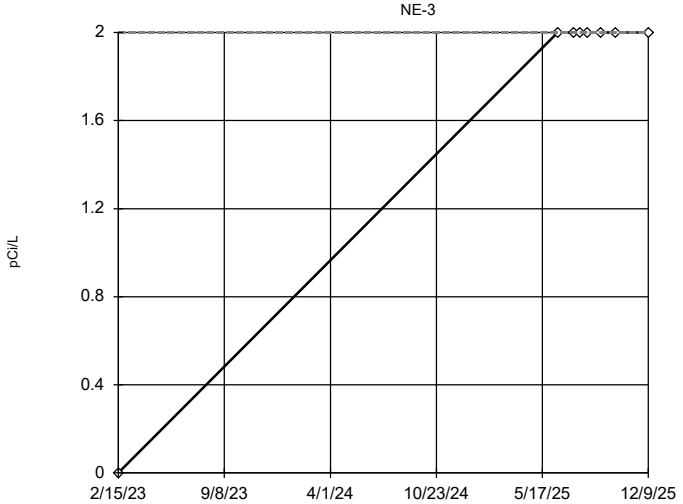
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Radium

NE-3



n = 8

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

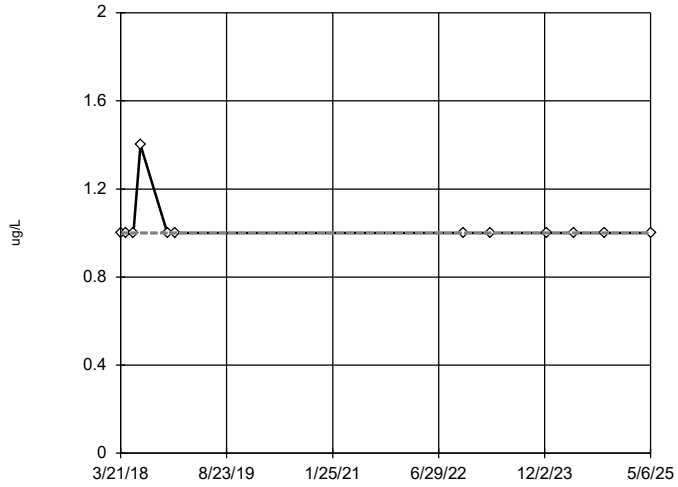
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Selenium

MW-2 (bg)



n = 12

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

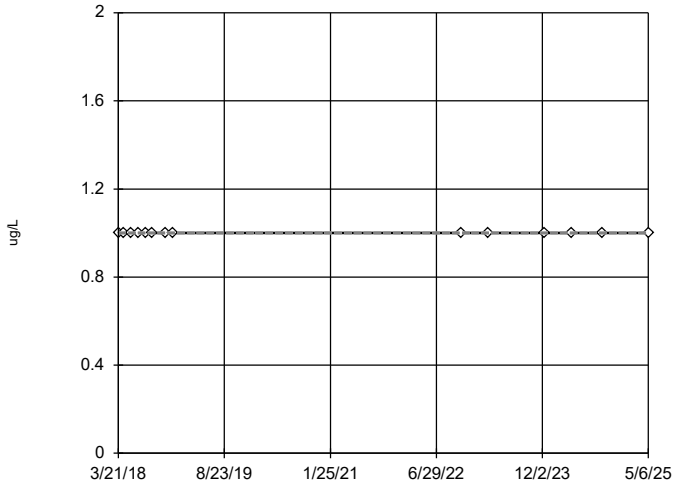
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

MW-3 (bg)



n = 14

No outliers found. Tukey's method selected by user.

All values are the same.

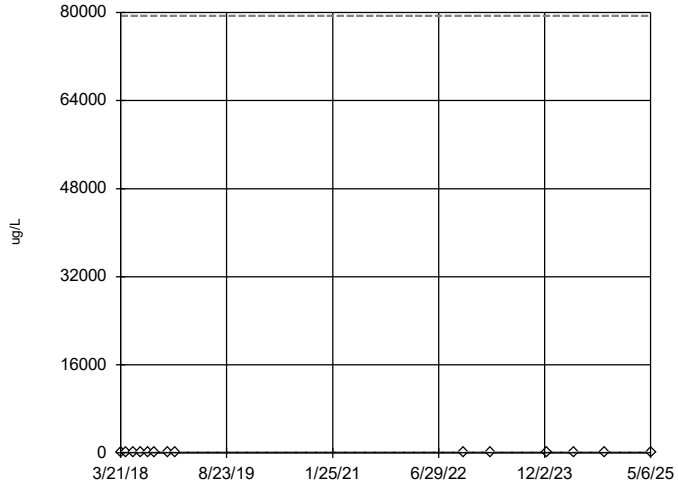
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

MW-7



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 79389, low cutoff = 0.00112, based on IQR multiplier of 3.

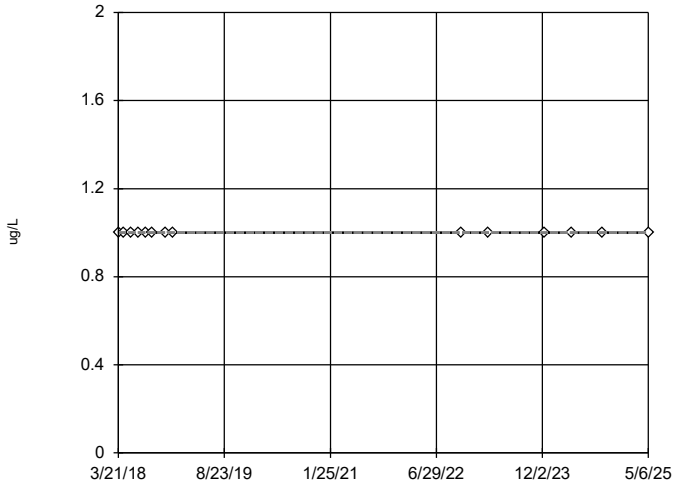
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

MW-9



n = 14

No outliers found. Tukey's method selected by user.

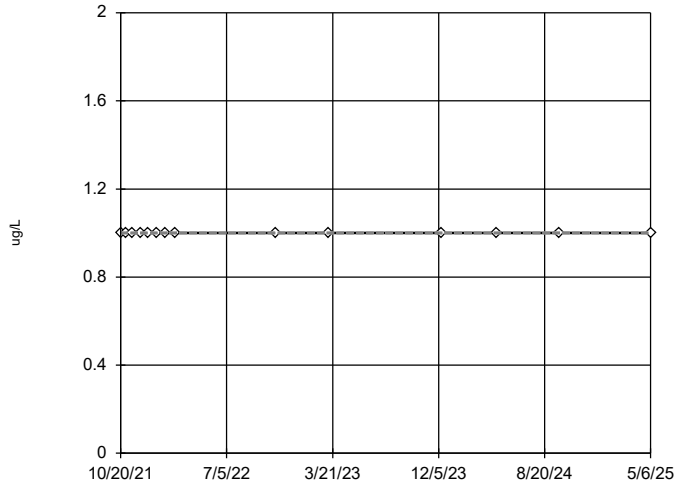
All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Selenium

MW-1R



n = 14

No outliers found. Tukey's method selected by user.

All values are the same.

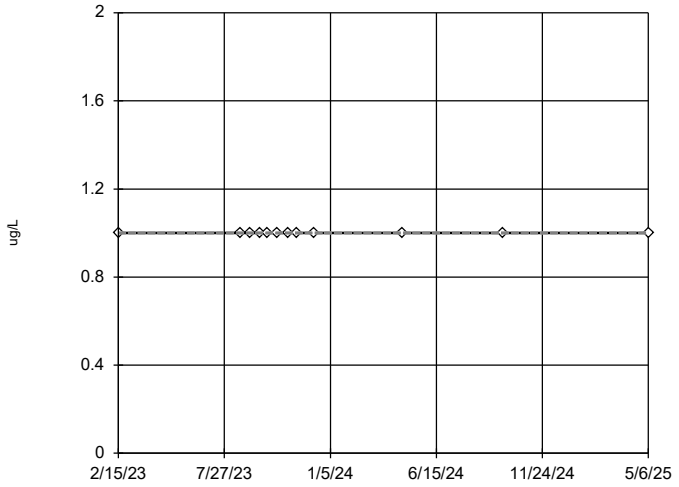
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

MW-10



n = 12

No outliers found. Tukey's method selected by user.

All values are the same.

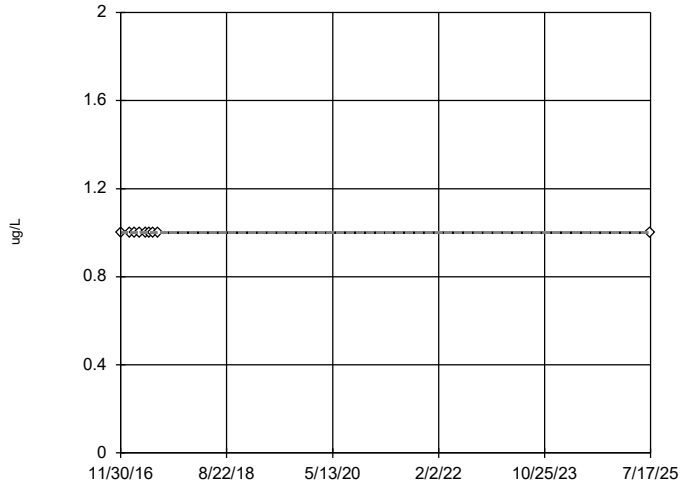
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

MW-4



n = 9

No outliers found. Tukey's method selected by user.

All values are the same.

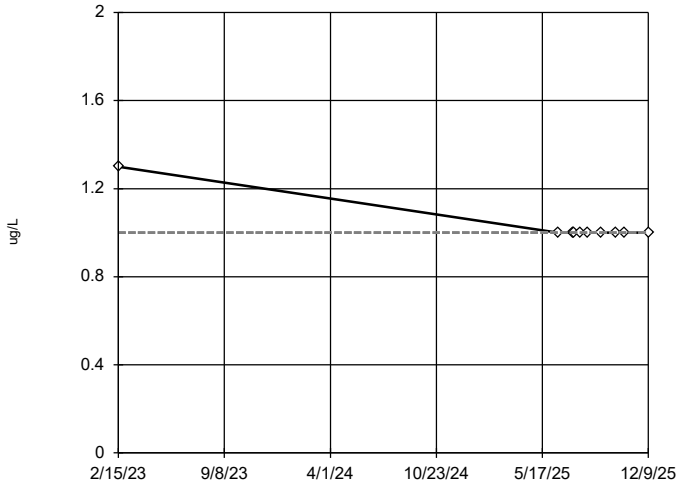
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Selenium

NE-3



n = 10

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

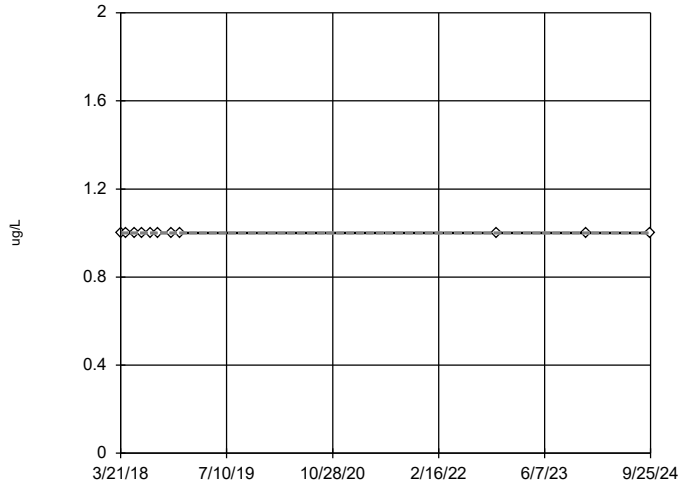
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-2 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

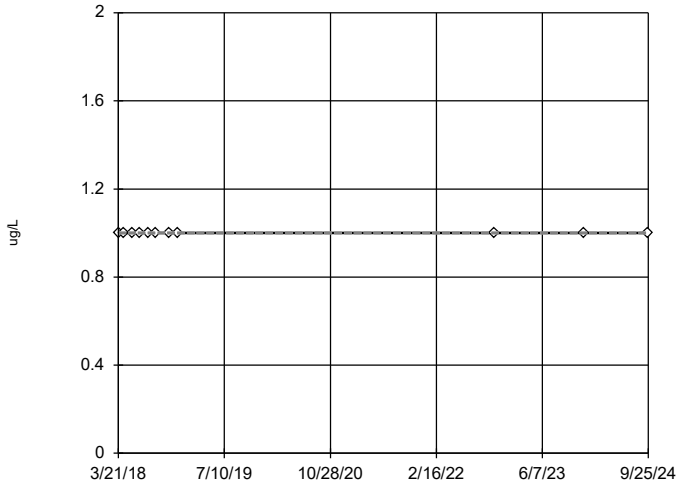
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-3 (bg)



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

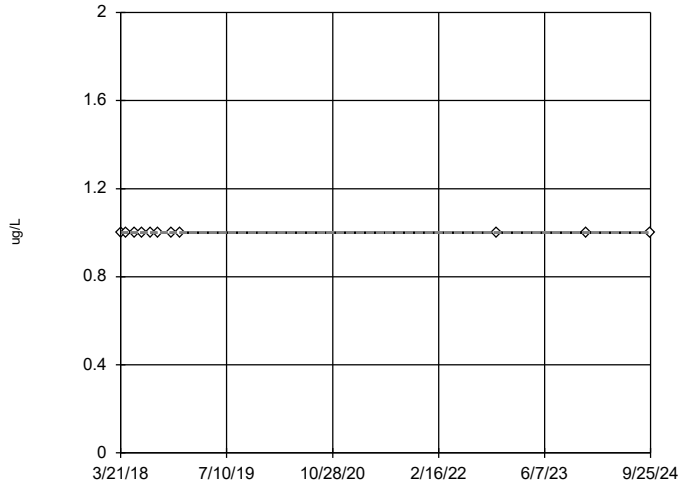
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-7



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

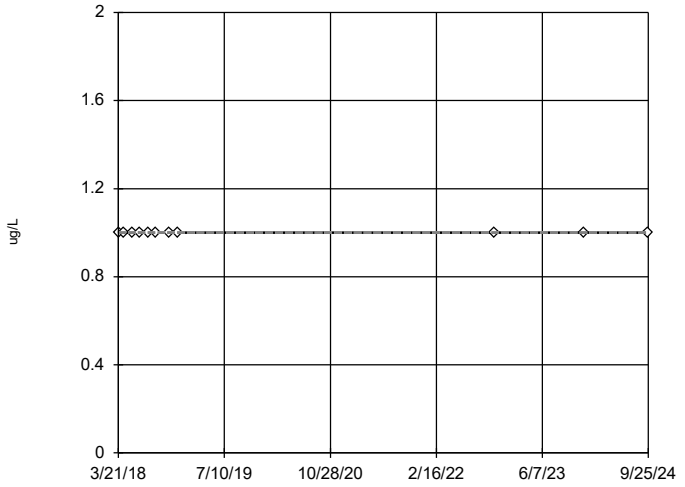
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-9



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

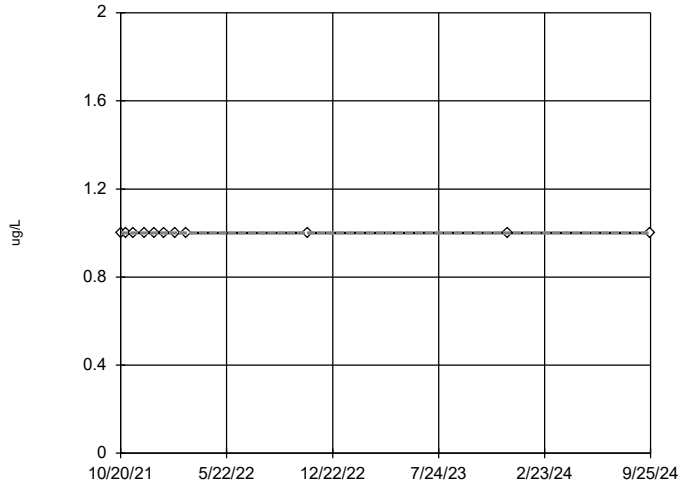
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-1R



n = 11

No outliers found. Tukey's method selected by user.

All values are the same.

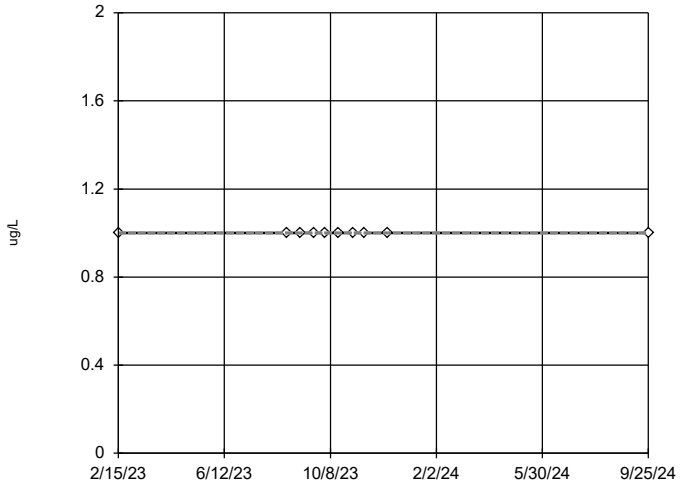
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-10



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

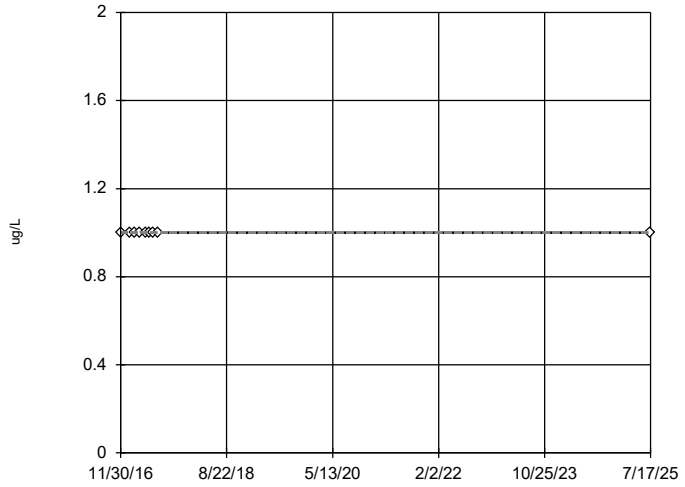
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Thallium

MW-4



n = 9

No outliers found. Tukey's method selected by user.

All values are the same.

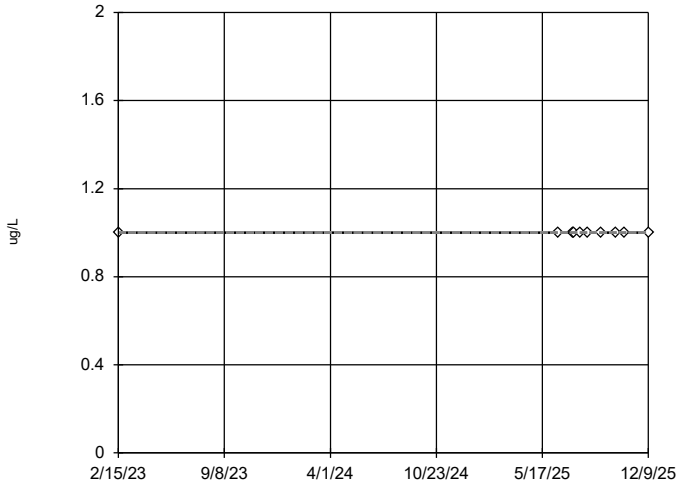
Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Thallium

NE-3



n = 10

No outliers found. Tukey's method selected by user.

All values are the same.

Tukey's Outlier Screening Analysis Run 1/26/2026 11:49 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Appendix 9-2

Confidence Interval Summary (Assessment)
(Sanitas* Output Summary)

Confidence Interval

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (ug/L)	**MW-1R**	**10.9**	**6.851**	**6**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
Molybdenum (ug/L)	**MW-7**	**172.5**	**122.5**	**100**	**Yes**	**15**	**0**	**ln(x)**	**0.01**	**Param.**
Molybdenum (ug/L)	**MW-9**	**531.7**	**203**	**100**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
Molybdenum (ug/L)	**MW-1R**	**206**	**171.8**	**100**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**

Confidence Interval

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (ug/L)	MW-2 (bg)	3	3	6	No	11	100	No	0.006	NP (NDs)
Antimony (ug/L)	MW-3 (bg)	3	3	6	No	11	100	No	0.006	NP (NDs)
Antimony (ug/L)	MW-7	3	3	6	No	11	100	No	0.006	NP (NDs)
Antimony (ug/L)	MW-9	3	3	6	No	11	100	No	0.006	NP (NDs)
Antimony (ug/L)	MW-1R	3	3	6	No	11	100	No	0.006	NP (NDs)
Antimony (ug/L)	MW-10	3	3	6	No	10	100	No	0.011	NP (NDs)
Antimony (ug/L)	MW-4	3	3	6	No	9	100	No	0.002	NP (NDs)
Antimony (ug/L)	NE-3	3	3	6	No	10	90	No	0.011	NP (NDs)
Arsenic (ug/L)	MW-2 (bg)	1	1	10	No	14	100	No	0.01	NP (NDs)
Arsenic (ug/L)	MW-3 (bg)	1	1	10	No	14	100	No	0.01	NP (NDs)
Arsenic (ug/L)	MW-7	1	1	10	No	14	100	No	0.01	NP (NDs)
Arsenic (ug/L)	MW-9	1.2	1	10	No	14	92.86	No	0.01	NP (NDs)
Arsenic (ug/L)	MW-1R	1.3	1	10	No	13	76.92	No	0.01	NP (NDs)
Arsenic (ug/L)	MW-10	7.045	5.57	10	No	13	0	No	0.01	Param.
Arsenic (ug/L)	MW-4	1	1	10	No	10	100	No	0.011	NP (NDs)
Arsenic (ug/L)	NE-3	1.661	1.411	10	No	11	0	No	0.01	Param.
Barium (ug/L)	MW-2 (bg)	202.7	149.4	2000	No	15	0	No	0.01	Param.
Barium (ug/L)	MW-3 (bg)	99.03	82.49	2000	No	15	0	No	0.01	Param.
Barium (ug/L)	MW-7	67.31	46.43	2000	No	15	0	ln(x)	0.01	Param.
Barium (ug/L)	MW-9	90.9	47	2000	No	15	0	No	0.01	NP (normality)
Barium (ug/L)	MW-1R	49.77	38.28	2000	No	15	0	No	0.01	Param.
Barium (ug/L)	MW-10	148.1	129.6	2000	No	13	0	No	0.01	Param.
Barium (ug/L)	MW-4	107	45	2000	No	10	0	No	0.011	NP (normality)
Barium (ug/L)	NE-3	340.8	308.1	2000	No	11	0	No	0.01	Param.
Beryllium (ug/L)	MW-2 (bg)	1	1	4	No	11	100	No	0.006	NP (NDs)
Beryllium (ug/L)	MW-3 (bg)	1	1	4	No	11	100	No	0.006	NP (NDs)
Beryllium (ug/L)	MW-7	1	1	4	No	11	100	No	0.006	NP (NDs)
Beryllium (ug/L)	MW-9	1	1	4	No	11	100	No	0.006	NP (NDs)
Beryllium (ug/L)	MW-1R	1	1	4	No	11	100	No	0.006	NP (NDs)
Beryllium (ug/L)	MW-10	1	1	4	No	10	100	No	0.011	NP (NDs)
Beryllium (ug/L)	MW-4	2	1	4	No	9	100	No	0.002	NP (NDs)
Beryllium (ug/L)	NE-3	1	1	4	No	10	100	No	0.011	NP (NDs)
Cadmium (ug/L)	MW-2 (bg)	1	1	5	No	11	100	No	0.006	NP (NDs)
Cadmium (ug/L)	MW-3 (bg)	1	1	5	No	11	100	No	0.006	NP (NDs)
Cadmium (ug/L)	MW-7	1	1	5	No	11	100	No	0.006	NP (NDs)
Cadmium (ug/L)	MW-9	1	1	5	No	11	100	No	0.006	NP (NDs)
Cadmium (ug/L)	MW-1R	1	1	5	No	11	100	No	0.006	NP (NDs)
Cadmium (ug/L)	MW-10	1	1	5	No	10	100	No	0.011	NP (NDs)
Cadmium (ug/L)	MW-4	1	1	5	No	9	100	No	0.002	NP (NDs)
Cadmium (ug/L)	NE-3	1	1	5	No	10	90	No	0.011	NP (NDs)
Chromium (ug/L)	MW-2 (bg)	4	4	100	No	11	100	No	0.006	NP (NDs)
Chromium (ug/L)	MW-3 (bg)	4	4	100	No	11	100	No	0.006	NP (NDs)
Chromium (ug/L)	MW-7	4	4	100	No	11	100	No	0.006	NP (NDs)
Chromium (ug/L)	MW-9	4	4	100	No	11	90.91	No	0.006	NP (NDs)
Chromium (ug/L)	MW-1R	4	4	100	No	11	100	No	0.006	NP (NDs)
Chromium (ug/L)	MW-10	4	4	100	No	10	100	No	0.011	NP (NDs)
Chromium (ug/L)	MW-4	4	4	100	No	9	100	No	0.002	NP (NDs)
Chromium (ug/L)	NE-3	4	4	100	No	10	90	No	0.011	NP (NDs)
Cobalt (ug/L)	MW-2 (bg)	2.4	2	6	No	15	80	No	0.01	NP (NDs)
Cobalt (ug/L)	MW-3 (bg)	2	2	6	No	15	93.33	No	0.01	NP (NDs)

Confidence Interval

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (ug/L)	MW-7	2.8	2	6	No	15	13.33	No	0.01	NP (normality)
Cobalt (ug/L)	MW-9	2.2	2	6	No	15	80	No	0.01	NP (NDs)
Cobalt (ug/L)	**MW-1R**	**10.9**	**6.851**	**6**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
Cobalt (ug/L)	MW-10	2	1	6	No	13	92.31	No	0.01	NP (NDs)
Cobalt (ug/L)	MW-4	2	2	6	No	10	100	No	0.011	NP (NDs)
Cobalt (ug/L)	NE-3	2	2	6	No	11	90.91	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-2 (bg)	0.254	0.12	4	No	23	65.22	No	0.01	NP (normality)
Fluoride (mg/L)	MW-3 (bg)	0.308	0.18	4	No	23	52.17	No	0.01	NP (normality)
Fluoride (mg/L)	MW-7	0.6751	0.571	4	No	23	0	No	0.01	Param.
Fluoride (mg/L)	MW-9	0.958	0.7565	4	No	23	0	No	0.01	Param.
Fluoride (mg/L)	MW-1R	0.286	0.14	4	No	17	64.71	No	0.01	NP (normality)
Fluoride (mg/L)	MW-10	0.31	0.25	4	No	14	7.143	No	0.01	NP (normality)
Fluoride (mg/L)	MW-4	0.25	0.25	4	No	29	93.1	No	0.01	NP (NDs)
Fluoride (mg/L)	NE-3	0.1626	0.07192	4	No	11	9.091	No	0.01	Param.
Lead (ug/L)	MW-2 (bg)	1	1	15	No	11	100	No	0.006	NP (NDs)
Lead (ug/L)	MW-3 (bg)	1	1	15	No	11	100	No	0.006	NP (NDs)
Lead (ug/L)	MW-7	1	1	15	No	11	100	No	0.006	NP (NDs)
Lead (ug/L)	MW-9	1	1	15	No	11	100	No	0.006	NP (NDs)
Lead (ug/L)	MW-1R	1	1	15	No	11	100	No	0.006	NP (NDs)
Lead (ug/L)	MW-10	1	1	15	No	10	100	No	0.011	NP (NDs)
Lead (ug/L)	MW-4	1	1	15	No	9	100	No	0.002	NP (NDs)
Lead (ug/L)	NE-3	1	1	15	No	10	90	No	0.011	NP (NDs)
Lithium (ug/L)	MW-2 (bg)	20	10	40	No	15	93.33	No	0.01	NP (NDs)
Lithium (ug/L)	MW-3 (bg)	20	10	40	No	15	93.33	No	0.01	NP (NDs)
Lithium (ug/L)	MW-7	41.3	25	40	No	15	0	No	0.01	NP (normality)
Lithium (ug/L)	MW-9	24.33	15.89	40	No	15	6.667	No	0.01	Param.
Lithium (ug/L)	MW-1R	19	10	40	No	15	33.33	No	0.01	NP (normality)
Lithium (ug/L)	MW-10	40	10	40	No	13	30.77	No	0.01	NP (normality)
Lithium (ug/L)	MW-4	10	10	40	No	10	100	No	0.011	NP (NDs)
Lithium (ug/L)	NE-3	10	10	40	No	11	90.91	No	0.006	NP (NDs)
Mercury (ug/L)	MW-2 (bg)	0.2	0.2	2	No	11	100	No	0.006	NP (NDs)
Mercury (ug/L)	MW-3 (bg)	0.2	0.2	2	No	11	100	No	0.006	NP (NDs)
Mercury (ug/L)	MW-7	0.2	0.2	2	No	11	100	No	0.006	NP (NDs)
Mercury (ug/L)	MW-9	0.2	0.2	2	No	11	100	No	0.006	NP (NDs)
Mercury (ug/L)	MW-1R	0.2	0.2	2	No	11	100	No	0.006	NP (NDs)
Mercury (ug/L)	MW-10	0.2	0.2	2	No	10	100	No	0.011	NP (NDs)
Mercury (ug/L)	MW-4	1.3	0.2	2	No	9	88.89	No	0.002	NP (NDs)
Mercury (ug/L)	NE-3	0.2	0.2	2	No	10	90	No	0.011	NP (NDs)
Molybdenum (ug/L)	MW-2 (bg)	1.4	1	100	No	15	86.67	No	0.01	NP (NDs)
Molybdenum (ug/L)	MW-3 (bg)	1	1	100	No	15	93.33	No	0.01	NP (NDs)
Molybdenum (ug/L)	**MW-7**	**172.5**	**122.5**	**100**	**Yes**	**15**	**0**	**ln(x)**	**0.01**	**Param.**
Molybdenum (ug/L)	**MW-9**	**531.7**	**203**	**100**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
Molybdenum (ug/L)	**MW-1R**	**206**	**171.8**	**100**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
Molybdenum (ug/L)	MW-10	24.11	18.13	100	No	13	0	No	0.01	Param.
Molybdenum (ug/L)	MW-4	5.3	1	100	No	10	80	No	0.011	NP (NDs)
Molybdenum (ug/L)	NE-3	1.597	0.9733	100	No	11	36.36	No	0.01	Param.
Radium (pCi/L)	MW-2 (bg)	1.404	0.7319	5	No	13	15.38	No	0.01	Param.
Radium (pCi/L)	MW-3 (bg)	1.133	0.4912	5	No	13	15.38	No	0.01	Param.
Radium (pCi/L)	MW-7	1.357	0.6093	5	No	13	15.38	No	0.01	Param.
Radium (pCi/L)	MW-9	1.095	0.4886	5	No	13	15.38	No	0.01	Param.

Confidence Interval

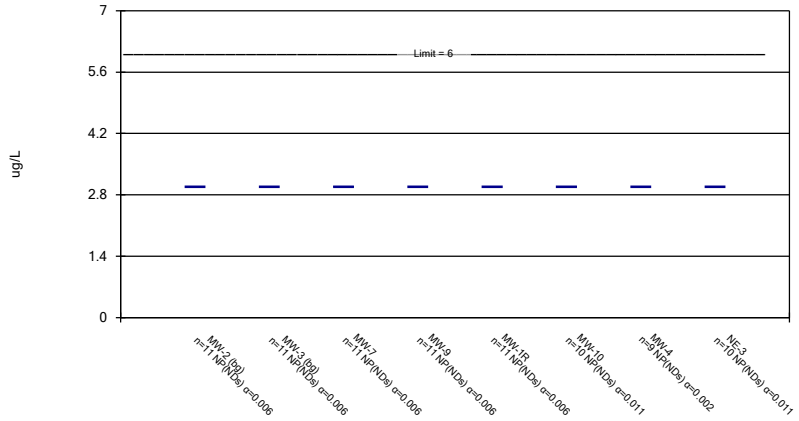
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Radium (pCi/L)	MW-1R	0.8889	0.4053	5	No	13	15.38	No	0.01	Param.
Radium (pCi/L)	MW-10	1.64	0.69	5	No	11	90.91	No	0.006	NP (NDs)
Radium (pCi/L)	MW-4	2	1.036	5	No	9	88.89	No	0.002	NP (NDs)
Radium (pCi/L)	NE-3	2	0	5	No	8	100	No	0.004	NP (NDs)
Selenium (ug/L)	MW-2 (bg)	1.4	1	50	No	13	84.62	No	0.01	NP (NDs)
Selenium (ug/L)	MW-3 (bg)	1	1	50	No	15	93.33	No	0.01	NP (NDs)
Selenium (ug/L)	MW-7	17.15	2.922	50	No	15	6.667	ln(x)	0.01	Param.
Selenium (ug/L)	MW-9	1	1	50	No	15	93.33	No	0.01	NP (NDs)
Selenium (ug/L)	MW-1R	1	1	50	No	15	93.33	No	0.01	NP (NDs)
Selenium (ug/L)	MW-10	1	1	50	No	13	92.31	No	0.01	NP (NDs)
Selenium (ug/L)	MW-4	1	1	50	No	10	100	No	0.011	NP (NDs)
Selenium (ug/L)	NE-3	1	1	50	No	11	81.82	No	0.006	NP (NDs)
Thallium (ug/L)	MW-2 (bg)	1	1	2	No	11	100	No	0.006	NP (NDs)
Thallium (ug/L)	MW-3 (bg)	1	1	2	No	11	100	No	0.006	NP (NDs)
Thallium (ug/L)	MW-7	1	1	2	No	11	100	No	0.006	NP (NDs)
Thallium (ug/L)	MW-9	1	1	2	No	11	100	No	0.006	NP (NDs)
Thallium (ug/L)	MW-1R	1	1	2	No	11	100	No	0.006	NP (NDs)
Thallium (ug/L)	MW-10	1	1	2	No	10	100	No	0.011	NP (NDs)
Thallium (ug/L)	MW-4	1	1	2	No	9	100	No	0.002	NP (NDs)
Thallium (ug/L)	NE-3	1	1	2	No	10	80	No	0.011	NP (NDs)

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

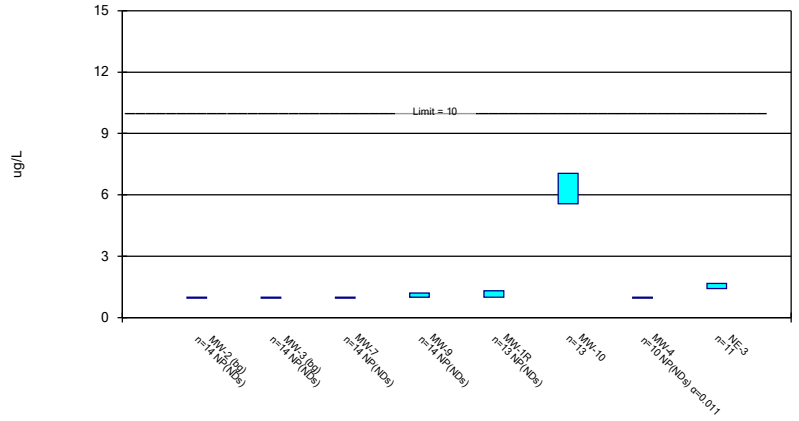


Constituent: Antimony Analysis Run 4/2/2026 8:51 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

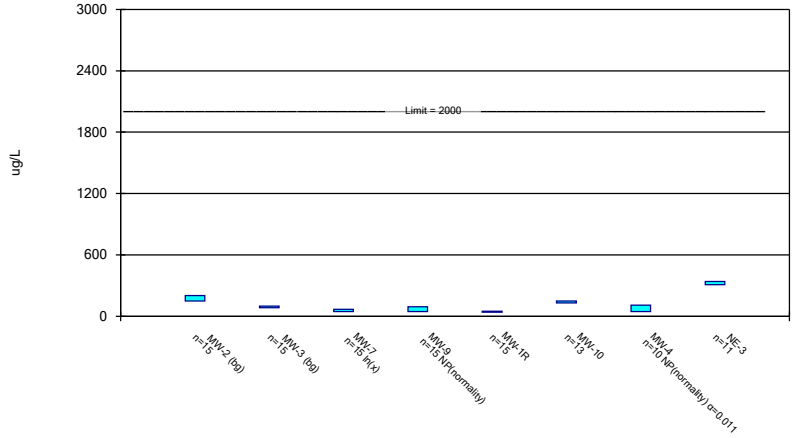


Constituent: Arsenic Analysis Run 4/2/2026 8:51 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

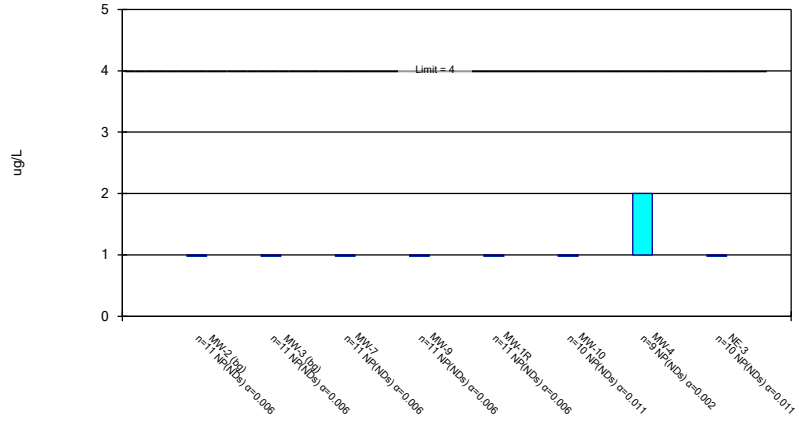


Constituent: Barium Analysis Run 4/2/2026 8:51 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

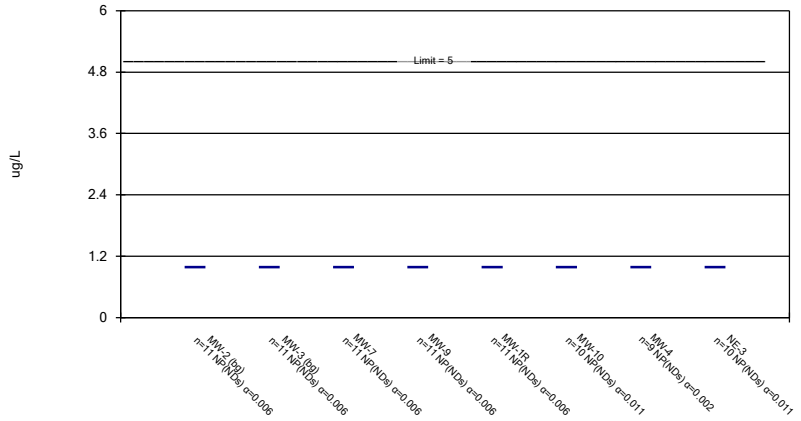


Constituent: Beryllium Analysis Run 4/2/2026 8:51 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

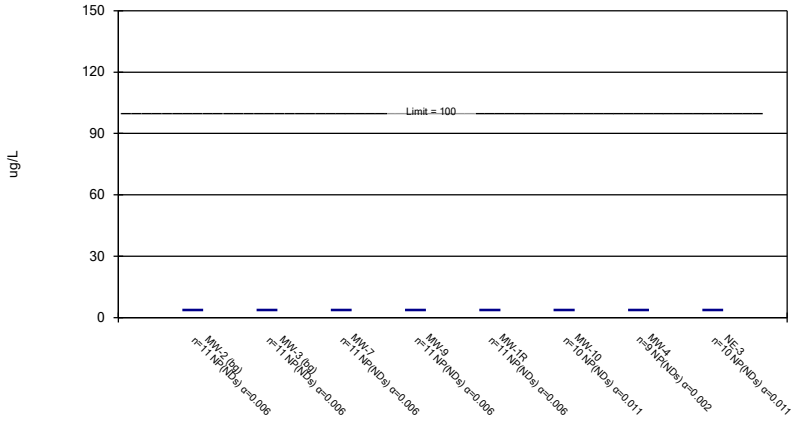


Constituent: Cadmium Analysis Run 4/2/2026 8:51 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

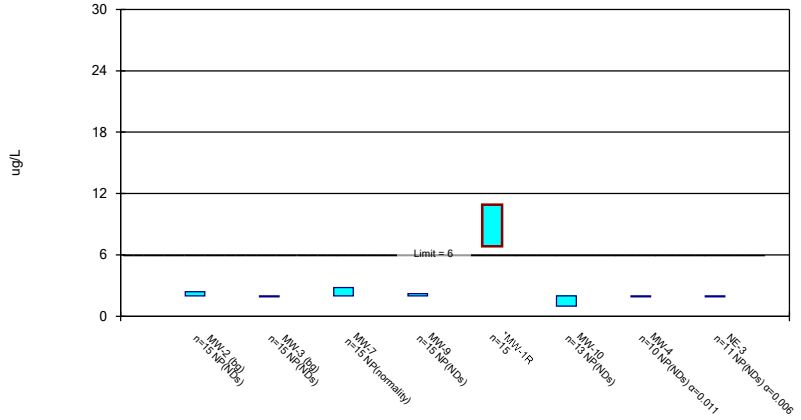


Constituent: Chromium Analysis Run 4/2/2026 8:51 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

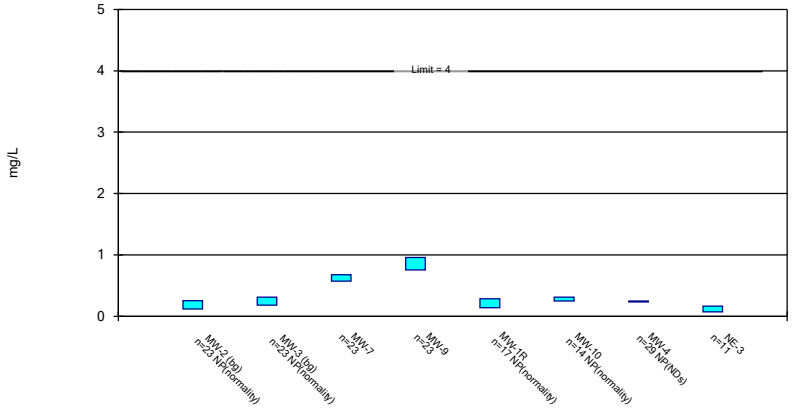


Constituent: Cobalt Analysis Run 4/2/2026 8:51 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

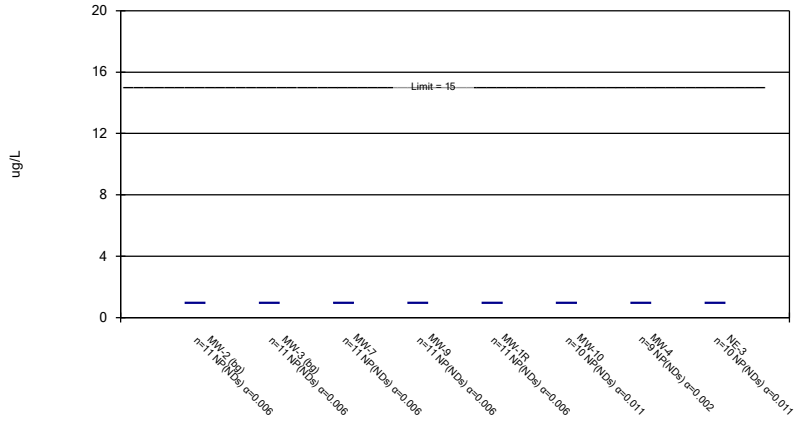


Constituent: Fluoride Analysis Run 4/2/2026 8:51 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



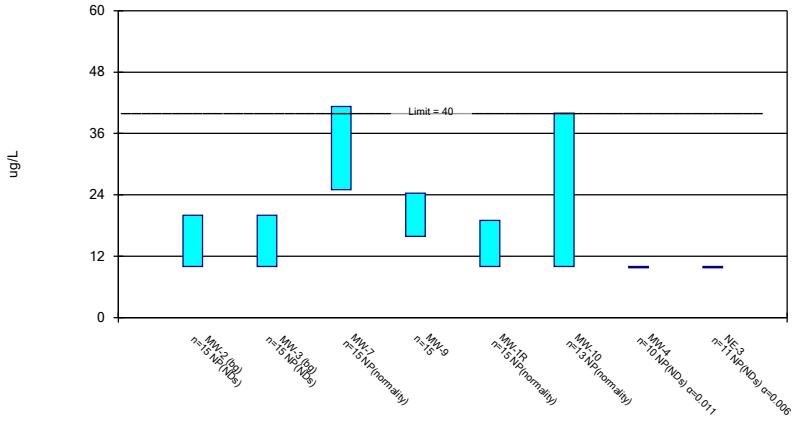
Constituent: Lead Analysis Run 4/2/2026 8:51 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



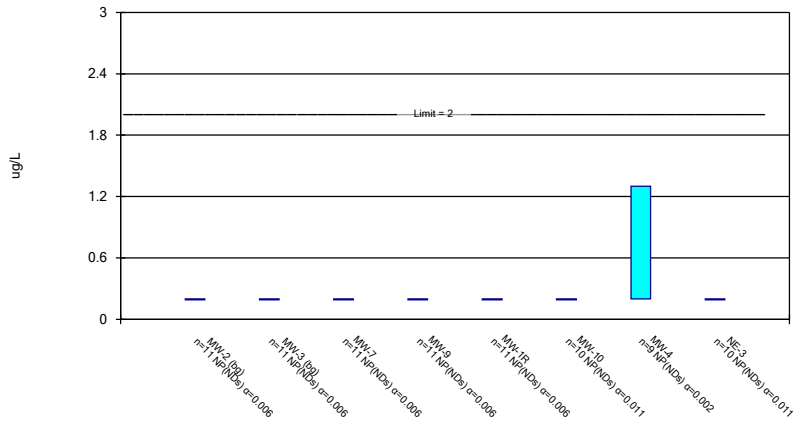
Constituent: Lithium Analysis Run 4/2/2026 8:51 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



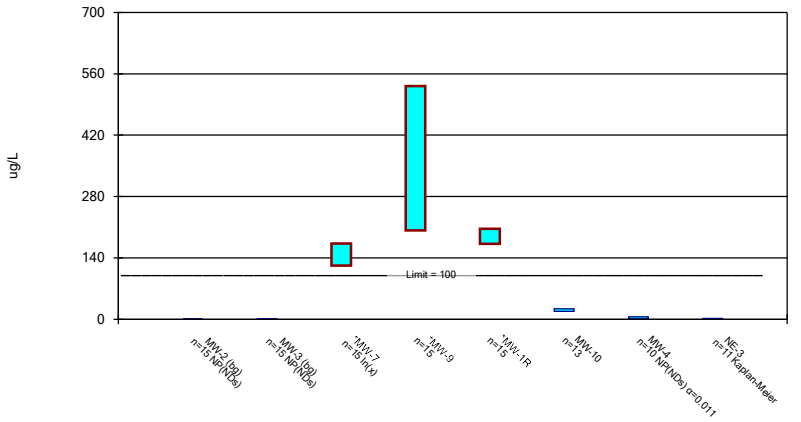
Constituent: Mercury Analysis Run 4/2/2026 8:51 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



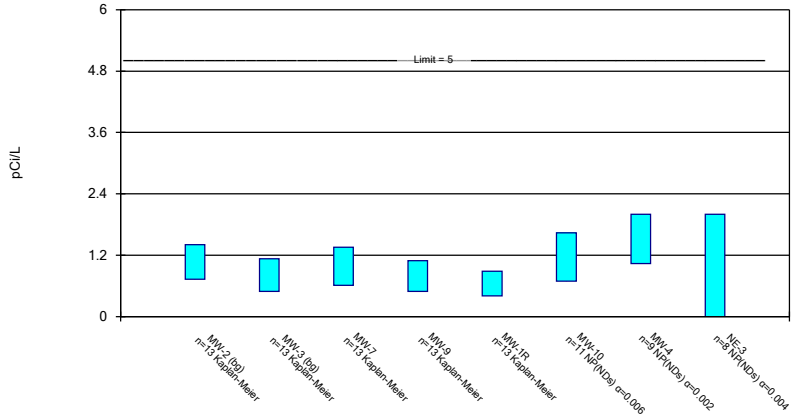
Constituent: Molybdenum Analysis Run 4/2/2026 8:51 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

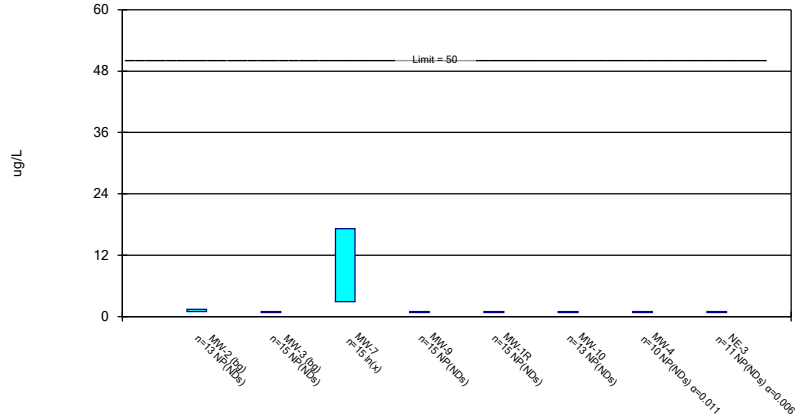


Constituent: Radium Analysis Run 4/2/2026 8:51 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

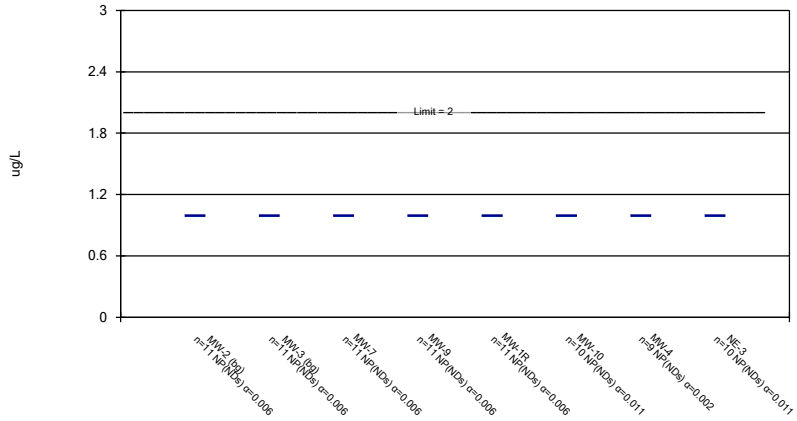


Constituent: Selenium Analysis Run 4/2/2026 8:51 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 4/2/2026 8:51 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Appendix 9-3

Confidence Interval Summary (Corrective Action)
(Sanitas* Output Summary)

Confidence Interval

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (ug/L)	**MW-1R**	**10.9**	**6.851**	**6**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
Lithium (ug/L)	**MW-7**	**41.3**	**25**	**40**	**Yes**	**15**	**0**	**No**	**0.01**	**NP (normality)**
Molybdenum (ug/L)	**MW-7**	**172.5**	**122.5**	**100**	**Yes**	**15**	**0**	**ln(x)**	**0.01**	**Param.**
Molybdenum (ug/L)	**MW-9**	**531.7**	**203**	**100**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
Molybdenum (ug/L)	**MW-1R**	**206**	**171.8**	**100**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**

Confidence Interval

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (ug/L)	MW-2 (bg)	3	3	6	No	11	100	No	0.006	NP (NDs)
Antimony (ug/L)	MW-3 (bg)	3	3	6	No	11	100	No	0.006	NP (NDs)
Antimony (ug/L)	MW-7	3	3	6	No	11	100	No	0.006	NP (NDs)
Antimony (ug/L)	MW-9	3	3	6	No	11	100	No	0.006	NP (NDs)
Antimony (ug/L)	MW-1R	3	3	6	No	11	100	No	0.006	NP (NDs)
Antimony (ug/L)	MW-10	3	3	6	No	10	100	No	0.011	NP (NDs)
Antimony (ug/L)	MW-4	3	3	6	No	9	100	No	0.002	NP (NDs)
Antimony (ug/L)	NE-3	3	3	6	No	10	90	No	0.011	NP (NDs)
Arsenic (ug/L)	MW-2 (bg)	1	1	10	No	14	100	No	0.01	NP (NDs)
Arsenic (ug/L)	MW-3 (bg)	1	1	10	No	14	100	No	0.01	NP (NDs)
Arsenic (ug/L)	MW-7	1	1	10	No	14	100	No	0.01	NP (NDs)
Arsenic (ug/L)	MW-9	1.2	1	10	No	14	92.86	No	0.01	NP (NDs)
Arsenic (ug/L)	MW-1R	1.3	1	10	No	13	76.92	No	0.01	NP (NDs)
Arsenic (ug/L)	MW-10	7.045	5.57	10	No	13	0	No	0.01	Param.
Arsenic (ug/L)	MW-4	1	1	10	No	10	100	No	0.011	NP (NDs)
Arsenic (ug/L)	NE-3	1.661	1.411	10	No	11	0	No	0.01	Param.
Barium (ug/L)	MW-2 (bg)	202.7	149.4	2000	No	15	0	No	0.01	Param.
Barium (ug/L)	MW-3 (bg)	99.03	82.49	2000	No	15	0	No	0.01	Param.
Barium (ug/L)	MW-7	67.31	46.43	2000	No	15	0	ln(x)	0.01	Param.
Barium (ug/L)	MW-9	90.9	47	2000	No	15	0	No	0.01	NP (normality)
Barium (ug/L)	MW-1R	49.77	38.28	2000	No	15	0	No	0.01	Param.
Barium (ug/L)	MW-10	148.1	129.6	2000	No	13	0	No	0.01	Param.
Barium (ug/L)	MW-4	107	45	2000	No	10	0	No	0.011	NP (normality)
Barium (ug/L)	NE-3	340.8	308.1	2000	No	11	0	No	0.01	Param.
Beryllium (ug/L)	MW-2 (bg)	1	1	4	No	11	100	No	0.006	NP (NDs)
Beryllium (ug/L)	MW-3 (bg)	1	1	4	No	11	100	No	0.006	NP (NDs)
Beryllium (ug/L)	MW-7	1	1	4	No	11	100	No	0.006	NP (NDs)
Beryllium (ug/L)	MW-9	1	1	4	No	11	100	No	0.006	NP (NDs)
Beryllium (ug/L)	MW-1R	1	1	4	No	11	100	No	0.006	NP (NDs)
Beryllium (ug/L)	MW-10	1	1	4	No	10	100	No	0.011	NP (NDs)
Beryllium (ug/L)	MW-4	2	1	4	No	9	100	No	0.002	NP (NDs)
Beryllium (ug/L)	NE-3	1	1	4	No	10	100	No	0.011	NP (NDs)
Cadmium (ug/L)	MW-2 (bg)	1	1	5	No	11	100	No	0.006	NP (NDs)
Cadmium (ug/L)	MW-3 (bg)	1	1	5	No	11	100	No	0.006	NP (NDs)
Cadmium (ug/L)	MW-7	1	1	5	No	11	100	No	0.006	NP (NDs)
Cadmium (ug/L)	MW-9	1	1	5	No	11	100	No	0.006	NP (NDs)
Cadmium (ug/L)	MW-1R	1	1	5	No	11	100	No	0.006	NP (NDs)
Cadmium (ug/L)	MW-10	1	1	5	No	10	100	No	0.011	NP (NDs)
Cadmium (ug/L)	MW-4	1	1	5	No	9	100	No	0.002	NP (NDs)
Cadmium (ug/L)	NE-3	1	1	5	No	10	90	No	0.011	NP (NDs)
Chromium (ug/L)	MW-2 (bg)	4	4	100	No	11	100	No	0.006	NP (NDs)
Chromium (ug/L)	MW-3 (bg)	4	4	100	No	11	100	No	0.006	NP (NDs)
Chromium (ug/L)	MW-7	4	4	100	No	11	100	No	0.006	NP (NDs)
Chromium (ug/L)	MW-9	4	4	100	No	11	90.91	No	0.006	NP (NDs)
Chromium (ug/L)	MW-1R	4	4	100	No	11	100	No	0.006	NP (NDs)
Chromium (ug/L)	MW-10	4	4	100	No	10	100	No	0.011	NP (NDs)
Chromium (ug/L)	MW-4	4	4	100	No	9	100	No	0.002	NP (NDs)
Chromium (ug/L)	NE-3	4	4	100	No	10	90	No	0.011	NP (NDs)
Cobalt (ug/L)	MW-2 (bg)	2.4	2	6	No	15	80	No	0.01	NP (NDs)
Cobalt (ug/L)	MW-3 (bg)	2	2	6	No	15	93.33	No	0.01	NP (NDs)

Confidence Interval

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (ug/L)	MW-7	2.8	2	6	No	15	13.33	No	0.01	NP (normality)
Cobalt (ug/L)	MW-9	2.2	2	6	No	15	80	No	0.01	NP (NDs)
Cobalt (ug/L)	**MW-1R**	**10.9**	**6.851**	**6**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
Cobalt (ug/L)	MW-10	2	1	6	No	13	92.31	No	0.01	NP (NDs)
Cobalt (ug/L)	MW-4	2	2	6	No	10	100	No	0.011	NP (NDs)
Cobalt (ug/L)	NE-3	2	2	6	No	11	90.91	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-2 (bg)	0.254	0.12	4	No	23	65.22	No	0.01	NP (normality)
Fluoride (mg/L)	MW-3 (bg)	0.308	0.18	4	No	23	52.17	No	0.01	NP (normality)
Fluoride (mg/L)	MW-7	0.6751	0.571	4	No	23	0	No	0.01	Param.
Fluoride (mg/L)	MW-9	0.958	0.7565	4	No	23	0	No	0.01	Param.
Fluoride (mg/L)	MW-1R	0.286	0.14	4	No	17	64.71	No	0.01	NP (normality)
Fluoride (mg/L)	MW-10	0.31	0.25	4	No	14	7.143	No	0.01	NP (normality)
Fluoride (mg/L)	MW-4	0.25	0.25	4	No	29	93.1	No	0.01	NP (NDs)
Fluoride (mg/L)	NE-3	0.1626	0.07192	4	No	11	9.091	No	0.01	Param.
Lead (ug/L)	MW-2 (bg)	1	1	15	No	11	100	No	0.006	NP (NDs)
Lead (ug/L)	MW-3 (bg)	1	1	15	No	11	100	No	0.006	NP (NDs)
Lead (ug/L)	MW-7	1	1	15	No	11	100	No	0.006	NP (NDs)
Lead (ug/L)	MW-9	1	1	15	No	11	100	No	0.006	NP (NDs)
Lead (ug/L)	MW-1R	1	1	15	No	11	100	No	0.006	NP (NDs)
Lead (ug/L)	MW-10	1	1	15	No	10	100	No	0.011	NP (NDs)
Lead (ug/L)	MW-4	1	1	15	No	9	100	No	0.002	NP (NDs)
Lead (ug/L)	NE-3	1	1	15	No	10	90	No	0.011	NP (NDs)
Lithium (ug/L)	MW-2 (bg)	20	10	40	No	15	93.33	No	0.01	NP (NDs)
Lithium (ug/L)	MW-3 (bg)	20	10	40	No	15	93.33	No	0.01	NP (NDs)
Lithium (ug/L)	**MW-7**	**41.3**	**25**	**40**	**Yes**	**15**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (ug/L)	MW-9	24.33	15.89	40	No	15	6.667	No	0.01	Param.
Lithium (ug/L)	MW-1R	19	10	40	No	15	33.33	No	0.01	NP (normality)
Lithium (ug/L)	MW-10	40	10	40	No	13	30.77	No	0.01	NP (normality)
Lithium (ug/L)	MW-4	10	10	40	No	10	100	No	0.011	NP (NDs)
Lithium (ug/L)	NE-3	10	10	40	No	11	90.91	No	0.006	NP (NDs)
Mercury (ug/L)	MW-2 (bg)	0.2	0.2	2	No	11	100	No	0.006	NP (NDs)
Mercury (ug/L)	MW-3 (bg)	0.2	0.2	2	No	11	100	No	0.006	NP (NDs)
Mercury (ug/L)	MW-7	0.2	0.2	2	No	11	100	No	0.006	NP (NDs)
Mercury (ug/L)	MW-9	0.2	0.2	2	No	11	100	No	0.006	NP (NDs)
Mercury (ug/L)	MW-1R	0.2	0.2	2	No	11	100	No	0.006	NP (NDs)
Mercury (ug/L)	MW-10	0.2	0.2	2	No	10	100	No	0.011	NP (NDs)
Mercury (ug/L)	MW-4	1.3	0.2	2	No	9	88.89	No	0.002	NP (NDs)
Mercury (ug/L)	NE-3	0.2	0.2	2	No	10	90	No	0.011	NP (NDs)
Molybdenum (ug/L)	MW-2 (bg)	1.4	1	100	No	15	86.67	No	0.01	NP (NDs)
Molybdenum (ug/L)	MW-3 (bg)	1	1	100	No	15	93.33	No	0.01	NP (NDs)
Molybdenum (ug/L)	**MW-7**	**172.5**	**122.5**	**100**	**Yes**	**15**	**0**	**ln(x)**	**0.01**	**Param.**
Molybdenum (ug/L)	**MW-9**	**531.7**	**203**	**100**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
Molybdenum (ug/L)	**MW-1R**	**206**	**171.8**	**100**	**Yes**	**15**	**0**	**No**	**0.01**	**Param.**
Molybdenum (ug/L)	MW-10	24.11	18.13	100	No	13	0	No	0.01	Param.
Molybdenum (ug/L)	MW-4	5.3	1	100	No	10	80	No	0.011	NP (NDs)
Molybdenum (ug/L)	NE-3	1.597	0.9733	100	No	11	36.36	No	0.01	Param.
Radium (pCi/L)	MW-2 (bg)	1.404	0.7319	5	No	13	15.38	No	0.01	Param.
Radium (pCi/L)	MW-3 (bg)	1.133	0.4912	5	No	13	15.38	No	0.01	Param.
Radium (pCi/L)	MW-7	1.357	0.6093	5	No	13	15.38	No	0.01	Param.
Radium (pCi/L)	MW-9	1.095	0.4886	5	No	13	15.38	No	0.01	Param.

Confidence Interval

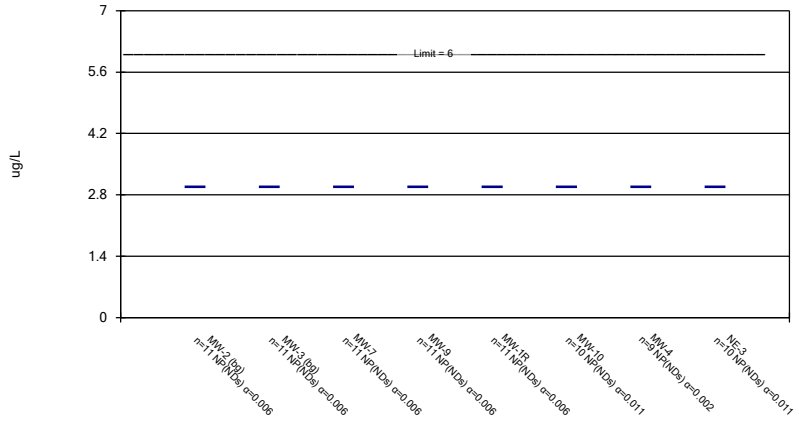
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Radium (pCi/L)	MW-1R	0.8889	0.4053	5	No	13	15.38	No	0.01	Param.
Radium (pCi/L)	MW-10	1.64	0.69	5	No	11	90.91	No	0.006	NP (NDs)
Radium (pCi/L)	MW-4	2	1.036	5	No	9	88.89	No	0.002	NP (NDs)
Radium (pCi/L)	NE-3	2	0	5	No	8	100	No	0.004	NP (NDs)
Selenium (ug/L)	MW-2 (bg)	1.4	1	50	No	13	84.62	No	0.01	NP (NDs)
Selenium (ug/L)	MW-3 (bg)	1	1	50	No	15	93.33	No	0.01	NP (NDs)
Selenium (ug/L)	MW-7	17.15	2.922	50	No	15	6.667	ln(x)	0.01	Param.
Selenium (ug/L)	MW-9	1	1	50	No	15	93.33	No	0.01	NP (NDs)
Selenium (ug/L)	MW-1R	1	1	50	No	15	93.33	No	0.01	NP (NDs)
Selenium (ug/L)	MW-10	1	1	50	No	13	92.31	No	0.01	NP (NDs)
Selenium (ug/L)	MW-4	1	1	50	No	10	100	No	0.011	NP (NDs)
Selenium (ug/L)	NE-3	1	1	50	No	11	81.82	No	0.006	NP (NDs)
Thallium (ug/L)	MW-2 (bg)	1	1	2	No	11	100	No	0.006	NP (NDs)
Thallium (ug/L)	MW-3 (bg)	1	1	2	No	11	100	No	0.006	NP (NDs)
Thallium (ug/L)	MW-7	1	1	2	No	11	100	No	0.006	NP (NDs)
Thallium (ug/L)	MW-9	1	1	2	No	11	100	No	0.006	NP (NDs)
Thallium (ug/L)	MW-1R	1	1	2	No	11	100	No	0.006	NP (NDs)
Thallium (ug/L)	MW-10	1	1	2	No	10	100	No	0.011	NP (NDs)
Thallium (ug/L)	MW-4	1	1	2	No	9	100	No	0.002	NP (NDs)
Thallium (ug/L)	NE-3	1	1	2	No	10	80	No	0.011	NP (NDs)

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Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.

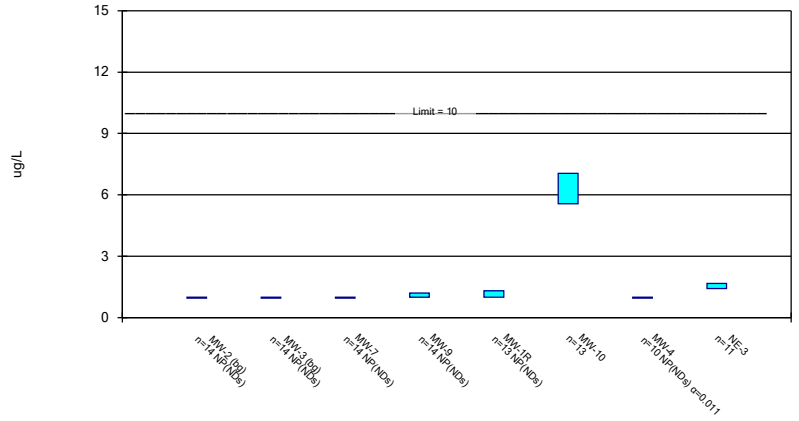


Constituent: Antimony Analysis Run 4/2/2026 8:38 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

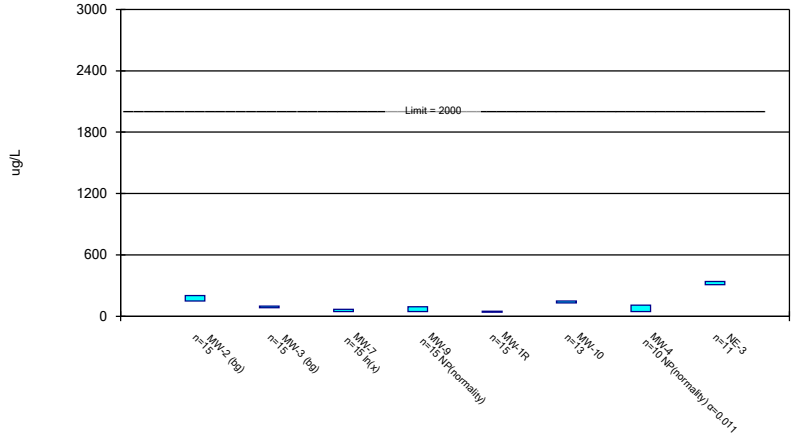


Constituent: Arsenic Analysis Run 4/2/2026 8:38 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

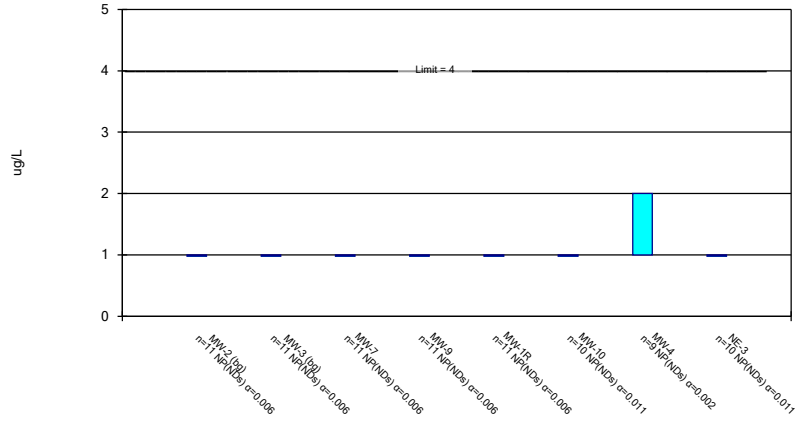


Constituent: Barium Analysis Run 4/2/2026 8:38 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.

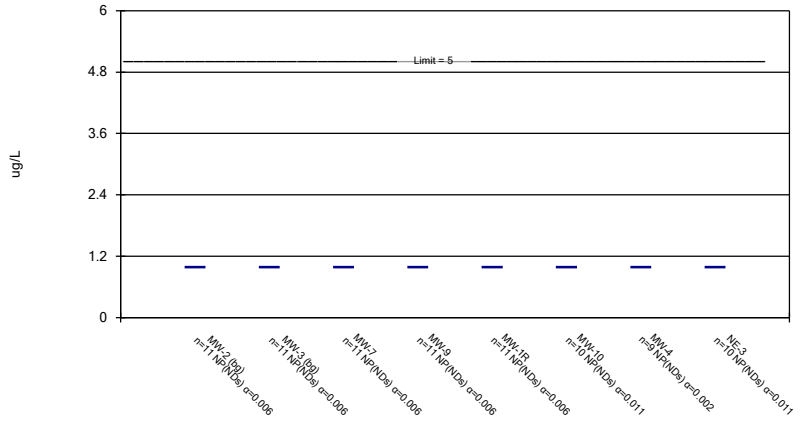


Constituent: Beryllium Analysis Run 4/2/2026 8:38 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.

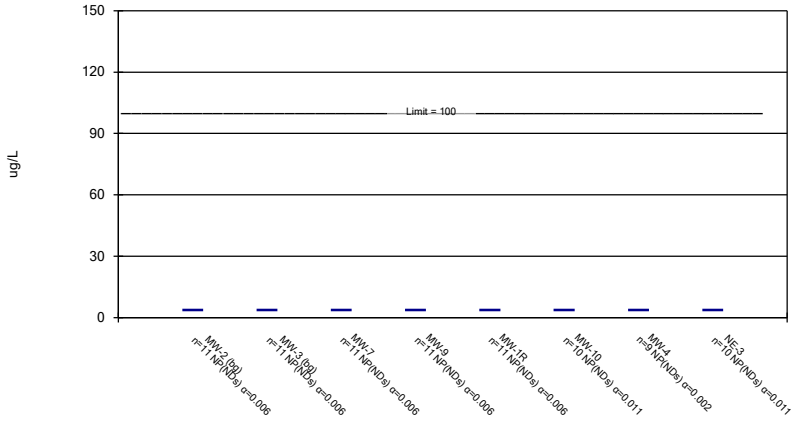


Constituent: Cadmium Analysis Run 4/2/2026 8:38 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.

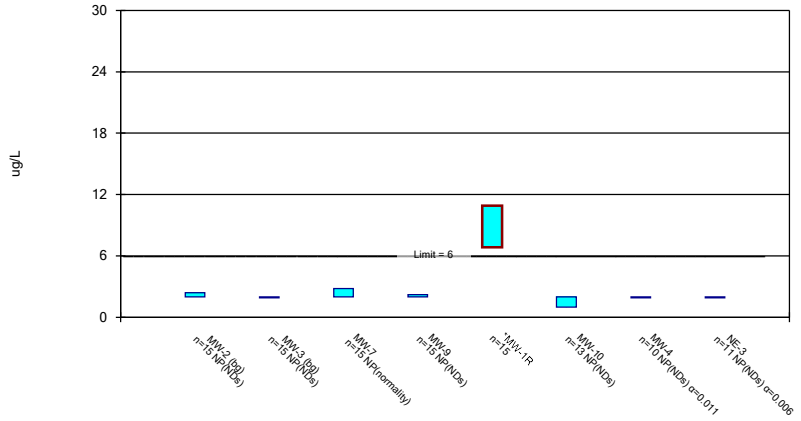


Constituent: Chromium Analysis Run 4/2/2026 8:38 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

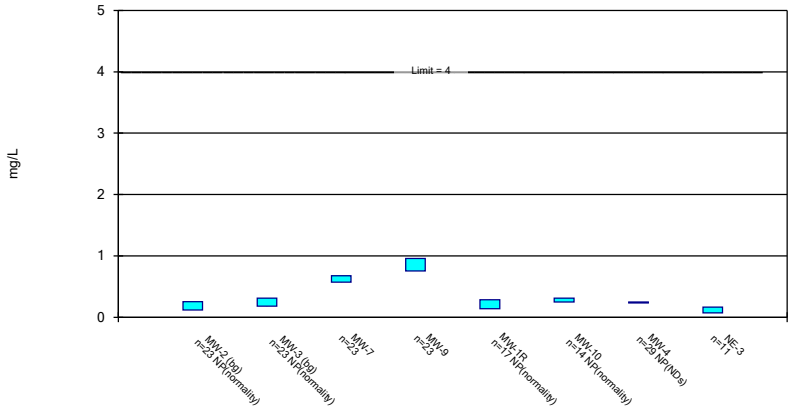


Constituent: Cobalt Analysis Run 4/2/2026 8:38 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

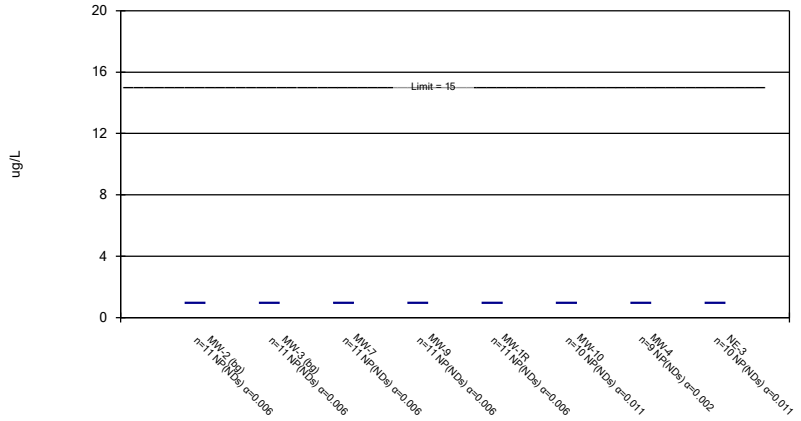


Constituent: Fluoride Analysis Run 4/2/2026 8:38 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



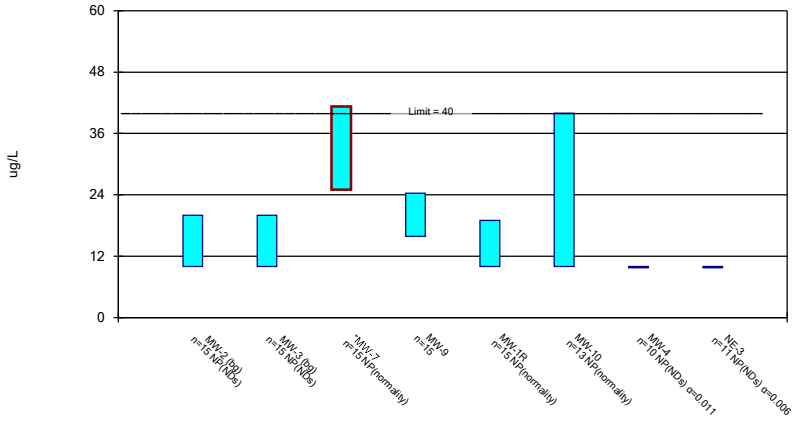
Constituent: Lead Analysis Run 4/2/2026 8:38 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



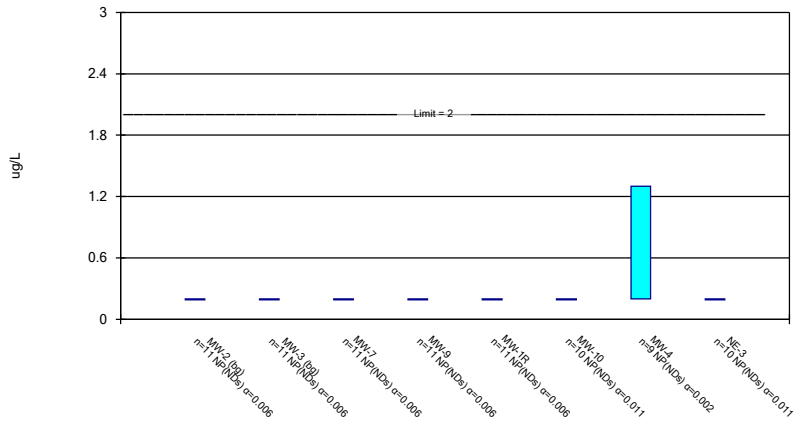
Constituent: Lithium Analysis Run 4/2/2026 8:38 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



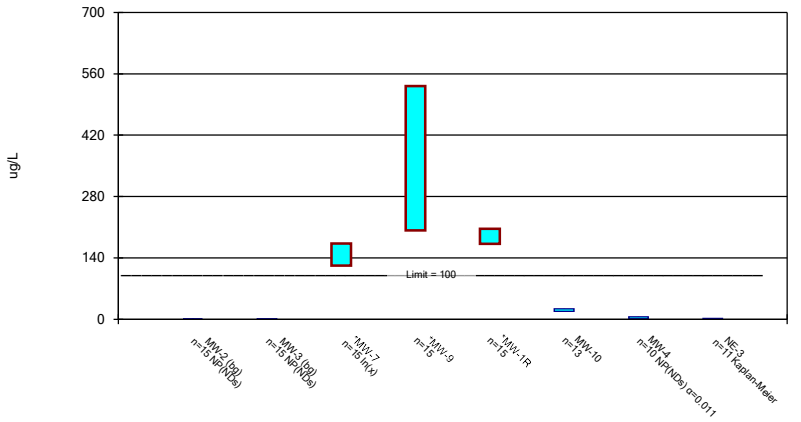
Constituent: Mercury Analysis Run 4/2/2026 8:38 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



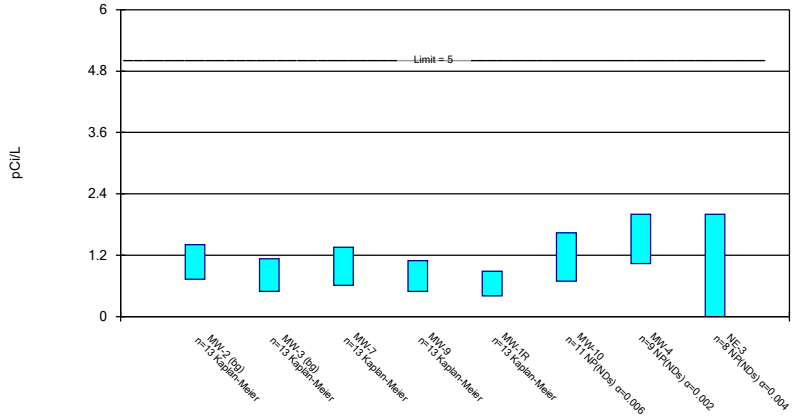
Constituent: Molybdenum Analysis Run 4/2/2026 8:38 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

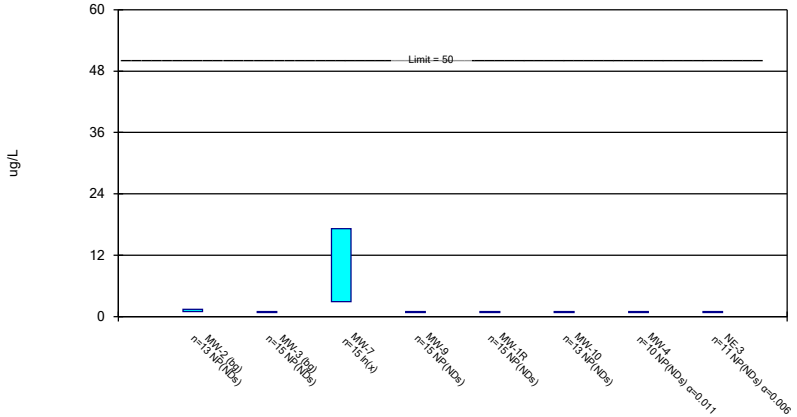


Constituent: Radium Analysis Run 4/2/2026 8:38 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Parametric and Non-Parametric (NP) Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

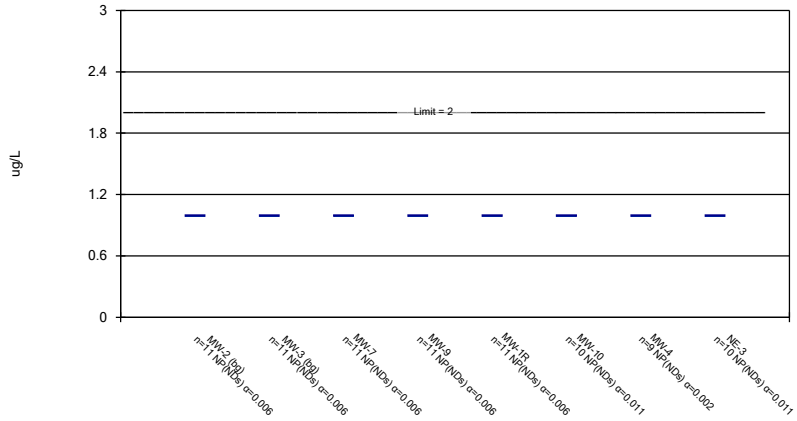


Constituent: Selenium Analysis Run 4/2/2026 8:38 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Non-Parametric Confidence Interval, Corrective Action Mode

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 4/2/2026 8:38 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Appendix 9-4

Trend Tests with Confidence Bands
(Sanitas* Output Summary)

Trend Test

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:56 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (ug/L)	**MW-7**	**4.407**	**70**	**48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium (ug/L)	**MW-9**	**6.431**	**65**	**48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**MW-3 (bg)**	**-0.01029**	**-109**	**-89**	**Yes**	**23**	**52.17**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**MW-9**	**-0.05033**	**-131**	**-89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**MW-1R**	**0**	**-60**	**-58**	**Yes**	**17**	**64.71**	**n/a**	**n/a**	**0.02**	**NP**
Lithium (ug/L)	**MW-7**	**2.39**	**75**	**48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Lithium (ug/L)	**MW-9**	**1.37**	**65**	**48**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.02**	**NP**
Molybdenum (ug/L)	**MW-7**	**-6.64**	**-52**	**-48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Molybdenum (ug/L)	**MW-9**	**-71.54**	**-80**	**-48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Selenium (ug/L)	**MW-7**	**-1.527**	**-63**	**-48**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.02**	**NP**

Trend Test

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:56 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Antimony (ug/L)	MW-2 (bg)	0	8	31	No	11	100	n/a	n/a	0.02	NP
Antimony (ug/L)	MW-3 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Antimony (ug/L)	MW-7	0	0	31	No	11	100	n/a	n/a	0.02	NP
Antimony (ug/L)	MW-9	0	0	31	No	11	100	n/a	n/a	0.02	NP
Antimony (ug/L)	MW-1R	0	0	31	No	11	100	n/a	n/a	0.02	NP
Antimony (ug/L)	MW-10	0	0	27	No	10	100	n/a	n/a	0.02	NP
Antimony (ug/L)	MW-4	0	0	23	No	9	100	n/a	n/a	0.02	NP
Antimony (ug/L)	NE-3	0	0	27	No	10	90	n/a	n/a	0.02	NP
Arsenic (ug/L)	MW-2 (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Arsenic (ug/L)	MW-3 (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Arsenic (ug/L)	MW-7	0	0	44	No	14	100	n/a	n/a	0.02	NP
Arsenic (ug/L)	MW-9	0	-11	-44	No	14	92.86	n/a	n/a	0.02	NP
Arsenic (ug/L)	MW-1R	0	-21	-39	No	13	76.92	n/a	n/a	0.02	NP
Arsenic (ug/L)	MW-10	-0.2291	-9	-39	No	13	0	n/a	n/a	0.02	NP
Arsenic (ug/L)	MW-4	0	0	27	No	10	100	n/a	n/a	0.02	NP
Arsenic (ug/L)	NE-3	-0.04078	-11	-31	No	11	0	n/a	n/a	0.02	NP
Barium (ug/L)	MW-2 (bg)	2.587	17	48	No	15	0	n/a	n/a	0.02	NP
Barium (ug/L)	MW-3 (bg)	-2.074	-39	-48	No	15	0	n/a	n/a	0.02	NP
Barium (ug/L)	**MW-7**	**4.407**	**70**	**48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium (ug/L)	**MW-9**	**6.431**	**65**	**48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium (ug/L)	MW-1R	2.067	16	48	No	15	0	n/a	n/a	0.02	NP
Barium (ug/L)	MW-10	-6.933	-29	-39	No	13	0	n/a	n/a	0.02	NP
Barium (ug/L)	MW-4	7.485	25	27	No	10	0	n/a	n/a	0.02	NP
Barium (ug/L)	NE-3	31.29	23	31	No	11	0	n/a	n/a	0.02	NP
Beryllium (ug/L)	MW-2 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Beryllium (ug/L)	MW-3 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Beryllium (ug/L)	MW-7	0	0	31	No	11	100	n/a	n/a	0.02	NP
Beryllium (ug/L)	MW-9	0	0	31	No	11	100	n/a	n/a	0.02	NP
Beryllium (ug/L)	MW-1R	0	0	31	No	11	100	n/a	n/a	0.02	NP
Beryllium (ug/L)	MW-10	0	0	27	No	10	100	n/a	n/a	0.02	NP
Beryllium (ug/L)	MW-4	0	-6	-23	No	9	100	n/a	n/a	0.02	NP
Beryllium (ug/L)	NE-3	0	0	27	No	10	100	n/a	n/a	0.02	NP
Cadmium (ug/L)	MW-2 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Cadmium (ug/L)	MW-3 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Cadmium (ug/L)	MW-7	0	0	31	No	11	100	n/a	n/a	0.02	NP
Cadmium (ug/L)	MW-9	0	0	31	No	11	100	n/a	n/a	0.02	NP
Cadmium (ug/L)	MW-1R	0	0	31	No	11	100	n/a	n/a	0.02	NP
Cadmium (ug/L)	MW-10	0	0	27	No	10	100	n/a	n/a	0.02	NP
Cadmium (ug/L)	MW-4	0	0	23	No	9	100	n/a	n/a	0.02	NP
Cadmium (ug/L)	NE-3	0	0	27	No	10	90	n/a	n/a	0.02	NP
Chromium (ug/L)	MW-2 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Chromium (ug/L)	MW-3 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Chromium (ug/L)	MW-7	0	0	31	No	11	100	n/a	n/a	0.02	NP
Chromium (ug/L)	MW-9	0	-6	-31	No	11	90.91	n/a	n/a	0.02	NP
Chromium (ug/L)	MW-1R	0	0	31	No	11	100	n/a	n/a	0.02	NP
Chromium (ug/L)	MW-10	0	0	27	No	10	100	n/a	n/a	0.02	NP
Chromium (ug/L)	MW-4	0	0	23	No	9	100	n/a	n/a	0.02	NP
Chromium (ug/L)	NE-3	0	0	27	No	10	90	n/a	n/a	0.02	NP
Cobalt (ug/L)	MW-2 (bg)	0	9	48	No	15	80	n/a	n/a	0.02	NP
Cobalt (ug/L)	MW-3 (bg)	0	0	48	No	15	93.33	n/a	n/a	0.02	NP

Trend Test

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:56 AM

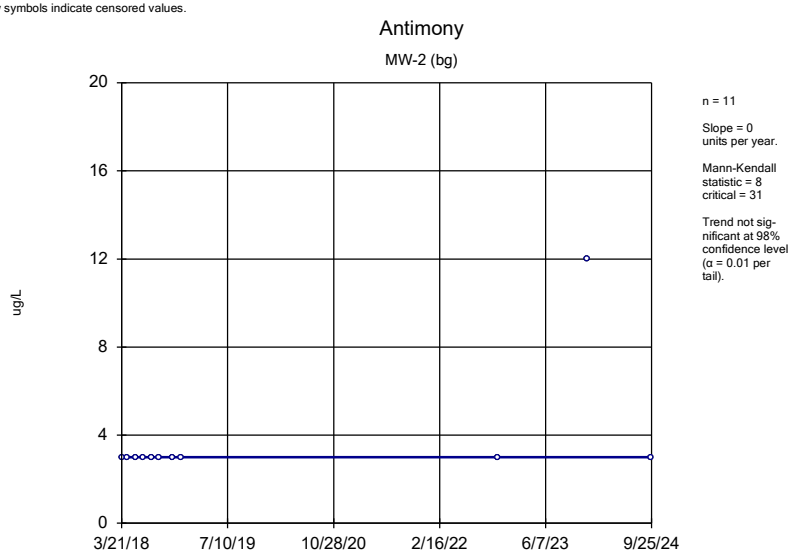
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (ug/L)	MW-7	0.04247	42	48	No	15	13.33	n/a	n/a	0.02	NP
Cobalt (ug/L)	MW-9	0	27	48	No	15	80	n/a	n/a	0.02	NP
Cobalt (ug/L)	MW-1R	1.386	29	48	No	15	0	n/a	n/a	0.02	NP
Cobalt (ug/L)	MW-10	0	-2	-39	No	13	92.31	n/a	n/a	0.02	NP
Cobalt (ug/L)	MW-4	0	0	27	No	10	100	n/a	n/a	0.02	NP
Cobalt (ug/L)	NE-3	0	0	31	No	11	90.91	n/a	n/a	0.02	NP
Fluoride (mg/L)	MW-2 (bg)	0	-85	-89	No	23	65.22	n/a	n/a	0.02	NP
Fluoride (mg/L)	**MW-3 (bg)**	**-0.01029**	**-109**	**-89**	**Yes**	**23**	**52.17**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	MW-7	-0.01635	-82	-89	No	23	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	**MW-9**	**-0.05033**	**-131**	**-89**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**MW-1R**	**0**	**-60**	**-58**	**Yes**	**17**	**64.71**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	MW-10	-0.01891	-36	-44	No	14	7.143	n/a	n/a	0.02	NP
Fluoride (mg/L)	MW-4	0	-53	-125	No	29	93.1	n/a	n/a	0.02	NP
Fluoride (mg/L)	NE-3	-0.05674	-21	-31	No	11	9.091	n/a	n/a	0.02	NP
Lead (ug/L)	MW-2 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Lead (ug/L)	MW-3 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Lead (ug/L)	MW-7	0	0	31	No	11	100	n/a	n/a	0.02	NP
Lead (ug/L)	MW-9	0	0	31	No	11	100	n/a	n/a	0.02	NP
Lead (ug/L)	MW-1R	0	0	31	No	11	100	n/a	n/a	0.02	NP
Lead (ug/L)	MW-10	0	0	27	No	10	100	n/a	n/a	0.02	NP
Lead (ug/L)	MW-4	0	0	23	No	9	100	n/a	n/a	0.02	NP
Lead (ug/L)	NE-3	0	0	27	No	10	90	n/a	n/a	0.02	NP
Lithium (ug/L)	MW-2 (bg)	0	6	48	No	15	93.33	n/a	n/a	0.02	NP
Lithium (ug/L)	MW-3 (bg)	0	6	48	No	15	93.33	n/a	n/a	0.02	NP
Lithium (ug/L)	**MW-7**	**2.39**	**75**	**48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Lithium (ug/L)	**MW-9**	**1.37**	**65**	**48**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.02**	**NP**
Lithium (ug/L)	MW-1R	0	12	48	No	15	33.33	n/a	n/a	0.02	NP
Lithium (ug/L)	MW-10	-8.617	-32	-39	No	13	30.77	n/a	n/a	0.02	NP
Lithium (ug/L)	MW-4	0	0	27	No	10	100	n/a	n/a	0.02	NP
Lithium (ug/L)	NE-3	0	-10	-31	No	11	90.91	n/a	n/a	0.02	NP
Mercury (ug/L)	MW-2 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Mercury (ug/L)	MW-3 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Mercury (ug/L)	MW-7	0	0	31	No	11	100	n/a	n/a	0.02	NP
Mercury (ug/L)	MW-9	0	0	31	No	11	100	n/a	n/a	0.02	NP
Mercury (ug/L)	MW-1R	0	0	31	No	11	100	n/a	n/a	0.02	NP
Mercury (ug/L)	MW-10	0	0	27	No	10	100	n/a	n/a	0.02	NP
Mercury (ug/L)	MW-4	0	-2	-23	No	9	88.89	n/a	n/a	0.02	NP
Mercury (ug/L)	NE-3	0	0	27	No	10	90	n/a	n/a	0.02	NP
Molybdenum (ug/L)	MW-2 (bg)	0	6	48	No	15	86.67	n/a	n/a	0.02	NP
Molybdenum (ug/L)	MW-3 (bg)	0	0	48	No	15	93.33	n/a	n/a	0.02	NP
Molybdenum (ug/L)	**MW-7**	**-6.64**	**-52**	**-48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Molybdenum (ug/L)	**MW-9**	**-71.54**	**-80**	**-48**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Molybdenum (ug/L)	MW-1R	11.1	40	48	No	15	0	n/a	n/a	0.02	NP
Molybdenum (ug/L)	MW-10	-1.438	-12	-39	No	13	0	n/a	n/a	0.02	NP
Molybdenum (ug/L)	MW-4	0	17	27	No	10	80	n/a	n/a	0.02	NP
Molybdenum (ug/L)	NE-3	-0.2977	-15	-31	No	11	36.36	n/a	n/a	0.02	NP
Radium (pCi/L)	MW-2 (bg)	0.0765	18	39	No	13	15.38	n/a	n/a	0.02	NP
Radium (pCi/L)	MW-3 (bg)	-0.03566	-10	-39	No	13	15.38	n/a	n/a	0.02	NP
Radium (pCi/L)	MW-7	0.1195	28	39	No	13	15.38	n/a	n/a	0.02	NP
Radium (pCi/L)	MW-9	0.1407	36	39	No	13	15.38	n/a	n/a	0.02	NP

Trend Test

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 4/2/2026, 8:56 AM

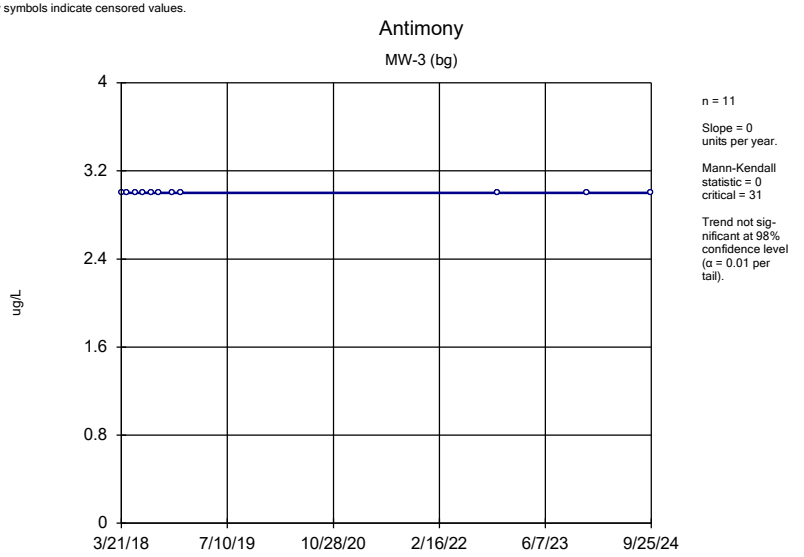
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Radium (pCi/L)	MW-1R	0.2419	18	39	No	13	15.38	n/a	n/a	0.02	NP
Radium (pCi/L)	MW-10	0.5199	15	31	No	11	90.91	n/a	n/a	0.02	NP
Radium (pCi/L)	MW-4	0	2	23	No	9	88.89	n/a	n/a	0.02	NP
Radium (pCi/L)	NE-3	0	7	20	No	8	100	n/a	n/a	0.02	NP
Selenium (ug/L)	MW-2 (bg)	0	-6	-39	No	13	84.62	n/a	n/a	0.02	NP
Selenium (ug/L)	MW-3 (bg)	0	0	48	No	15	93.33	n/a	n/a	0.02	NP
Selenium (ug/L)	**MW-7**	**-1.527**	**-63**	**-48**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.02**	**NP**
Selenium (ug/L)	MW-9	0	0	48	No	15	93.33	n/a	n/a	0.02	NP
Selenium (ug/L)	MW-1R	0	0	48	No	15	93.33	n/a	n/a	0.02	NP
Selenium (ug/L)	MW-10	0	0	39	No	13	92.31	n/a	n/a	0.02	NP
Selenium (ug/L)	MW-4	0	0	27	No	10	100	n/a	n/a	0.02	NP
Selenium (ug/L)	NE-3	0	-10	-31	No	11	81.82	n/a	n/a	0.02	NP
Thallium (ug/L)	MW-2 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Thallium (ug/L)	MW-3 (bg)	0	0	31	No	11	100	n/a	n/a	0.02	NP
Thallium (ug/L)	MW-7	0	0	31	No	11	100	n/a	n/a	0.02	NP
Thallium (ug/L)	MW-9	0	0	31	No	11	100	n/a	n/a	0.02	NP
Thallium (ug/L)	MW-1R	0	0	31	No	11	100	n/a	n/a	0.02	NP
Thallium (ug/L)	MW-10	0	0	27	No	10	100	n/a	n/a	0.02	NP
Thallium (ug/L)	MW-4	0	0	23	No	9	100	n/a	n/a	0.02	NP
Thallium (ug/L)	NE-3	0	0	27	No	10	80	n/a	n/a	0.02	NP

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Hollow symbols indicate censored values.



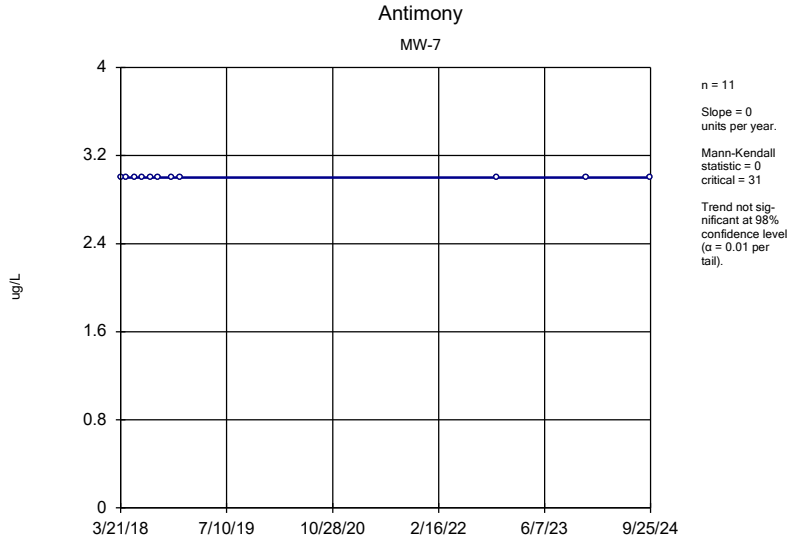
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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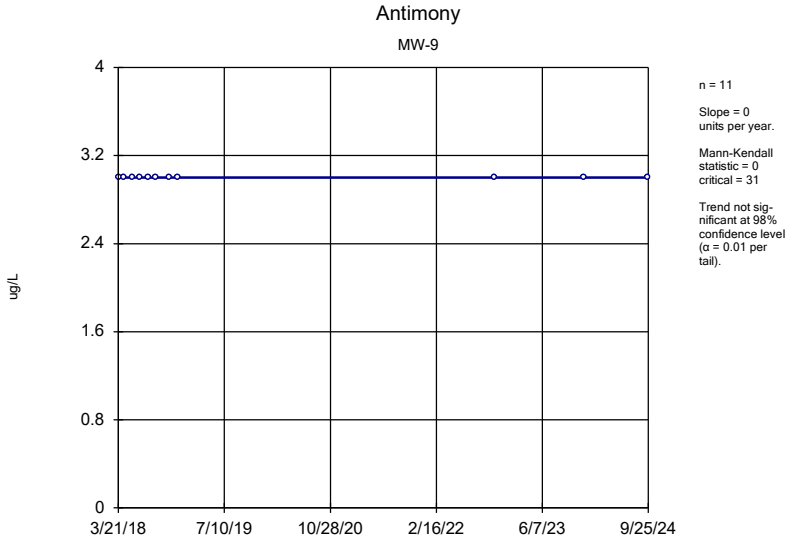
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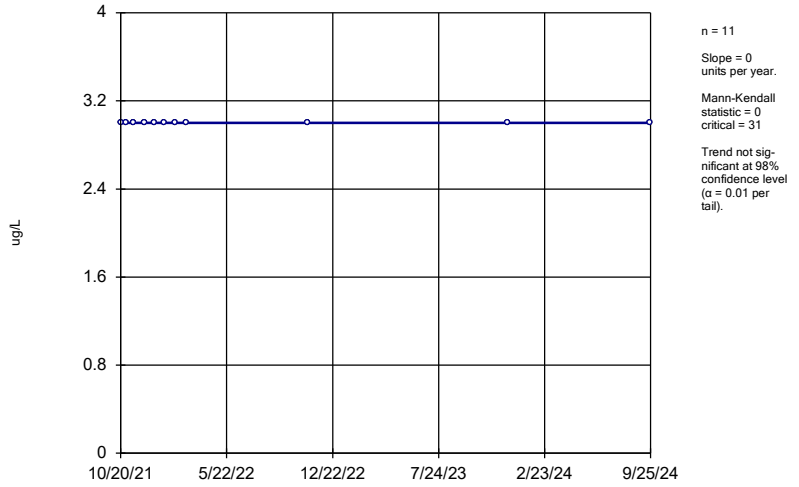


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Antimony

MW-1R



n = 11

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 31

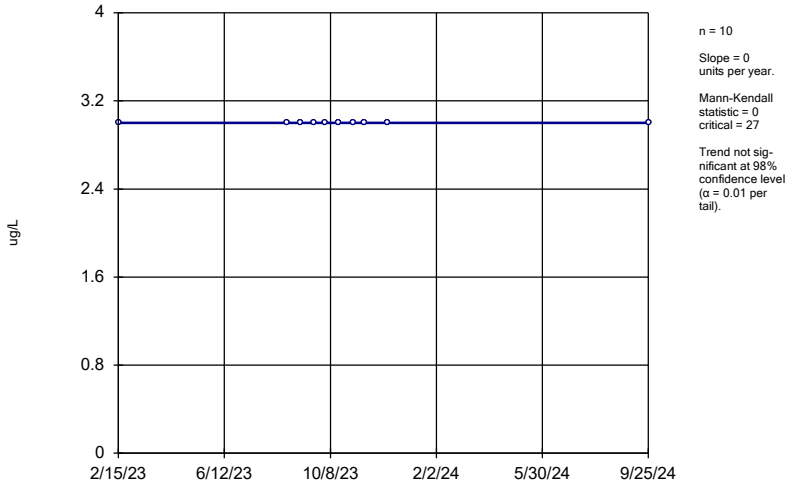
Trend not significant at 98% confidence level (α = 0.01 per tail).

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Antimony

MW-10



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 27

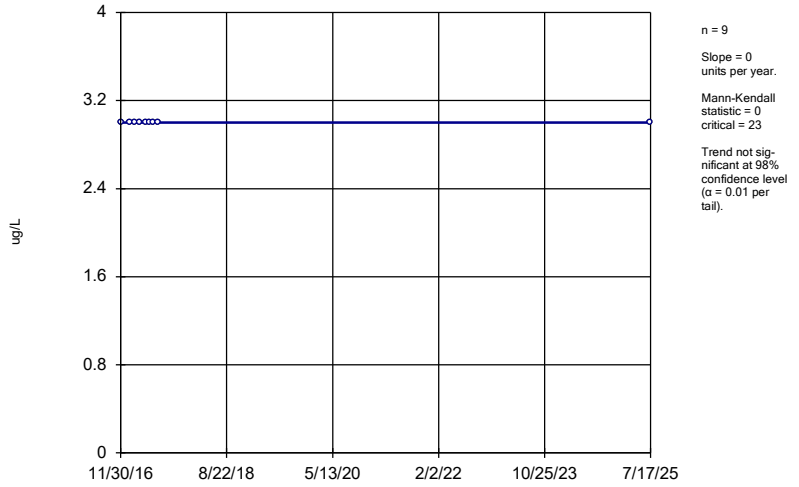
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
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Antimony

MW-4



n = 9

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 23

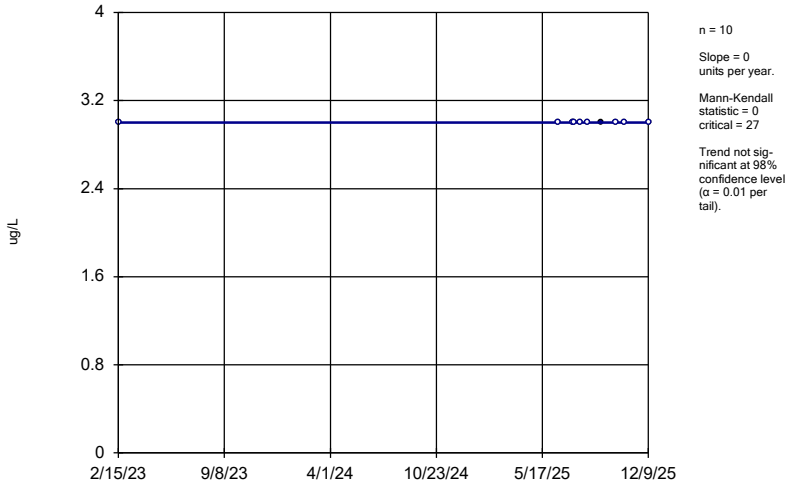
Trend not significant at 98% confidence level (α = 0.01 per tail).

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Antimony

NE-3



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 27

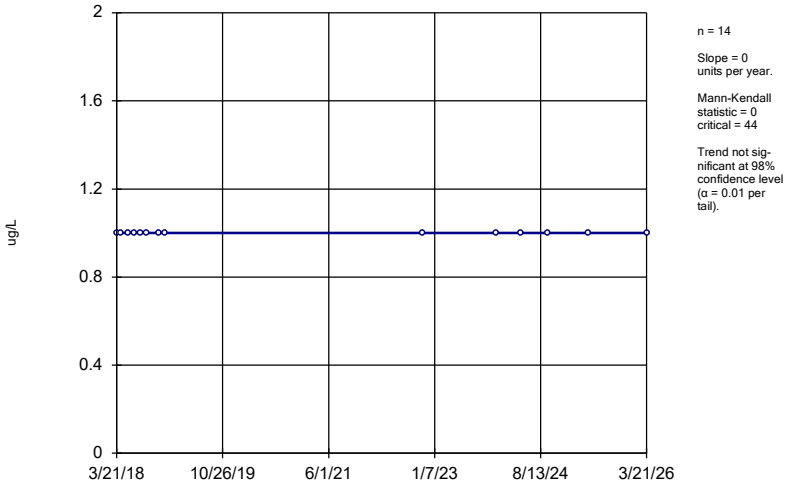
Trend not significant at 98% confidence level (α = 0.01 per tail).

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Arsenic

MW-2 (bg)

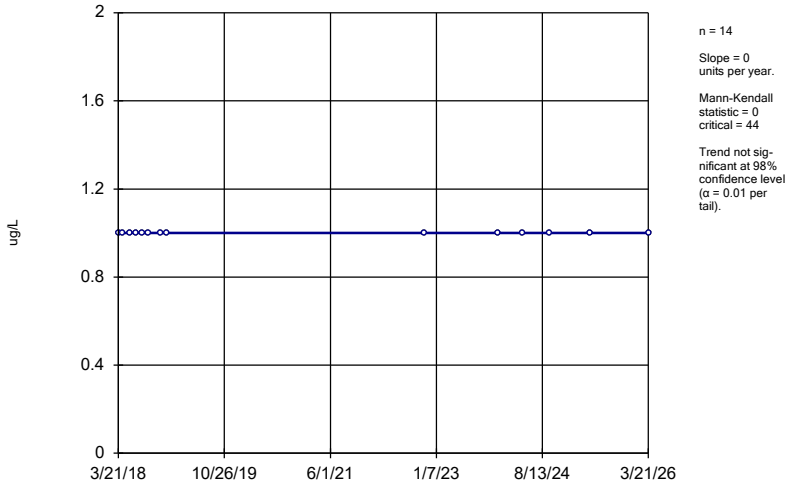


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Arsenic

MW-3 (bg)

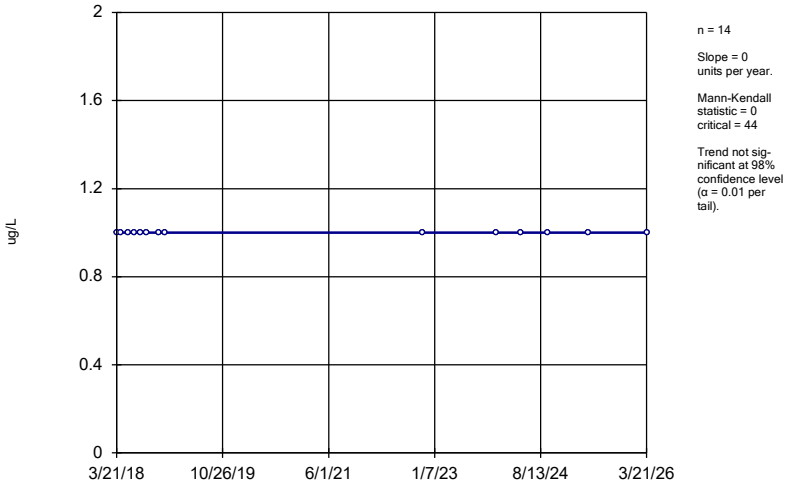


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Arsenic

MW-7

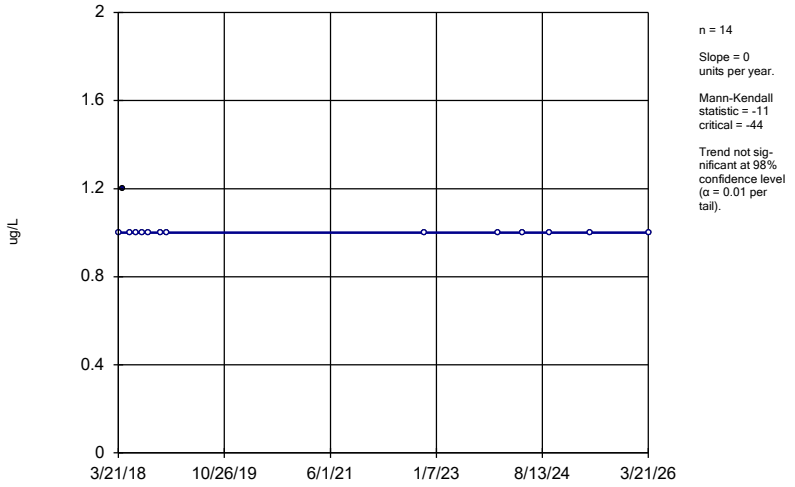


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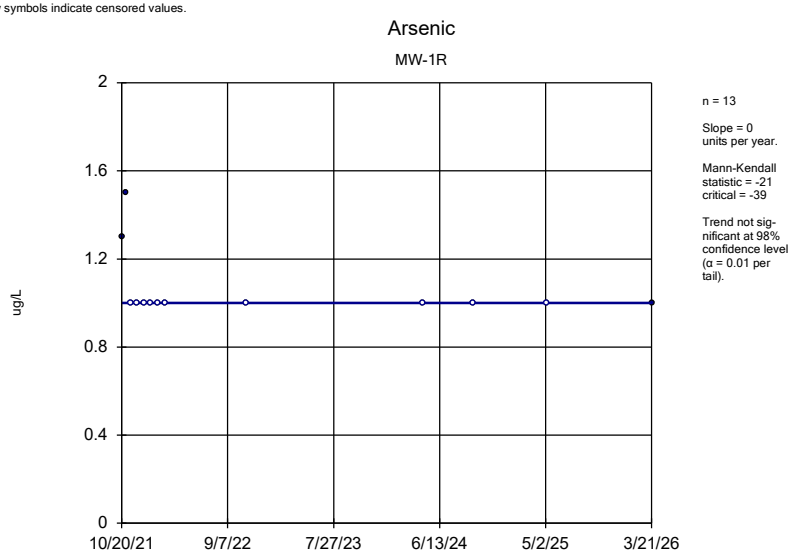
Arsenic

MW-9



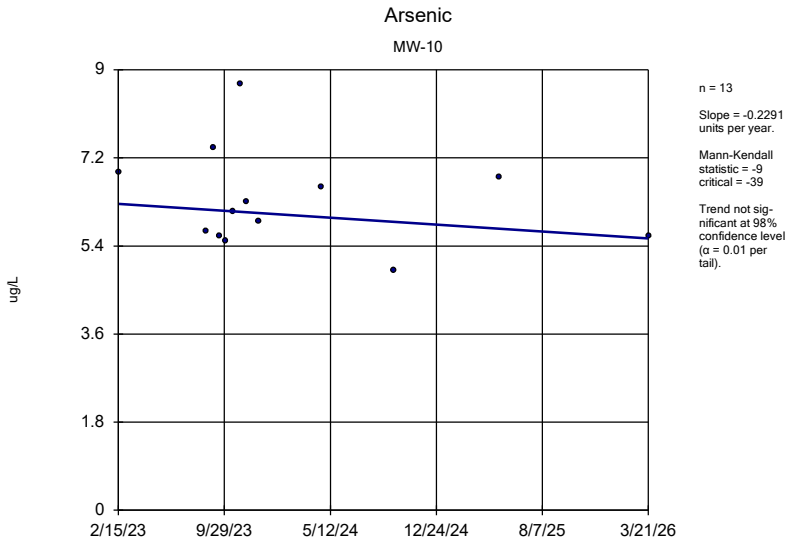
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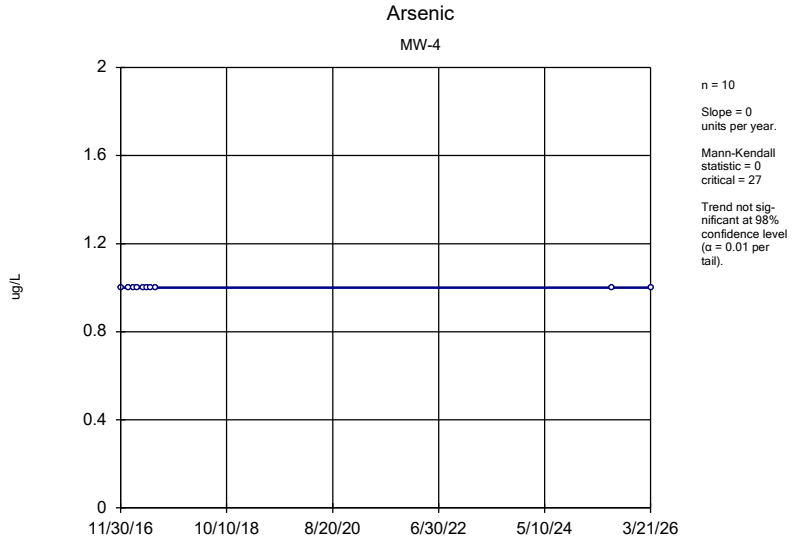
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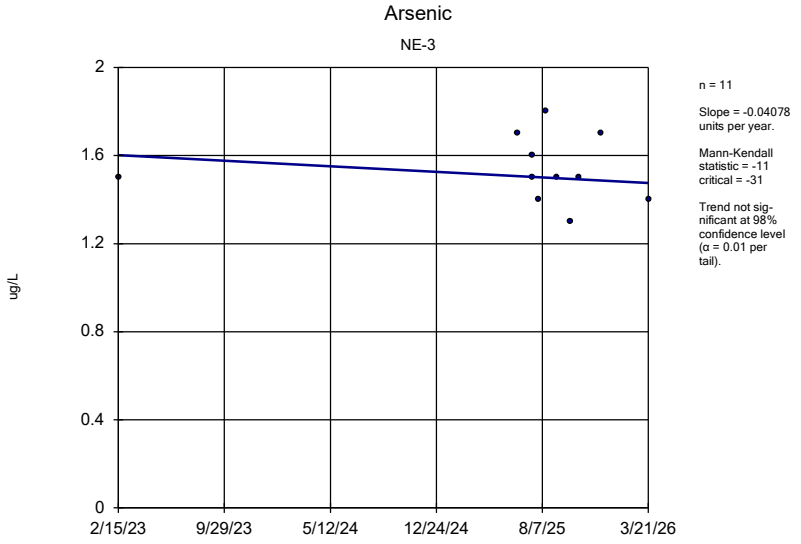
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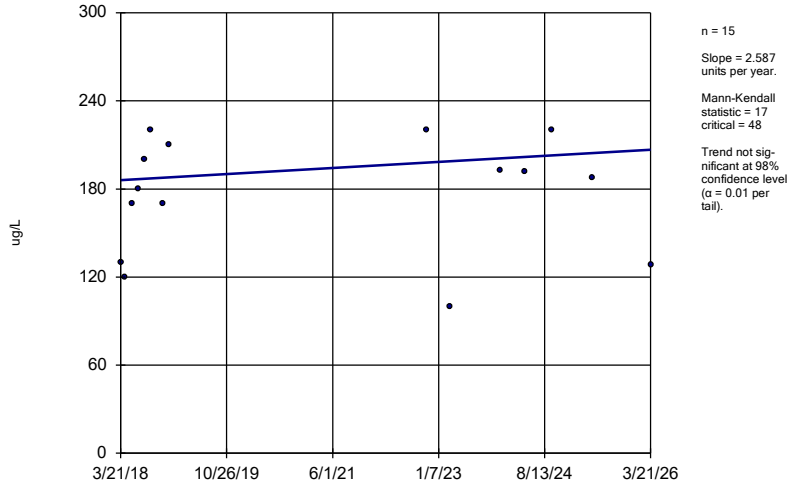


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Barium

MW-2 (bg)



n = 15

Slope = 2.587 units per year.

Mann-Kendall statistic = 17 critical = 48

Trend not significant at 98% confidence level (α = 0.01 per tail).

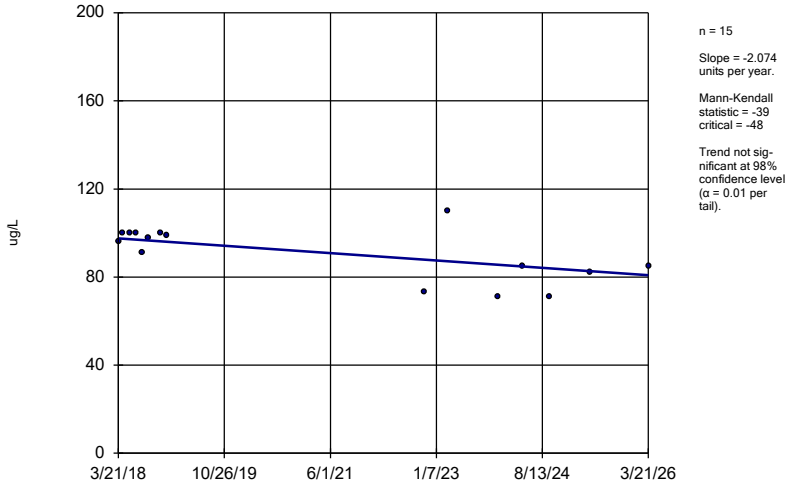
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-3 (bg)



n = 15

Slope = -2.074 units per year.

Mann-Kendall statistic = -39 critical = -48

Trend not significant at 98% confidence level (α = 0.01 per tail).

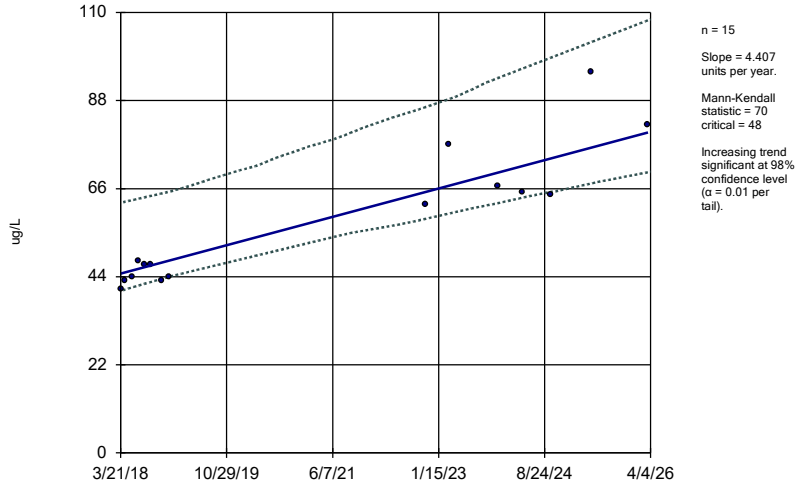
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action

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Barium

MW-7



n = 15

Slope = 4.407 units per year.

Mann-Kendall statistic = 70 critical = 48

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

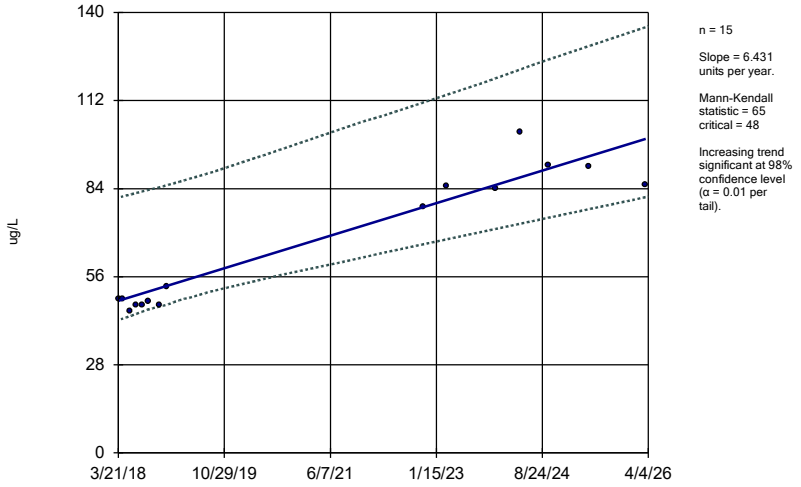
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-9



n = 15

Slope = 6.431 units per year.

Mann-Kendall statistic = 65 critical = 48

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

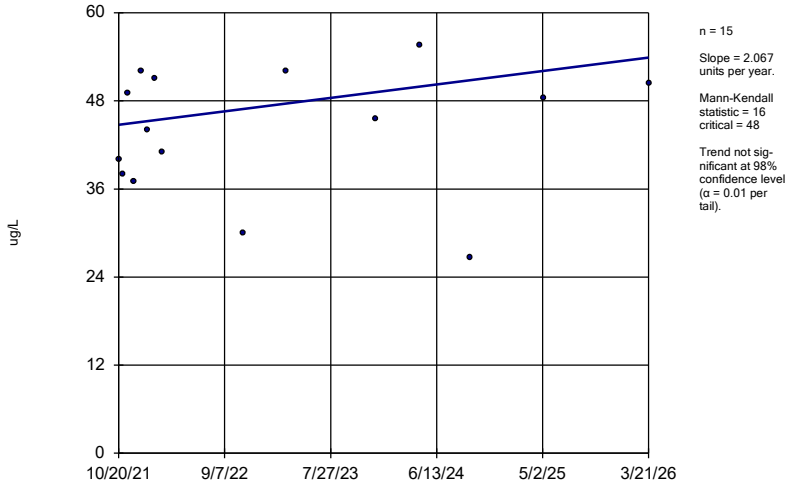
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-1R



n = 15

Slope = 2.067 units per year.

Mann-Kendall statistic = 16
critical = 48

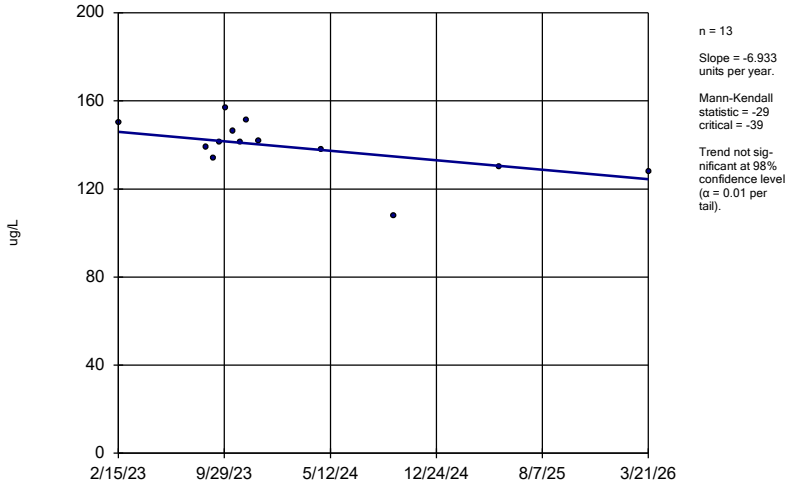
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Barium

MW-10



n = 13

Slope = -6.933 units per year.

Mann-Kendall statistic = -29
critical = -39

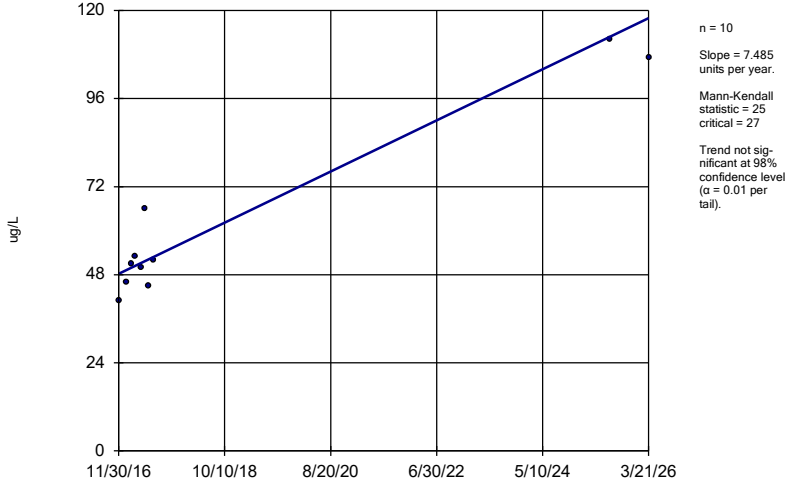
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
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Barium

MW-4



n = 10

Slope = 7.485 units per year.

Mann-Kendall statistic = 25
critical = 27

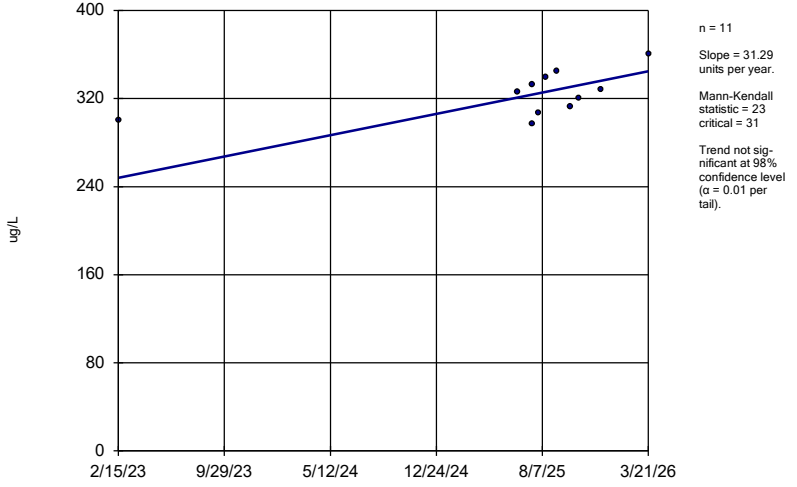
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Barium

NE-3



n = 11

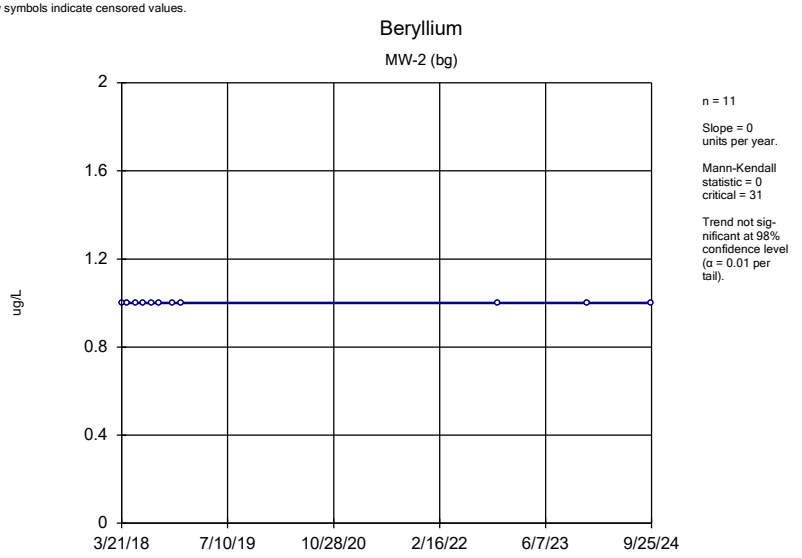
Slope = 31.29 units per year.

Mann-Kendall statistic = 23
critical = 31

Trend not significant at 98% confidence level (α = 0.01 per tail).

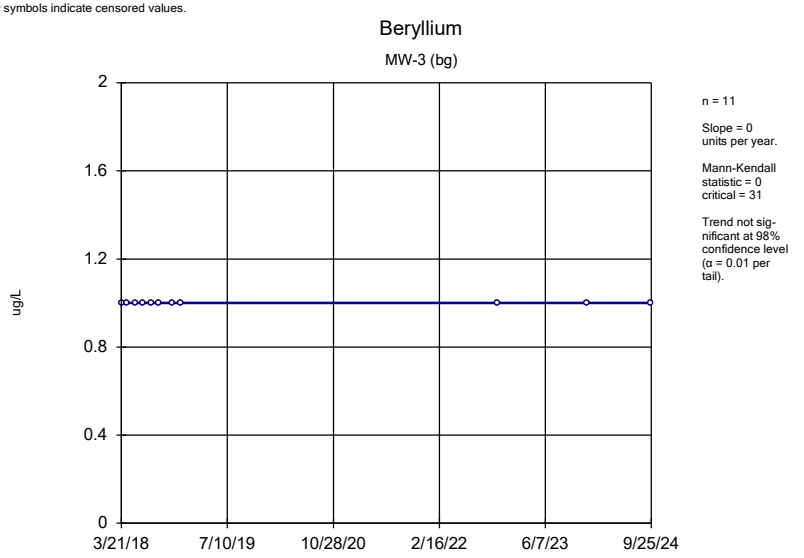
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



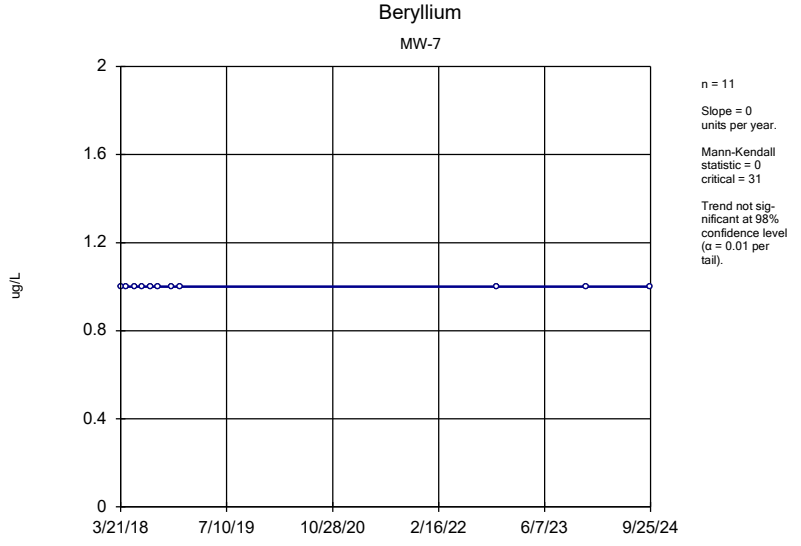
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



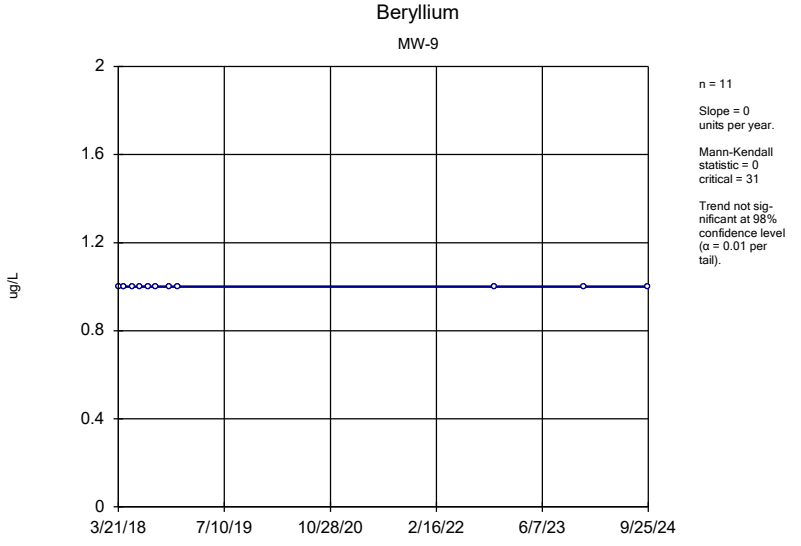
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

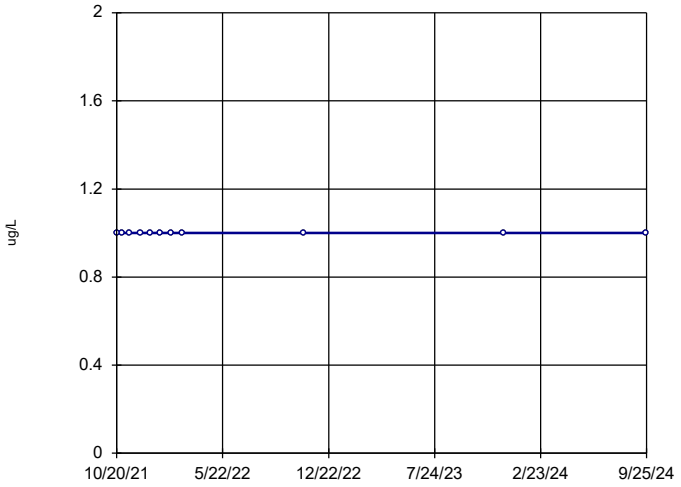


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Beryllium

MW-1R



n = 11

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 31

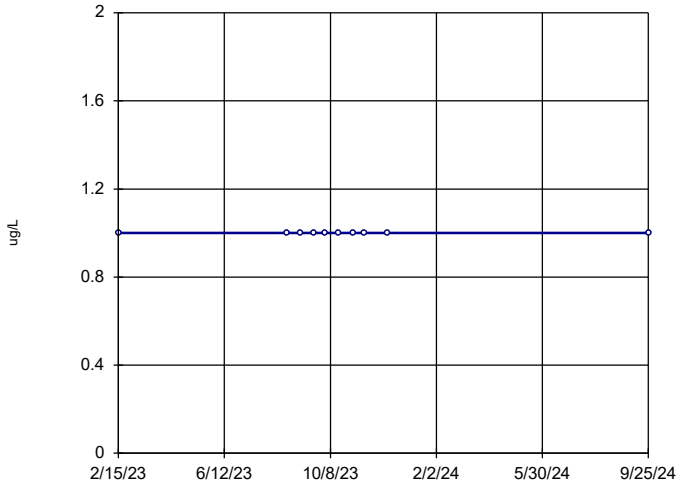
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Beryllium

MW-10



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 27

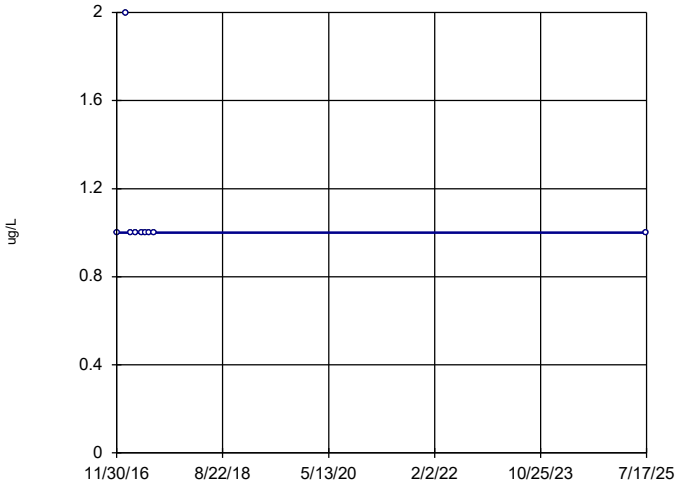
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Beryllium

MW-4



n = 9

Slope = 0 units per year.

Mann-Kendall statistic = -6 critical = -23

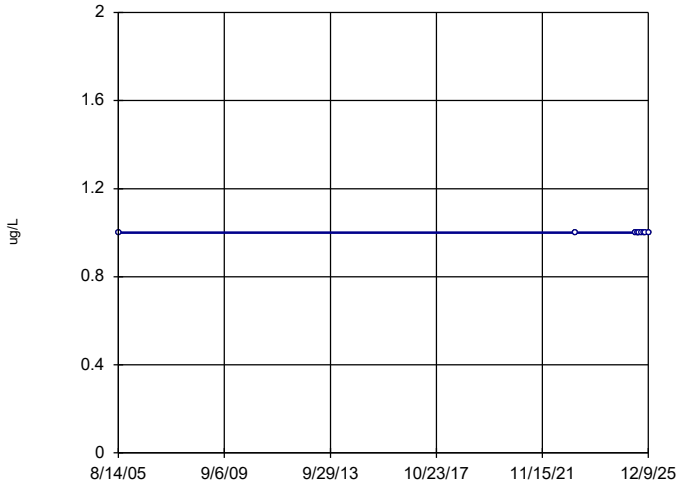
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Beryllium

NE-3



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 27

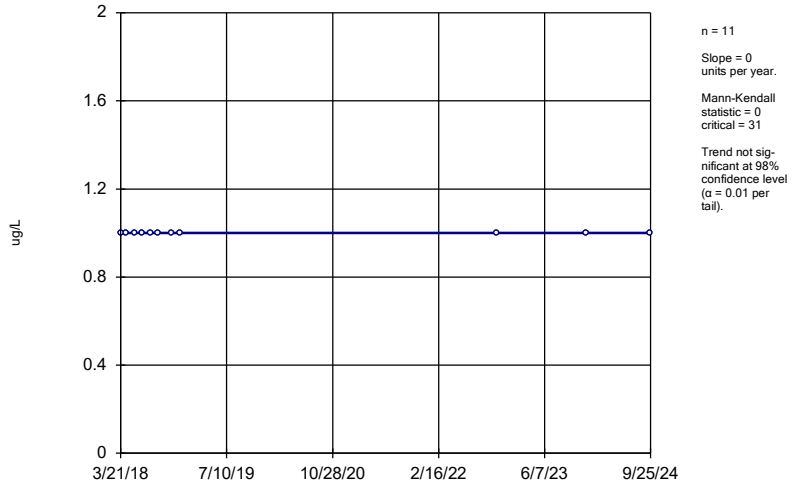
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Cadmium

MW-2 (bg)

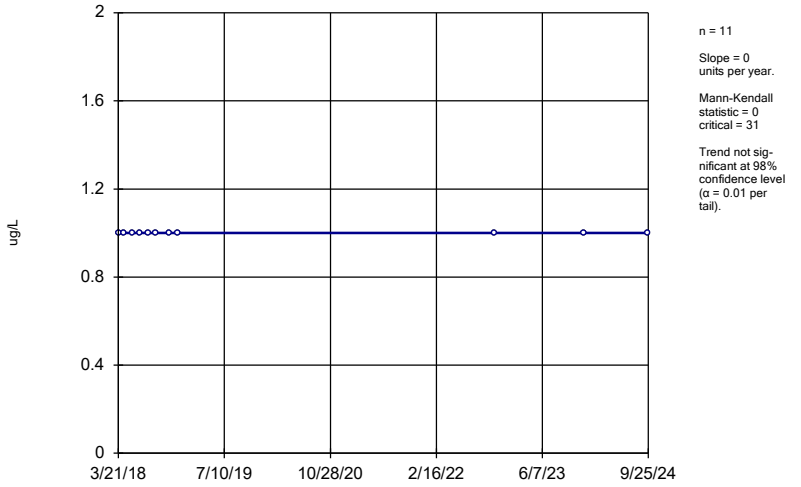


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Cadmium

MW-3 (bg)

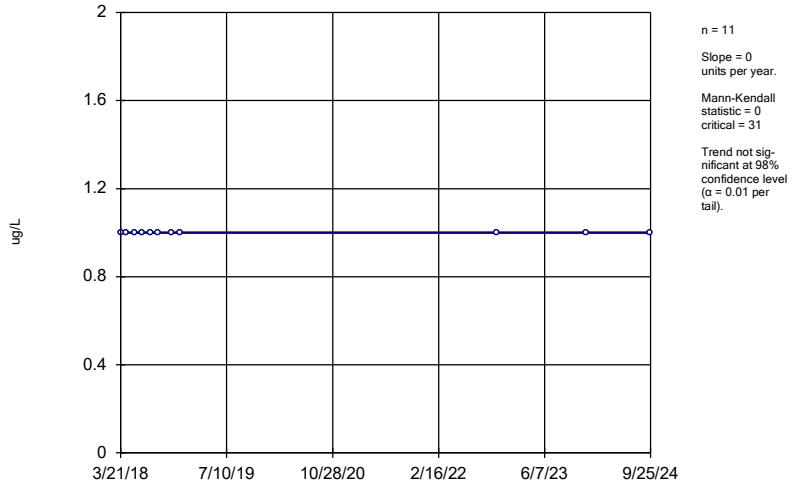


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Cadmium

MW-7

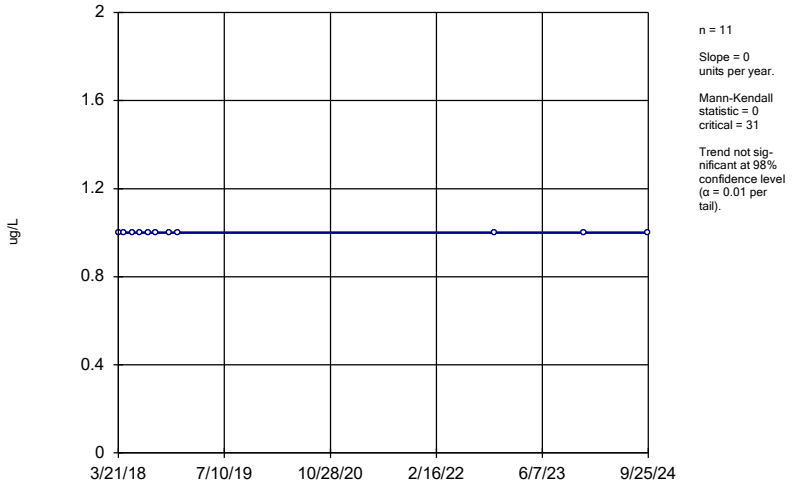


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Cadmium

MW-9

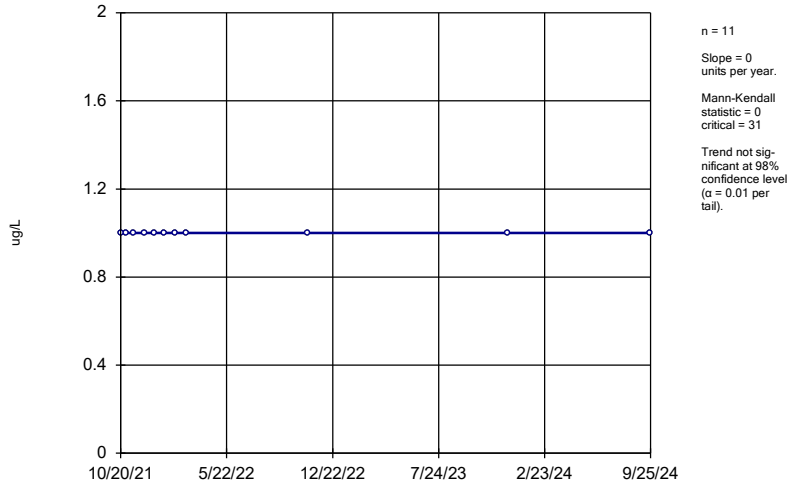


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Cadmium

MW-1R



n = 11

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 31

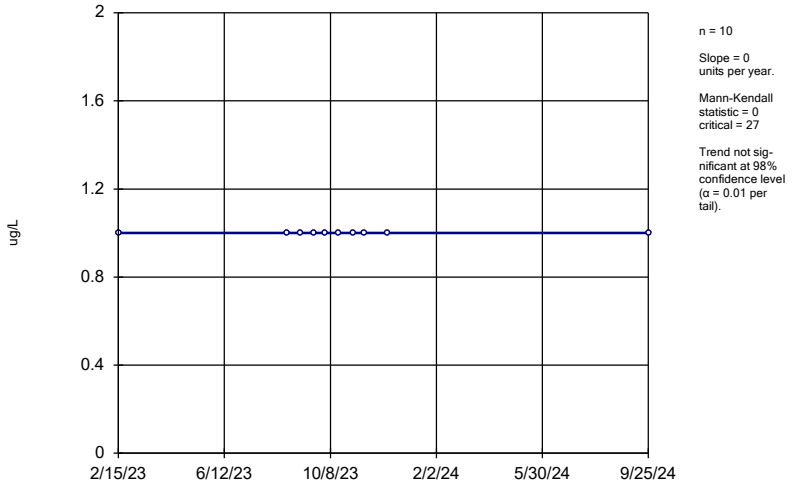
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Cadmium

MW-10



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 27

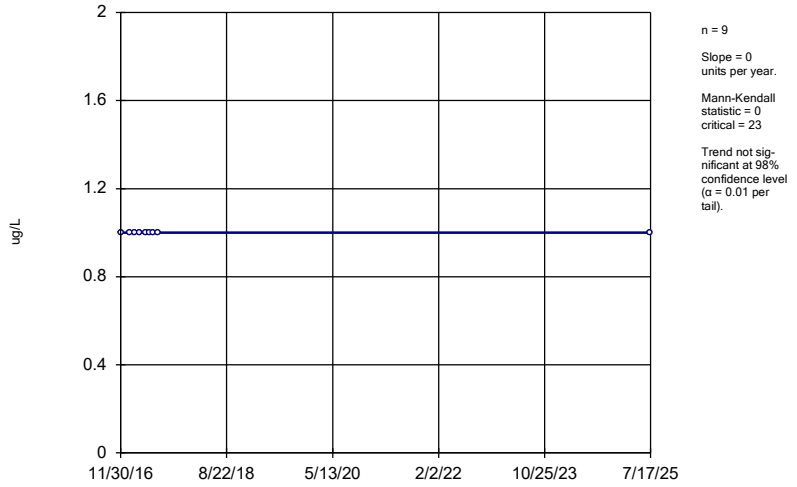
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Cadmium

MW-4



n = 9

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 23

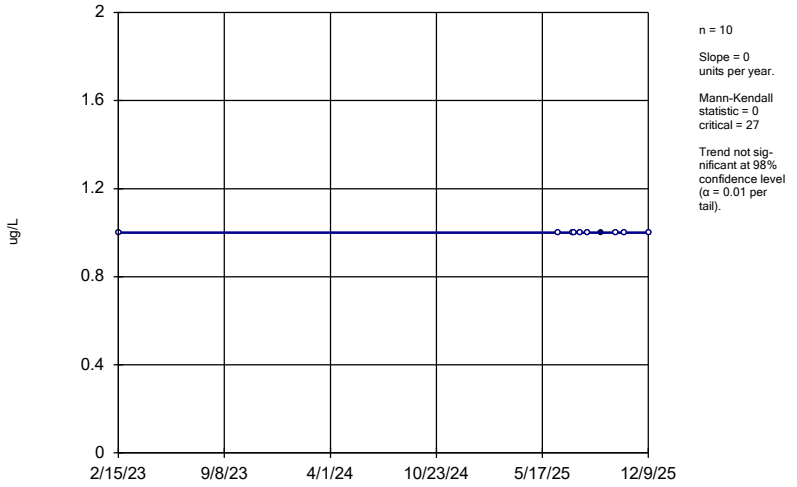
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Cadmium

NE-3



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 27

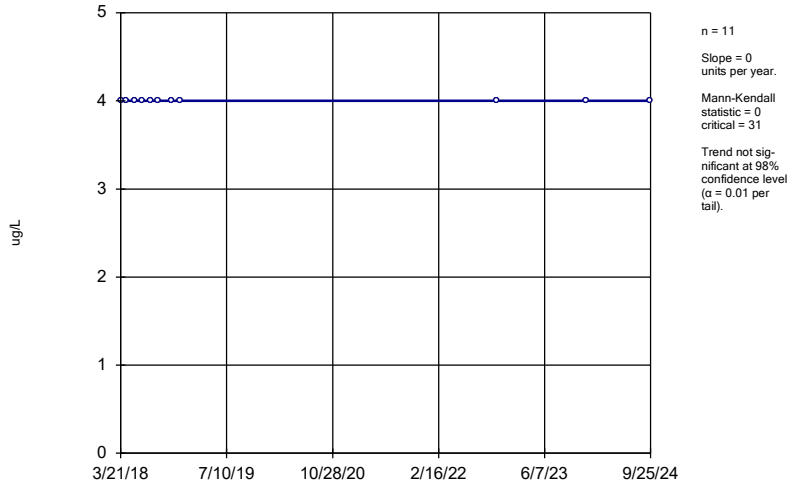
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Chromium

MW-2 (bg)

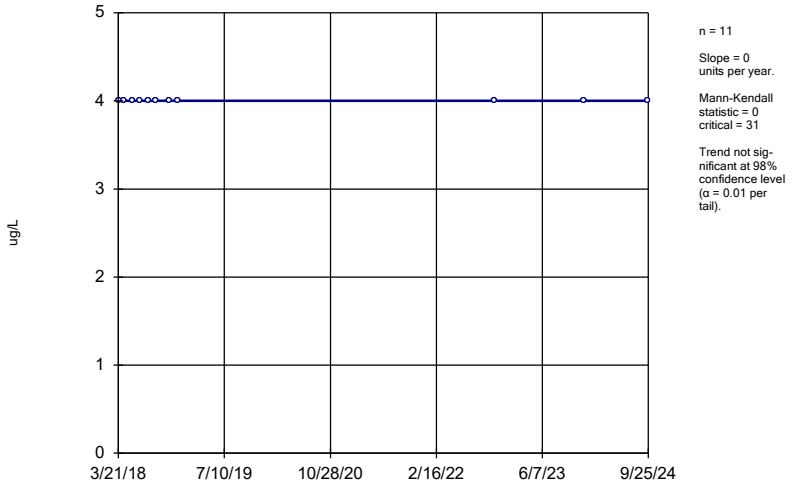


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Chromium

MW-3 (bg)

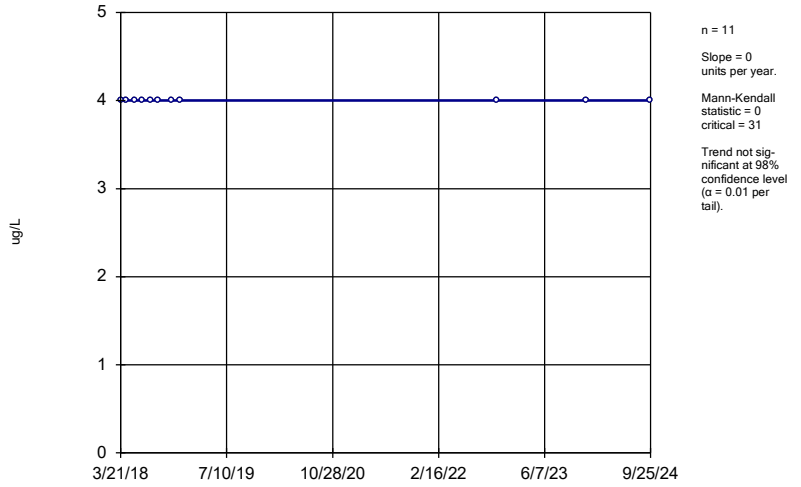


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Chromium

MW-7

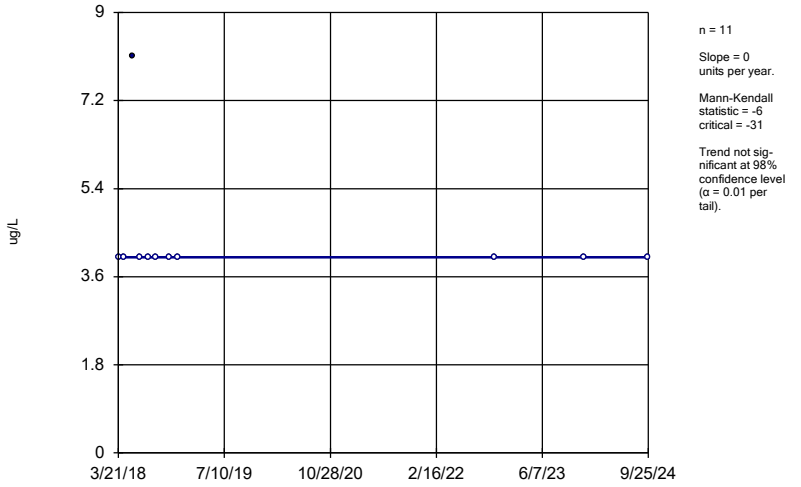


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Chromium

MW-9

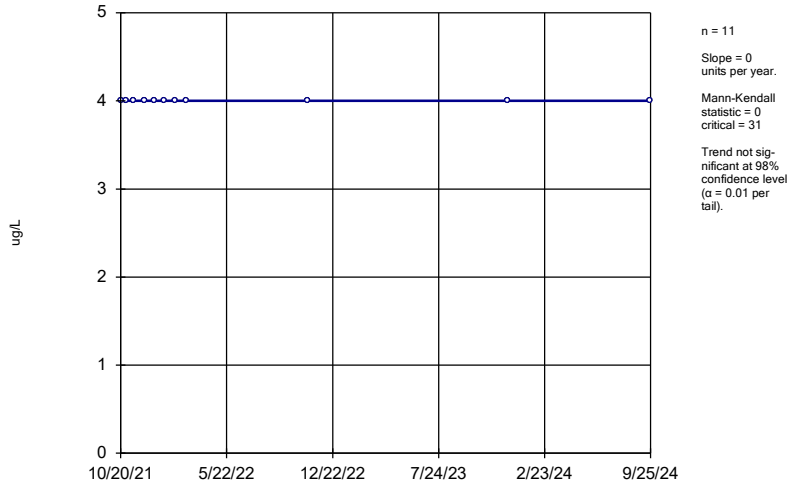


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Chromium

MW-1R

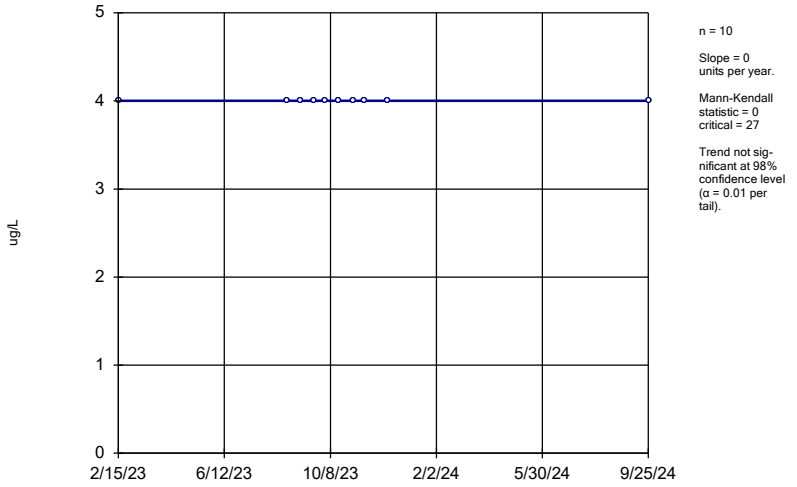


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Chromium

MW-10

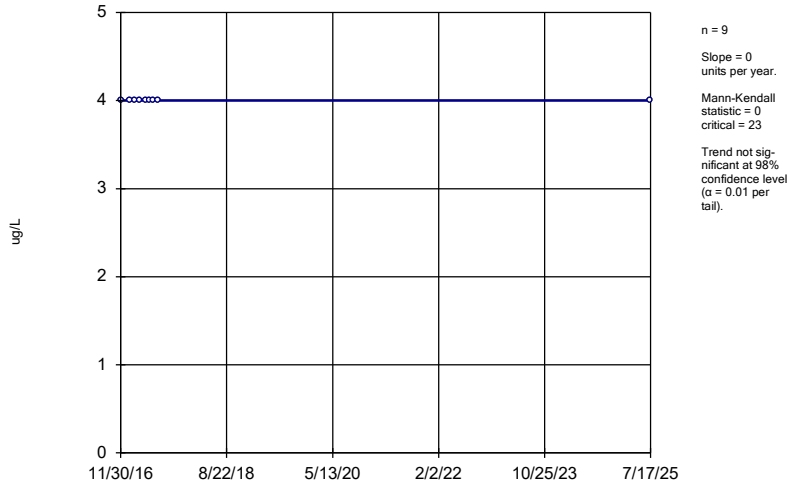


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Chromium

MW-4

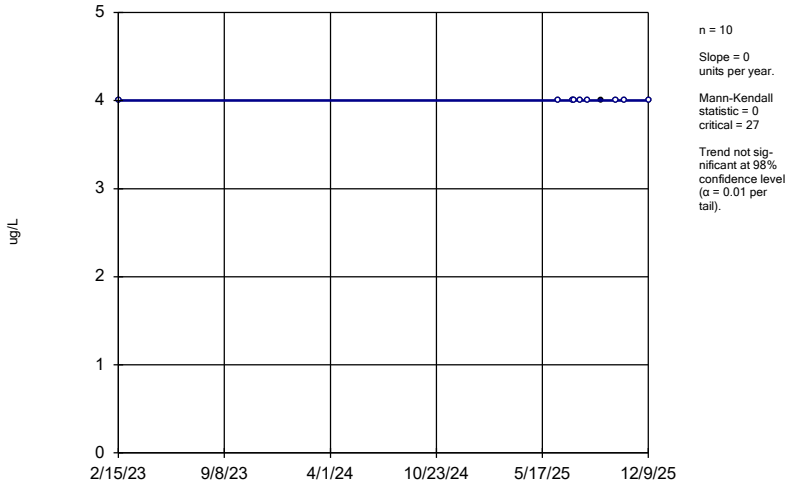


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

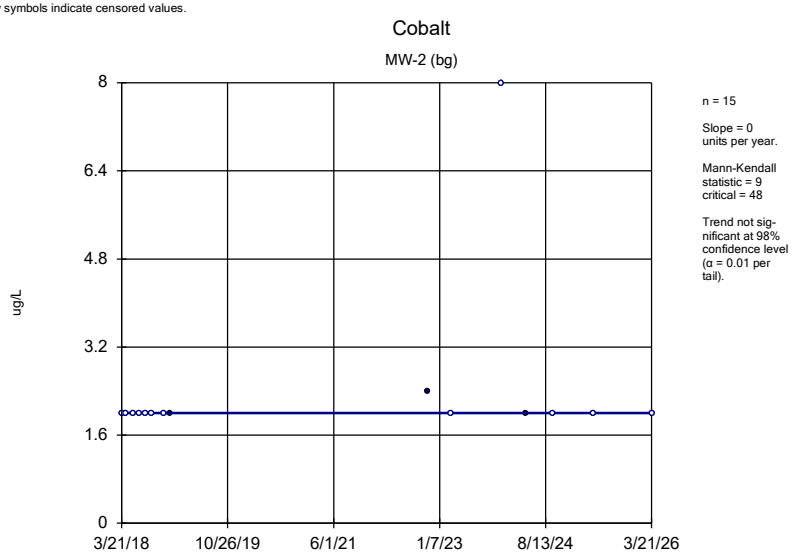
Chromium

NE-3



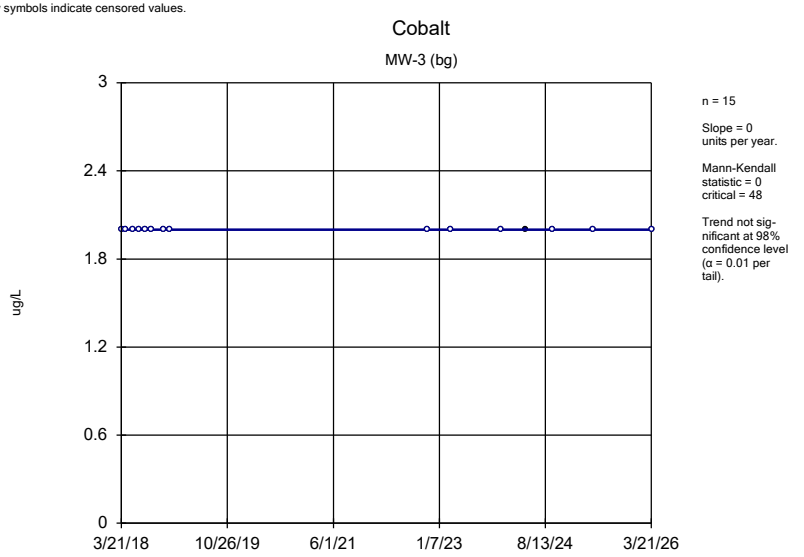
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



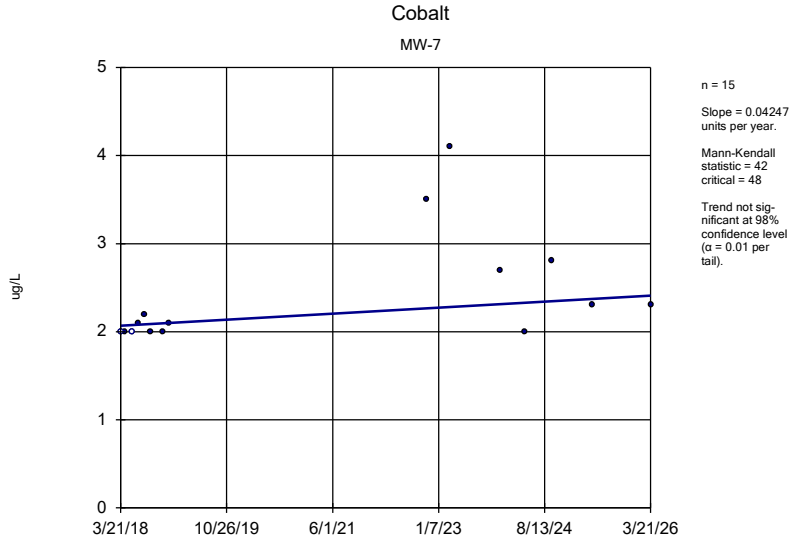
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



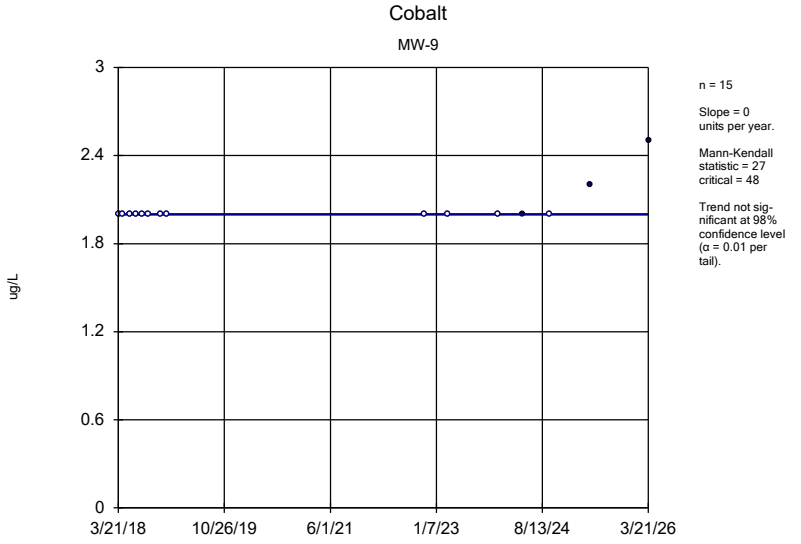
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:53 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

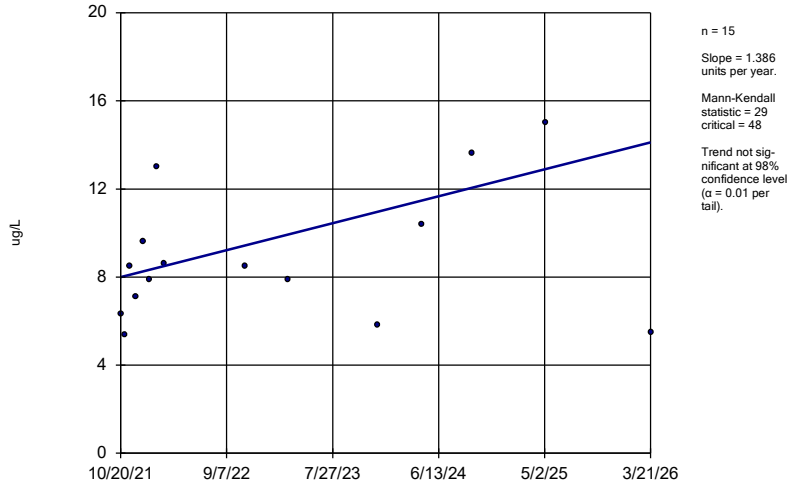


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Cobalt

MW-1R



n = 15

Slope = 1.386 units per year.

Mann-Kendall statistic = 29
critical = 48

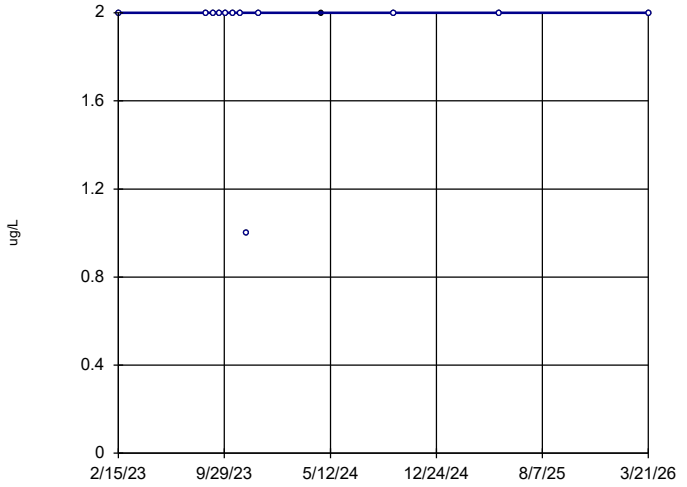
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Cobalt

MW-10



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = -2
critical = -39

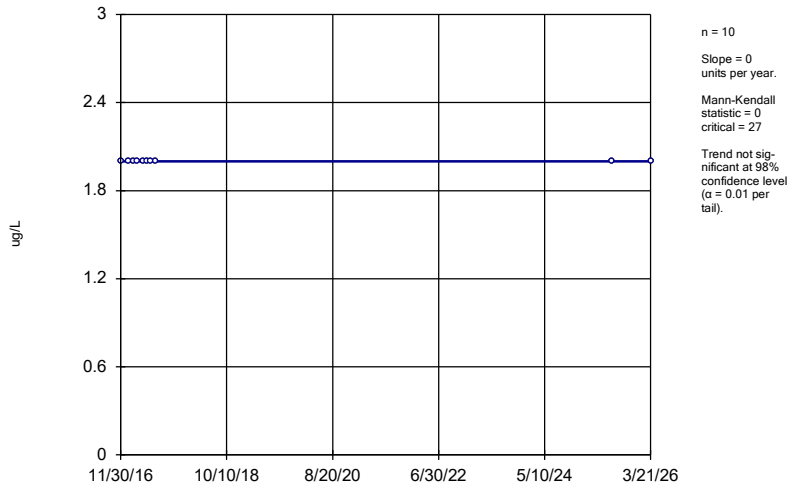
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Cobalt

MW-4



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 27

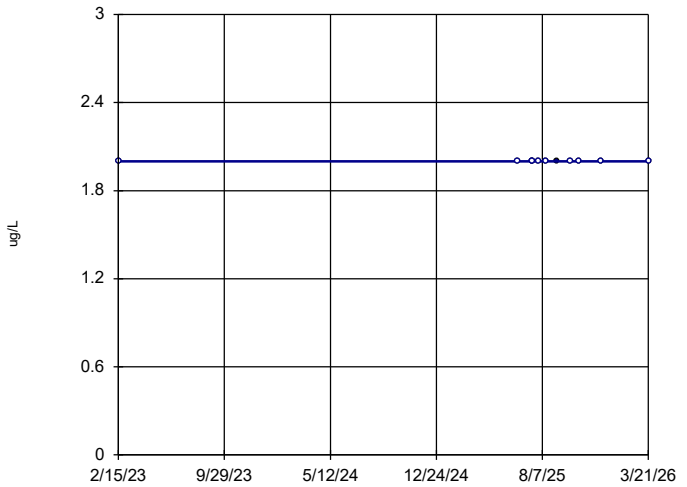
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Cobalt

NE-3



n = 11

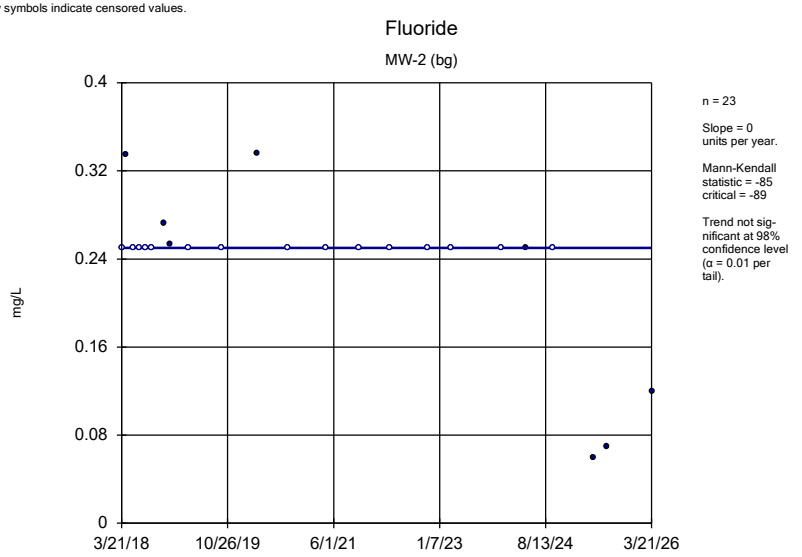
Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 31

Trend not significant at 98% confidence level (α = 0.01 per tail).

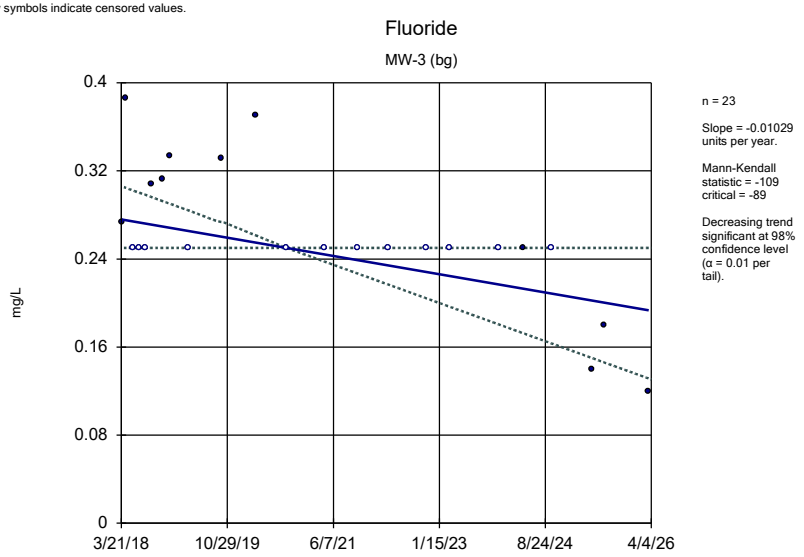
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



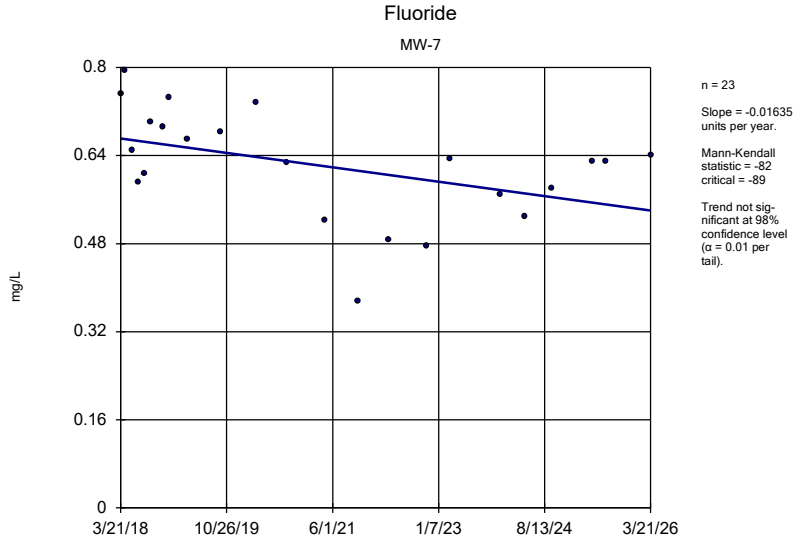
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



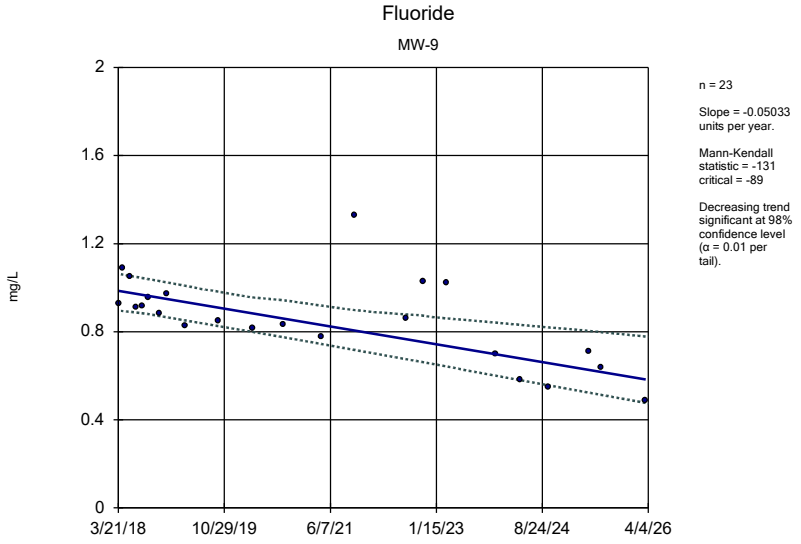
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG



Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

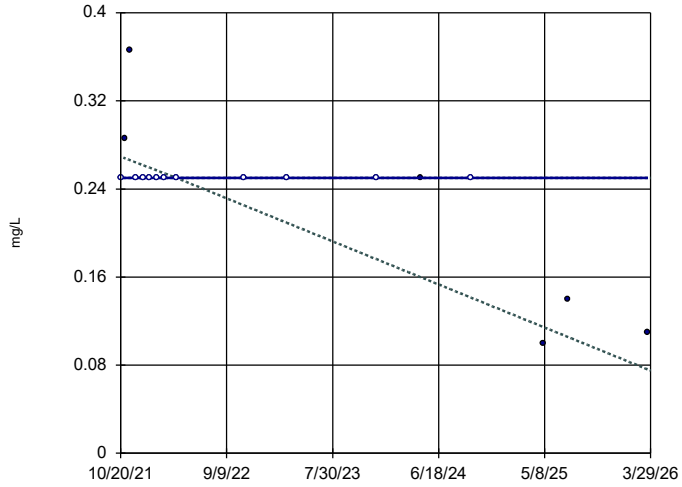


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Fluoride

MW-1R



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -60
critical = -58

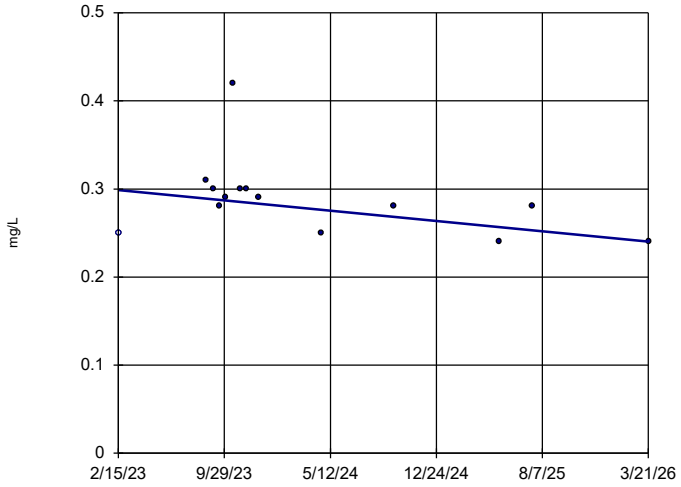
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Fluoride

MW-10



n = 14

Slope = -0.01891 units per year.

Mann-Kendall statistic = -36
critical = -44

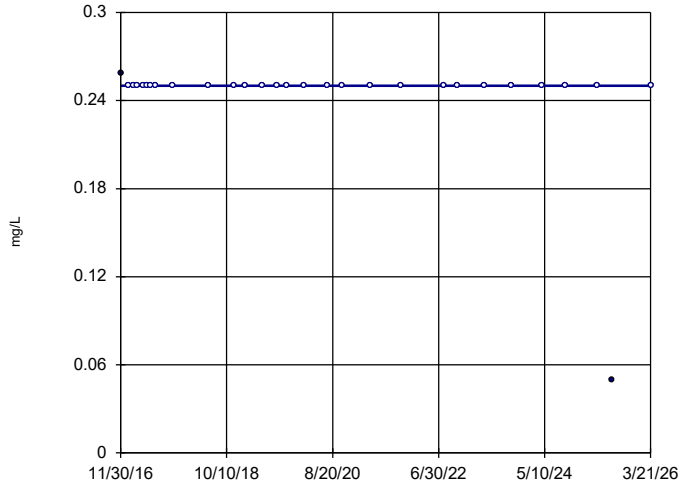
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Fluoride

MW-4



n = 29

Slope = 0 units per year.

Mann-Kendall statistic = -53
critical = -125

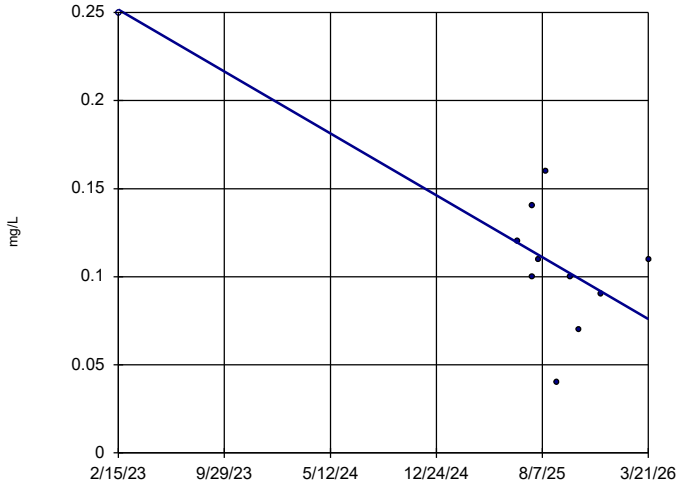
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Fluoride

NE-3



n = 11

Slope = -0.05674 units per year.

Mann-Kendall statistic = -21
critical = -31

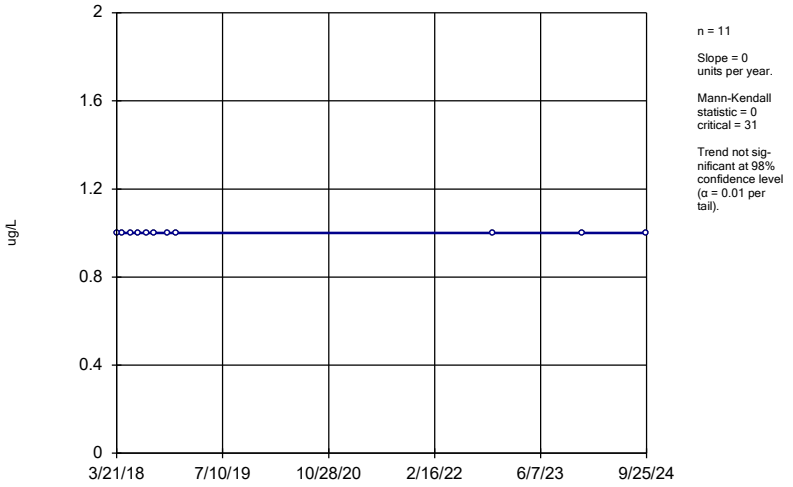
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lead

MW-2 (bg)

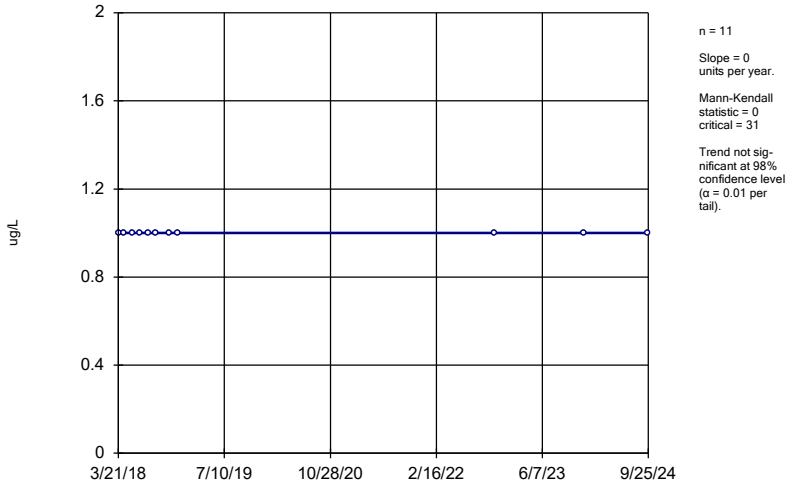


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lead

MW-3 (bg)

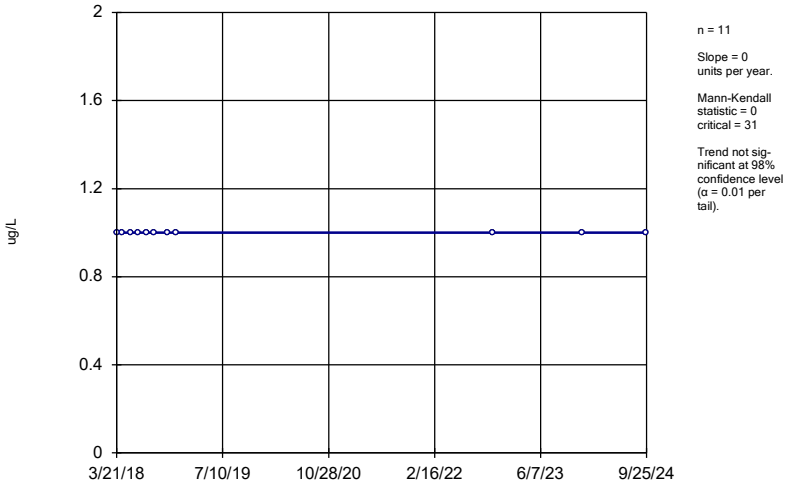


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lead

MW-7

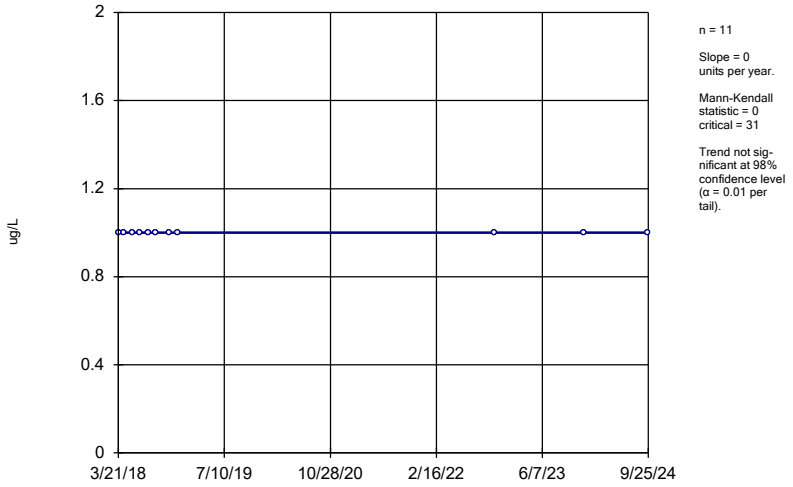


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lead

MW-9

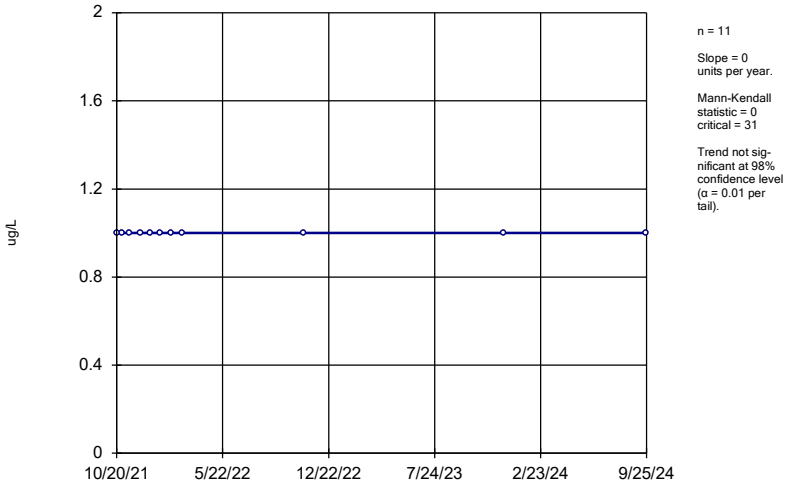


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lead

MW-1R



n = 11

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 31

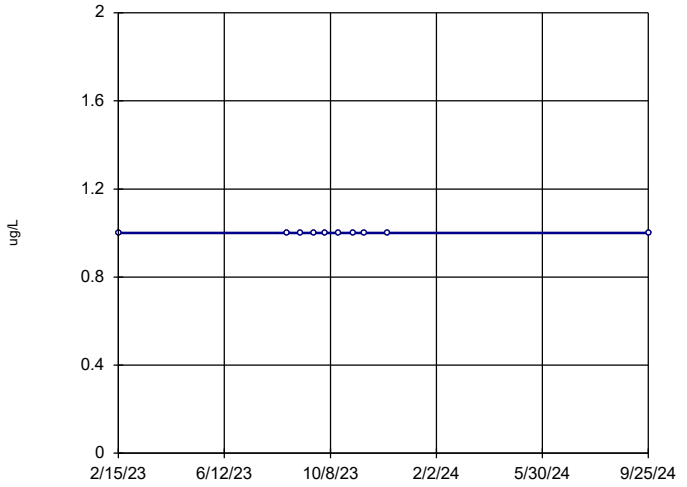
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lead

MW-10



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 27

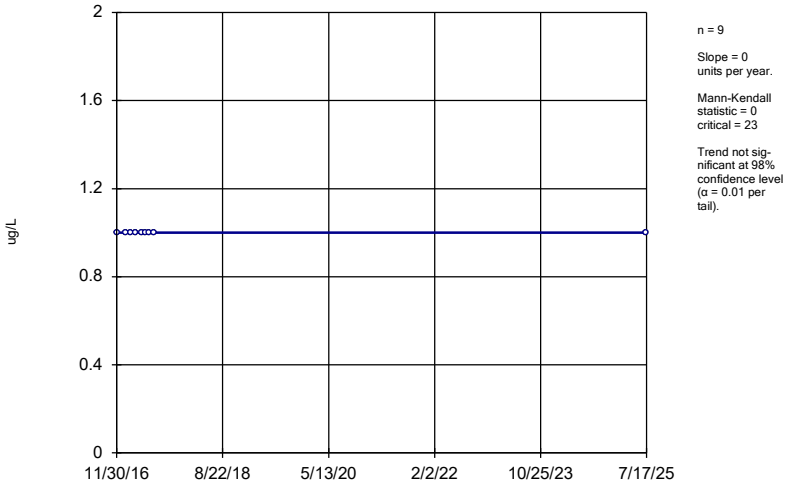
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lead

MW-4



n = 9

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 23

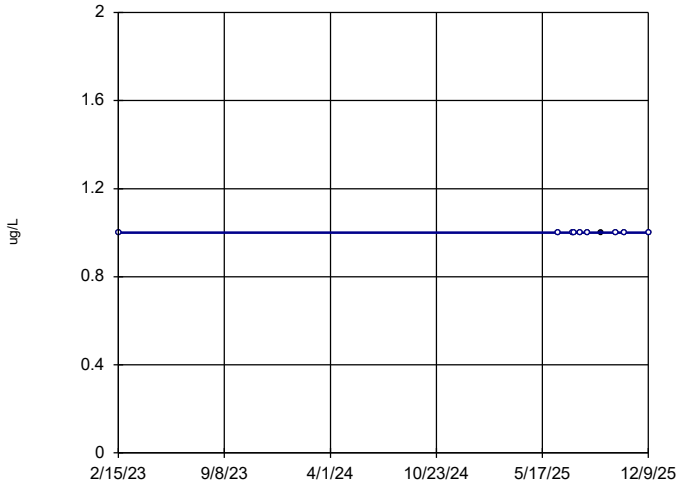
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lead

NE-3



n = 10

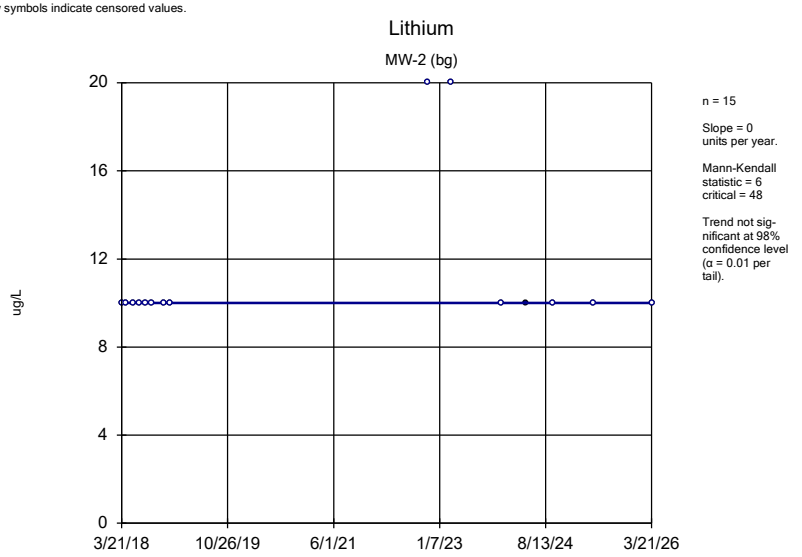
Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 27

Trend not significant at 98% confidence level (α = 0.01 per tail).

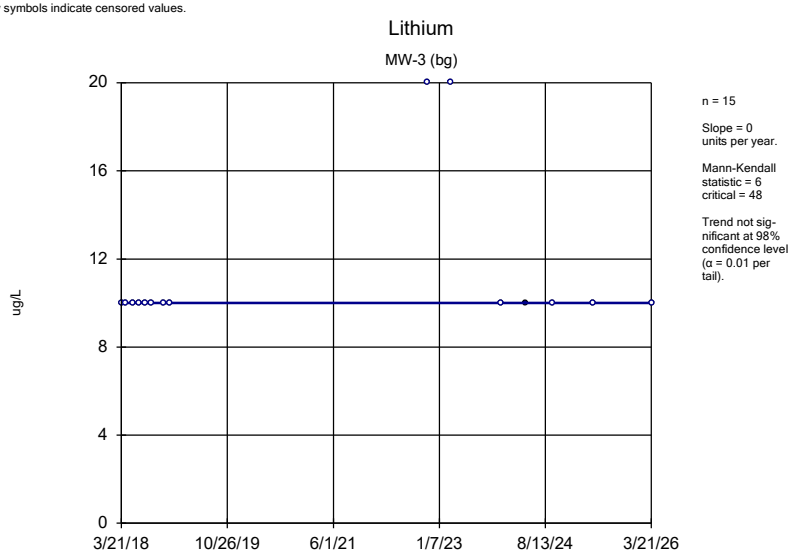
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



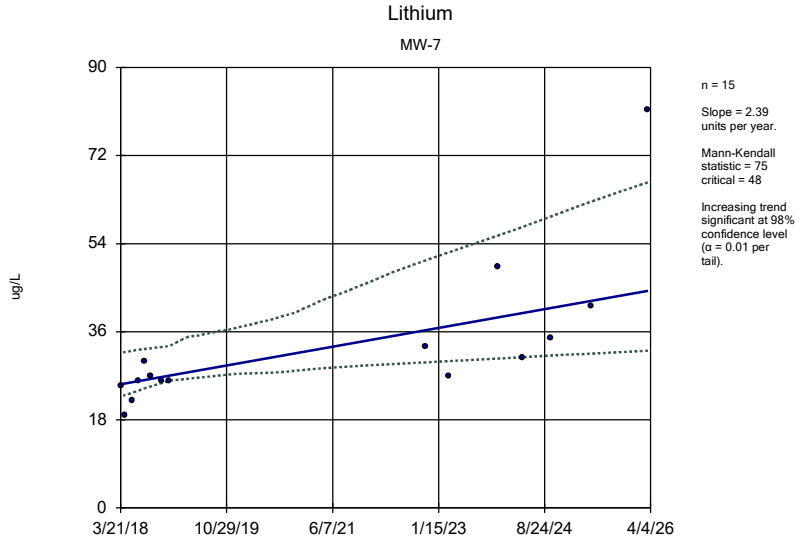
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



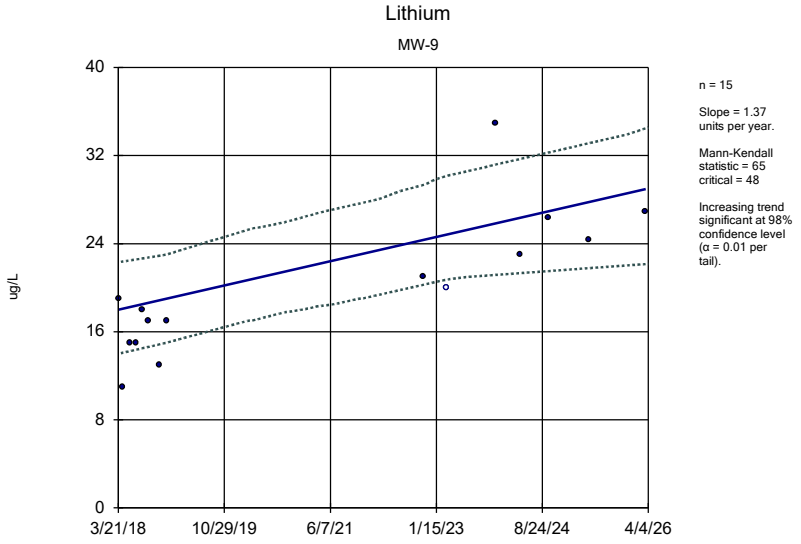
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG



Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

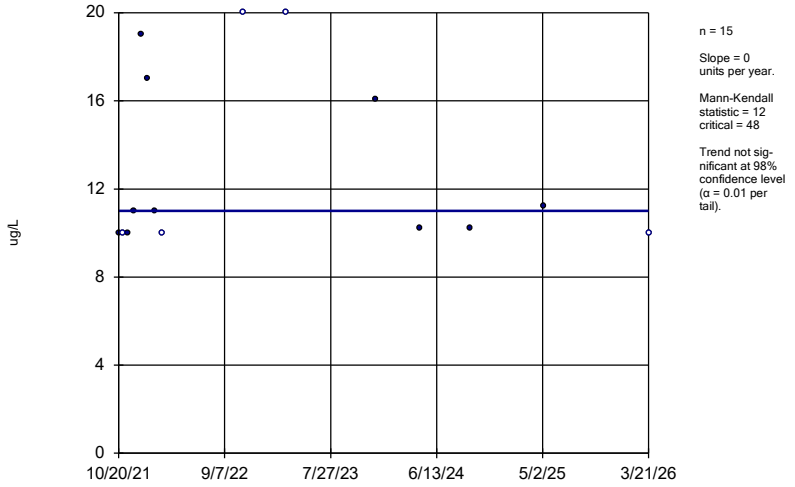


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lithium

MW-1R



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = 12 critical = 48

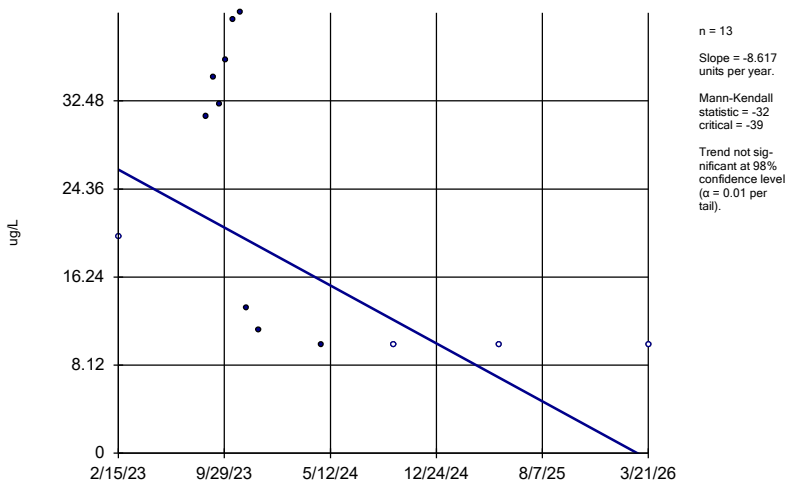
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lithium

MW-10



n = 13

Slope = -8.617 units per year.

Mann-Kendall statistic = -32 critical = -39

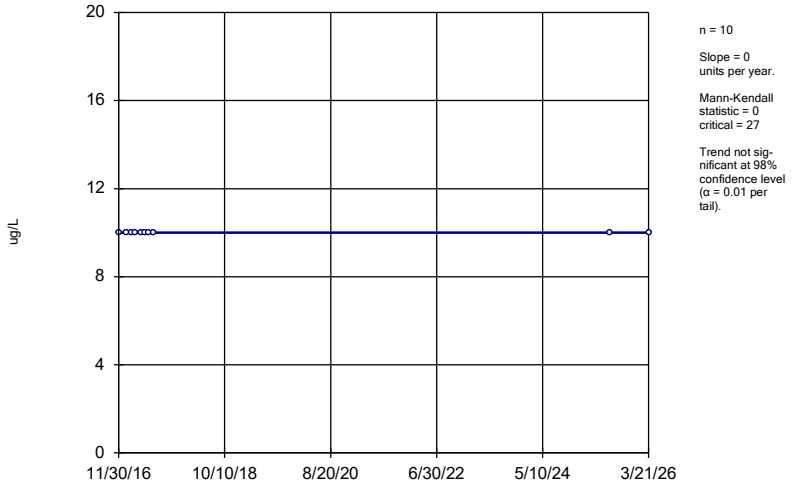
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lithium

MW-4



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 27

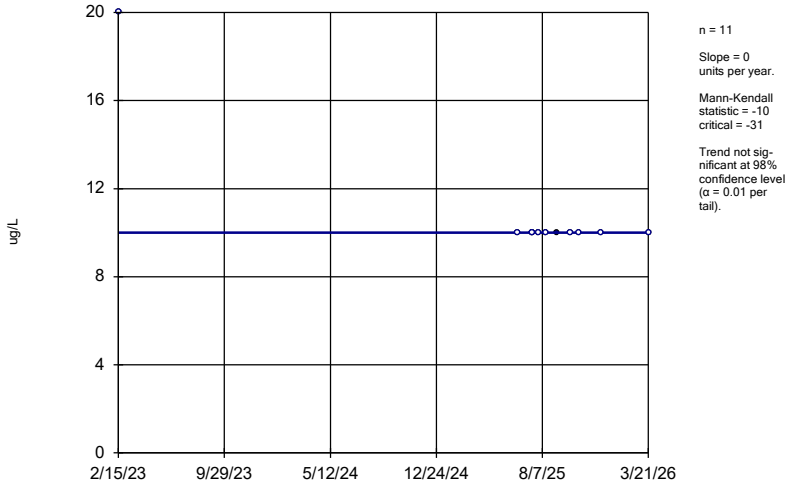
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Lithium

NE-3



n = 11

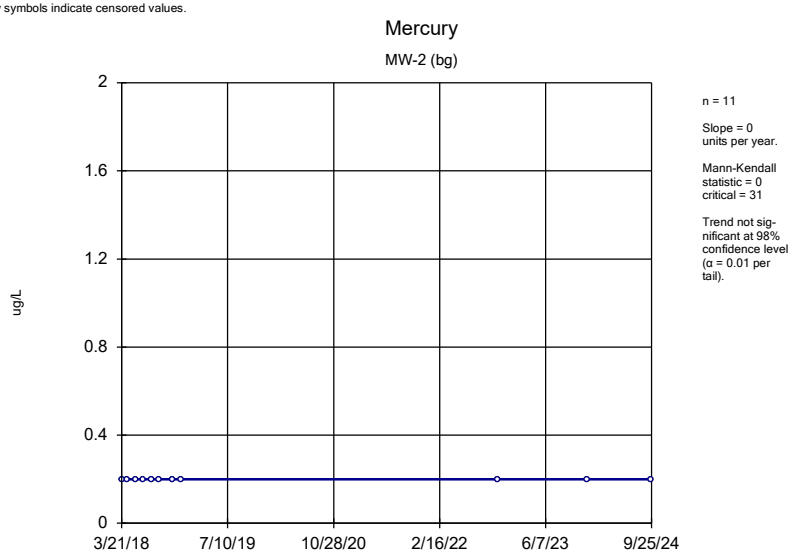
Slope = 0 units per year.

Mann-Kendall statistic = -10 critical = -31

Trend not significant at 98% confidence level (α = 0.01 per tail).

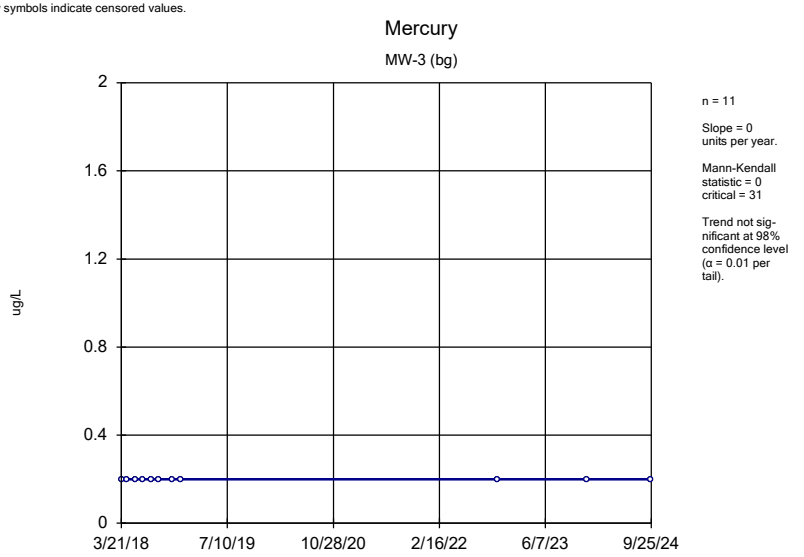
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



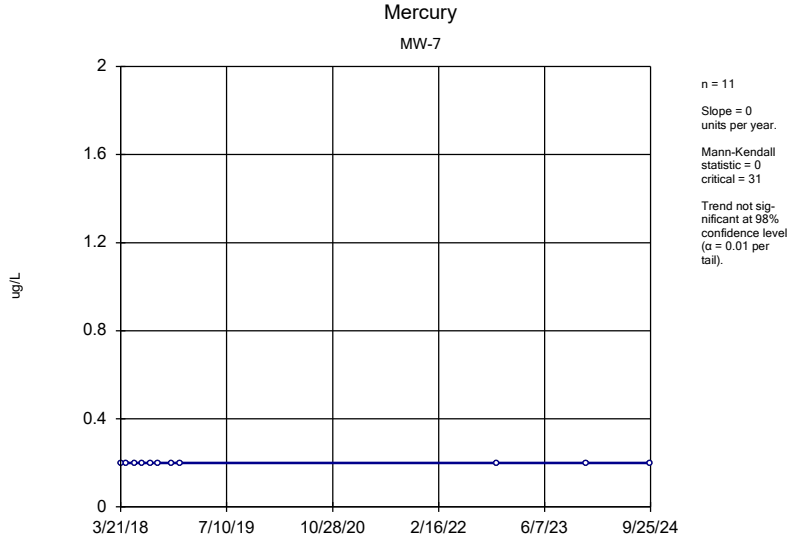
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



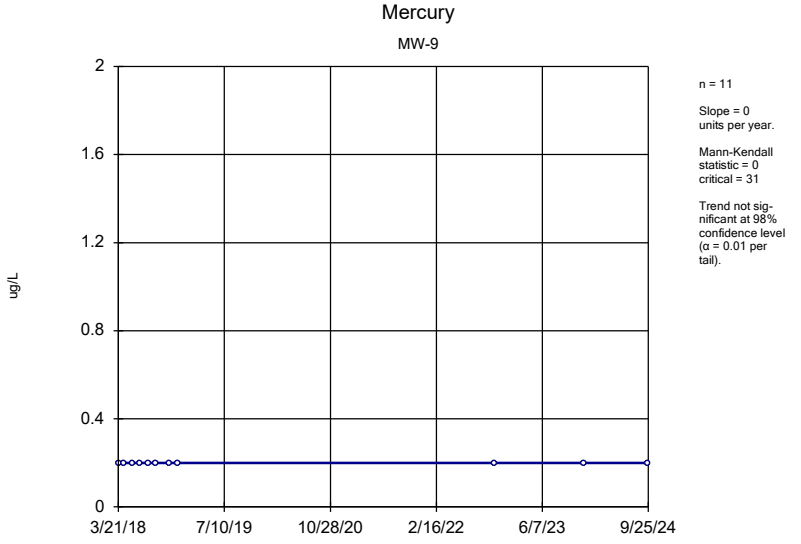
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

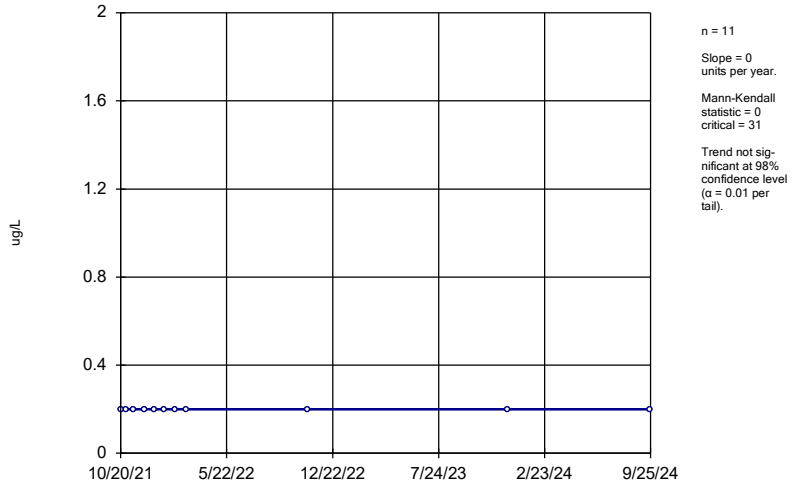


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Mercury

MW-1R



n = 11

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 31

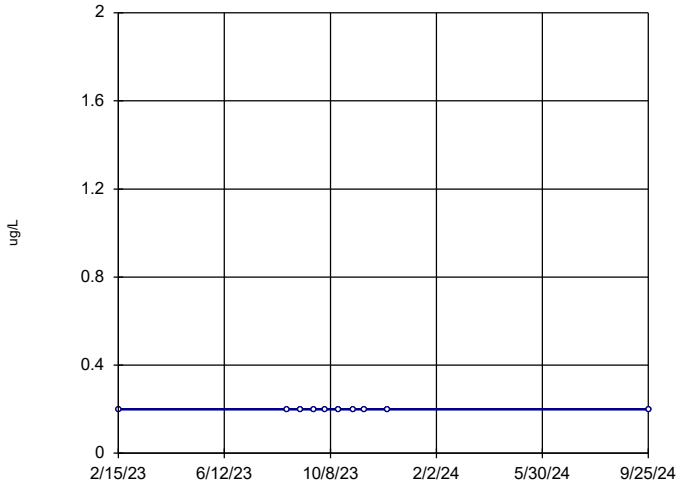
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Mercury

MW-10



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 27

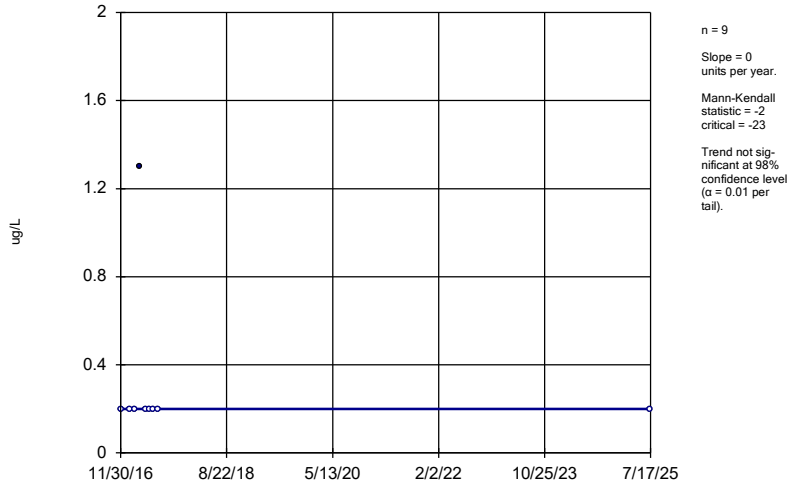
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Mercury

MW-4



n = 9

Slope = 0 units per year.

Mann-Kendall statistic = -2 critical = -23

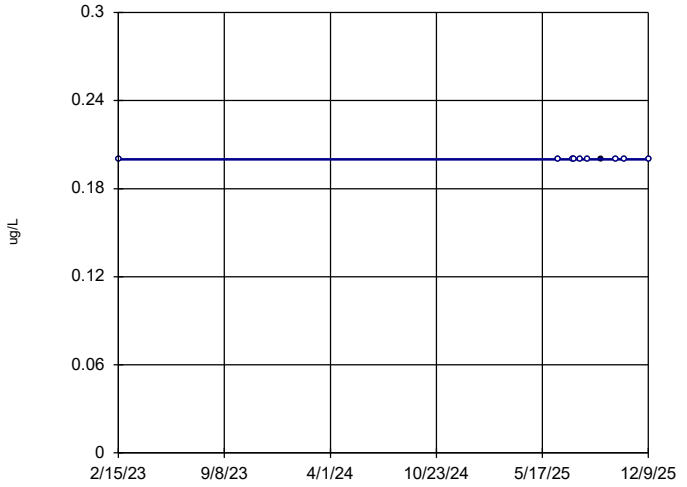
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Mercury

NE-3



n = 10

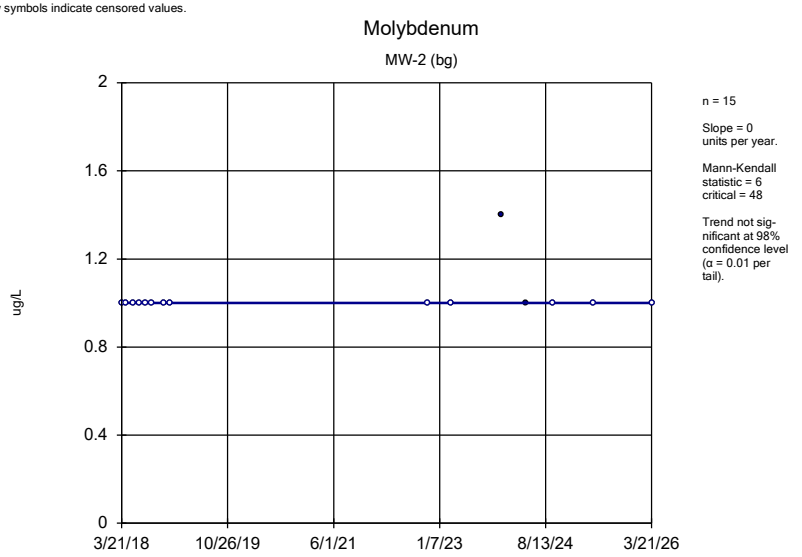
Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 27

Trend not significant at 98% confidence level (α = 0.01 per tail).

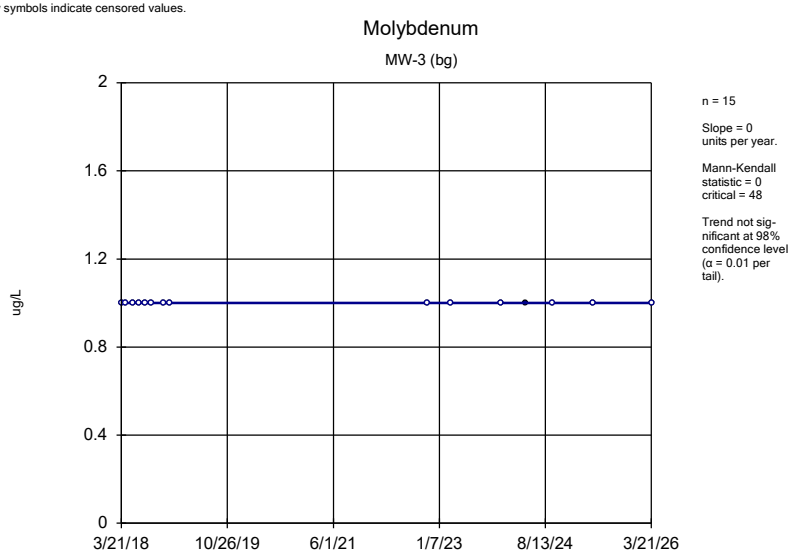
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



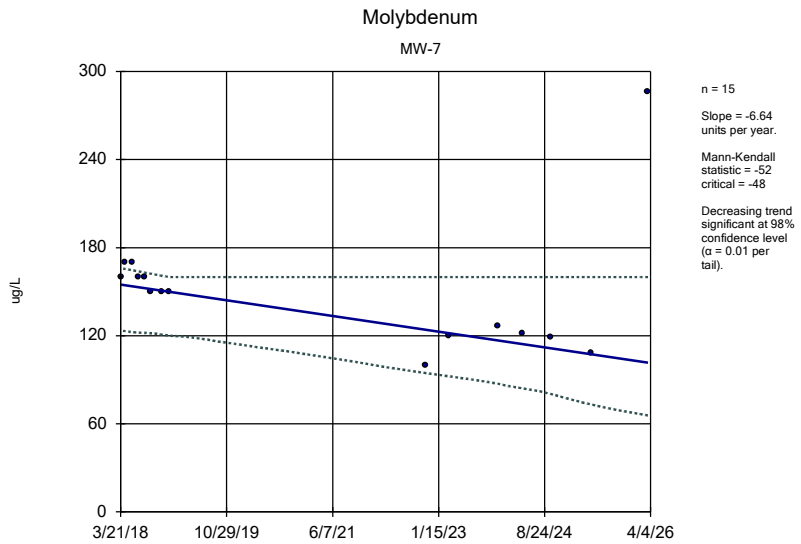
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



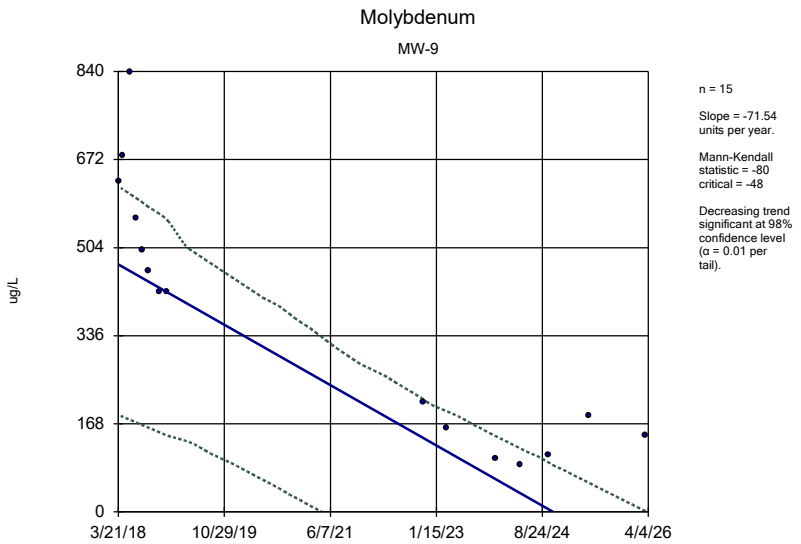
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG



Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

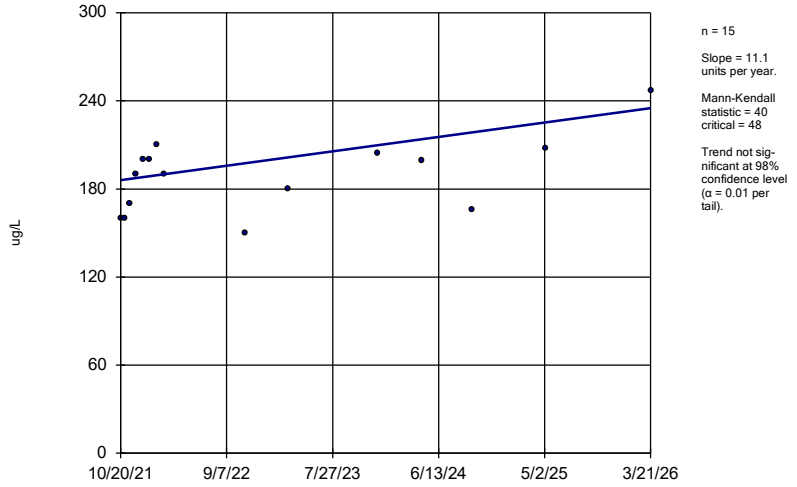


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Molybdenum

MW-1R



n = 15

Slope = 11.1 units per year.

Mann-Kendall statistic = 40
critical = 48

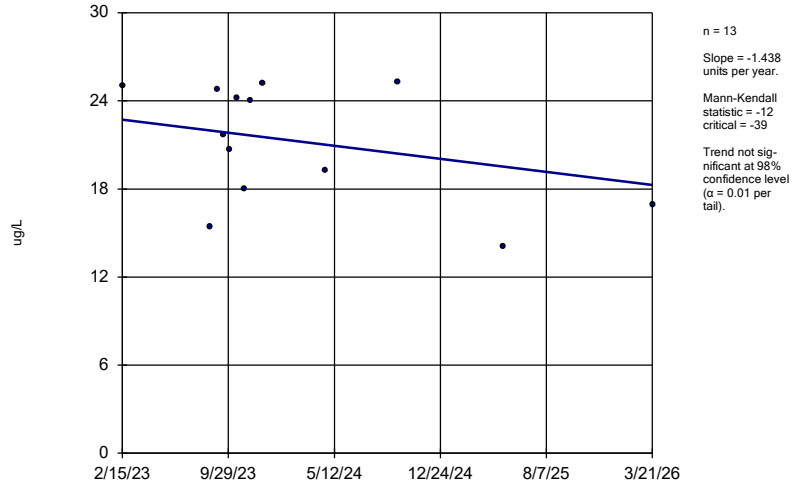
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG

Molybdenum

MW-10



n = 13

Slope = -1.438 units per year.

Mann-Kendall statistic = -12
critical = -39

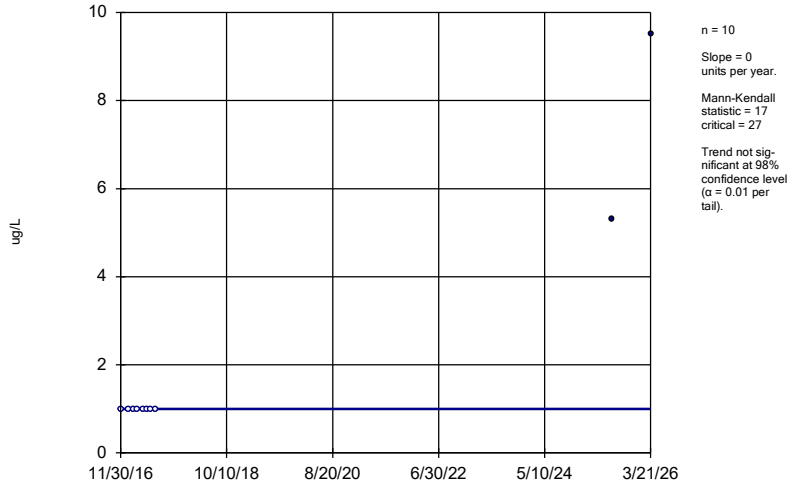
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Molybdenum

MW-4



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 17
critical = 27

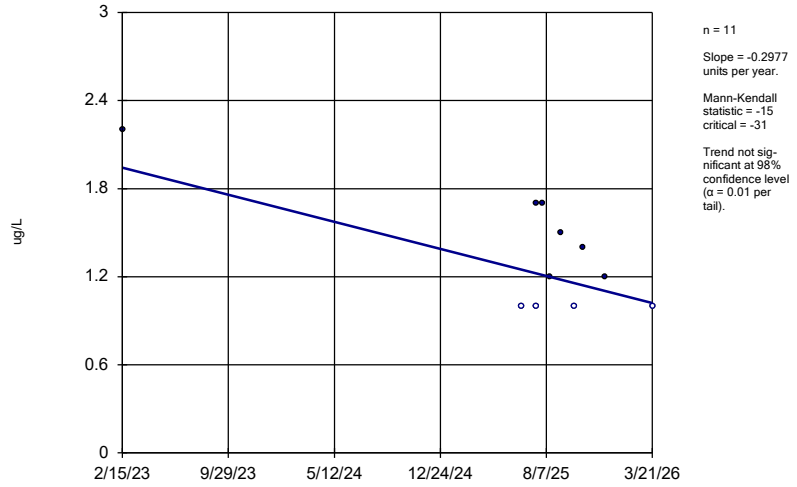
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Molybdenum

NE-3



n = 11

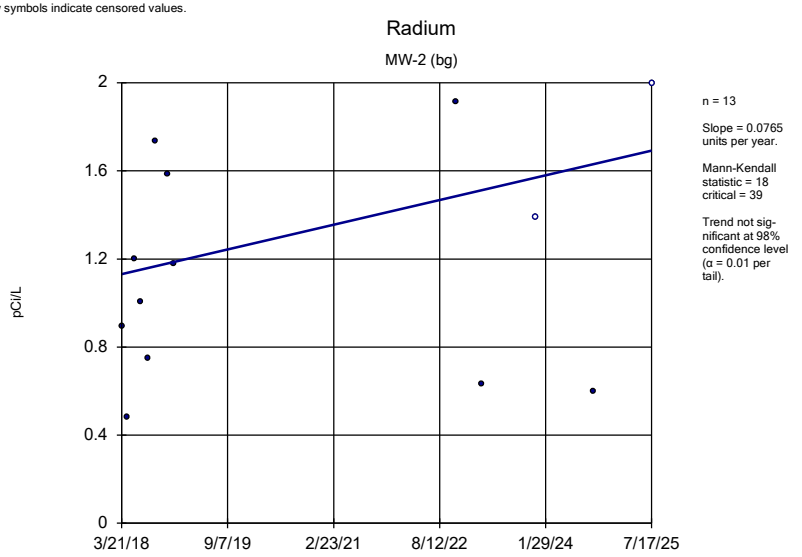
Slope = -0.2977 units per year.

Mann-Kendall statistic = -15
critical = -31

Trend not significant at 98% confidence level (α = 0.01 per tail).

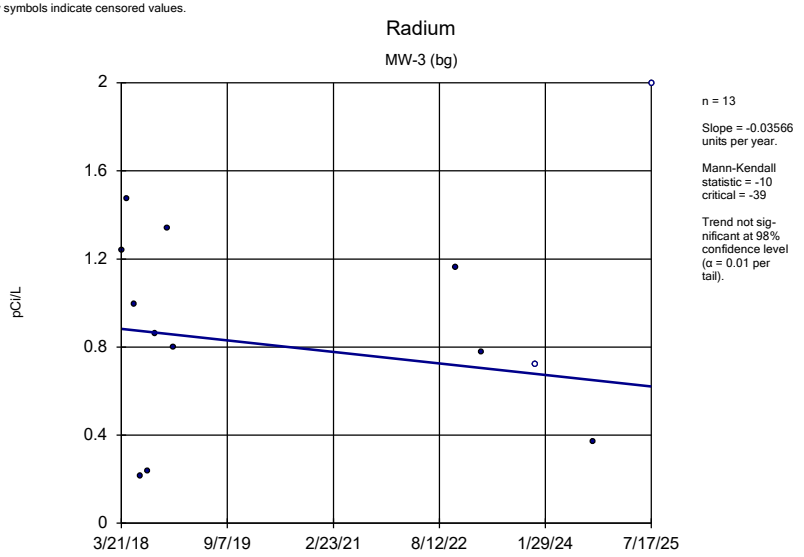
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



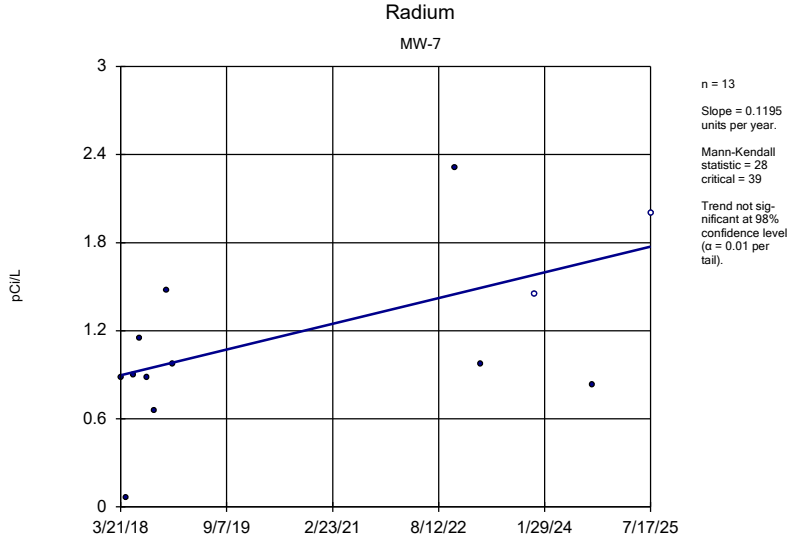
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



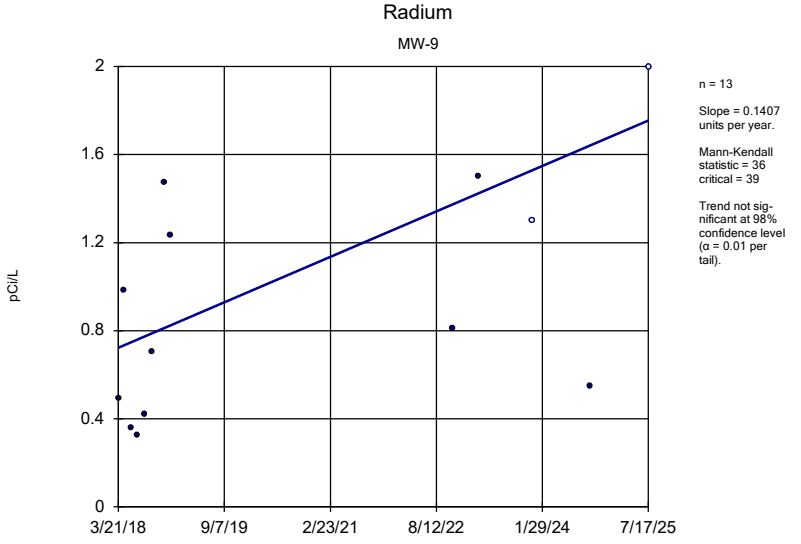
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



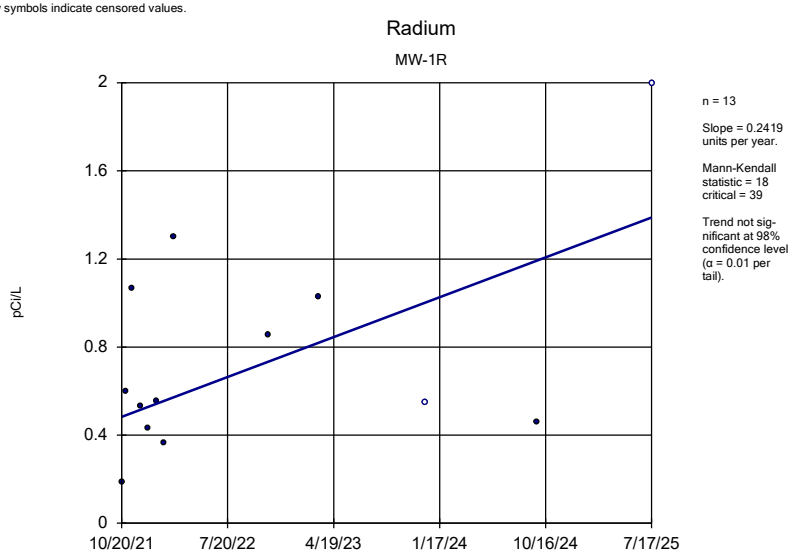
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



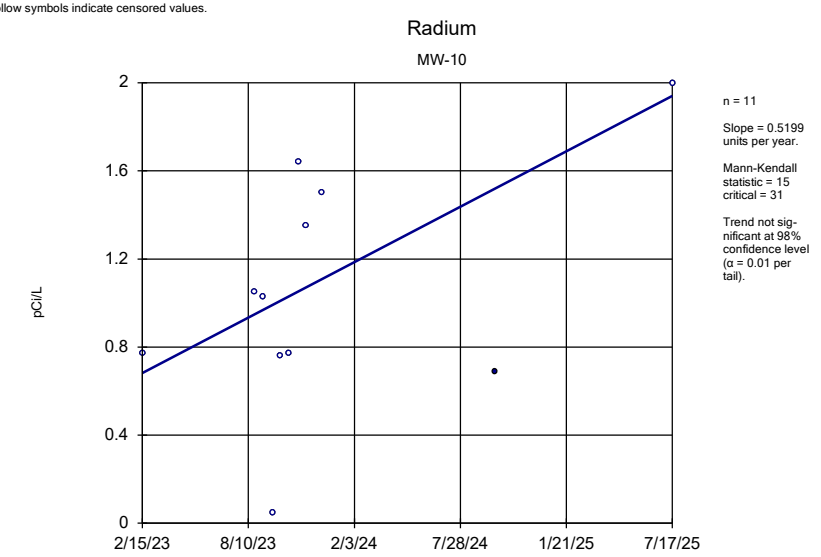
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



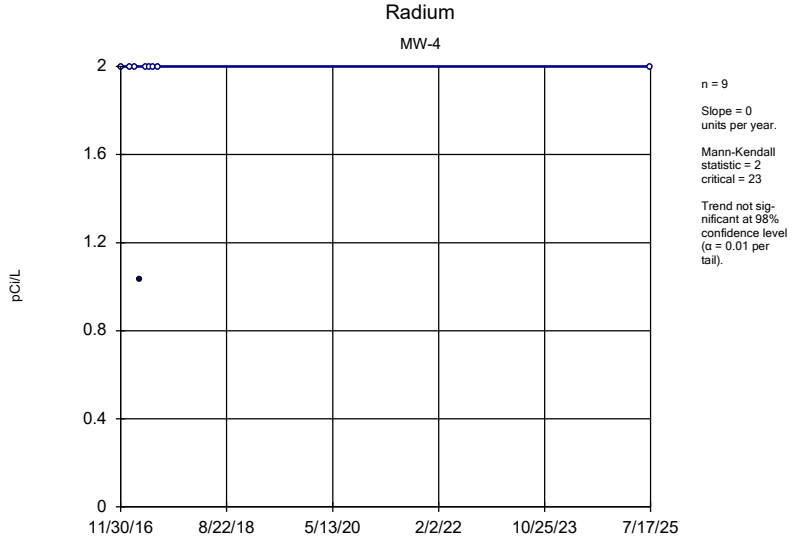
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



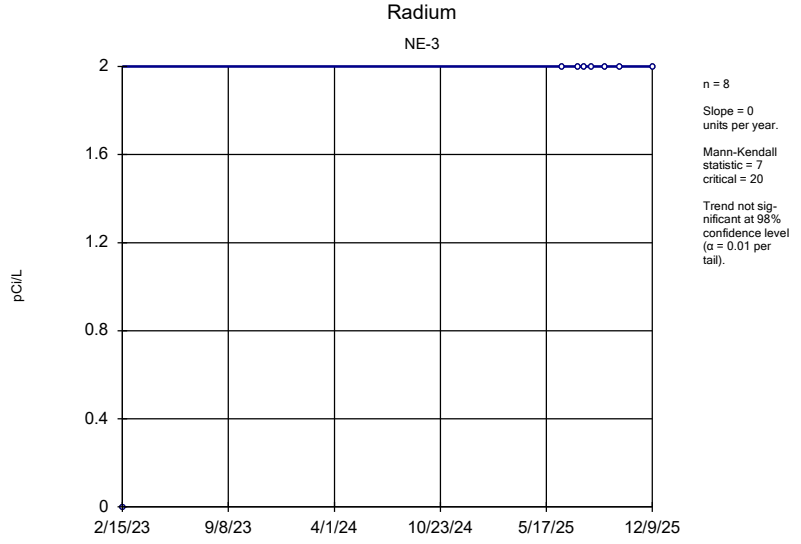
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

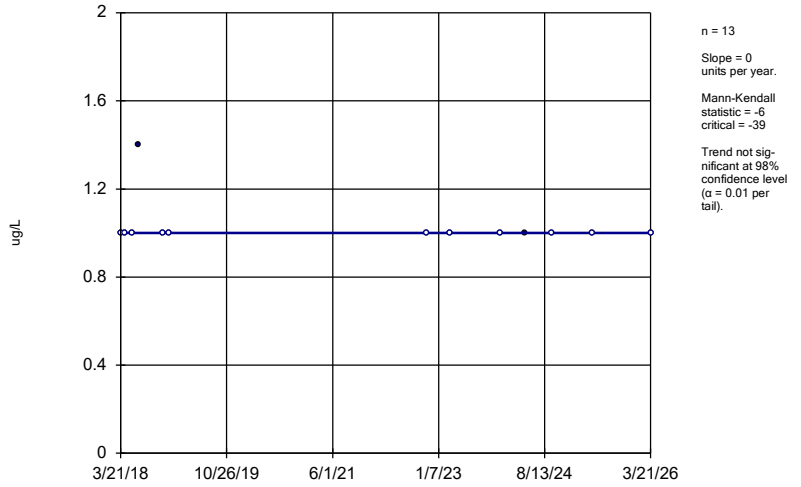


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Selenium

MW-2 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = -6 critical = -39

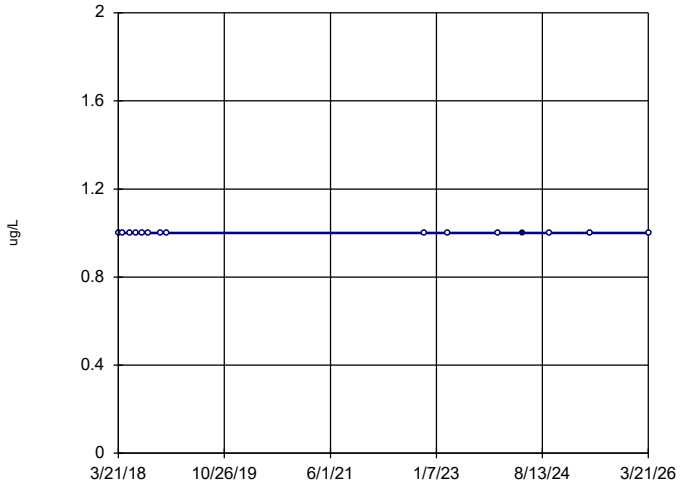
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Selenium

MW-3 (bg)



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 48

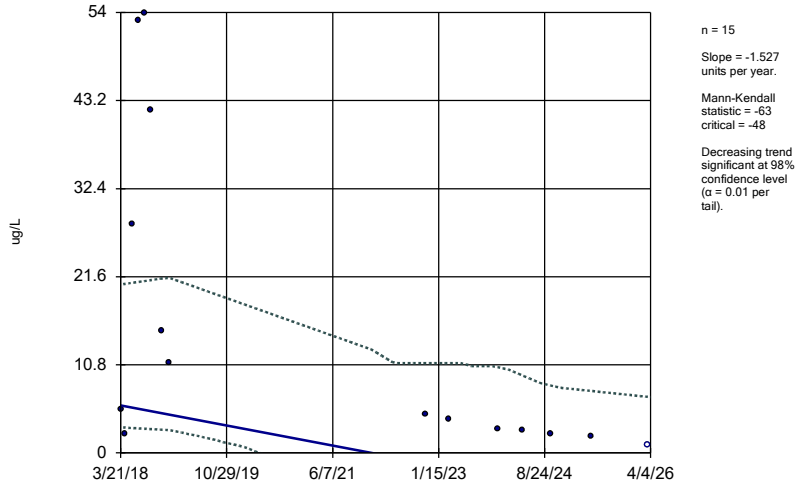
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Selenium

MW-7



n = 15

Slope = -1.527 units per year.

Mann-Kendall statistic = -63 critical = -48

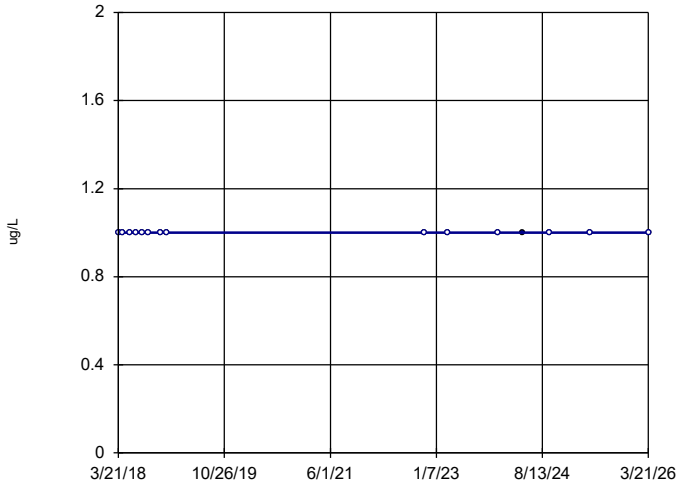
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Selenium

MW-9



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 48

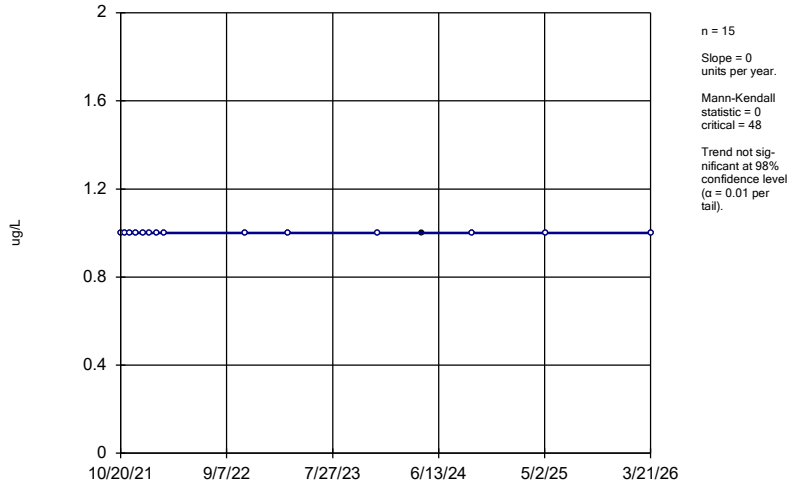
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Selenium

MW-1R



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 48

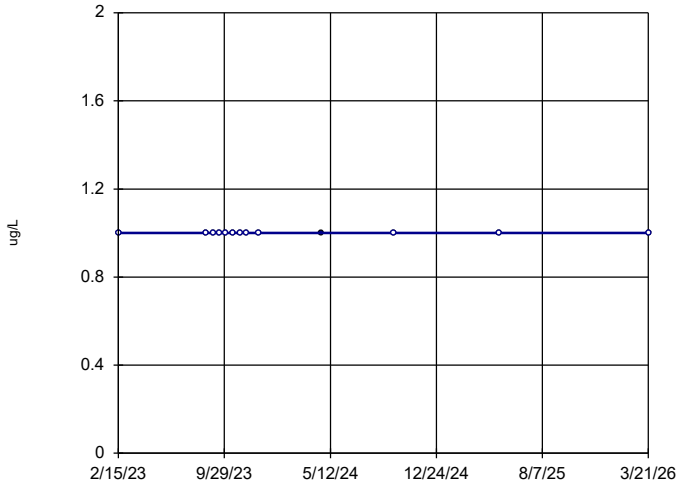
Trend not sig-
nificant at 98%
confidence level
(α = 0.01 per
tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Selenium

MW-10



n = 13

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 39

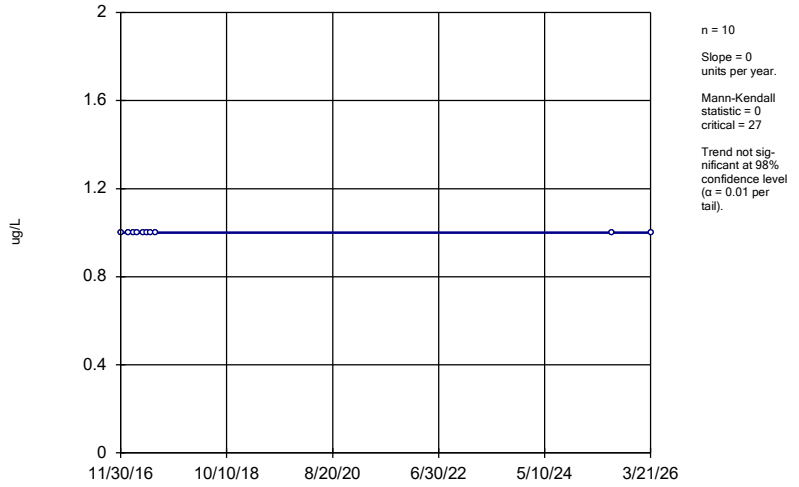
Trend not sig-
nificant at 98%
confidence level
(α = 0.01 per
tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Selenium

MW-4



n = 10

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 27

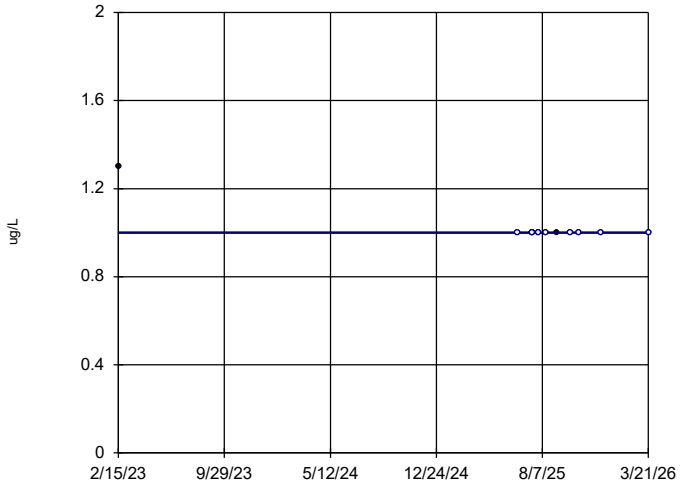
Trend not sig-
nificant at 98%
confidence level
(α = 0.01 per
tail).

Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Selenium

NE-3



n = 11

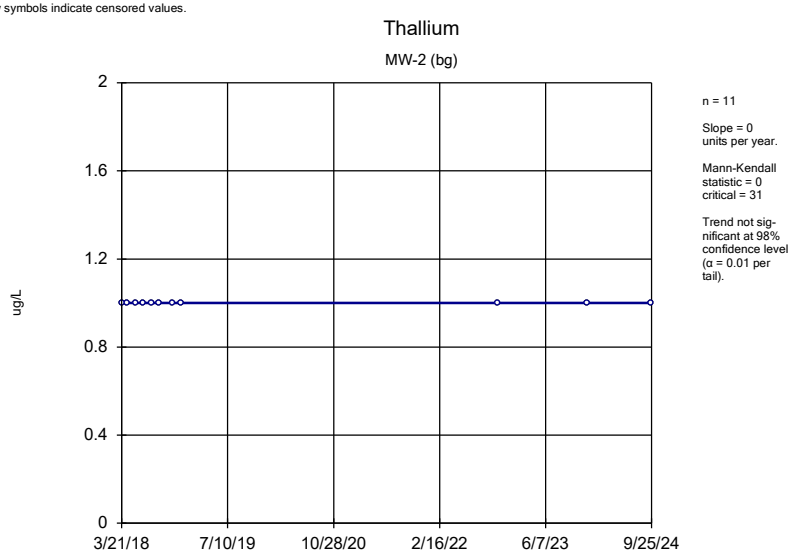
Slope = 0
units per year.

Mann-Kendall
statistic = -10
critical = -31

Trend not sig-
nificant at 98%
confidence level
(α = 0.01 per
tail).

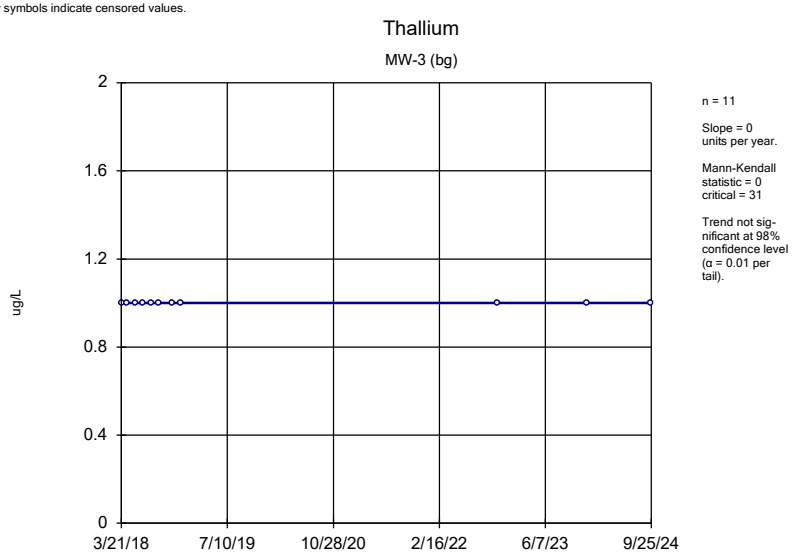
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



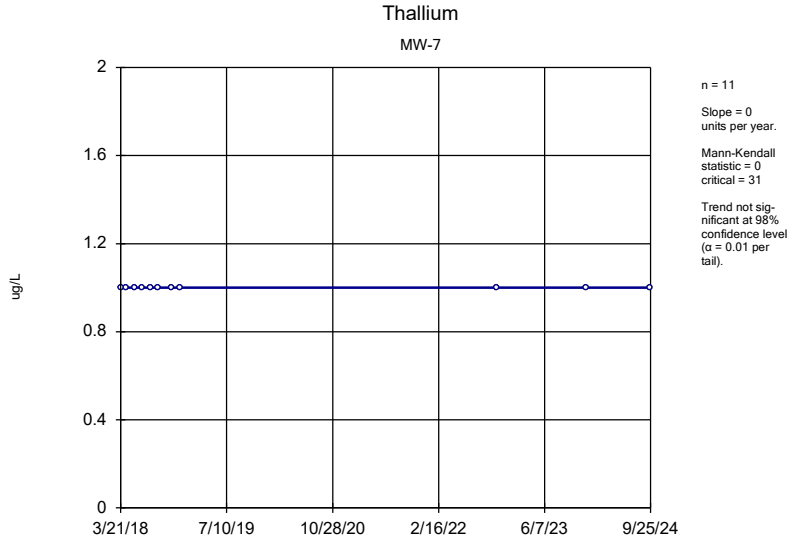
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



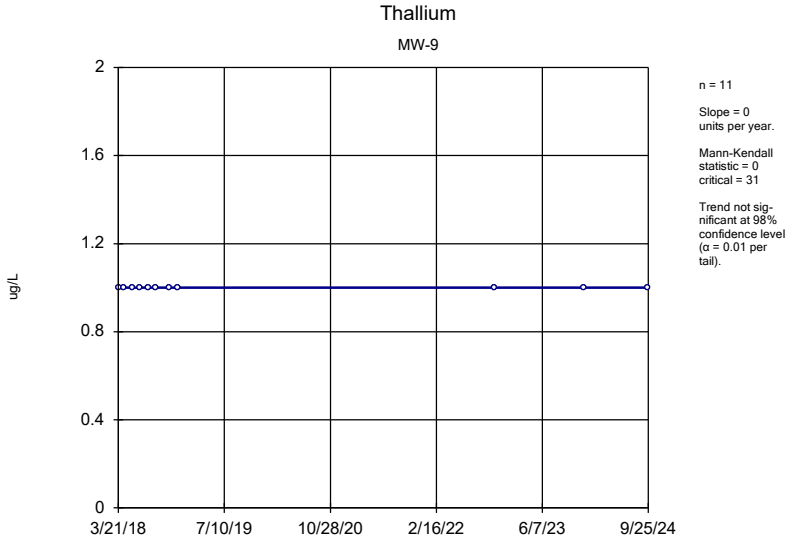
Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.



Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:54 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

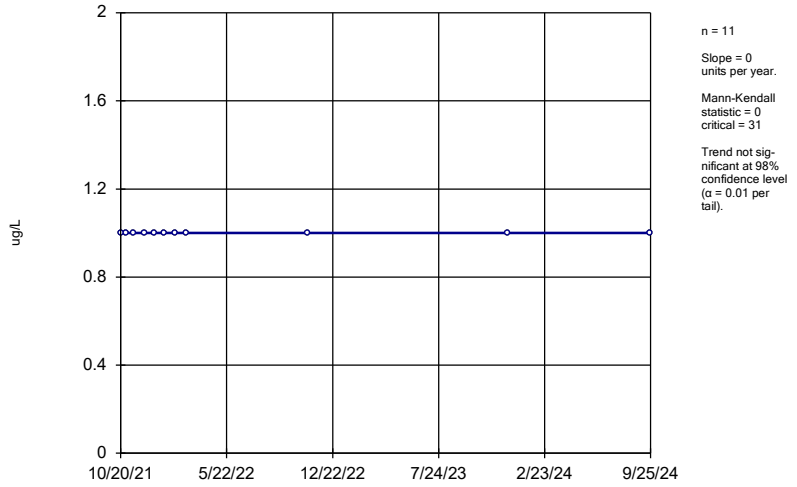


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:55 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Thallium

MW-1R

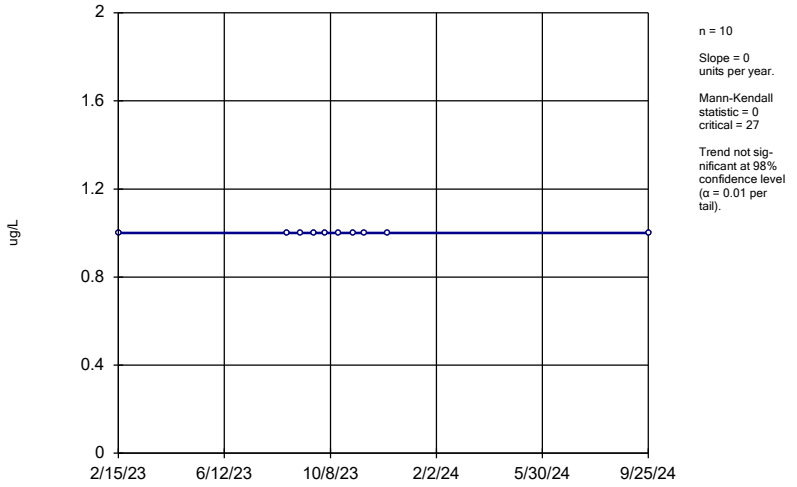


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:55 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Thallium

MW-10

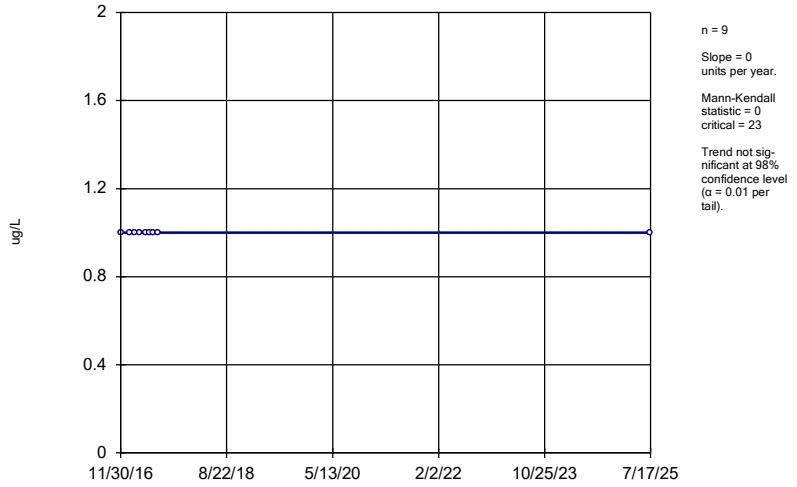


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:55 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.06 Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Thallium

MW-4

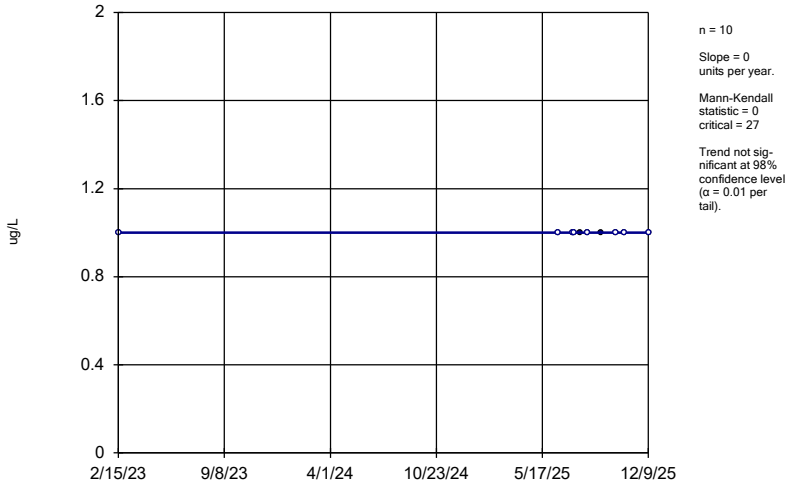


Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:55 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

Thallium

NE-3



Sen's Slope and 95% Confidence Band Analysis Run 4/2/2026 8:55 AM View: Corrective Action
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Appendix 10
Detection Monitoring Database Update

Outlier Analysis

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 9/9/2025, 9:27 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Boron (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	21	42.8	12.61	ln(x)	ShapiroWilk
Boron (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	22.54	6.454	x^2	ShapiroWilk
Boron (ug/L)	MW-7	No	n/a	n/a	NP	NaN	21	2174	492.7	ln(x)	ShapiroWilk
Boron (ug/L)	MW-9	No	n/a	n/a	NP	NaN	21	4350	918	sqrt(x)	ShapiroWilk
Boron (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	15	2949	738.3	ln(x)	ShapiroWilk
Boron (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	288.4	61.29	ln(x)	ShapiroWilk
Boron (ug/L)	MW-4	No	n/a	n/a	NP	NaN	27	1051	235.9	normal	ShapiroWilk
Calcium (mg/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	21	18.77	2.924	x^2	ShapiroWilk
Calcium (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	16.37	1.526	x^3	ShapiroWilk
Calcium (mg/L)	MW-7	No	n/a	n/a	NP	NaN	21	120.1	12.75	ln(x)	ShapiroWilk
Calcium (mg/L)	MW-9	No	n/a	n/a	NP	NaN	21	78.21	15.18	normal	ShapiroWilk
Calcium (mg/L)	MW-1R	No	n/a	n/a	NP	NaN	15	79.9	17.67	ln(x)	ShapiroWilk
Calcium (mg/L)	MW-10	No	n/a	n/a	NP	NaN	12	85.47	7.276	x^6	ShapiroWilk
Calcium (mg/L)	MW-4	No	n/a	n/a	NP	NaN	27	79.34	12.03	ln(x)	ShapiroWilk
Chloride (mg/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	21	4.335	1.552	normal	ShapiroWilk
Chloride (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	1.429	0.6657	ln(x)	ShapiroWilk
Chloride (mg/L)	MW-7	No	n/a	n/a	NP	NaN	21	6.343	3.528	ln(x)	ShapiroWilk
Chloride (mg/L)	MW-9	No	n/a	n/a	NP	NaN	21	14.88	3.096	ln(x)	ShapiroWilk
Chloride (mg/L)	MW-1R	No	n/a	n/a	NP	NaN	15	13.99	3.073	x^(1/3)	ShapiroWilk
Chloride (mg/L)	MW-10	No	n/a	n/a	NP	NaN	12	16.59	4.589	x^4	ShapiroWilk
Chloride (mg/L)	**MW-4**	**Yes**	**2.1,45.2**	**11/4/2019...**	**NP**	**NaN**	**27**	**15.58**	**7.832**	**x^(1/3)**	**ShapiroWilk**
Fluoride (mg/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	21	0.2503	0.05061	unknown	ShapiroWilk
Fluoride (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	0.2718	0.05336	normal	ShapiroWilk
Fluoride (mg/L)	MW-7	No	n/a	n/a	NP	NaN	21	0.6219	0.1043	x^2	ShapiroWilk
Fluoride (mg/L)	MW-9	No	n/a	n/a	NP	NaN	21	0.885	0.1758	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	MW-1R	n/a	n/a	n/a	NP	NaN	15	0.2501	0.05158	unknown	ShapiroWilk
Fluoride (mg/L)	MW-10	No	n/a	n/a	NP	NaN	12	0.2925	0.04615	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-4	n/a	n/a	n/a	NP	NaN	27	0.2503	0.001732	unknown	ShapiroWilk
pH (S.U.)	MW-2 (bg)	No	n/a	n/a	NP	NaN	21	6.235	0.1004	ln(x)	ShapiroWilk
pH (S.U.)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	6.559	0.1311	ln(x)	ShapiroWilk
pH (S.U.)	MW-7	No	n/a	n/a	NP	NaN	21	7.302	0.06418	ln(x)	ShapiroWilk
pH (S.U.)	MW-9	No	n/a	n/a	NP	NaN	21	7.316	0.1399	x^6	ShapiroWilk
pH (S.U.)	MW-1R	No	n/a	n/a	NP	NaN	15	6.537	0.0664	x^6	ShapiroWilk
pH (S.U.)	MW-10	No	n/a	n/a	NP	NaN	12	6.966	0.1227	ln(x)	ShapiroWilk
pH (S.U.)	MW-4	No	n/a	n/a	NP	NaN	27	7.359	0.07154	x^2	ShapiroWilk
Sulfate (mg/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	21	16.6	2.698	x^3	ShapiroWilk
Sulfate (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	15.1	3.597	x^2	ShapiroWilk
Sulfate (mg/L)	MW-7	No	n/a	n/a	NP	NaN	21	180.4	54.69	sqrt(x)	ShapiroWilk
Sulfate (mg/L)	MW-9	No	n/a	n/a	NP	NaN	21	200.1	39.16	x^3	ShapiroWilk
Sulfate (mg/L)	MW-1R	No	n/a	n/a	NP	NaN	15	170.5	49.76	ln(x)	ShapiroWilk
Sulfate (mg/L)	MW-10	No	n/a	n/a	NP	NaN	12	149.4	31.34	x^4	ShapiroWilk
Sulfate (mg/L)	MW-4	No	n/a	n/a	NP	NaN	27	99.85	27.31	ln(x)	ShapiroWilk
Total Dissolved Solids (mg/L)	**MW-2 (bg)**	**Yes**	**700**	**3/12/2023**	**NP**	**NaN**	**21**	**159**	**136.2**	**ln(x)**	**ShapiroWilk**
Total Dissolved Solids (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	121.8	22.19	x^(1/3)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-7	No	n/a	n/a	NP	NaN	21	489	58.04	ln(x)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-9	No	n/a	n/a	NP	NaN	21	491.2	70.66	x^2	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-1R	No	n/a	n/a	NP	NaN	15	390.7	85.38	ln(x)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-10	No	n/a	n/a	NP	NaN	12	418.3	44.17	x^2	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-4	No	n/a	n/a	NP	NaN	27	342.3	59.83	ln(x)	ShapiroWilk

Outlier Analysis

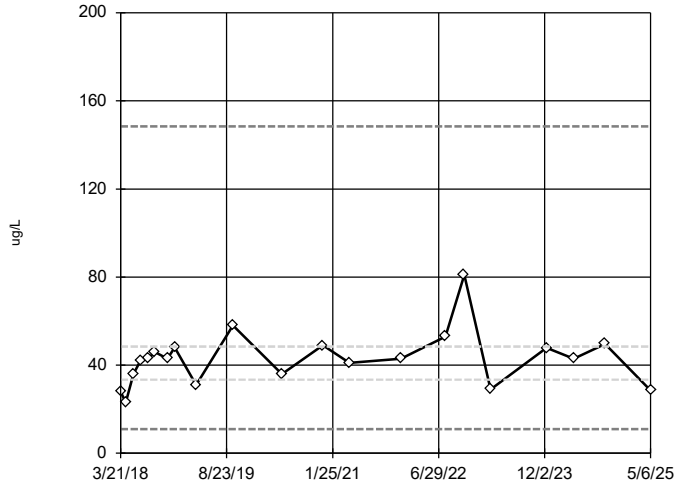
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 9/9/2025, 9:27 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Chloride (mg/L)	**MW-4**	**Yes**	**2.1,45.2**	**11/4/2019...**	**NP**	**NaN**	**27**	**15.58**	**7.832**	**x^(1/3)**	**ShapiroWilk**
Total Dissolved Solids (mg/L)	**MW-2 (bg)**	**Yes**	**700**	**3/12/2023**	**NP**	**NaN**	**21**	**159**	**136.2**	**ln(x)**	**ShapiroWilk**

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Boron

MW-2 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

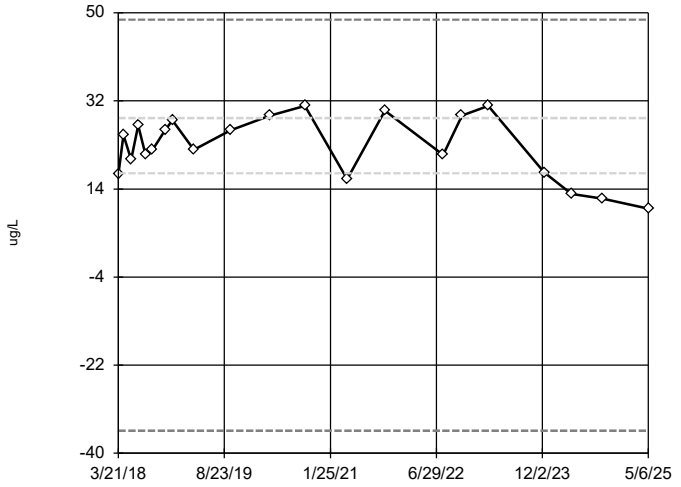
High cutoff = 148.4, low cutoff = 10.92, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Boron

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

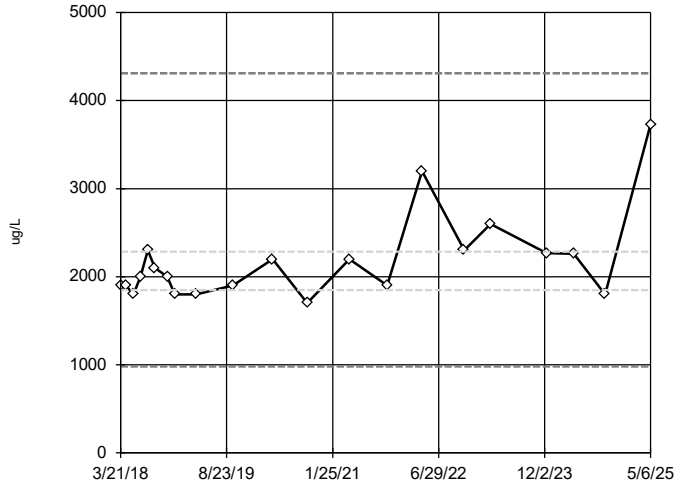
High cutoff = 48.6, low cutoff = -35.41, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Boron

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

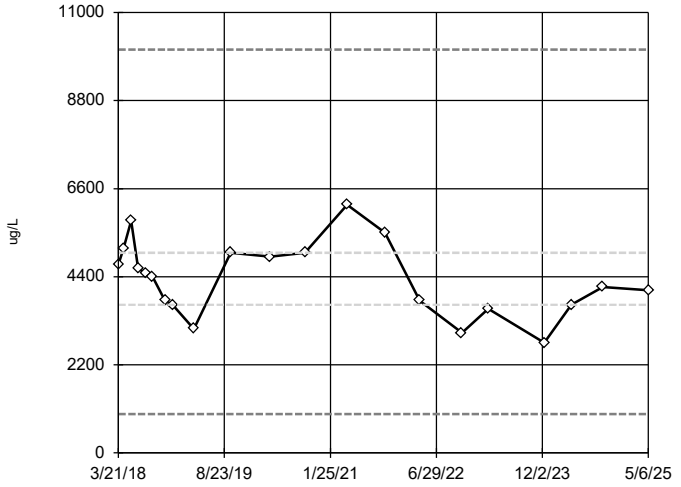
High cutoff = 4310, low cutoff = 980.4, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Boron

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

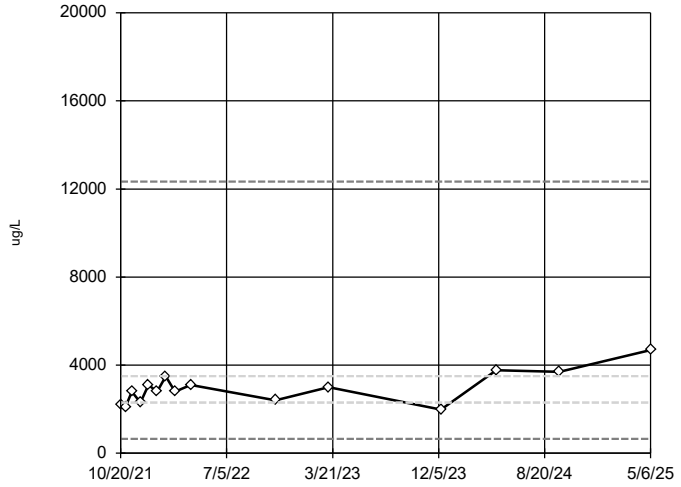
High cutoff = 10072, low cutoff = 972.1, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Boron

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

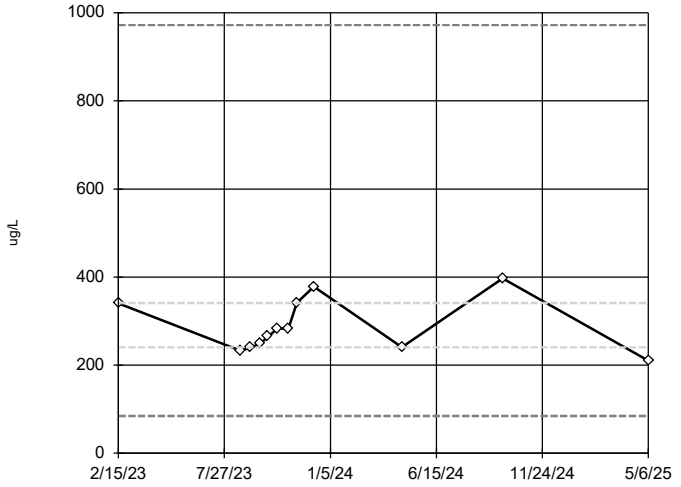
High cutoff = 12334, low cutoff = 652.7, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Boron

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

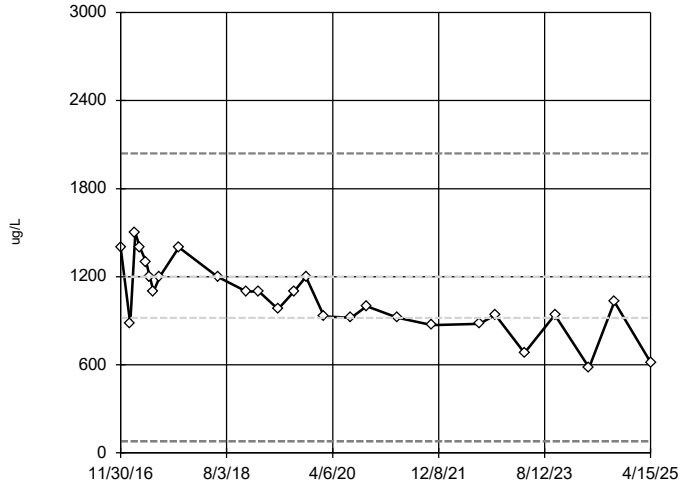
High cutoff = 972, low cutoff = 84.37, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Boron

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

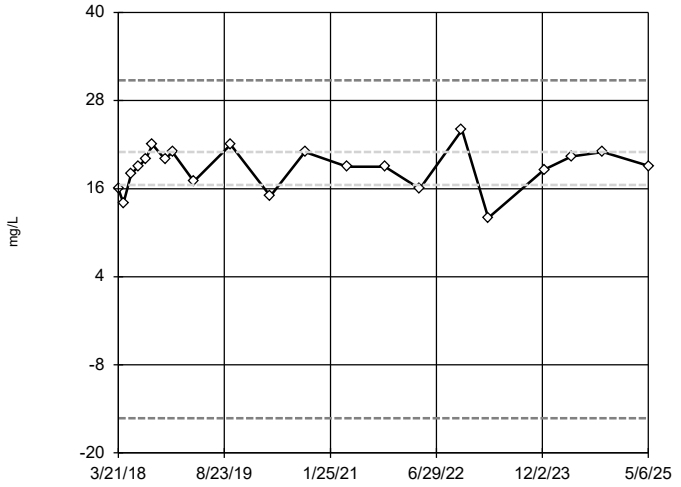
High cutoff = 2040, low cutoff = 80, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-2 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

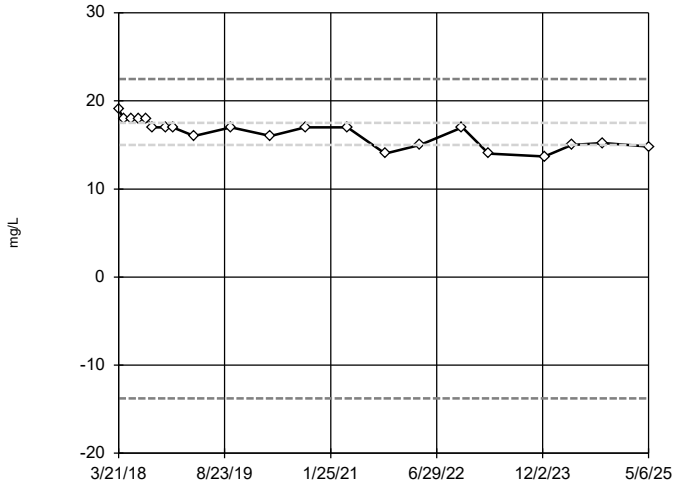
High cutoff = 30.77, low cutoff = -15.26, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

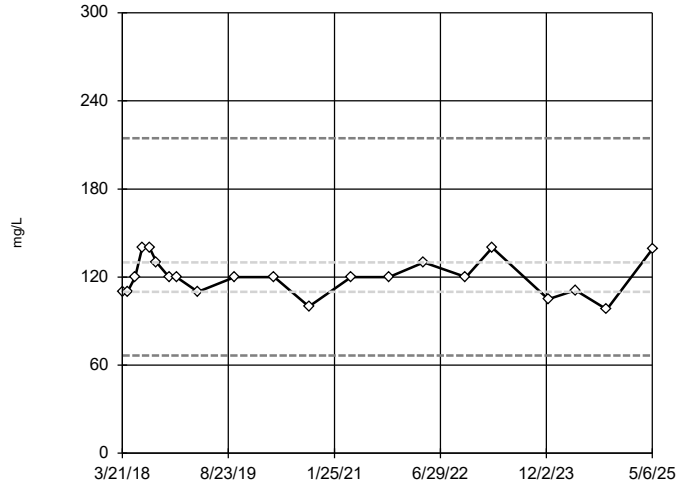
High cutoff = 22.48, low cutoff = -13.78, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

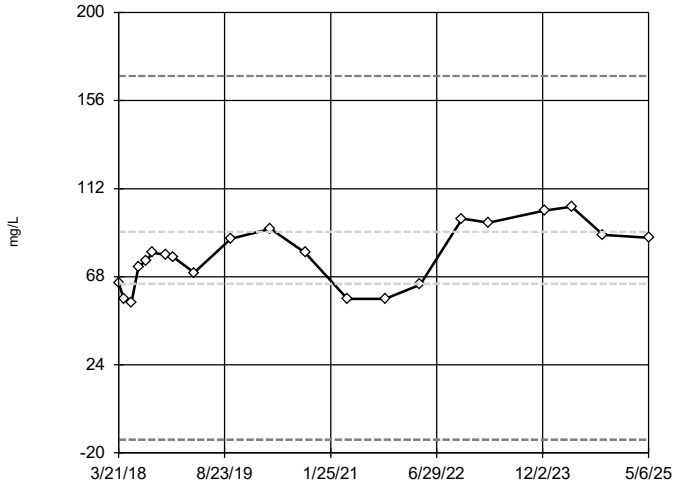
High cutoff = 214.6, low cutoff = 66.64, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Calcium

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

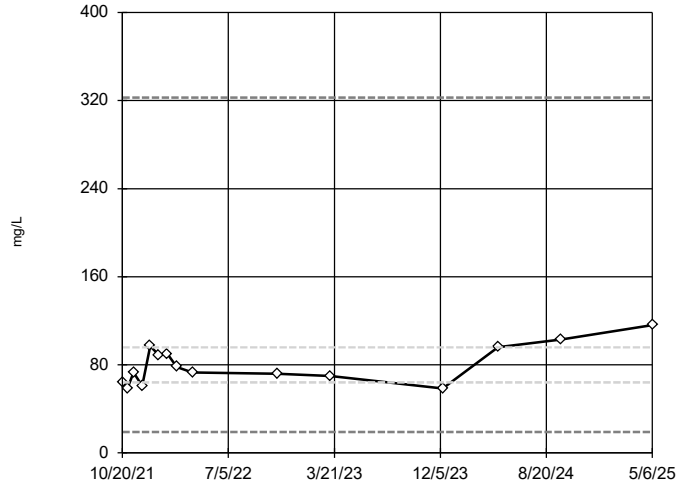
High cutoff = 168.3, low cutoff = -13.35, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Calcium

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

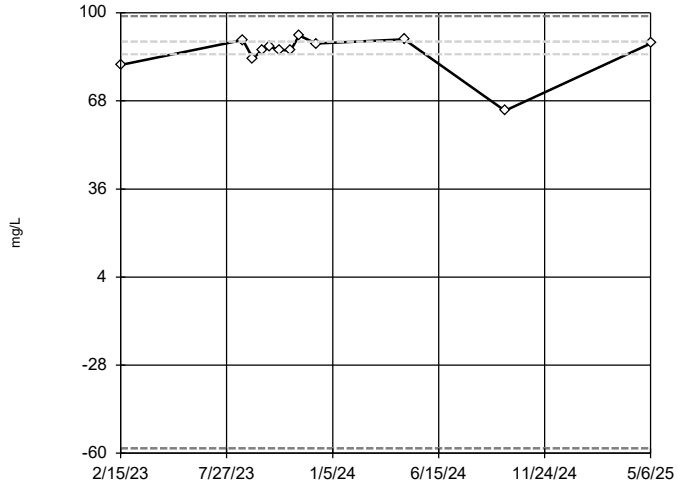
High cutoff = 322.7, low cutoff = 19.02, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Calcium

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

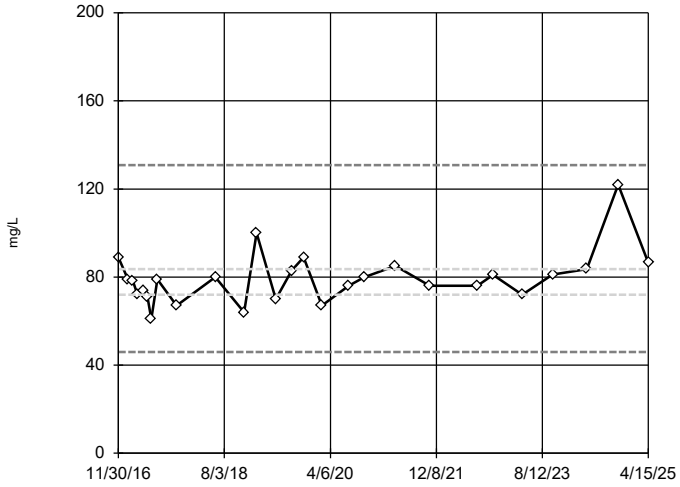
High cutoff = 98.78, low cutoff = -58.2, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Calcium

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

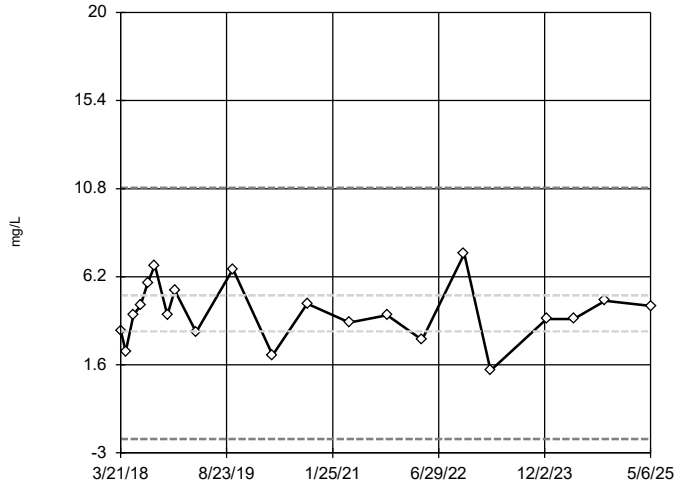
High cutoff = 130.9, low cutoff = 46, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Chloride

MW-2 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

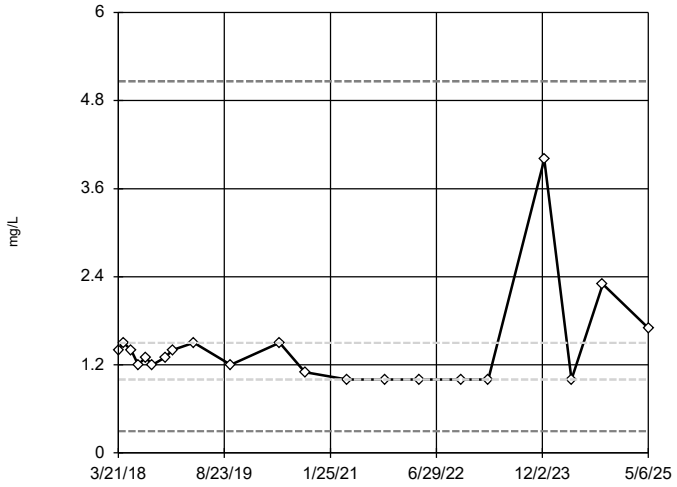
High cutoff = 10.85, low cutoff = -2.275, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Chloride

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

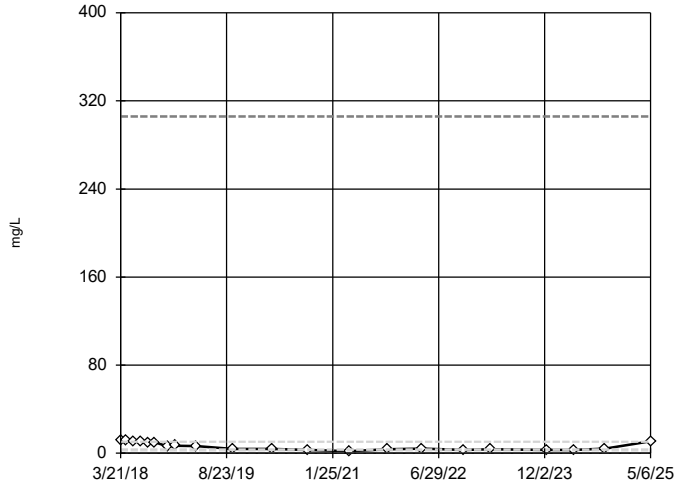
High cutoff = 5.063, low cutoff = 0.2963, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Chloride

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

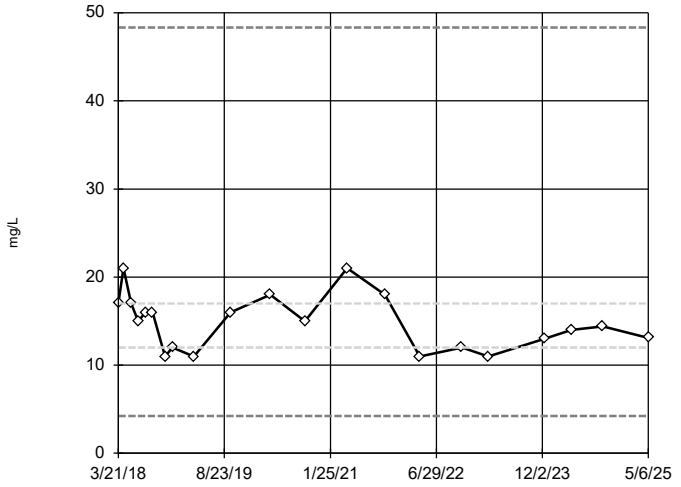
High cutoff = 305.8, low cutoff = 0.1156, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG

Chloride

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

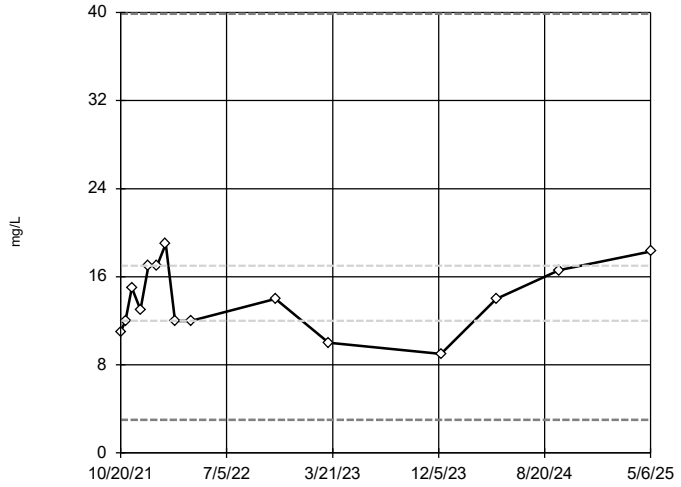
High cutoff = 48.33, low cutoff = 4.221, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

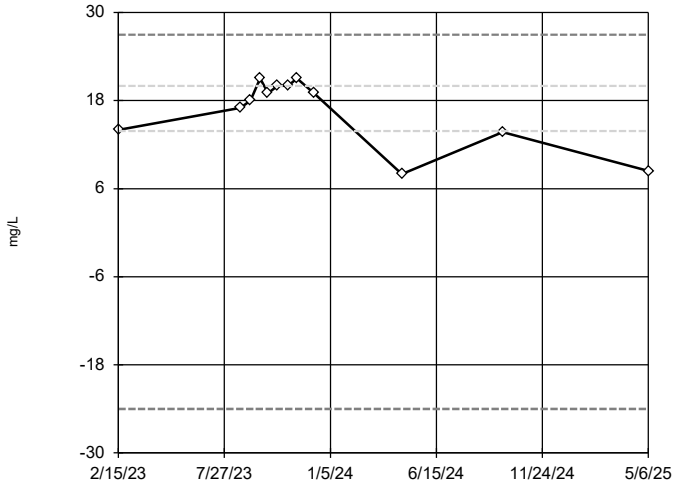
High cutoff = 39.89, low cutoff = 3.01, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

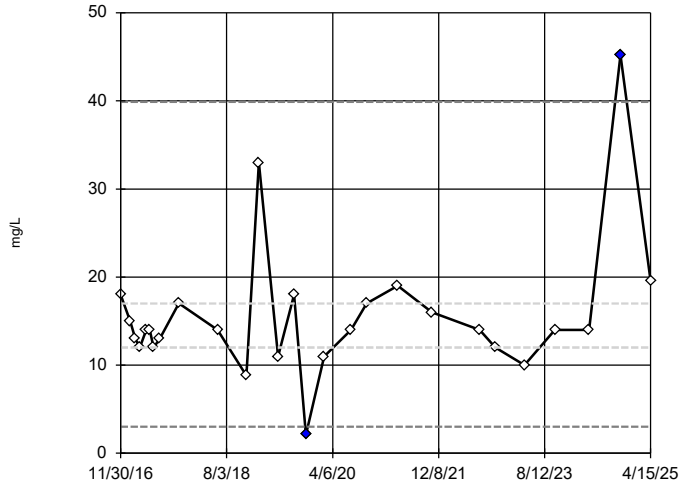
High cutoff = 26.98, low cutoff = -24.02, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-4



n = 27

Outliers are drawn as solid.
Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

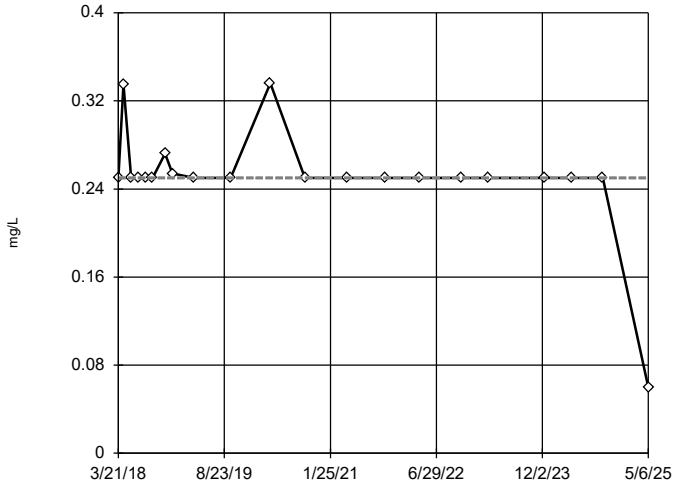
High cutoff = 39.89, low cutoff = 3.01, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-2 (bg)



n = 21

No outliers found.
Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

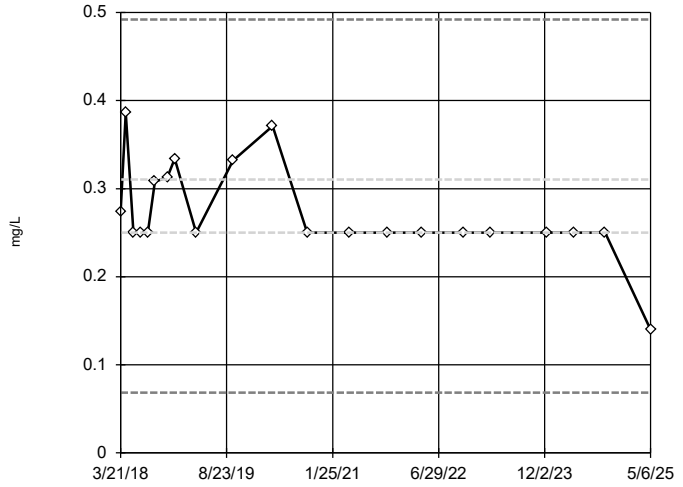
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-3 (bg)



n = 21

No outliers found.
Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

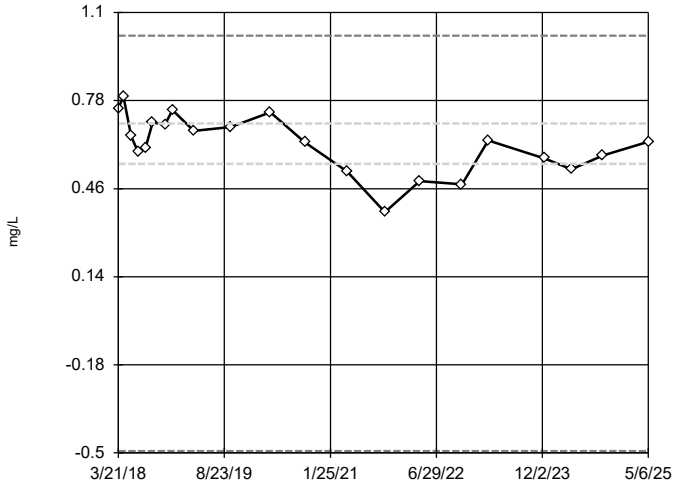
High cutoff = 0.492, low cutoff = 0.0685, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
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Fluoride

MW-7



n = 21

No outliers found.
Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

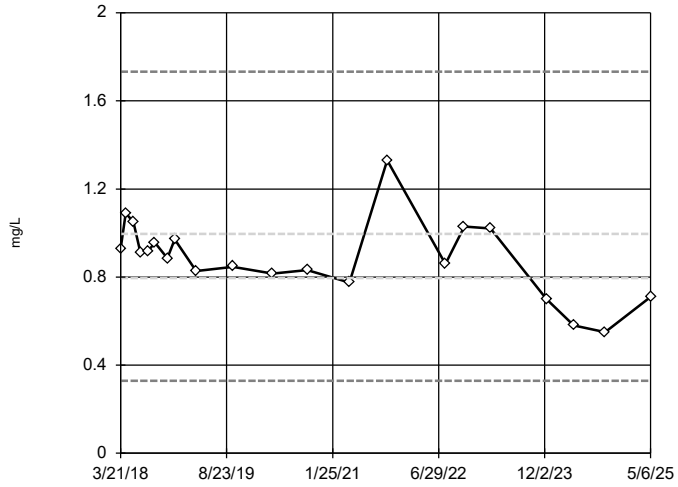
High cutoff = 1.016, low cutoff = -0.4937, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
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Fluoride

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

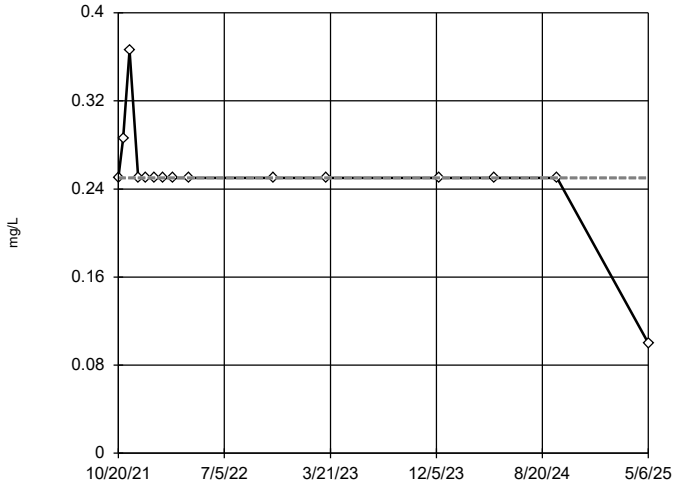
High cutoff = 1.732, low cutoff = 0.329, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

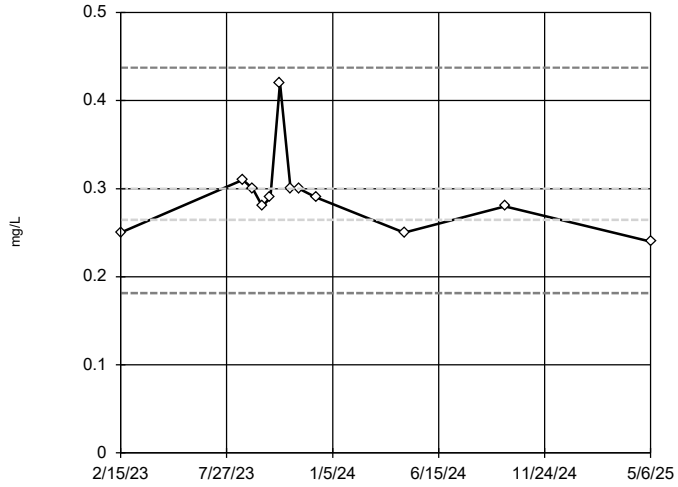
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

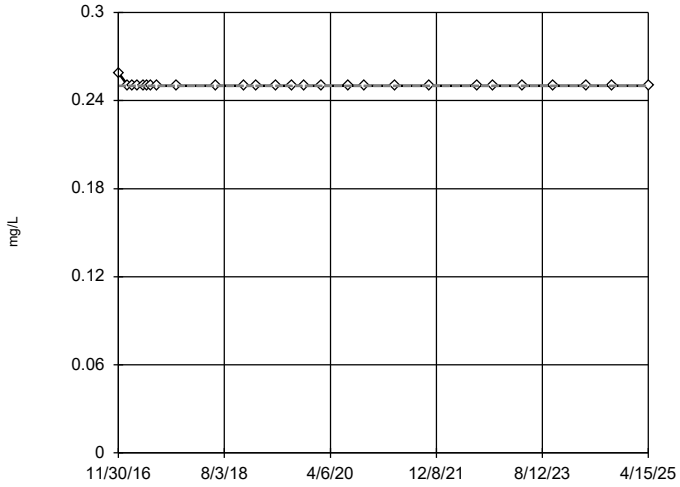
High cutoff = 0.4374, low cutoff = 0.1815, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

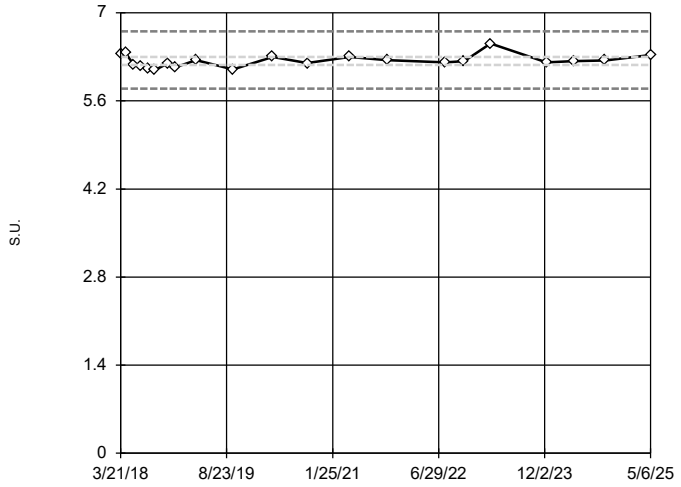
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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pH

MW-2 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.707, low cutoff = 5.796, based on IQR multiplier of 3.

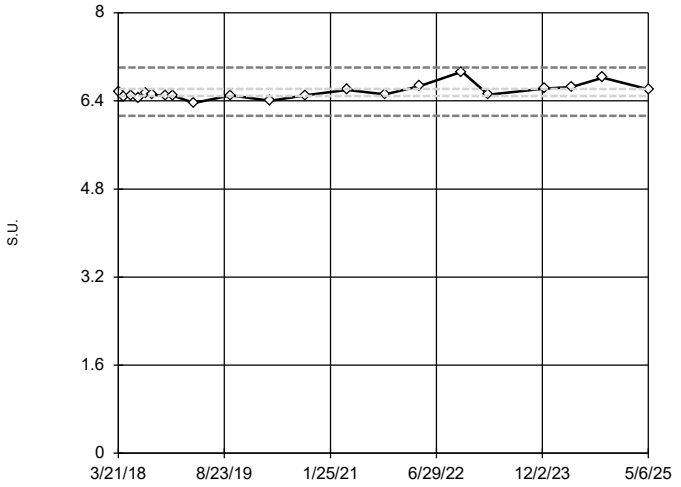
Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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pH

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 7.005, low cutoff = 6.129, based on IQR multiplier of 3.

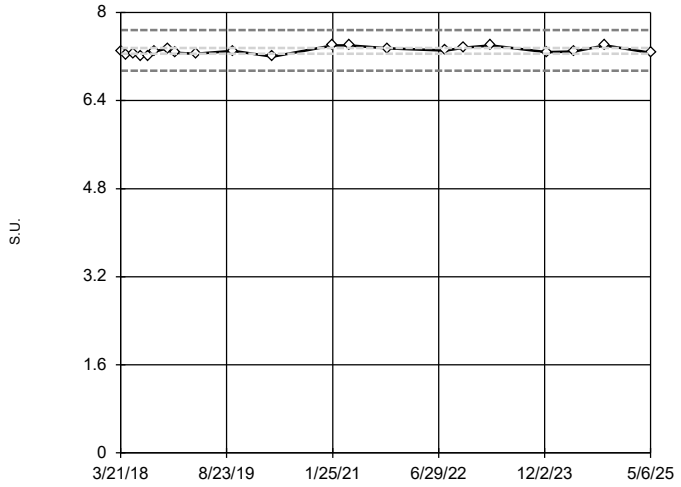
Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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pH

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 7.679, low cutoff = 6.944, based on IQR multiplier of 3.

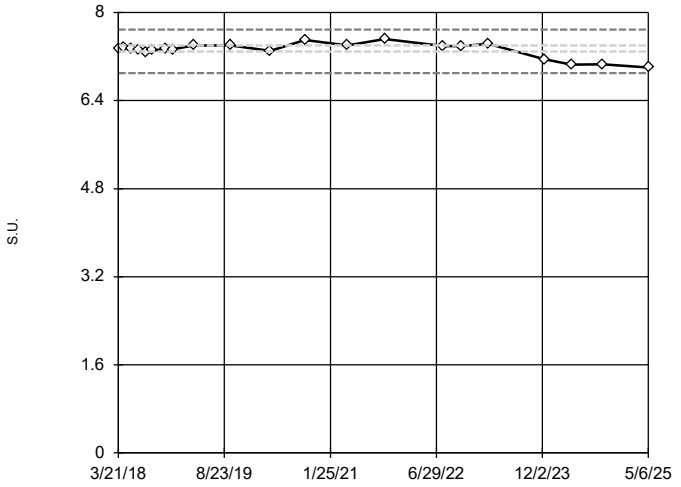
Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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pH

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 7.688, low cutoff = 6.898, based on IQR multiplier of 3.

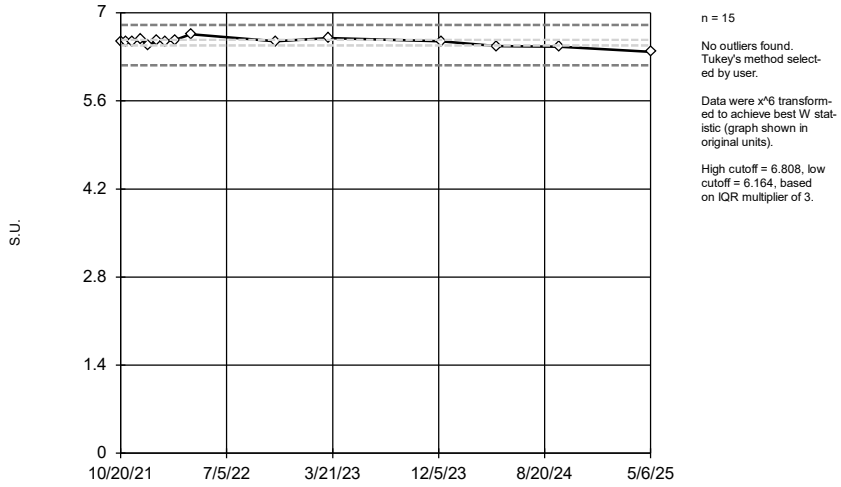
Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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pH

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

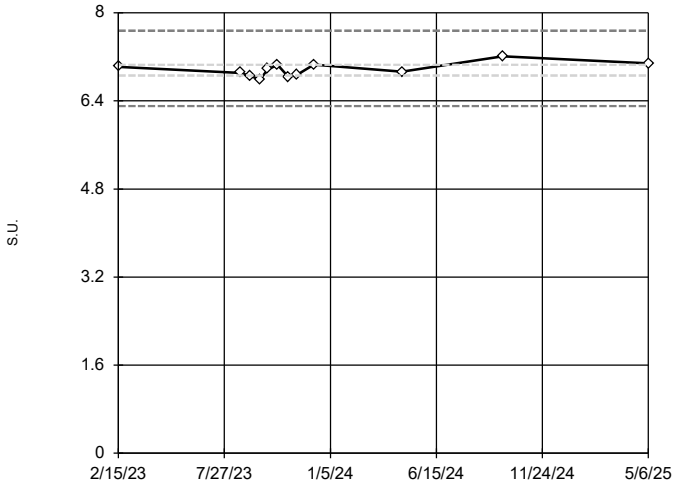
High cutoff = 6.808, low cutoff = 6.164, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
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pH

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

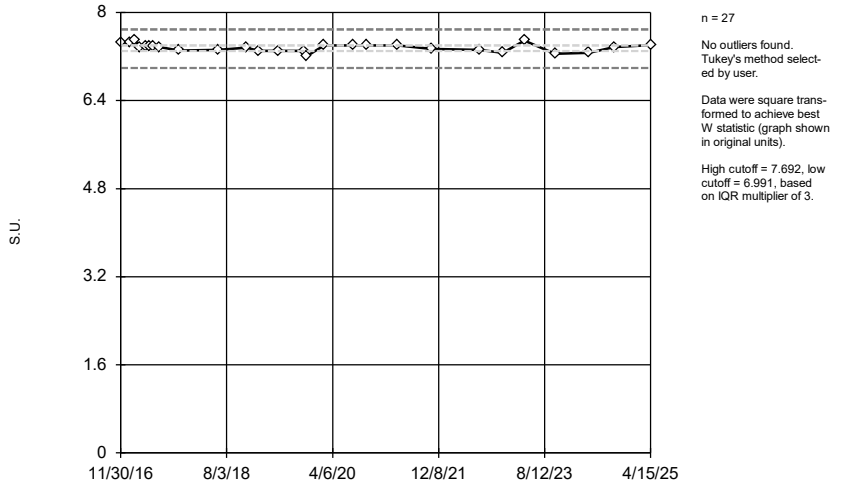
High cutoff = 7.674, low cutoff = 6.307, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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pH

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

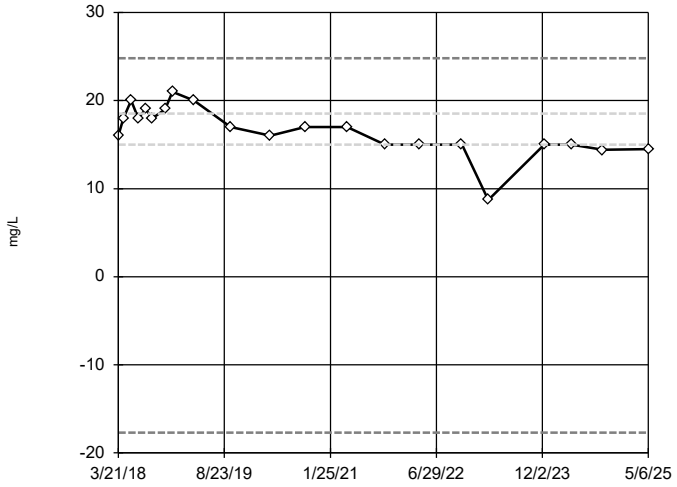
High cutoff = 7.692, low cutoff = 6.991, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-2 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

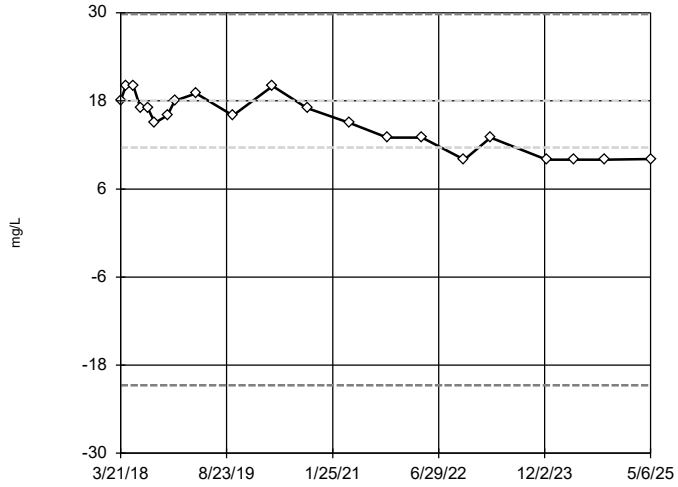
High cutoff = 24.8, low cutoff = -17.69, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

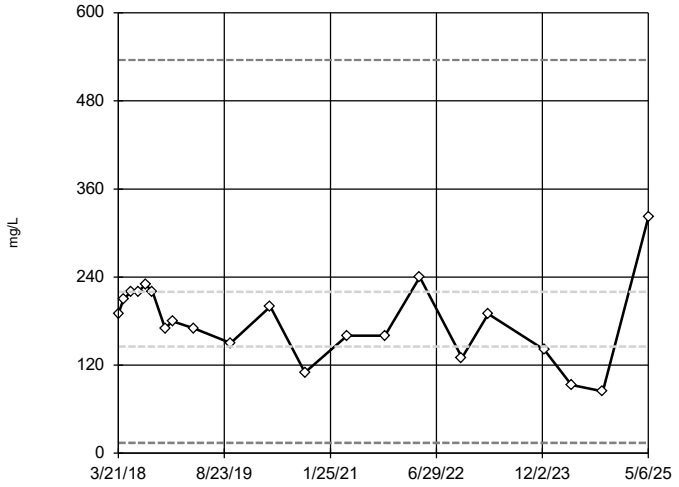
High cutoff = 29.82, low cutoff = -20.74, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

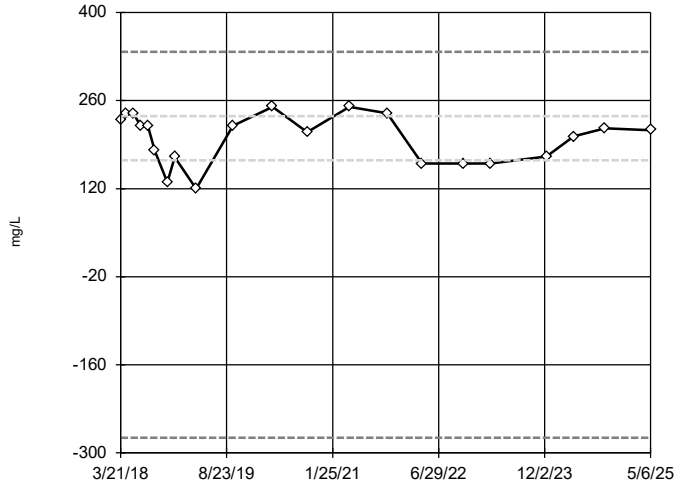
High cutoff = 535.8, low cutoff = 14.04, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

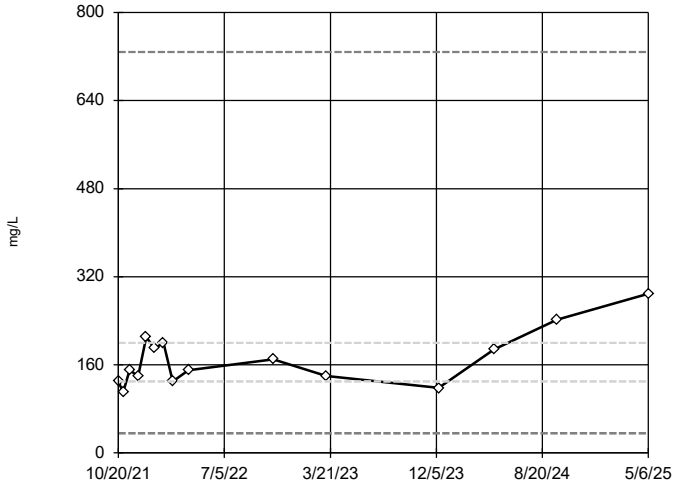
High cutoff = 337.6, low cutoff = -275.8, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

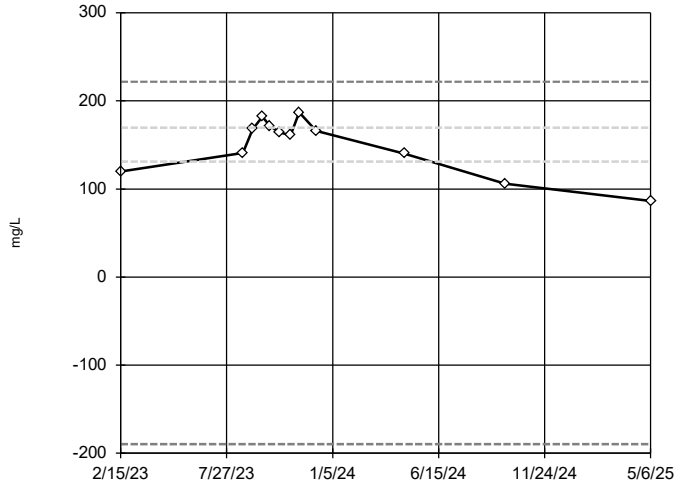
High cutoff = 728.3, low cutoff = 35.7, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

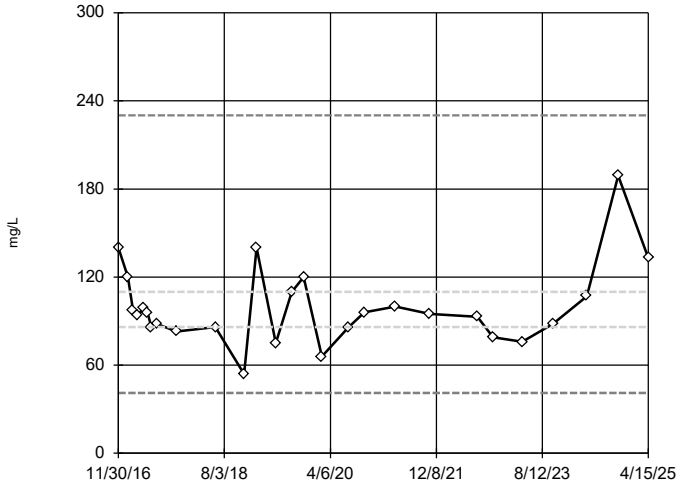
High cutoff = 221.7, low cutoff = -189.7, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

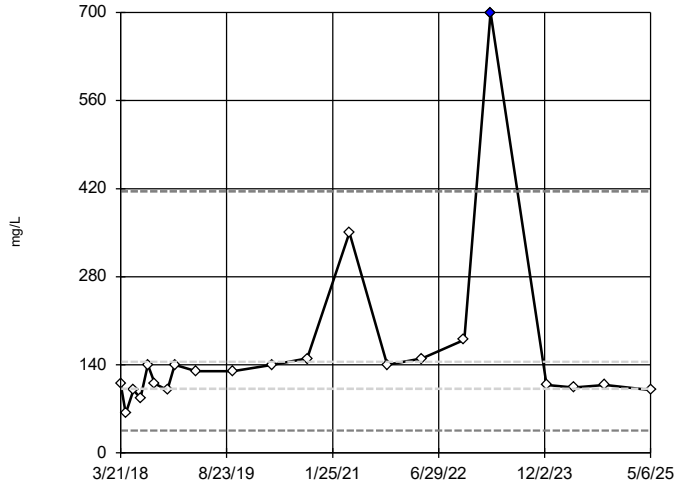
High cutoff = 230.2, low cutoff = 41.1, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-2 (bg)



n = 21

Outlier is drawn as solid. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

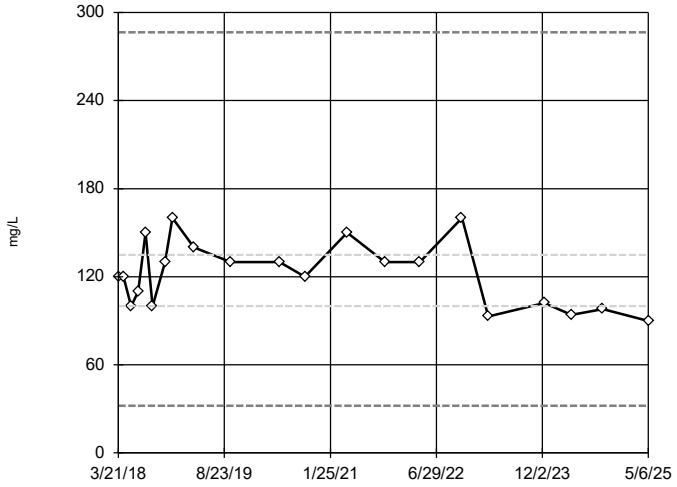
High cutoff = 415.8, low cutoff = 35.54, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

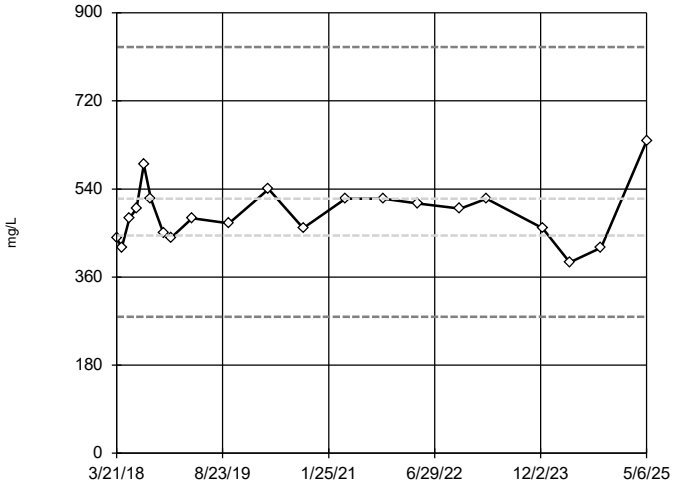
High cutoff = 286.4, low cutoff = 32.12, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

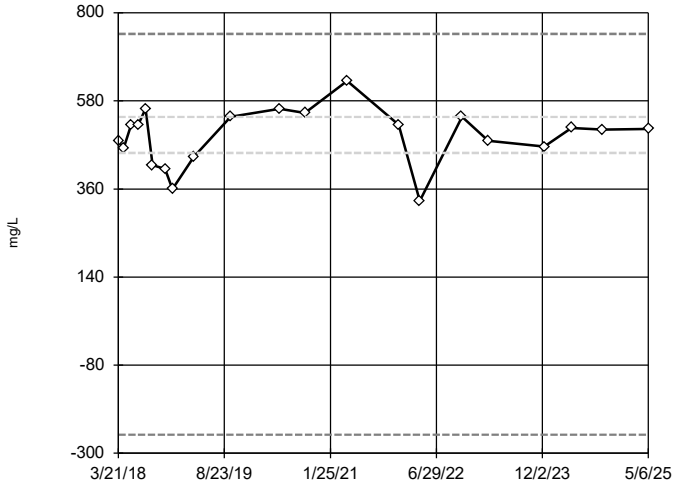
High cutoff = 829.9, low cutoff = 278.8, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

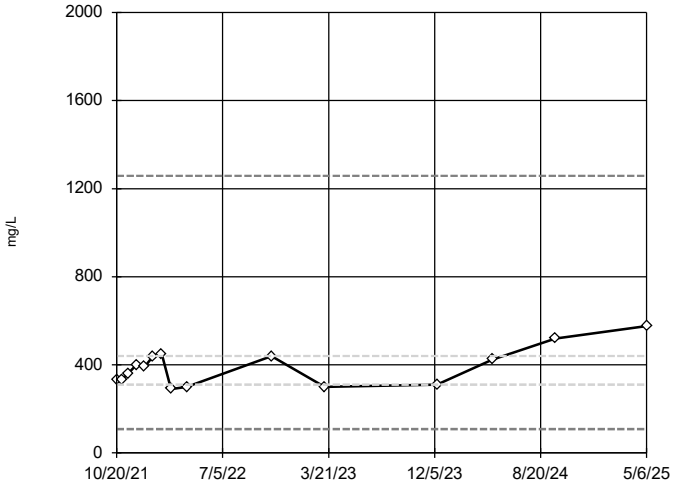
High cutoff = 747.4, low cutoff = -253.8, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

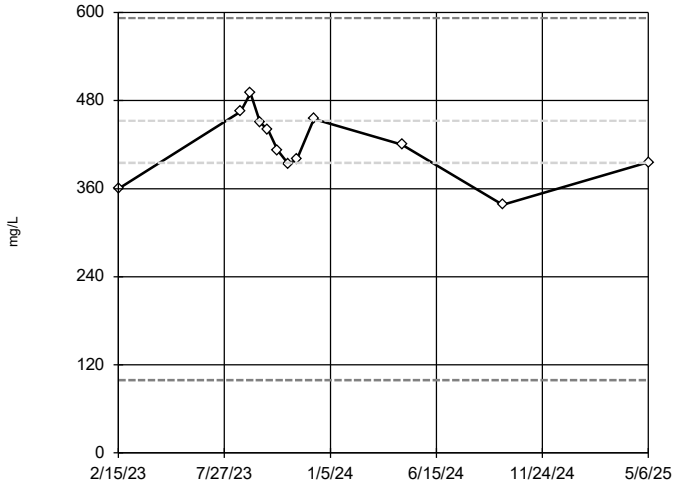
High cutoff = 1258, low cutoff = 108.4, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:25 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

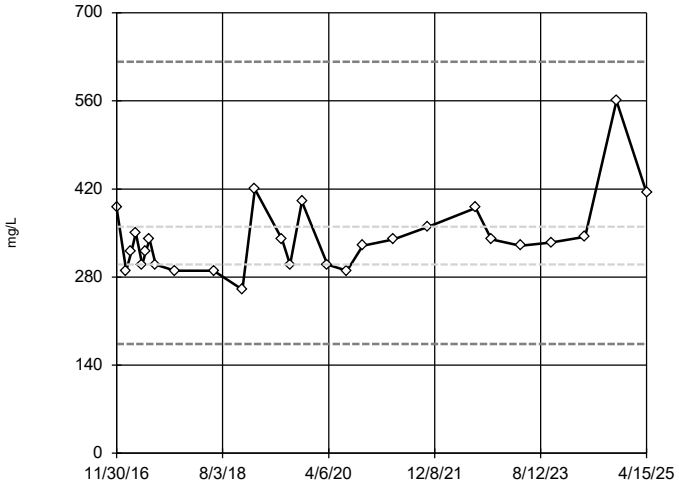
High cutoff = 592.4, low cutoff = 99.08, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:26 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 622.1, low cutoff = 173.6, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:26 AM View: FAP Detection Bkg Update 8.1.2025

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Outlier Analysis

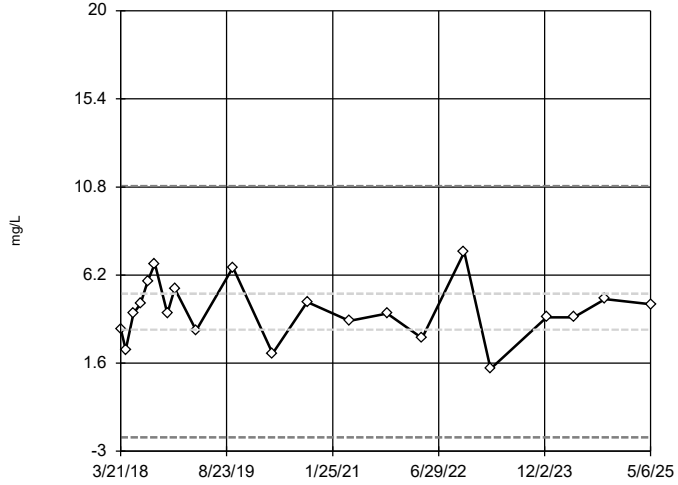
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 9/9/2025, 9:32 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Chloride (mg/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	21	4.335	1.552	normal	ShapiroWilk
Chloride (mg/L)	MW-4	No	n/a	n/a	NP	NaN	25	14.94	4.679	ln(x)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	20	132	57.81	ln(x)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-4	No	n/a	n/a	NP	NaN	27	342.3	59.83	ln(x)	ShapiroWilk

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Chloride

MW-2 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

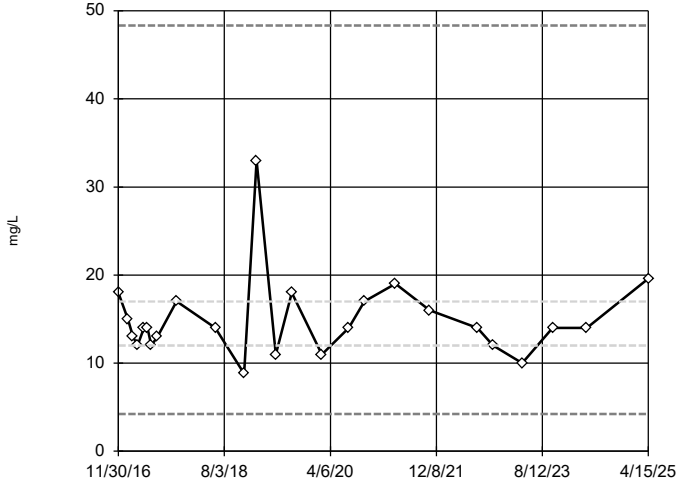
High cutoff = 10.85, low cutoff = -2.275, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:32 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-4



n = 25

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

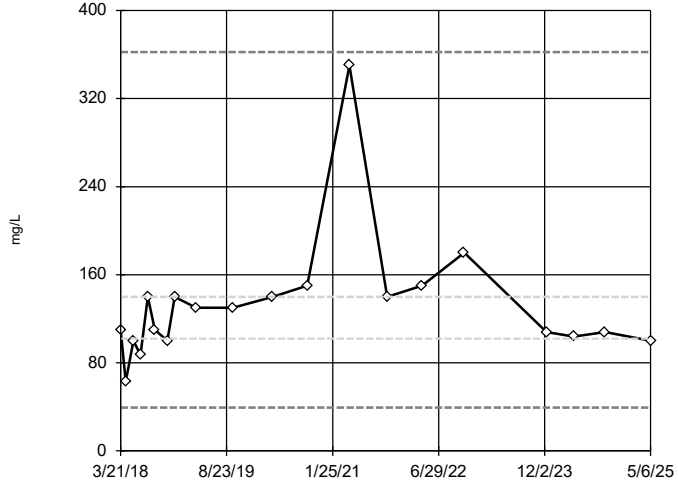
High cutoff = 48.33, low cutoff = 4.221, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:32 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-2 (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

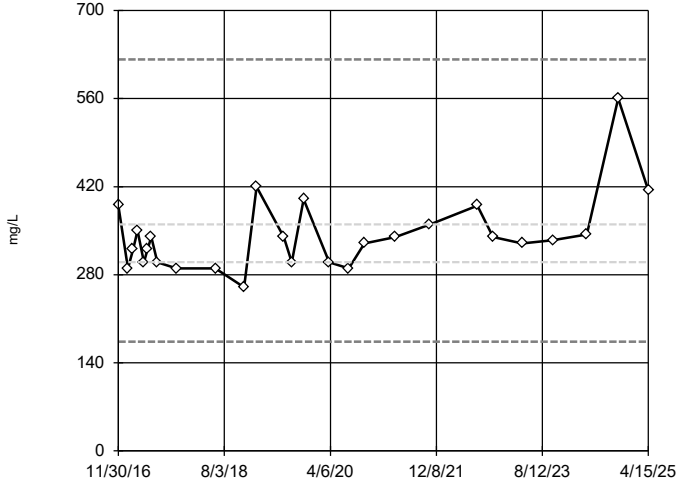
High cutoff = 362.2, low cutoff = 39.42, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:32 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 622.1, low cutoff = 173.6, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:32 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Outlier Analysis

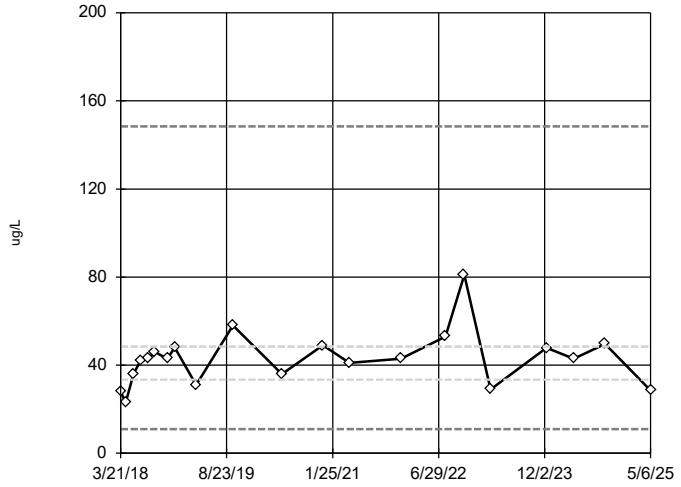
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 9/9/2025, 9:43 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Boron (ug/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	21	42.8	12.61	ln(x)	ShapiroWilk
Boron (ug/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	22.54	6.454	x^2	ShapiroWilk
Boron (ug/L)	MW-7	No	n/a	n/a	NP	NaN	21	2174	492.7	ln(x)	ShapiroWilk
Boron (ug/L)	MW-9	No	n/a	n/a	NP	NaN	21	4350	918	sqrt(x)	ShapiroWilk
Boron (ug/L)	MW-1R	No	n/a	n/a	NP	NaN	15	2949	738.3	ln(x)	ShapiroWilk
Boron (ug/L)	MW-10	No	n/a	n/a	NP	NaN	12	288.4	61.29	ln(x)	ShapiroWilk
Boron (ug/L)	MW-4	No	n/a	n/a	NP	NaN	27	1051	235.9	normal	ShapiroWilk
Calcium (mg/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	21	18.77	2.924	x^2	ShapiroWilk
Calcium (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	16.37	1.526	x^3	ShapiroWilk
Calcium (mg/L)	MW-7	No	n/a	n/a	NP	NaN	21	120.1	12.75	ln(x)	ShapiroWilk
Calcium (mg/L)	MW-9	No	n/a	n/a	NP	NaN	18	81.41	13.85	x^2	ShapiroWilk
Calcium (mg/L)	MW-1R	No	n/a	n/a	NP	NaN	15	79.9	17.67	ln(x)	ShapiroWilk
Calcium (mg/L)	MW-10	No	n/a	n/a	NP	NaN	12	85.47	7.276	x^6	ShapiroWilk
Calcium (mg/L)	MW-4	No	n/a	n/a	NP	NaN	27	79.34	12.03	ln(x)	ShapiroWilk
Chloride (mg/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	21	4.335	1.552	normal	ShapiroWilk
Chloride (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	1.429	0.6657	ln(x)	ShapiroWilk
Chloride (mg/L)	MW-7	No	n/a	n/a	NP	NaN	21	6.343	3.528	ln(x)	ShapiroWilk
Chloride (mg/L)	MW-9	No	n/a	n/a	NP	NaN	21	14.88	3.096	ln(x)	ShapiroWilk
Chloride (mg/L)	MW-1R	No	n/a	n/a	NP	NaN	15	13.99	3.073	x^(1/3)	ShapiroWilk
Chloride (mg/L)	MW-10	No	n/a	n/a	NP	NaN	12	16.59	4.589	x^4	ShapiroWilk
Chloride (mg/L)	MW-4	No	n/a	n/a	NP	NaN	25	14.94	4.679	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-2 (bg)	n/a	n/a	n/a	NP	NaN	21	0.2503	0.05061	unknown	ShapiroWilk
Fluoride (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	0.2718	0.05336	normal	ShapiroWilk
Fluoride (mg/L)	MW-7	No	n/a	n/a	NP	NaN	21	0.6219	0.1043	x^2	ShapiroWilk
Fluoride (mg/L)	MW-9	No	n/a	n/a	NP	NaN	21	0.885	0.1758	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	MW-1R	n/a	n/a	n/a	NP	NaN	15	0.2501	0.05158	unknown	ShapiroWilk
Fluoride (mg/L)	MW-10	No	n/a	n/a	NP	NaN	12	0.2925	0.04615	ln(x)	ShapiroWilk
Fluoride (mg/L)	MW-4	n/a	n/a	n/a	NP	NaN	27	0.2503	0.001732	unknown	ShapiroWilk
pH (S.U.)	MW-2 (bg)	No	n/a	n/a	NP	NaN	21	6.235	0.1004	ln(x)	ShapiroWilk
pH (S.U.)	MW-3 (bg)	No	n/a	n/a	NP	NaN	12	6.611	0.1472	ln(x)	ShapiroWilk
pH (S.U.)	MW-7	No	n/a	n/a	NP	NaN	21	7.302	0.06418	ln(x)	ShapiroWilk
pH (S.U.)	MW-9	No	n/a	n/a	NP	NaN	21	7.316	0.1399	x^6	ShapiroWilk
pH (S.U.)	MW-1R	No	n/a	n/a	NP	NaN	15	6.537	0.0664	x^6	ShapiroWilk
pH (S.U.)	MW-10	No	n/a	n/a	NP	NaN	12	6.966	0.1227	ln(x)	ShapiroWilk
pH (S.U.)	MW-4	No	n/a	n/a	NP	NaN	27	7.359	0.07154	x^2	ShapiroWilk
Sulfate (mg/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	21	16.6	2.698	x^3	ShapiroWilk
Sulfate (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	15.1	3.597	x^2	ShapiroWilk
Sulfate (mg/L)	MW-7	No	n/a	n/a	NP	NaN	21	180.4	54.69	sqrt(x)	ShapiroWilk
Sulfate (mg/L)	MW-9	No	n/a	n/a	NP	NaN	21	200.1	39.16	x^3	ShapiroWilk
Sulfate (mg/L)	MW-1R	No	n/a	n/a	NP	NaN	15	170.5	49.76	ln(x)	ShapiroWilk
Sulfate (mg/L)	MW-10	No	n/a	n/a	NP	NaN	12	149.4	31.34	x^4	ShapiroWilk
Sulfate (mg/L)	MW-4	No	n/a	n/a	NP	NaN	27	99.85	27.31	ln(x)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-2 (bg)	No	n/a	n/a	NP	NaN	20	132	57.81	ln(x)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-3 (bg)	No	n/a	n/a	NP	NaN	21	121.8	22.19	x^(1/3)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-7	No	n/a	n/a	NP	NaN	21	489	58.04	ln(x)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-9	No	n/a	n/a	NP	NaN	21	491.2	70.66	x^2	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-1R	No	n/a	n/a	NP	NaN	15	390.7	85.38	ln(x)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-10	No	n/a	n/a	NP	NaN	12	418.3	44.17	x^2	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-4	No	n/a	n/a	NP	NaN	27	342.3	59.83	ln(x)	ShapiroWilk

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Boron

MW-2 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

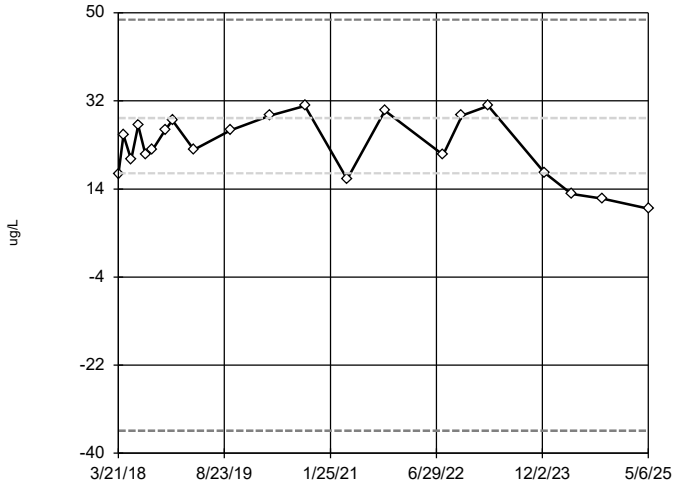
High cutoff = 148.4, low cutoff = 10.92, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:41 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Boron

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

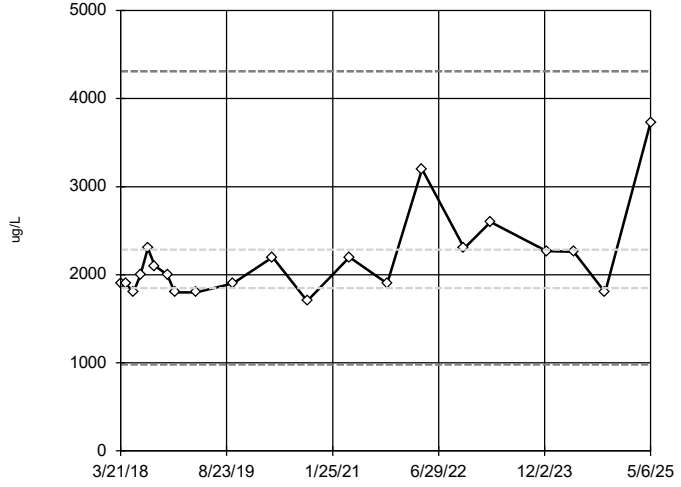
High cutoff = 48.6, low cutoff = -35.41, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:41 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Boron

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

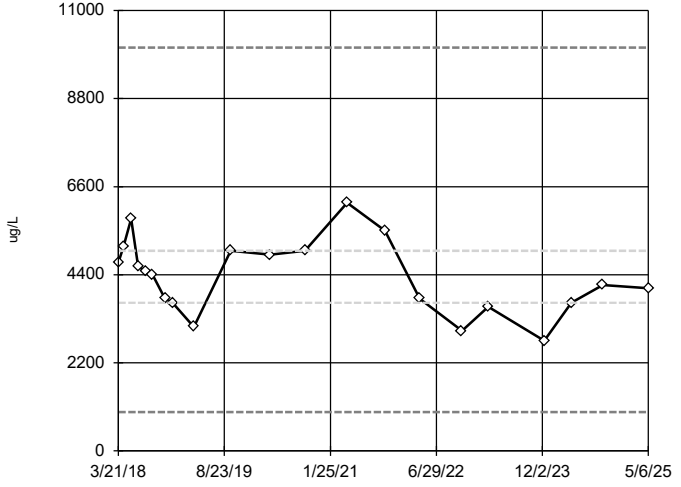
High cutoff = 4310, low cutoff = 980.4, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:41 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Boron

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

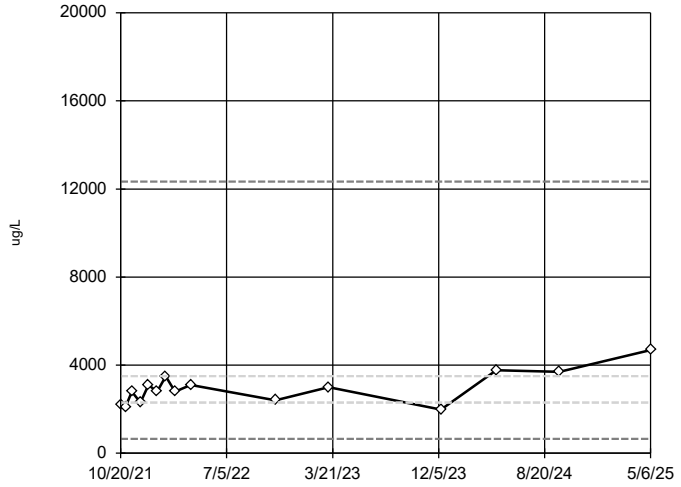
High cutoff = 10072, low cutoff = 972.1, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:41 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Boron

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

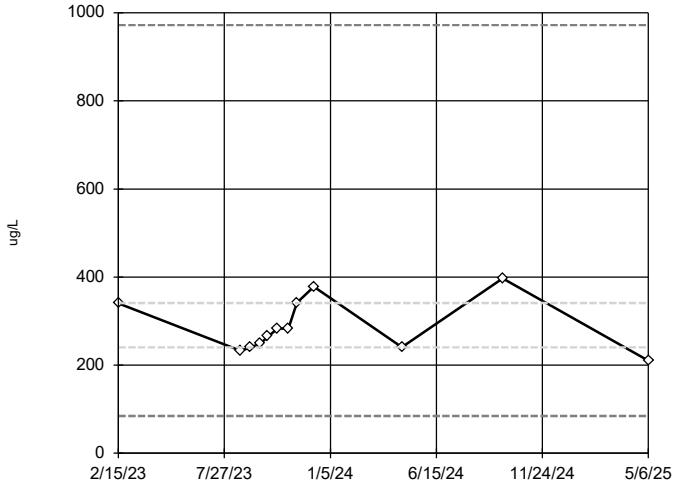
High cutoff = 12334, low cutoff = 652.7, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:41 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Boron

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

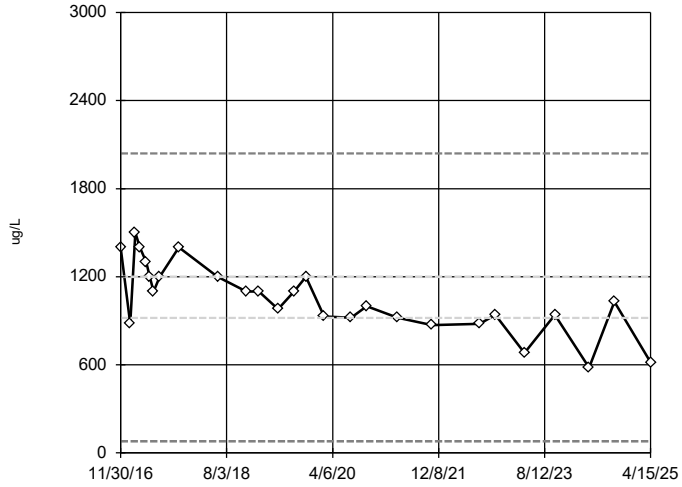
High cutoff = 972, low cutoff = 84.37, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Boron

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

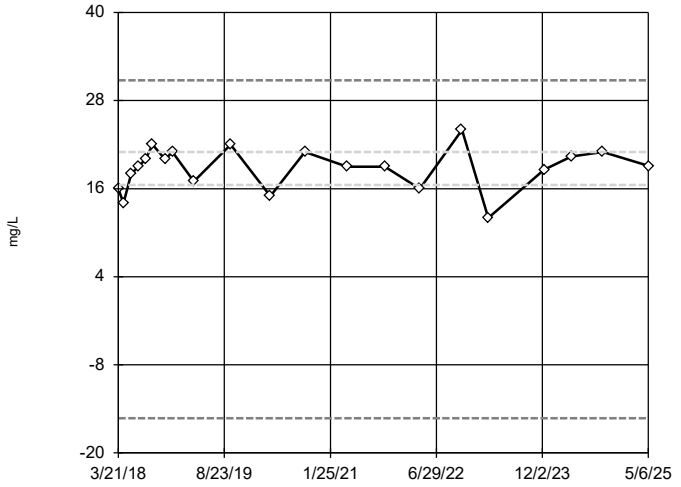
High cutoff = 2040, low cutoff = 80, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-2 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

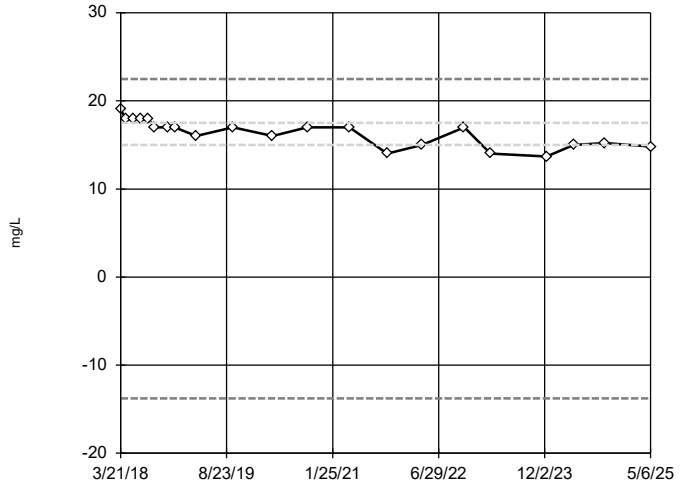
High cutoff = 30.77, low cutoff = -15.26, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

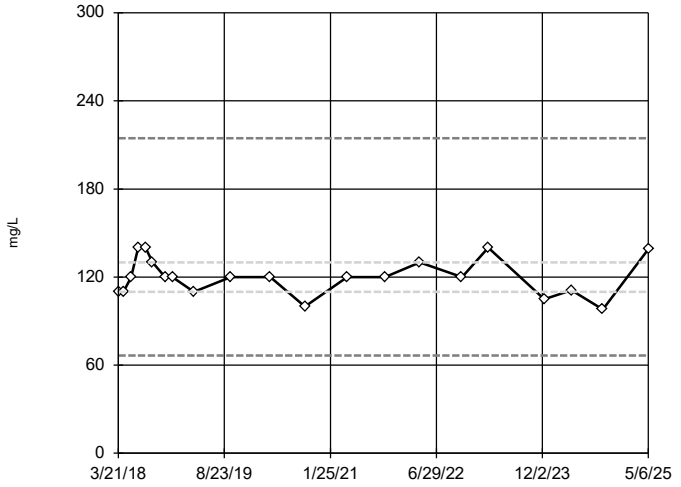
High cutoff = 22.48, low cutoff = -13.78, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

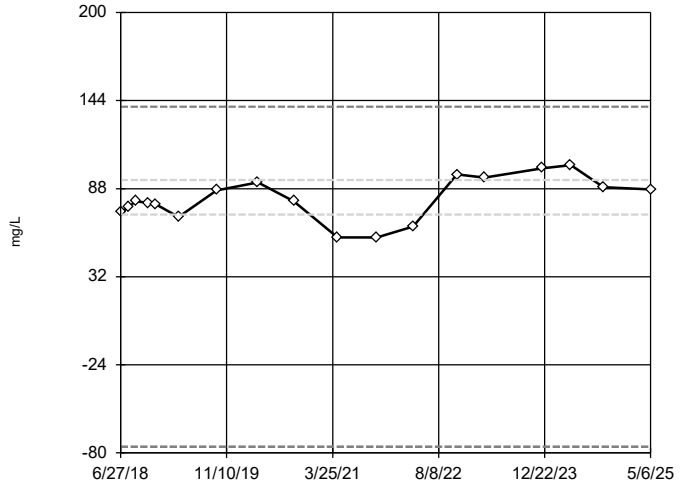
High cutoff = 214.6, low cutoff = 66.64, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-9



n = 18

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

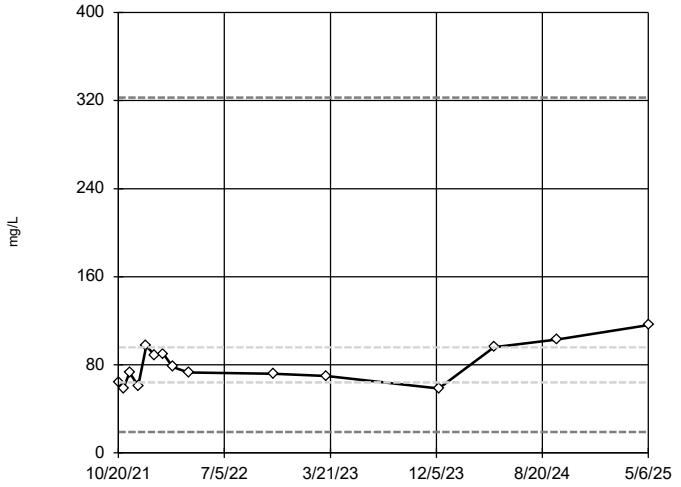
High cutoff = 140.1, low cutoff = -76, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

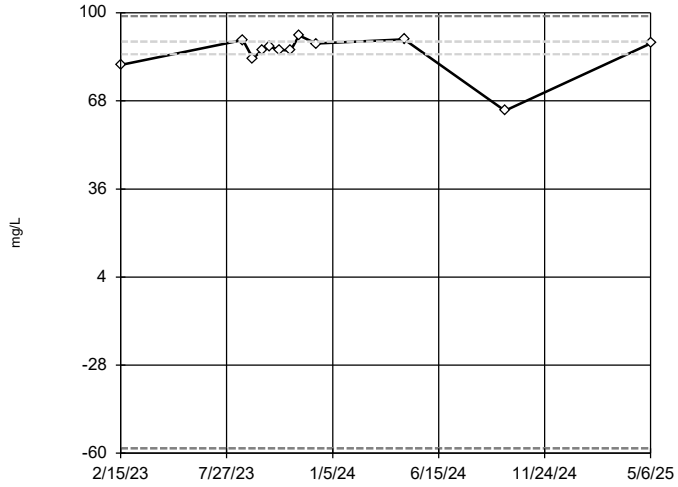
High cutoff = 322.7, low cutoff = 19.02, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

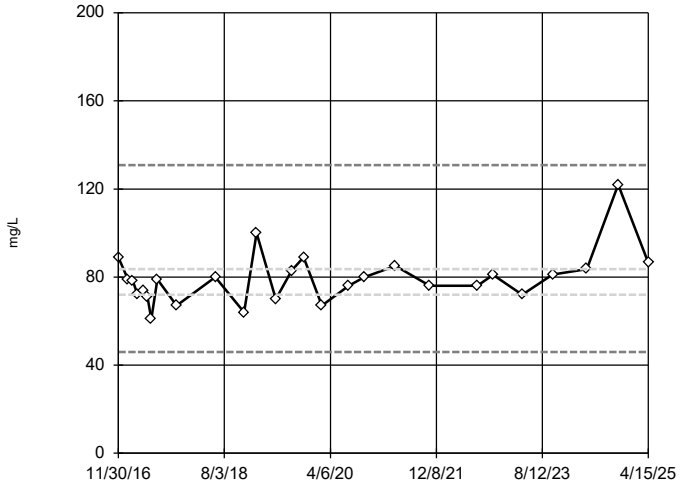
High cutoff = 98.78, low cutoff = -58.2, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

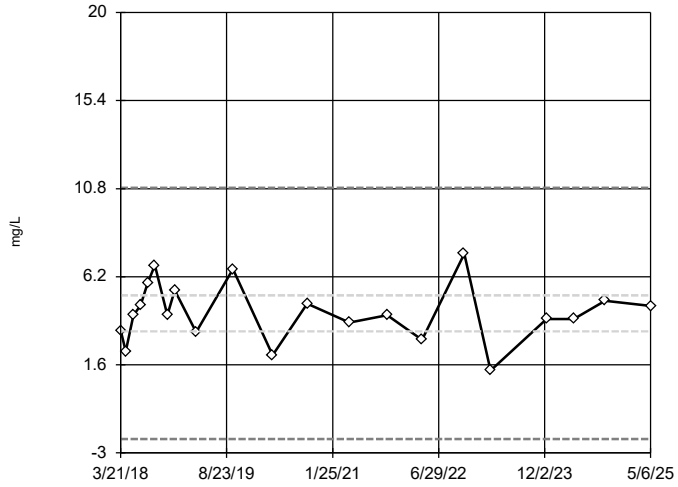
High cutoff = 130.9, low cutoff = 46, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-2 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

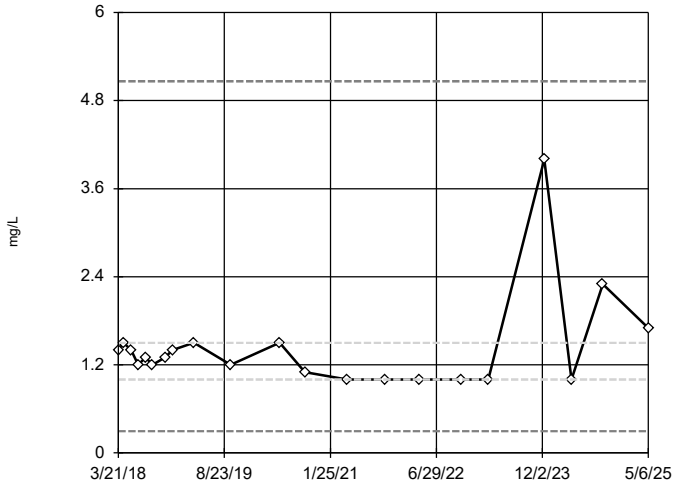
High cutoff = 10.85, low cutoff = -2.275, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

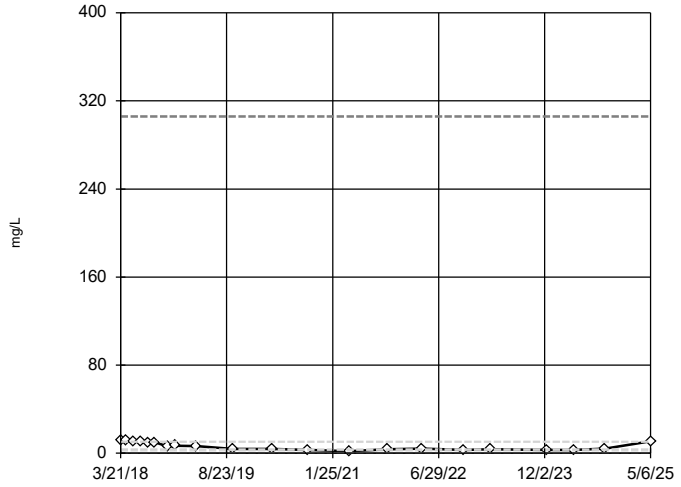
High cutoff = 5.063, low cutoff = 0.2963, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

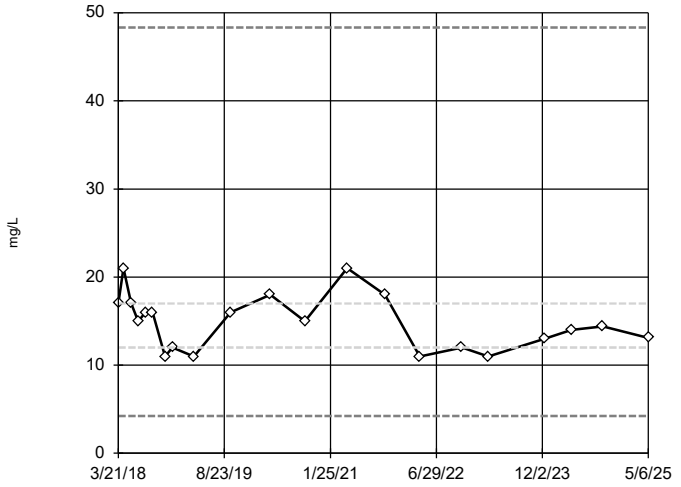
High cutoff = 305.8, low cutoff = 0.1156, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

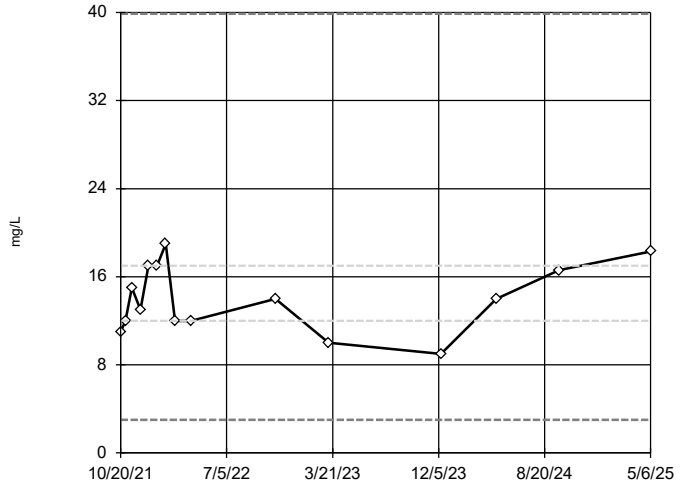
High cutoff = 48.33, low cutoff = 4.221, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

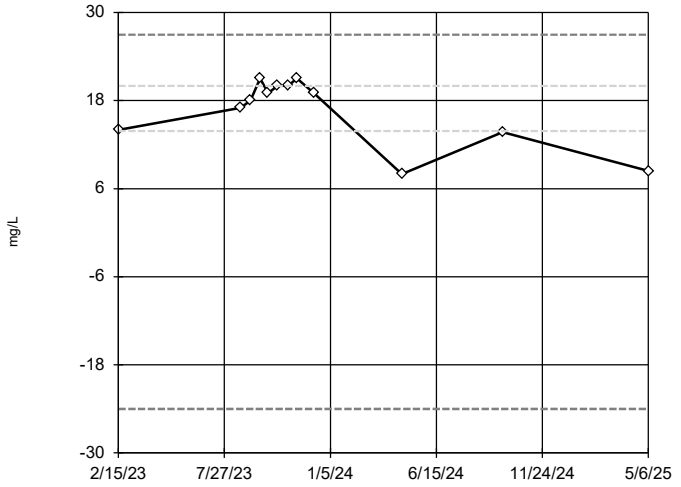
High cutoff = 39.89, low cutoff = 3.01, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

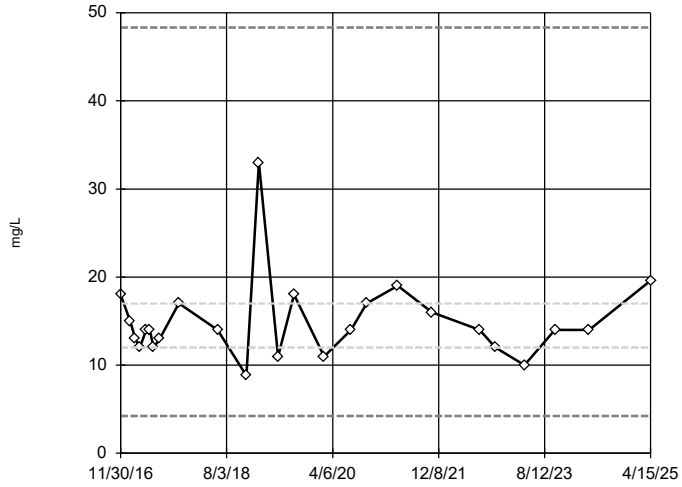
High cutoff = 26.98, low cutoff = -24.02, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-4



n = 25

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

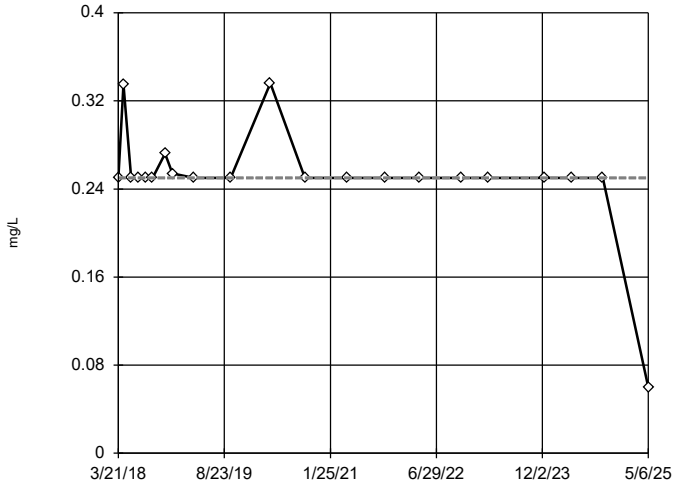
High cutoff = 48.33, low cutoff = 4.221, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-2 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

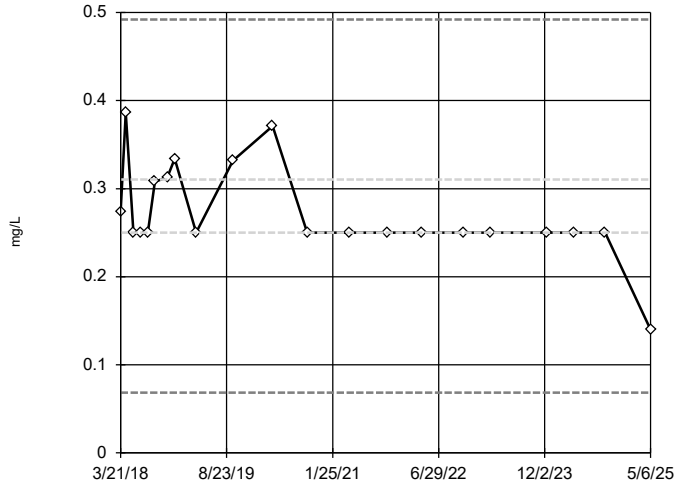
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

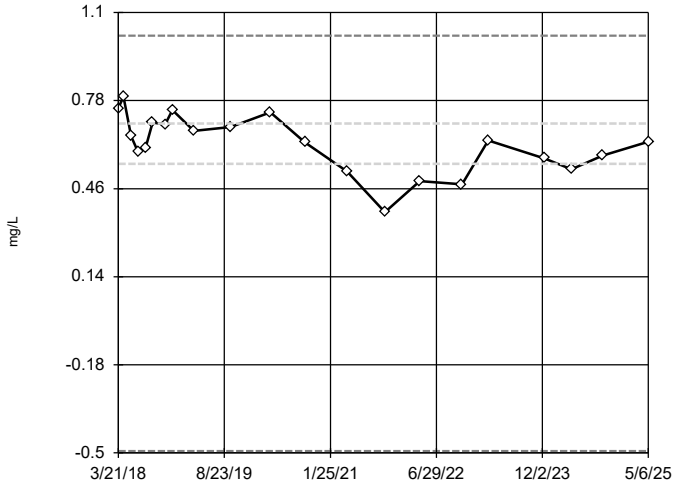
High cutoff = 0.492, low cutoff = 0.0685, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

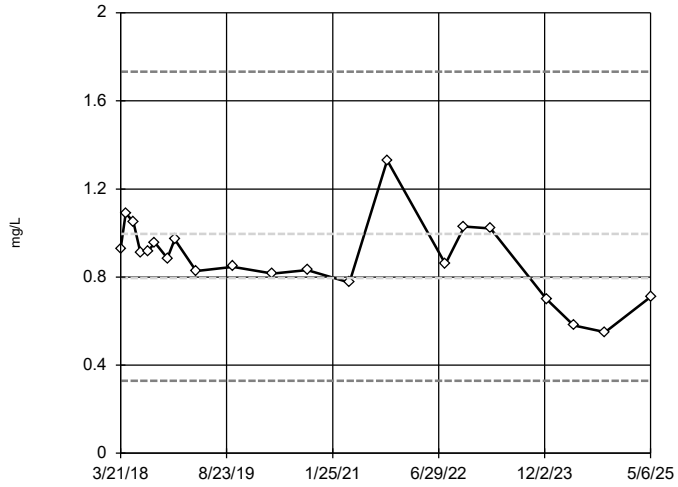
High cutoff = 1.016, low cutoff = -0.4937, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

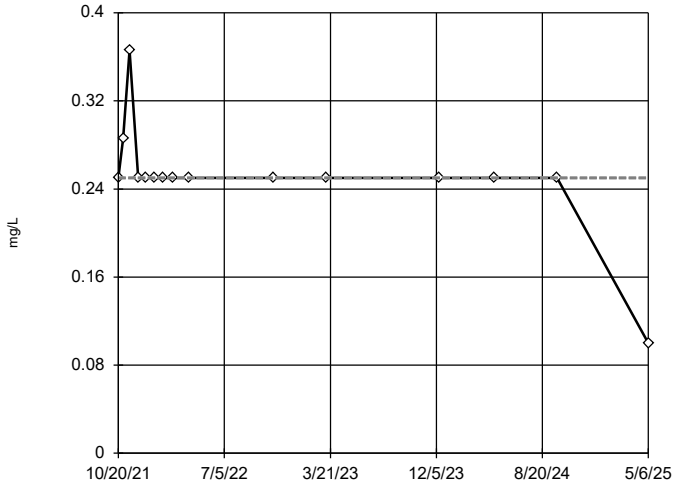
High cutoff = 1.732, low cutoff = 0.329, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

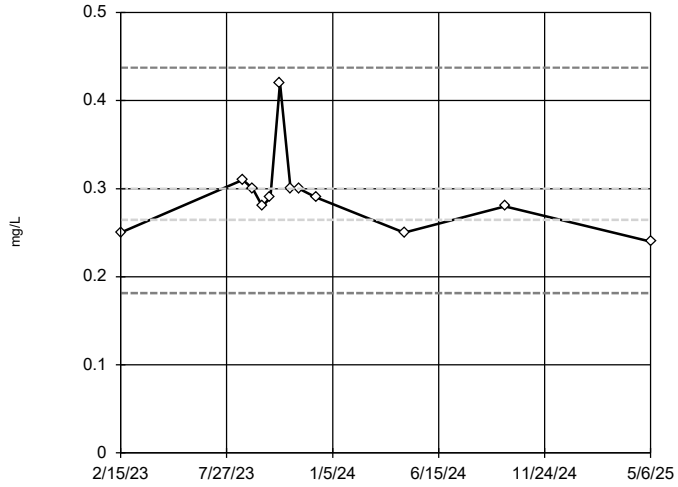
The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

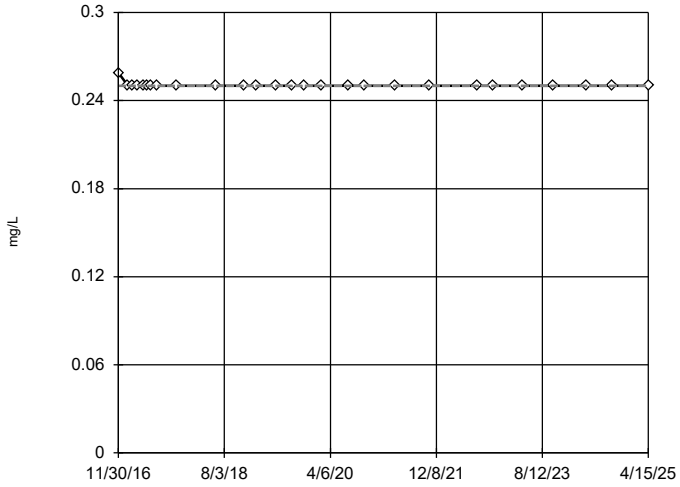
High cutoff = 0.4374, low cutoff = 0.1815, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-4



n = 27

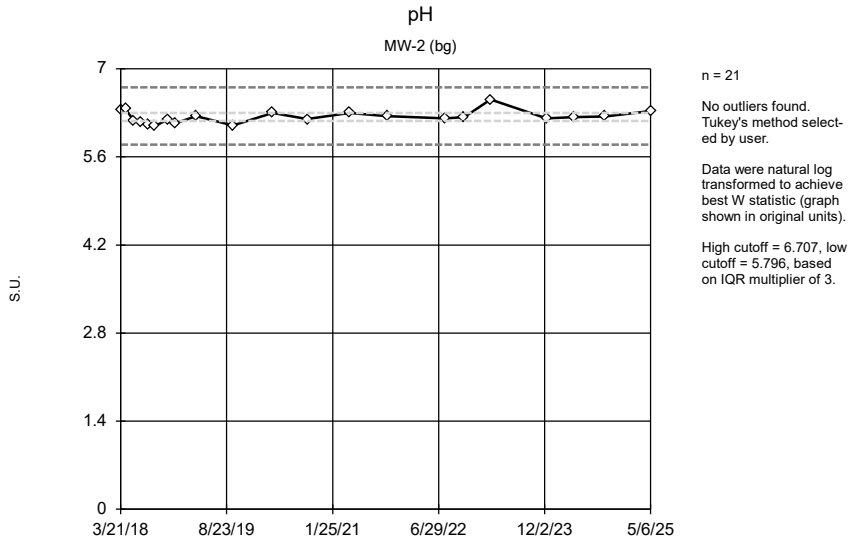
No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG



n = 21

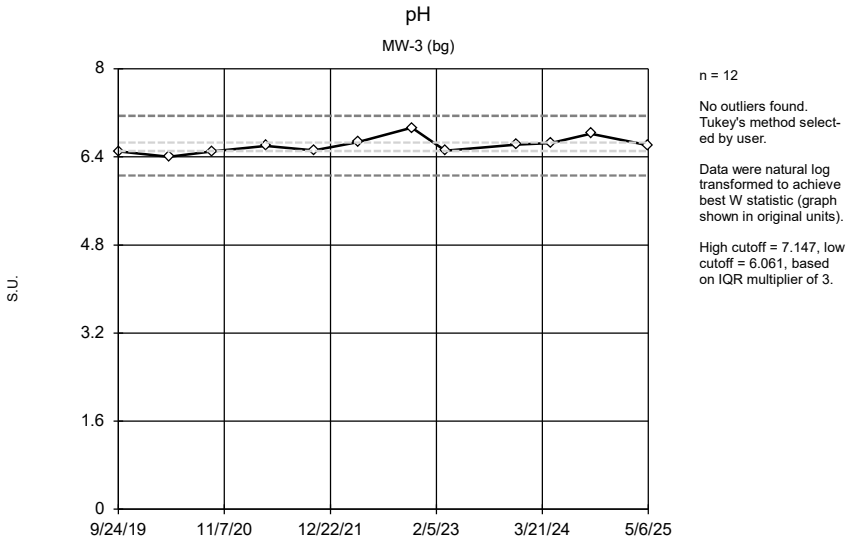
No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.707, low cutoff = 5.796, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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n = 12

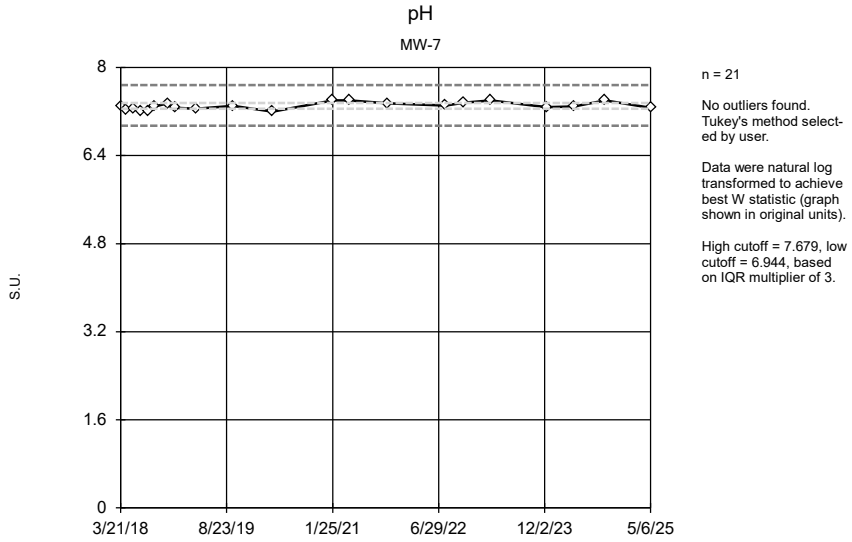
No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 7.147, low cutoff = 6.061, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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n = 21

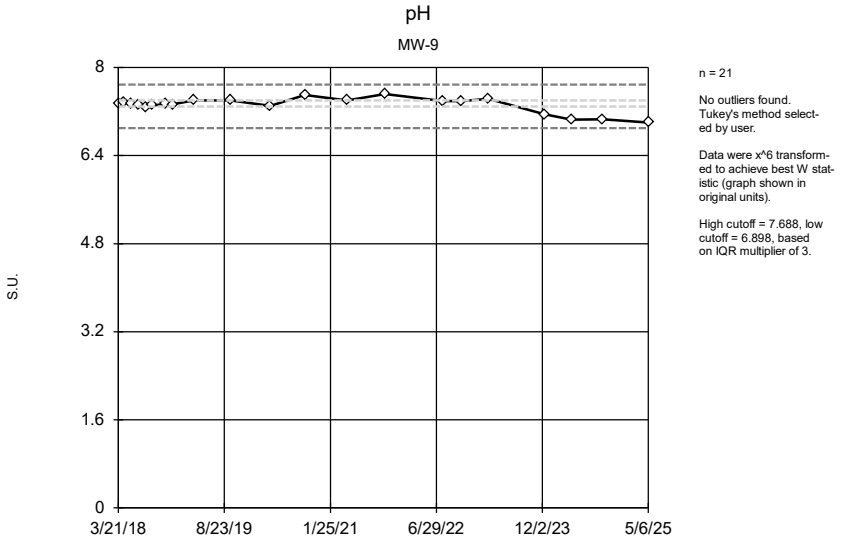
No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 7.679, low cutoff = 6.944, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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n = 21

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

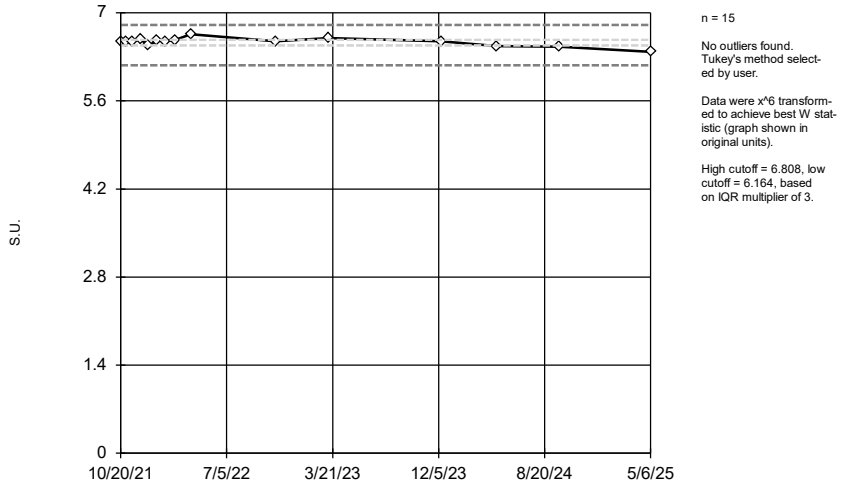
High cutoff = 7.688, low cutoff = 6.898, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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pH

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

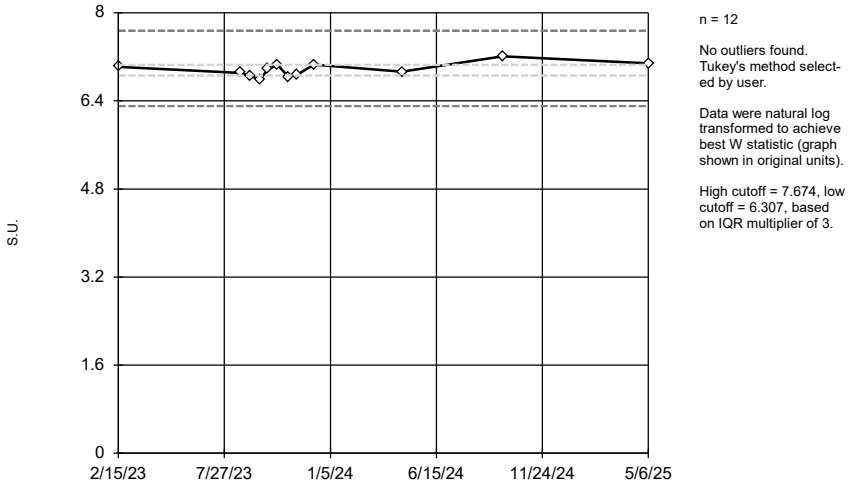
High cutoff = 6.808, low cutoff = 6.164, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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pH

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

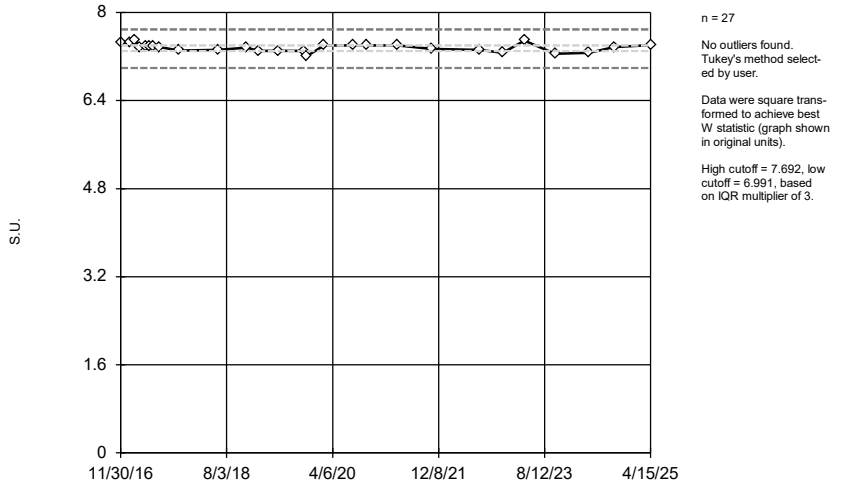
High cutoff = 7.674, low cutoff = 6.307, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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pH

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

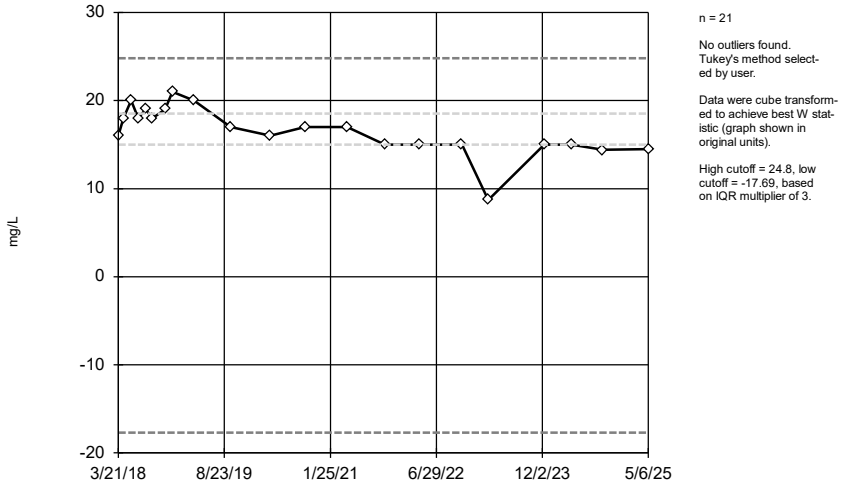
High cutoff = 7.692, low cutoff = 6.991, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-2 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

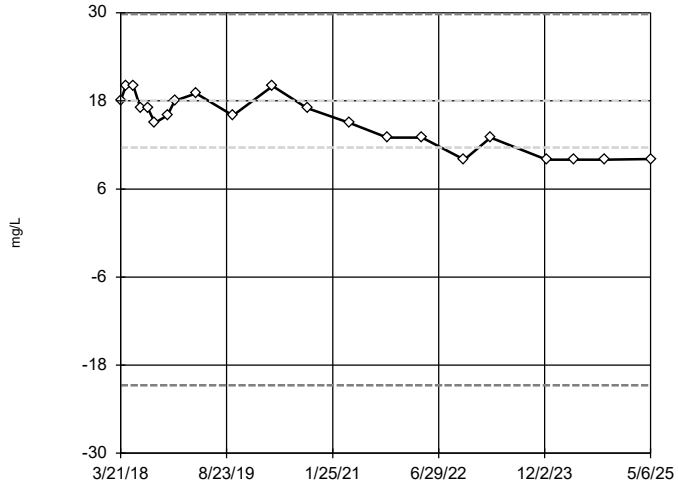
High cutoff = 24.8, low cutoff = -17.69, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

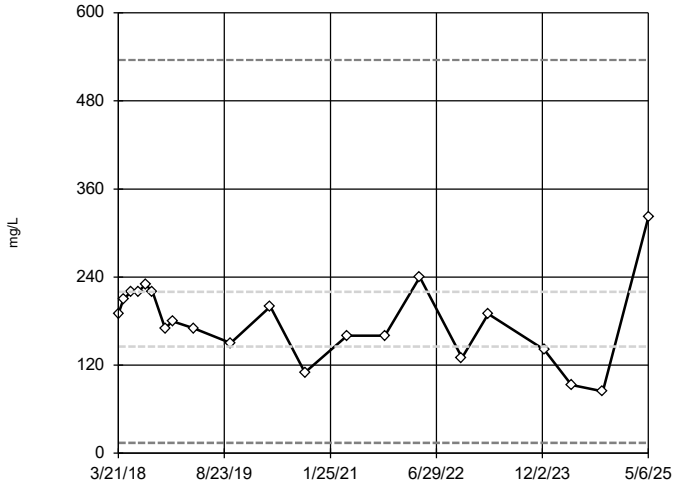
High cutoff = 29.82, low cutoff = -20.74, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

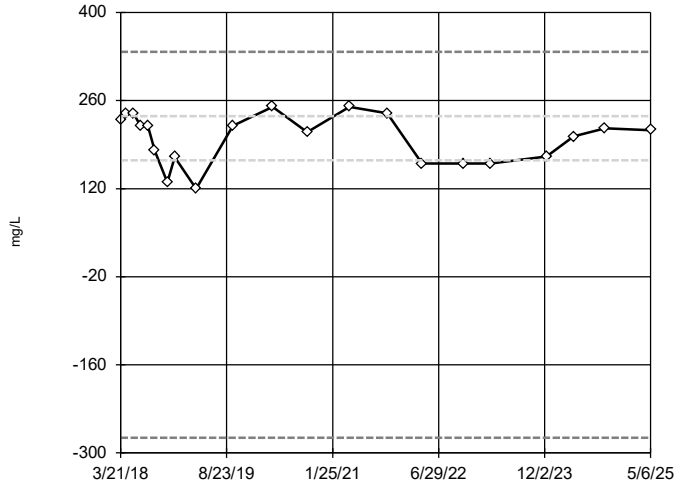
High cutoff = 535.8, low cutoff = 14.04, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

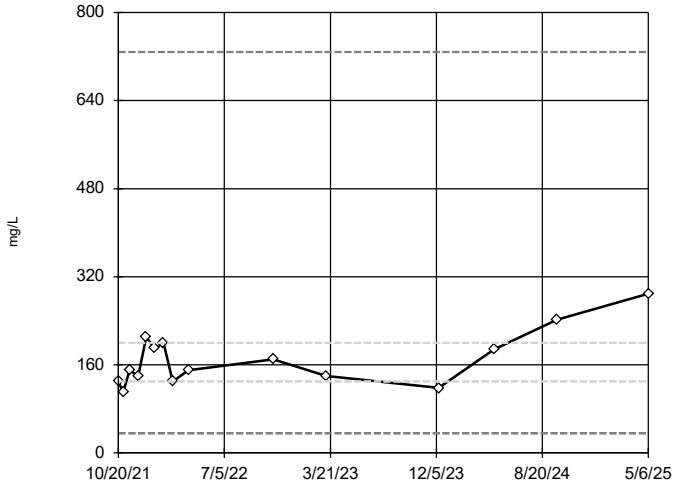
High cutoff = 337.6, low cutoff = -275.8, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

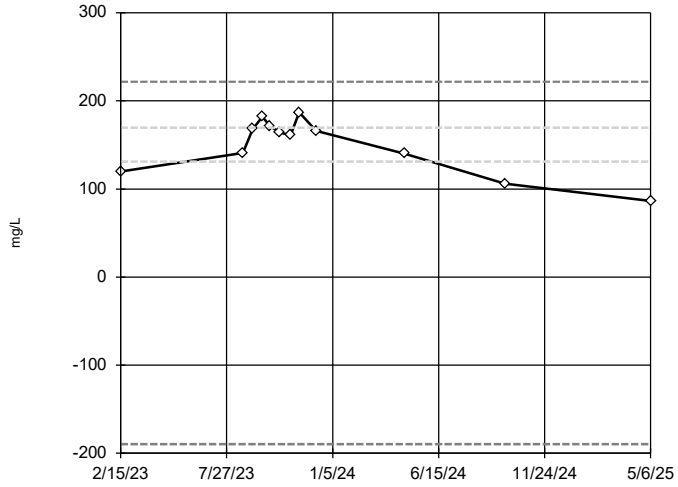
High cutoff = 728.3, low cutoff = 35.7, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

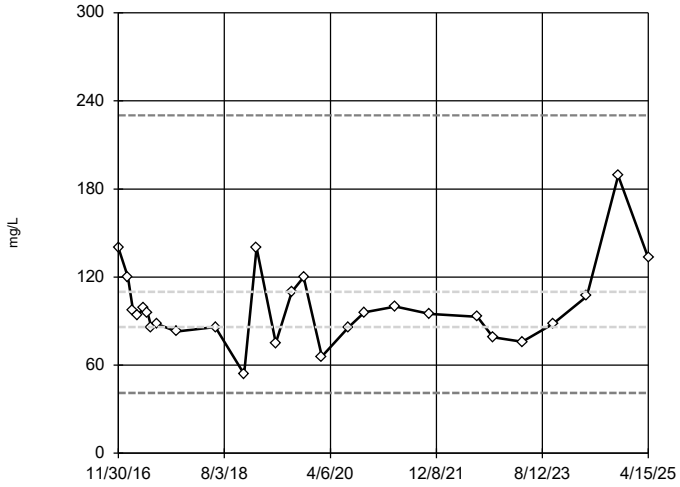
High cutoff = 221.7, low cutoff = -189.7, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

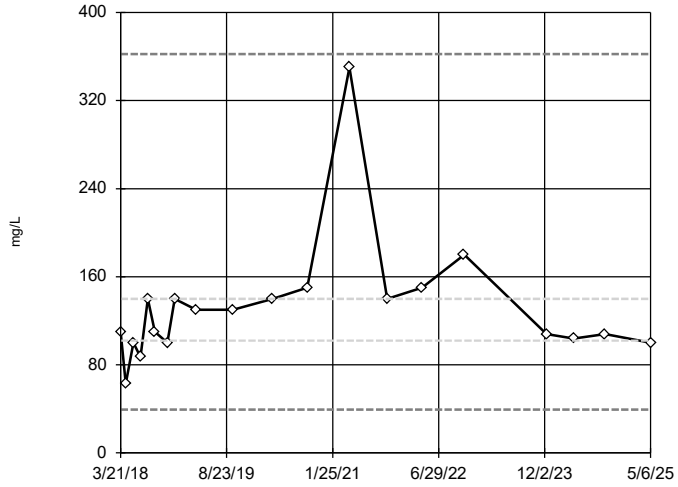
High cutoff = 230.2, low cutoff = 41.1, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-2 (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

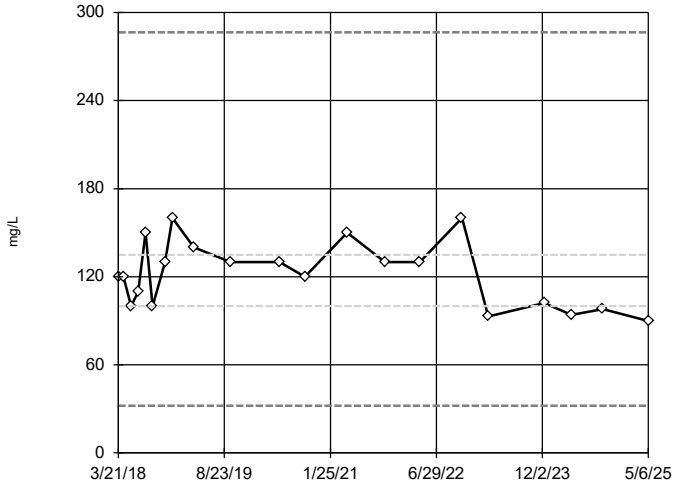
High cutoff = 362.2, low cutoff = 39.42, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-3 (bg)



n = 21

No outliers found. Tukey's method selected by user.

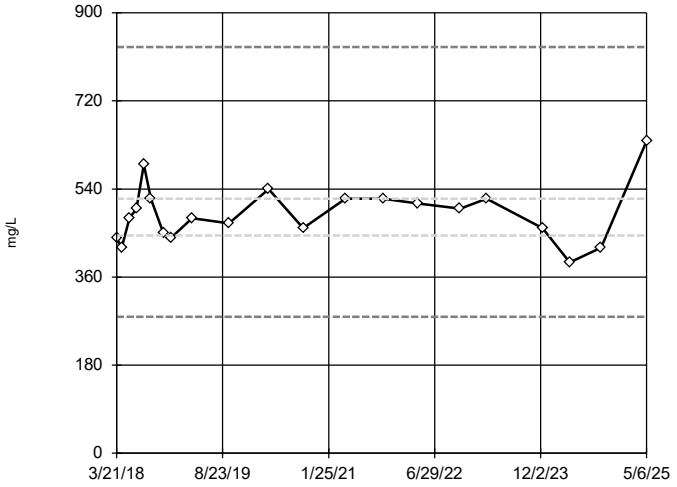
Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 286.4, low cutoff = 32.12, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Total Dissolved Solids

MW-7



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

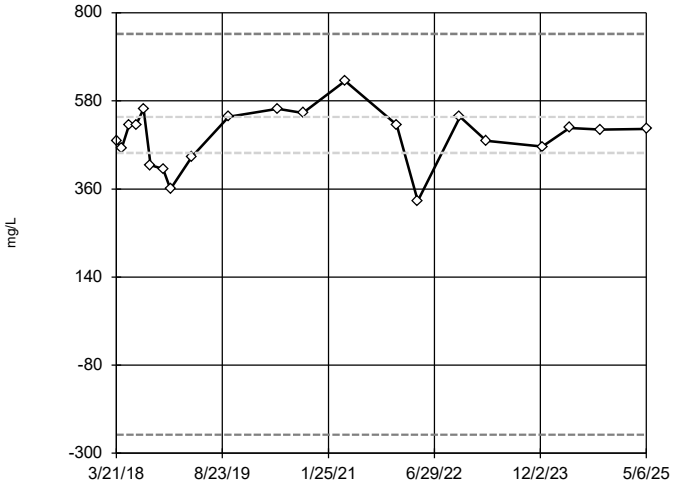
High cutoff = 829.9, low cutoff = 278.8, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-9



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

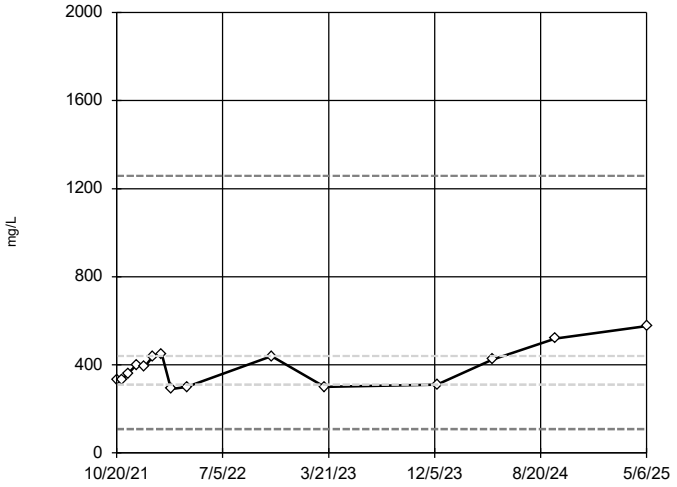
High cutoff = 747.4, low cutoff = -253.8, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-1R



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

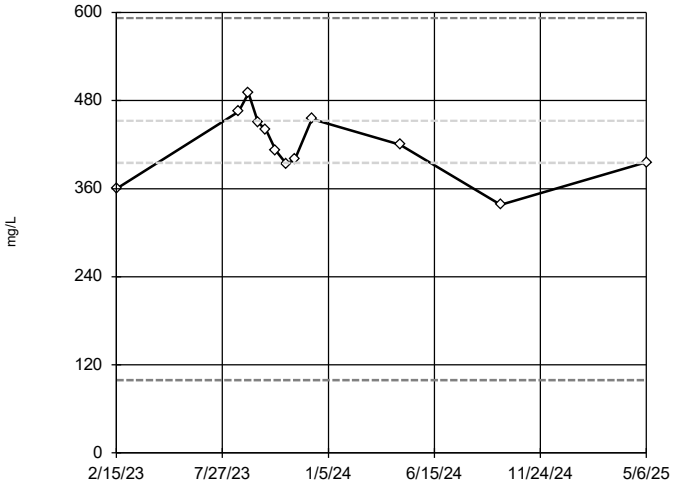
High cutoff = 1258, low cutoff = 108.4, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-10



n = 12

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

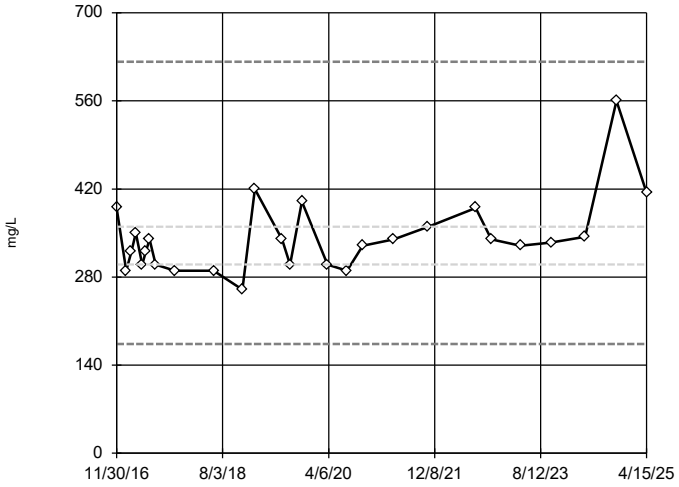
High cutoff = 592.4, low cutoff = 99.08, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-4



n = 27

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 622.1, low cutoff = 173.6, based on IQR multiplier of 3.

Tukey's Outlier Screening Analysis Run 9/9/2025 9:42 AM View: FAP Detection Bkg Update 8.1.2025

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Trend Test

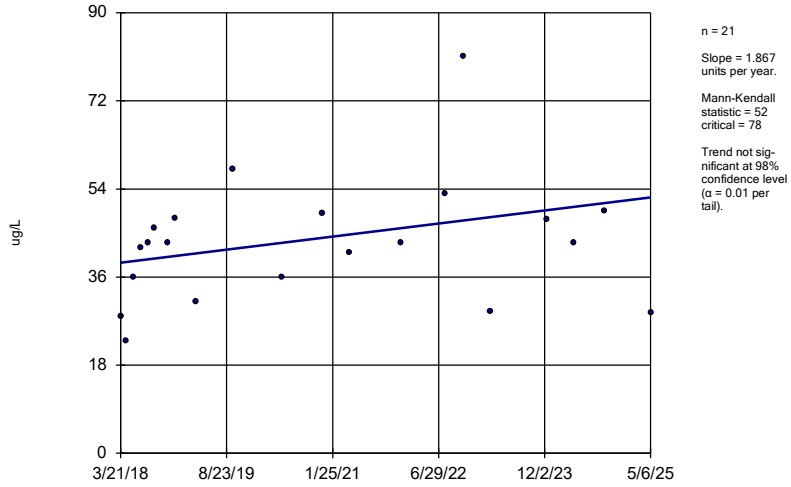
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 8/27/2025, 3:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (ug/L)	MW-2 (bg)	1.867	52	78	No	21	0	n/a	n/a	0.02	NP
Boron (ug/L)	MW-3 (bg)	-0.5619	-13	-78	No	21	4.762	n/a	n/a	0.02	NP
Boron (ug/L)	MW-7	67.14	63	78	No	21	0	n/a	n/a	0.02	NP
Boron (ug/L)	MW-9	-174.4	-63	-78	No	21	0	n/a	n/a	0.02	NP
Boron (ug/L)	MW-1R	499.5	47	48	No	15	0	n/a	n/a	0.02	NP
Boron (ug/L)	MW-10	123.9	16	35	No	12	0	n/a	n/a	0.02	NP
Boron (ug/L)	**MW-4**	**-77.34**	**-213**	**-112**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium (mg/L)	MW-2 (bg)	0.2665	29	78	No	21	0	n/a	n/a	0.02	NP
Calcium (mg/L)	**MW-3 (bg)**	**-0.5329**	**-138**	**-78**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium (mg/L)	MW-7	0	-13	-78	No	21	0	n/a	n/a	0.02	NP
Calcium (mg/L)	**MW-9**	**4.449**	**96**	**78**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium (mg/L)	MW-1R	9.728	32	48	No	15	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MW-10	3.396	16	35	No	12	0	n/a	n/a	0.02	NP
Calcium (mg/L)	MW-4	1.099	83	112	No	27	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-2 (bg)	0	0	78	No	21	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-3 (bg)	-0.04149	-33	-78	No	21	28.57	n/a	n/a	0.02	NP
Chloride (mg/L)	**MW-7**	**-1.216**	**-119**	**-78**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	MW-9	-0.4511	-52	-78	No	21	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-1R	0.5594	12	48	No	15	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-10	-2.76	-7	-35	No	12	0	n/a	n/a	0.02	NP
Chloride (mg/L)	MW-4	0	8	101	No	25	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	MW-2 (bg)	0	-48	-78	No	21	71.43	n/a	n/a	0.02	NP
Fluoride (mg/L)	MW-3 (bg)	0	-68	-78	No	21	57.14	n/a	n/a	0.02	NP
Fluoride (mg/L)	**MW-7**	**-0.02625**	**-86**	**-78**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**MW-9**	**-0.04866**	**-92**	**-78**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	MW-1R	0	-33	-48	No	15	73.33	n/a	n/a	0.02	NP
Fluoride (mg/L)	MW-10	-0.02388	-20	-35	No	12	8.333	n/a	n/a	0.02	NP
Fluoride (mg/L)	MW-4	0	-26	-112	No	27	96.3	n/a	n/a	0.02	NP
pH (S.U.)	MW-2 (bg)	0.0114	46	78	No	21	0	n/a	n/a	0.02	NP
pH (S.U.)	**MW-3 (bg)**	**0.0236**	**93**	**78**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH (S.U.)	MW-7	0.01211	64	78	No	21	0	n/a	n/a	0.02	NP
pH (S.U.)	MW-9	-0.01692	-23	-78	No	21	0	n/a	n/a	0.02	NP
pH (S.U.)	MW-1R	-0.0237	-23	-48	No	15	0	n/a	n/a	0.02	NP
pH (S.U.)	MW-10	0.1309	24	35	No	12	0	n/a	n/a	0.02	NP
pH (S.U.)	MW-4	-0.00...	-81	-112	No	27	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	**MW-2 (bg)**	**-0.6603**	**-121**	**-78**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate (mg/L)	**MW-3 (bg)**	**-1.28**	**-132**	**-78**	**Yes**	**21**	**4.762**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate (mg/L)	MW-7	-12.91	-72	-78	No	21	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-9	-2.986	-38	-78	No	21	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-1R	27.44	34	48	No	15	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-10	-33.5	-16	-35	No	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	MW-4	-0.6437	-18	-112	No	27	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	MW-2 (bg)	4.742	41	73	No	20	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	MW-3 (bg)	-2.332	-38	-78	No	21	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	MW-7	3.746	17	78	No	21	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	MW-9	0.53	6	78	No	21	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	MW-1R	42.82	32	48	No	15	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	MW-10	-53.4	-22	-35	No	12	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	MW-4	6.484	92	112	No	27	0	n/a	n/a	0.02	NP

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Boron

MW-2 (bg)



n = 21

Slope = 1.867 units per year.

Mann-Kendall statistic = 52 critical = 78

Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:49 PM View: FAP Detection Bkg Updat

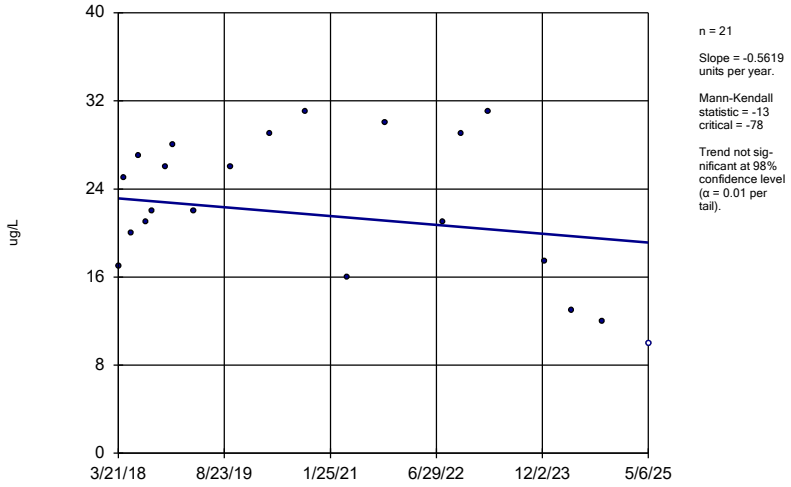
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Hollow symbols indicate censored values.

Boron

MW-3 (bg)



n = 21

Slope = -0.5619 units per year.

Mann-Kendall statistic = -13 critical = -78

Trend not significant at 98% confidence level (α = 0.01 per tail).

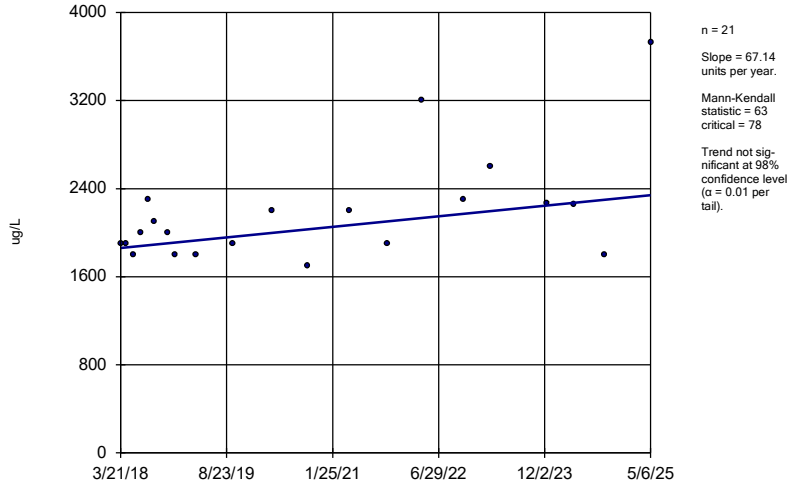
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:49 PM View: FAP Detection Bkg Updat

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Boron

MW-7



n = 21

Slope = 67.14 units per year.

Mann-Kendall statistic = 63 critical = 78

Trend not significant at 98% confidence level (α = 0.01 per tail).

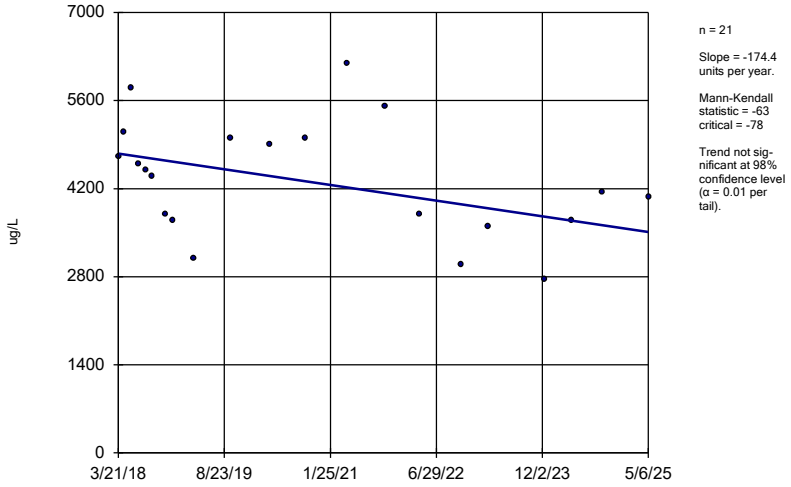
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:49 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Boron

MW-9



n = 21

Slope = -174.4 units per year.

Mann-Kendall statistic = -63 critical = -78

Trend not significant at 98% confidence level (α = 0.01 per tail).

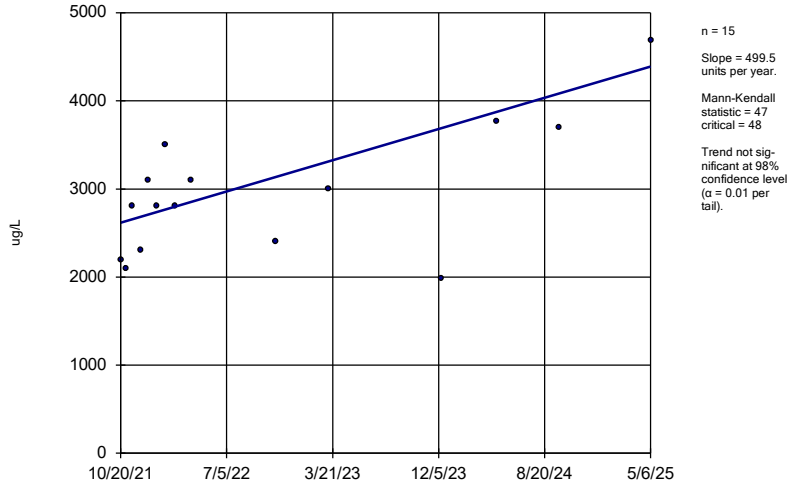
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:49 PM View: FAP Detection Bkg Updat

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Boron

MW-1R



n = 15

Slope = 499.5 units per year.

Mann-Kendall statistic = 47 critical = 48

Trend not significant at 98% confidence level (α = 0.01 per tail).

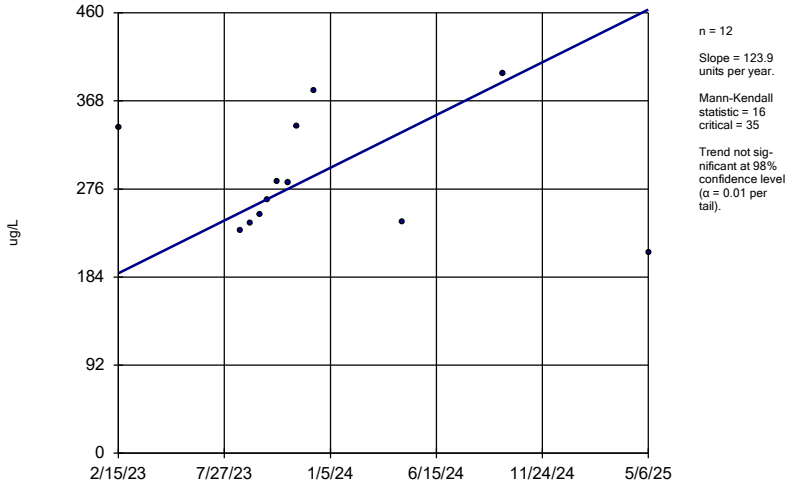
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:49 PM View: FAP Detection Bkg Updat

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Boron

MW-10



n = 12

Slope = 123.9 units per year.

Mann-Kendall statistic = 16 critical = 35

Trend not significant at 98% confidence level (α = 0.01 per tail).

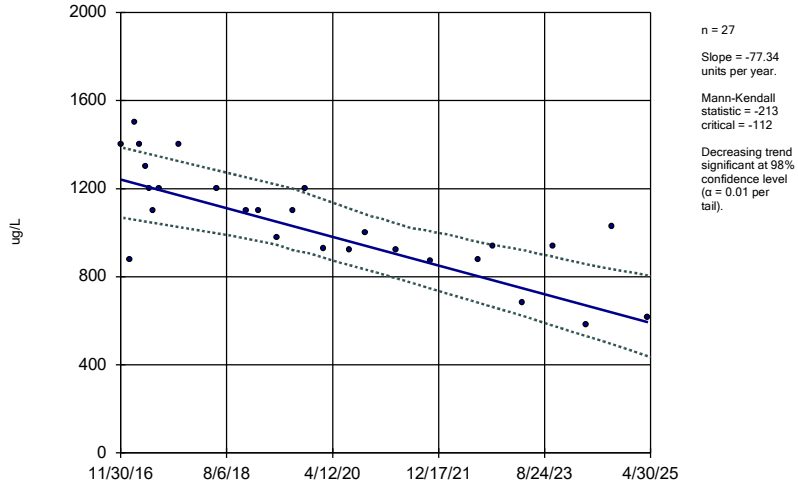
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:49 PM View: FAP Detection Bkg Updat

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Boron

MW-4



n = 27

Slope = -77.34 units per year.

Mann-Kendall statistic = -213 critical = -112

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

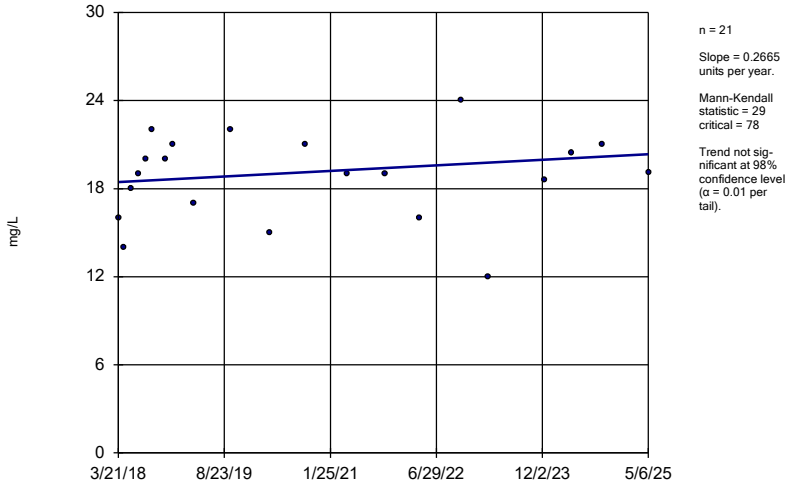
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:49 PM View: FAP Detection Bkg Updat

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Calcium

MW-2 (bg)



n = 21

Slope = 0.2665 units per year.

Mann-Kendall statistic = 29 critical = 78

Trend not significant at 98% confidence level (α = 0.01 per tail).

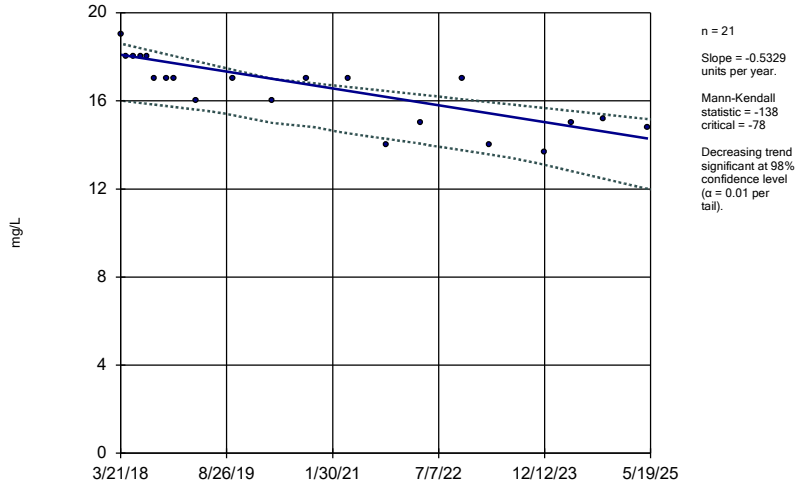
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:49 PM View: FAP Detection Bkg Updat

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Calcium

MW-3 (bg)



n = 21

Slope = -0.5329 units per year.

Mann-Kendall statistic = -138 critical = -78

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

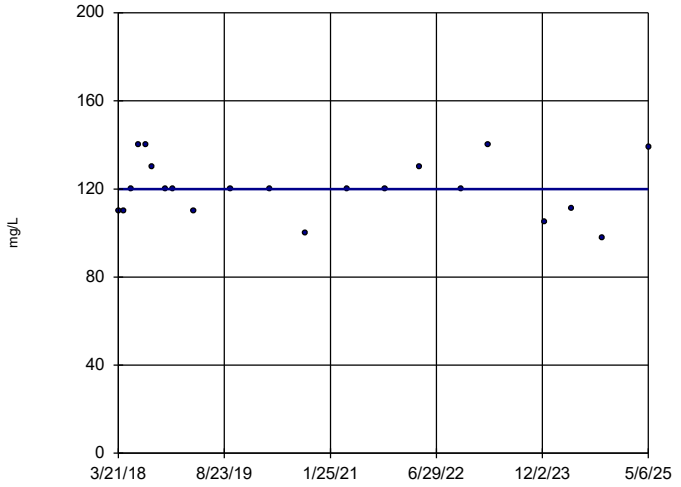
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:49 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-7



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -13 critical = -78

Trend not significant at 98% confidence level (α = 0.01 per tail).

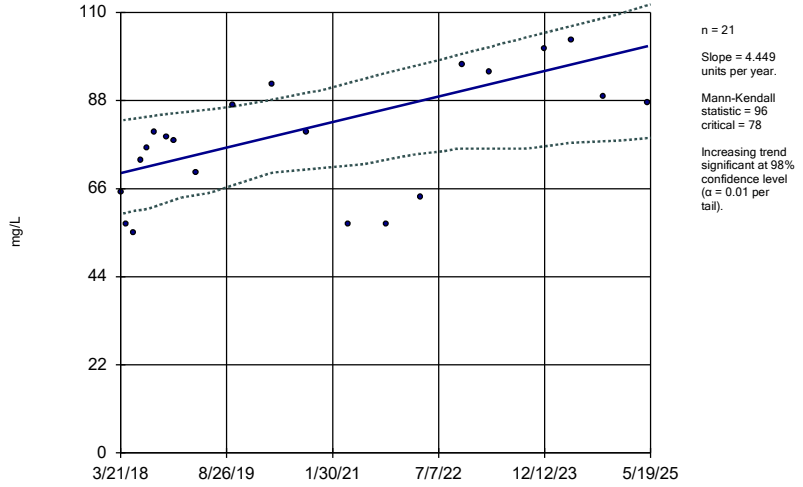
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:49 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-9



n = 21

Slope = 4.449 units per year.

Mann-Kendall statistic = 96 critical = 78

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

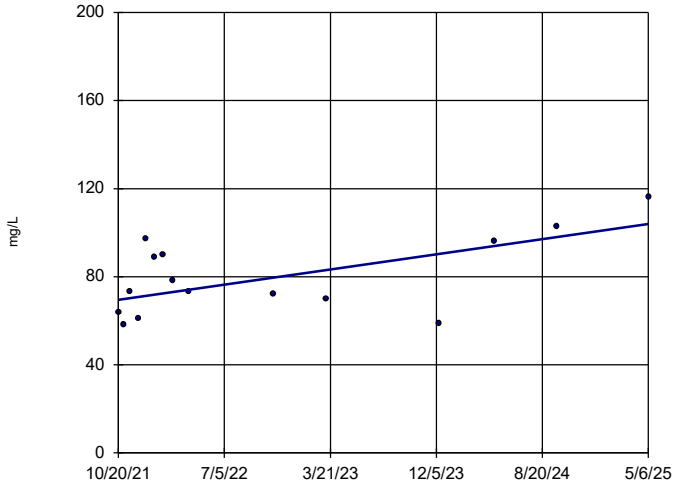
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:49 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-1R



n = 15

Slope = 9.728 units per year.

Mann-Kendall statistic = 32 critical = 48

Trend not significant at 98% confidence level (α = 0.01 per tail).

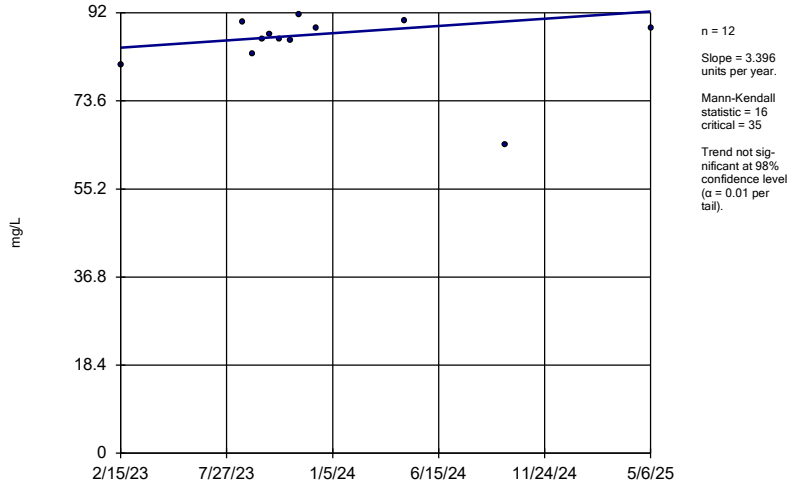
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-10



n = 12

Slope = 3.396 units per year.

Mann-Kendall statistic = 16 critical = 35

Trend not significant at 98% confidence level (α = 0.01 per tail).

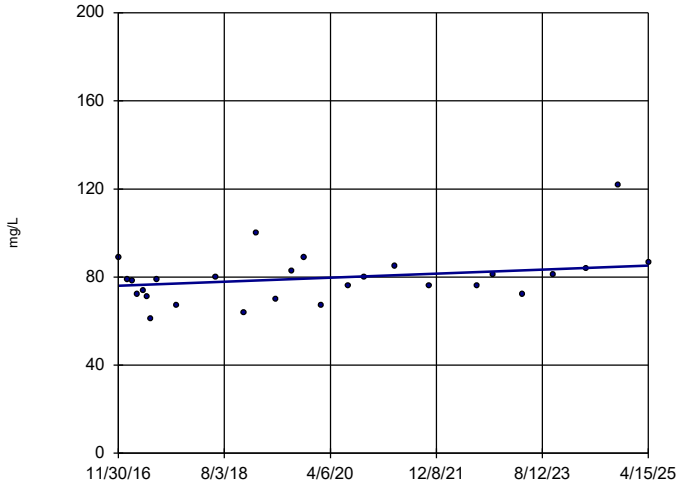
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Calcium

MW-4



n = 27

Slope = 1.099 units per year.

Mann-Kendall statistic = 83 critical = 112

Trend not significant at 98% confidence level (α = 0.01 per tail).

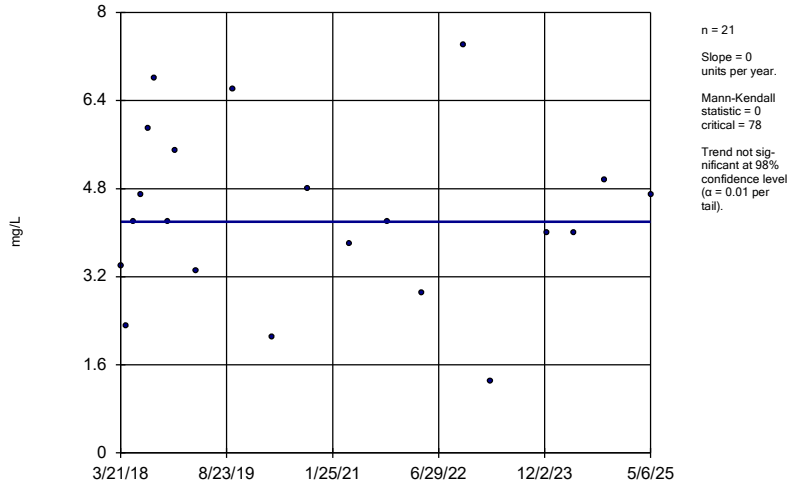
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-2 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 78

Trend not significant at 98% confidence level (α = 0.01 per tail).

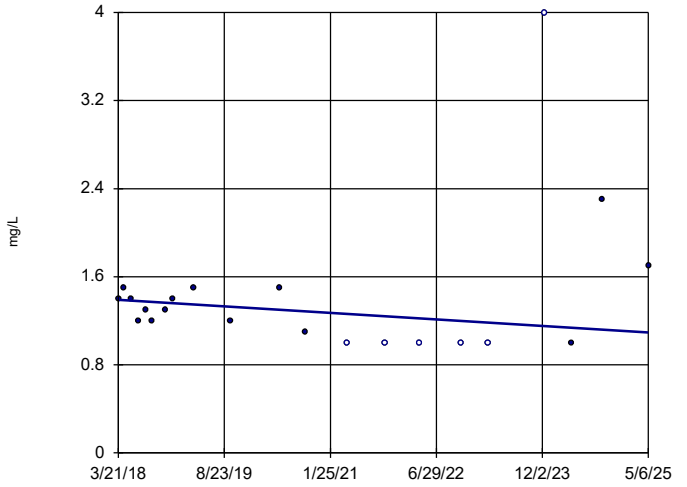
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

Chloride

MW-3 (bg)



n = 21

Slope = -0.04149 units per year.

Mann-Kendall statistic = -33 critical = -78

Trend not significant at 98% confidence level (α = 0.01 per tail).

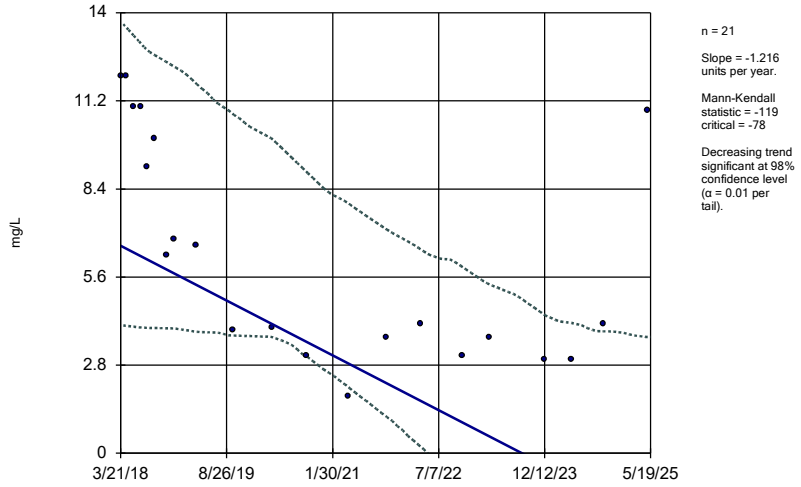
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-7



n = 21

Slope = -1.216 units per year.

Mann-Kendall statistic = -119 critical = -78

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

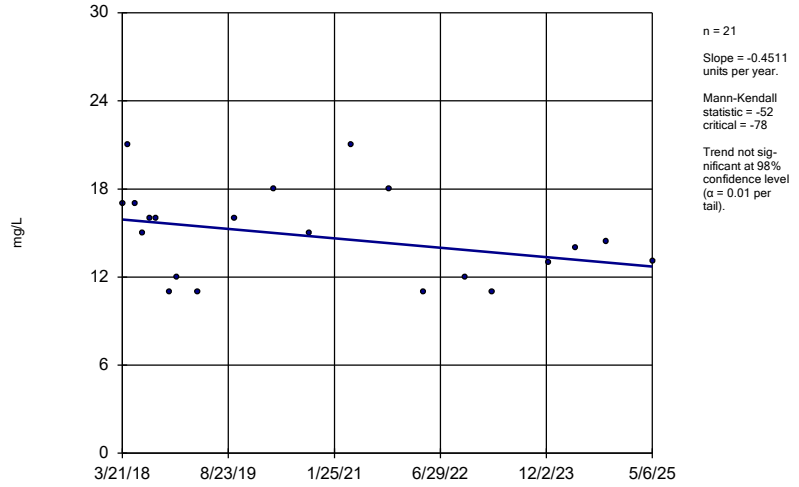
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-9



n = 21

Slope = -0.4511 units per year.

Mann-Kendall statistic = -52 critical = -78

Trend not significant at 98% confidence level (α = 0.01 per tail).

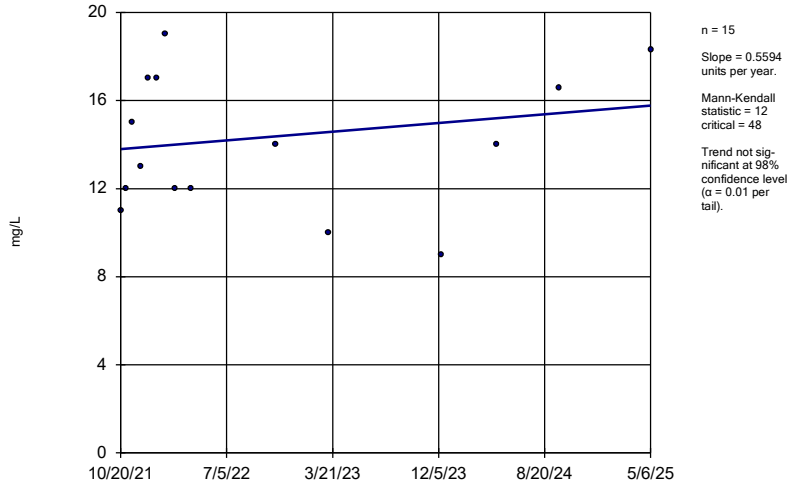
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-1R



n = 15

Slope = 0.5594 units per year.

Mann-Kendall statistic = 12 critical = 48

Trend not significant at 98% confidence level (α = 0.01 per tail).

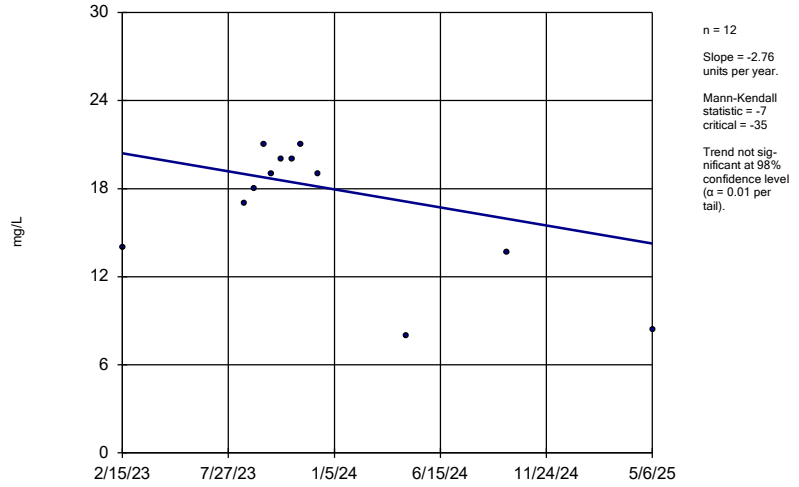
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-10



n = 12

Slope = -2.76 units per year.

Mann-Kendall statistic = -7 critical = -35

Trend not significant at 98% confidence level (α = 0.01 per tail).

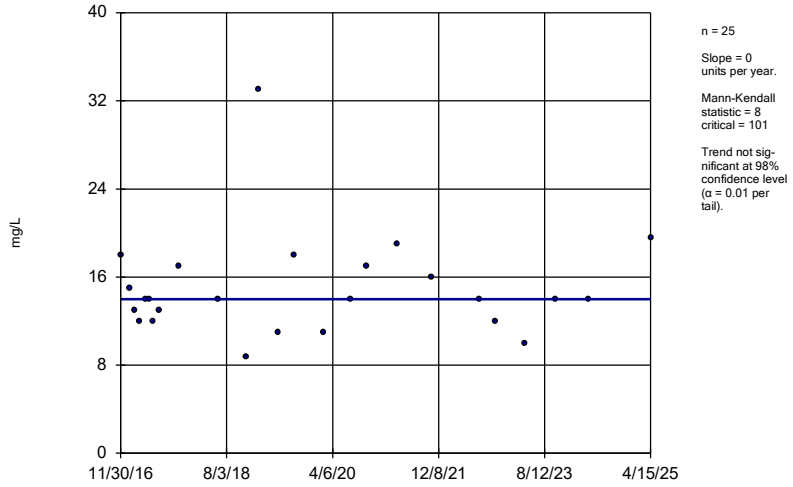
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Chloride

MW-4



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 8 critical = 101

Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

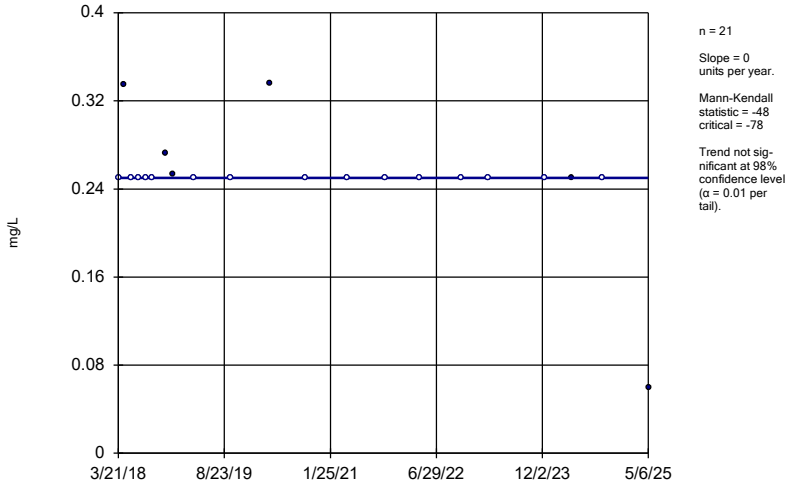
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

Fluoride

MW-2 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -48 critical = -78

Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

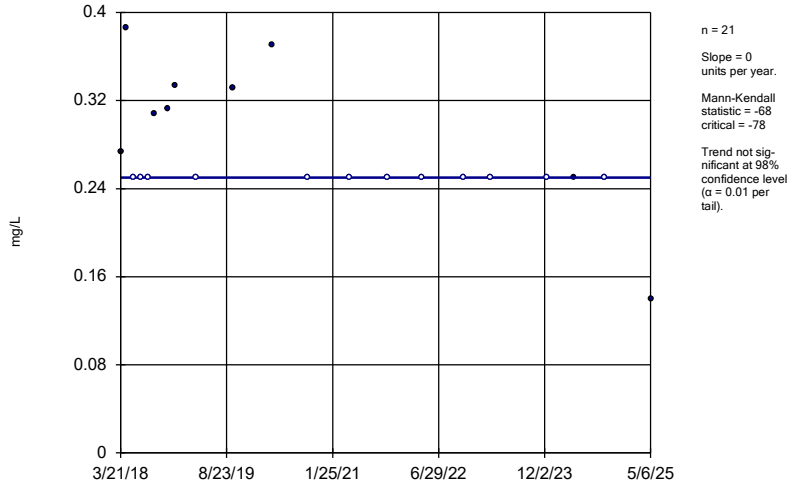
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

Fluoride

MW-3 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -68 critical = -78

Trend not significant at 98% confidence level (α = 0.01 per tail).

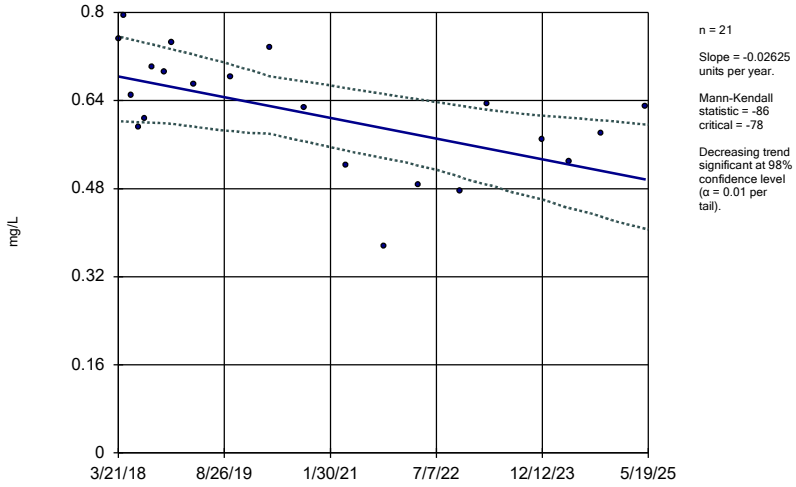
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-7



n = 21

Slope = -0.02625 units per year.

Mann-Kendall statistic = -86 critical = -78

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

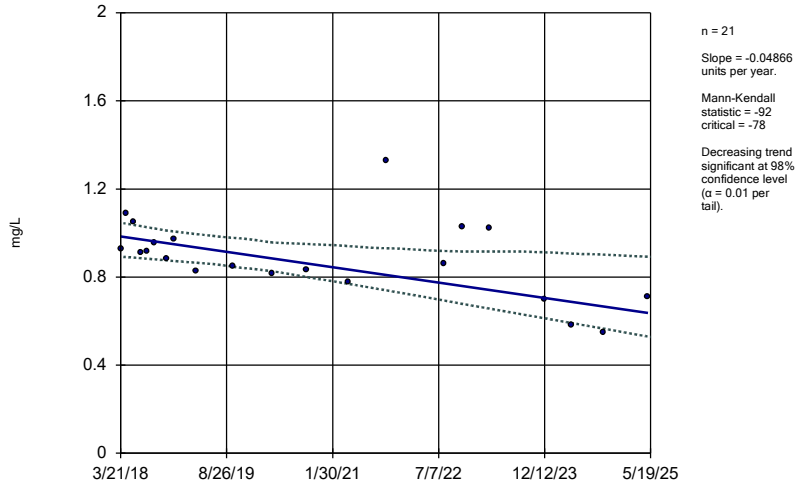
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Fluoride

MW-9



n = 21

Slope = -0.04866 units per year.

Mann-Kendall statistic = -92
critical = -78

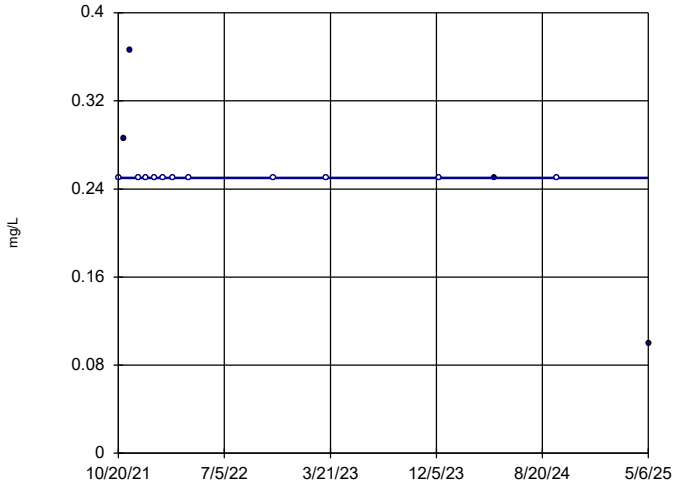
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

Fluoride

MW-1R



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = -33
critical = -48

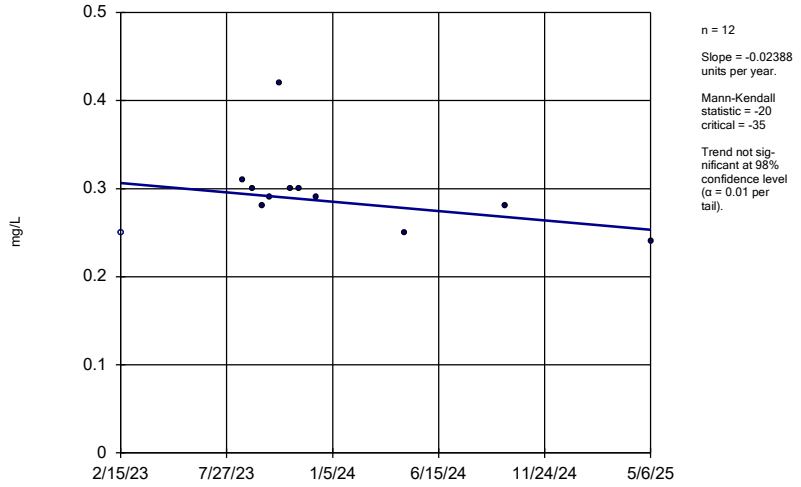
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

Fluoride

MW-10



n = 12

Slope = -0.02388 units per year.

Mann-Kendall statistic = -20
critical = -35

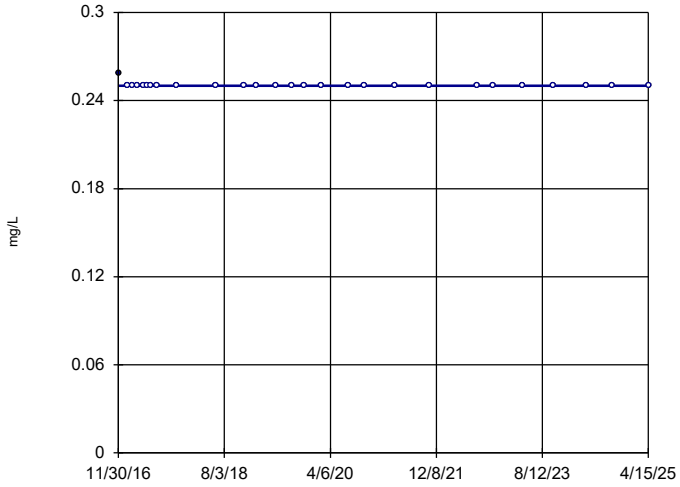
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

Fluoride

MW-4



n = 27

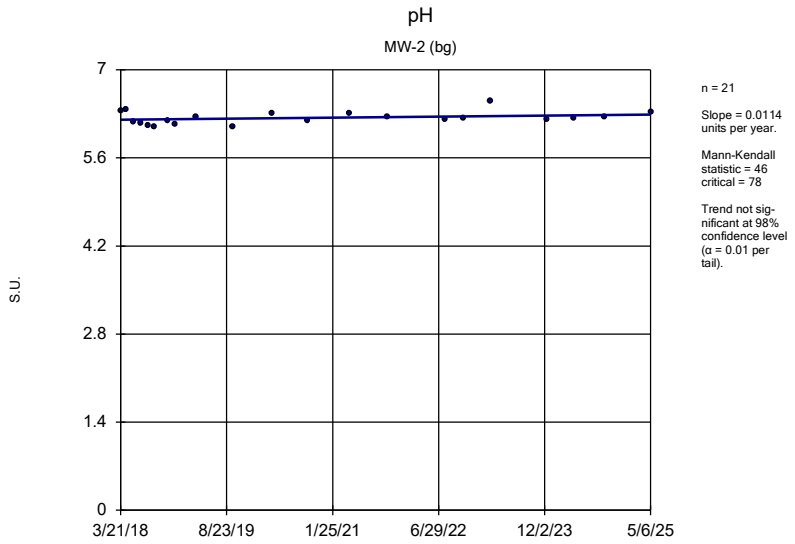
Slope = 0 units per year.

Mann-Kendall statistic = -26
critical = -112

Trend not significant at 98% confidence level (α = 0.01 per tail).

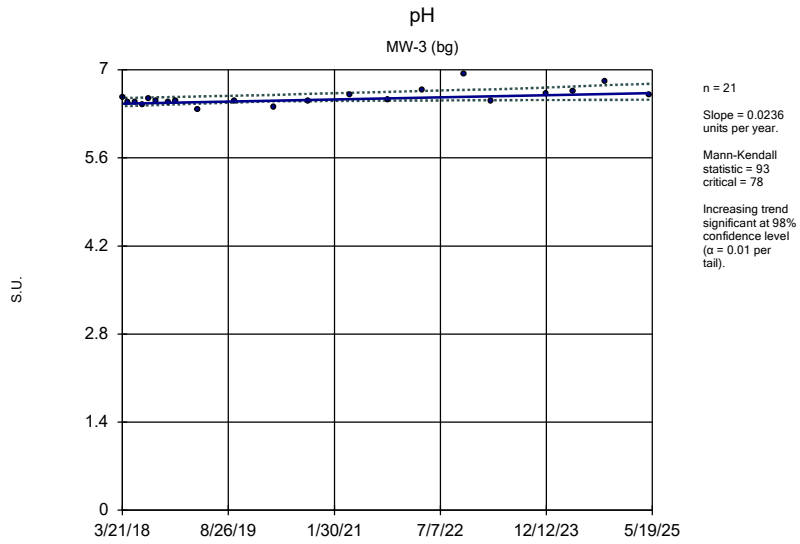
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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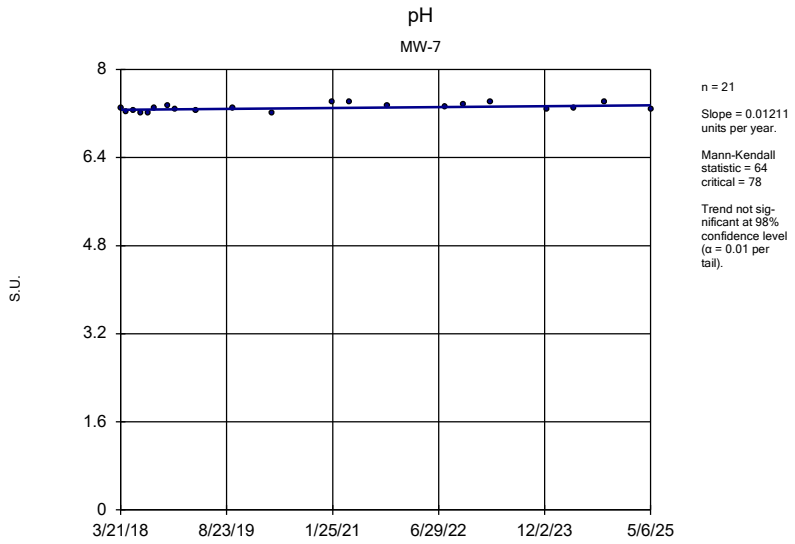
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG



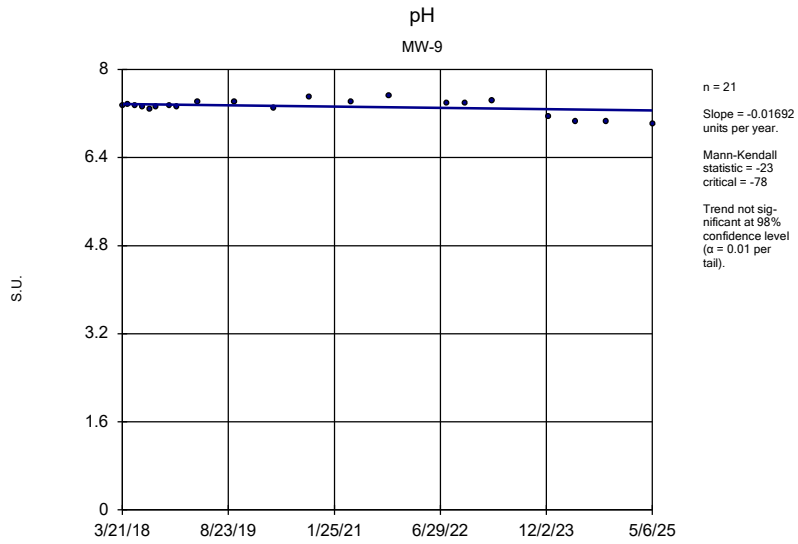
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG



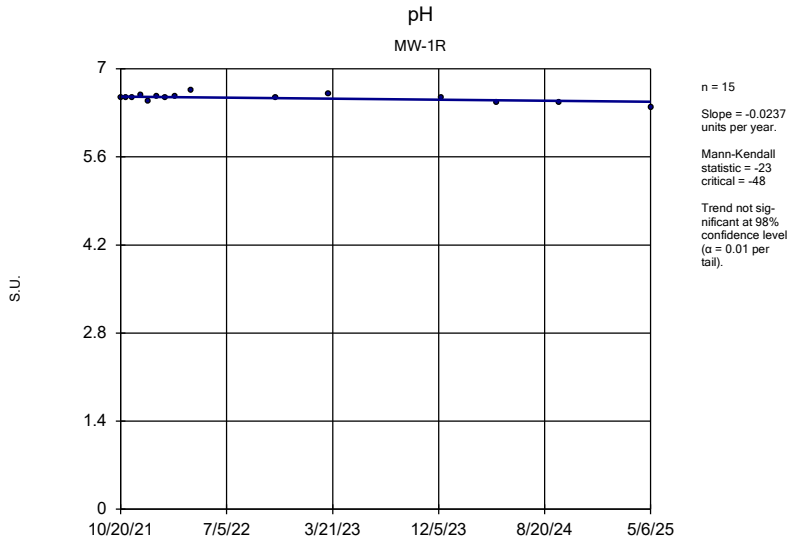
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.0.27 Software licensed to GREDELL Engineering. UG



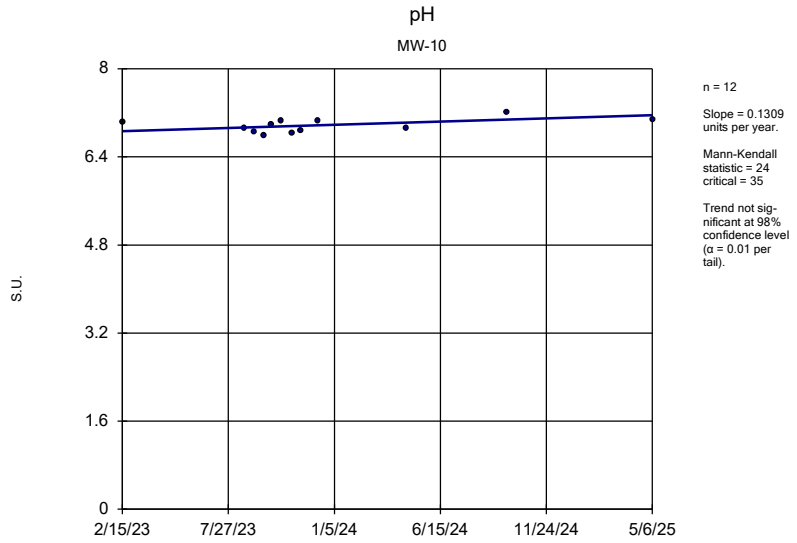
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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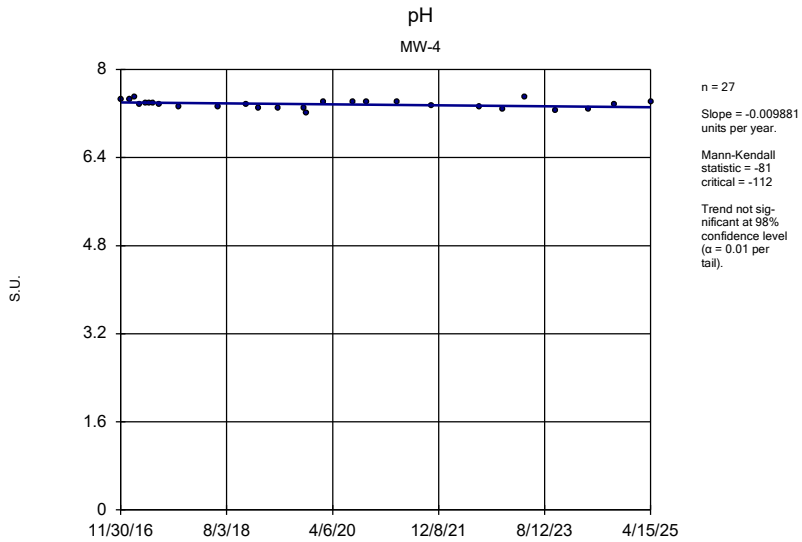
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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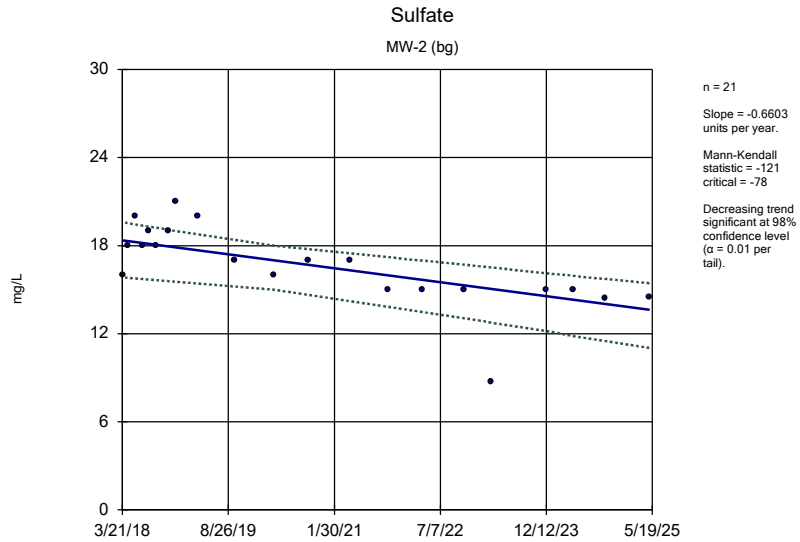
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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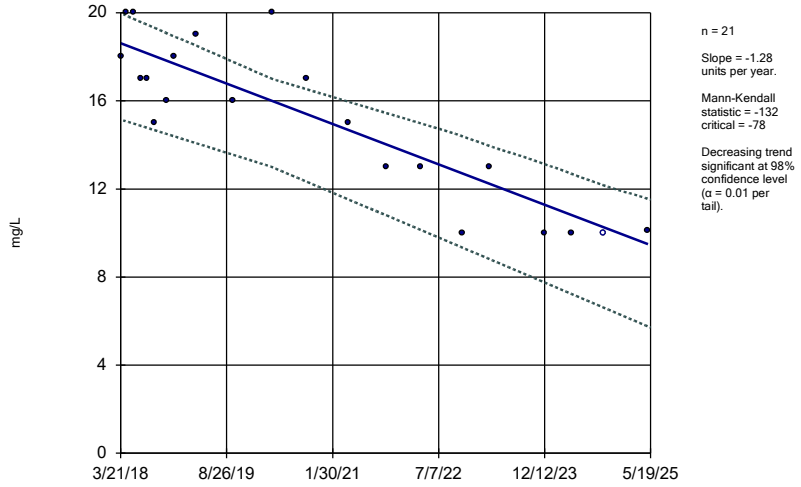


Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Hollow symbols indicate censored values.

Sulfate

MW-3 (bg)



n = 21

Slope = -1.28 units per year.

Mann-Kendall statistic = -132 critical = -78

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

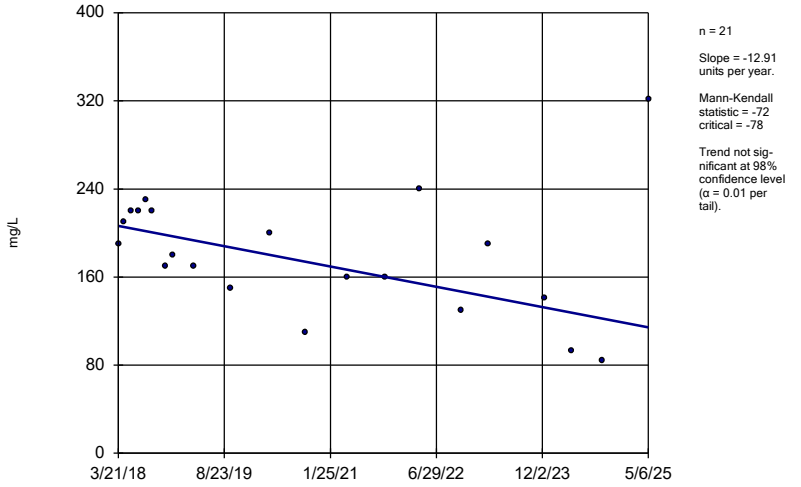
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-7



n = 21

Slope = -12.91 units per year.

Mann-Kendall statistic = -72 critical = -78

Trend not significant at 98% confidence level (α = 0.01 per tail).

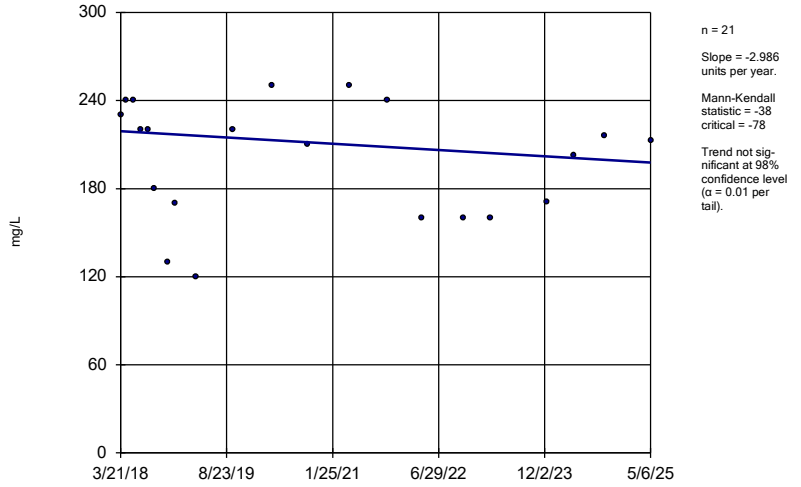
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-9



n = 21

Slope = -2.986 units per year.

Mann-Kendall statistic = -38 critical = -78

Trend not significant at 98% confidence level (α = 0.01 per tail).

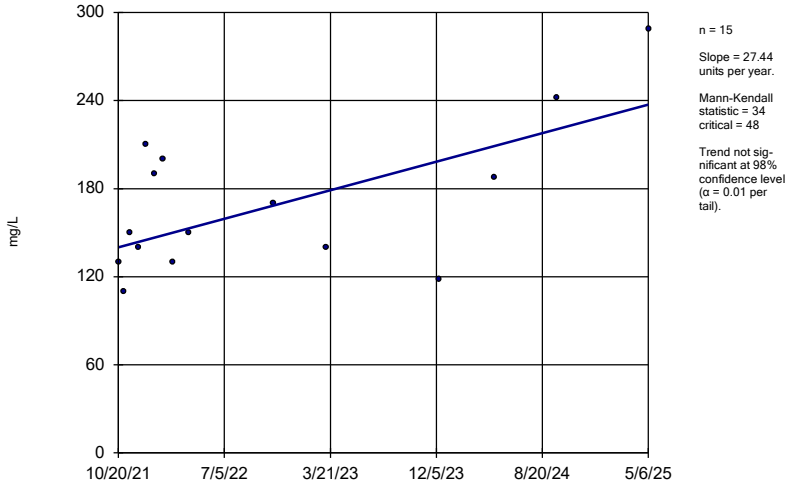
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-1R



n = 15

Slope = 27.44 units per year.

Mann-Kendall statistic = 34 critical = 48

Trend not significant at 98% confidence level (α = 0.01 per tail).

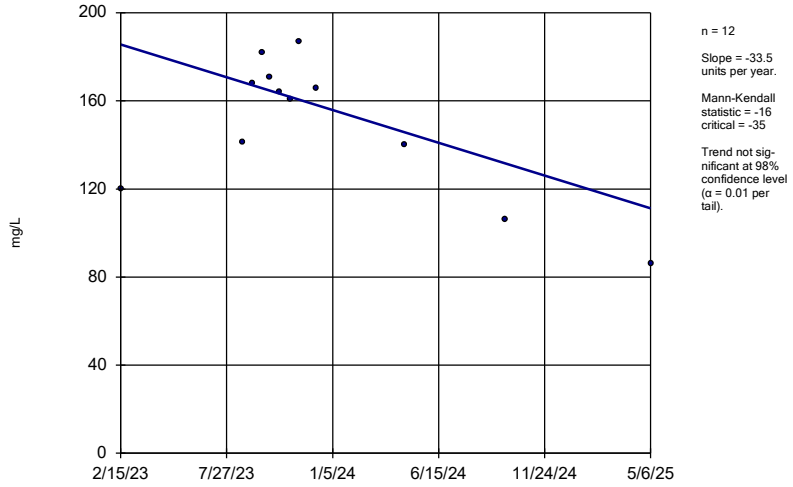
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-10



n = 12

Slope = -33.5 units per year.

Mann-Kendall statistic = -16 critical = -35

Trend not significant at 98% confidence level (α = 0.01 per tail).

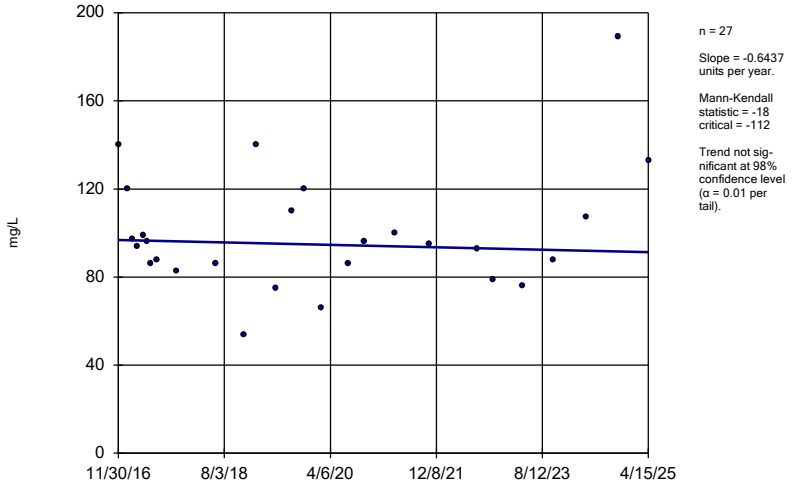
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sulfate

MW-4



n = 27

Slope = -0.6437 units per year.

Mann-Kendall statistic = -18 critical = -112

Trend not significant at 98% confidence level (α = 0.01 per tail).

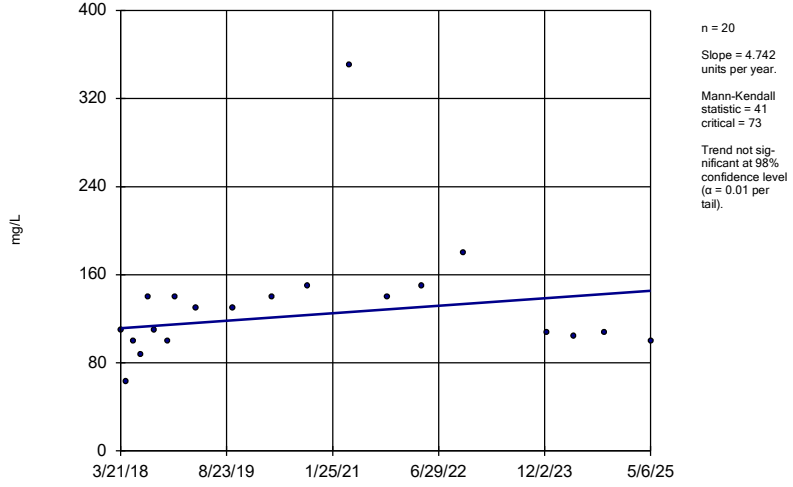
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-2 (bg)



n = 20

Slope = 4.742 units per year.

Mann-Kendall statistic = 41 critical = 73

Trend not significant at 98% confidence level (α = 0.01 per tail).

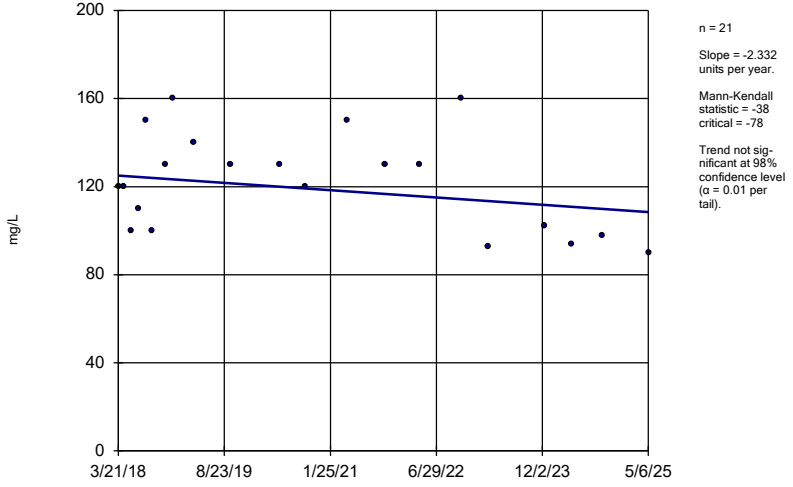
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-3 (bg)



n = 21

Slope = -2.332 units per year.

Mann-Kendall statistic = -38 critical = -78

Trend not significant at 98% confidence level (α = 0.01 per tail).

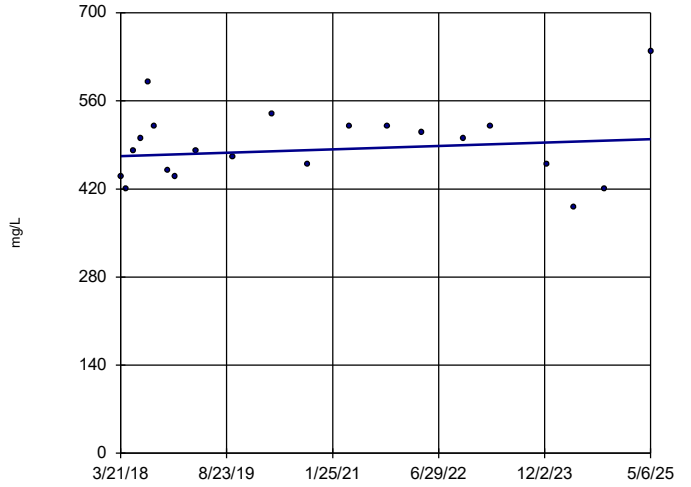
Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-7



n = 21

Slope = 3.746 units per year.

Mann-Kendall statistic = 17
critical = 78

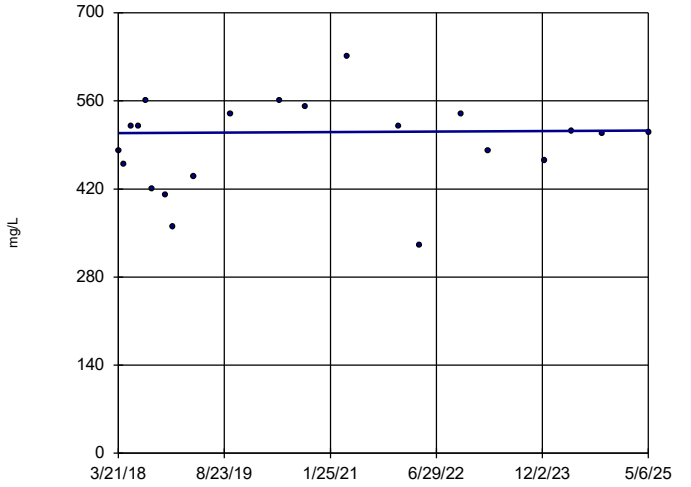
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-9



n = 21

Slope = 0.53 units per year.

Mann-Kendall statistic = 6
critical = 78

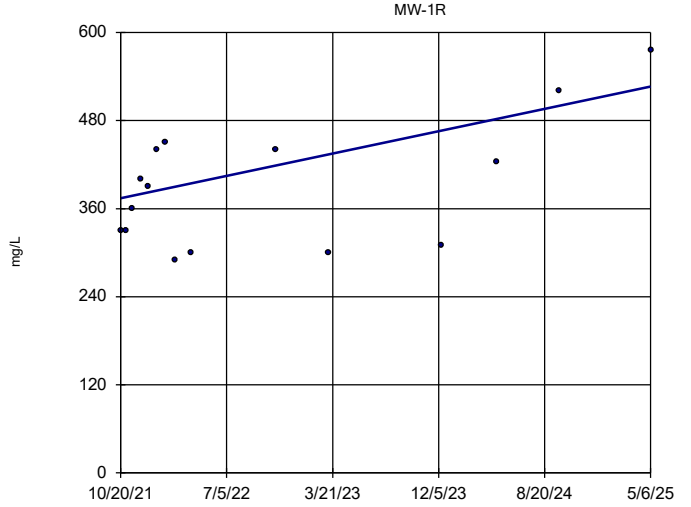
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-1R



n = 15

Slope = 42.82 units per year.

Mann-Kendall statistic = 32
critical = 48

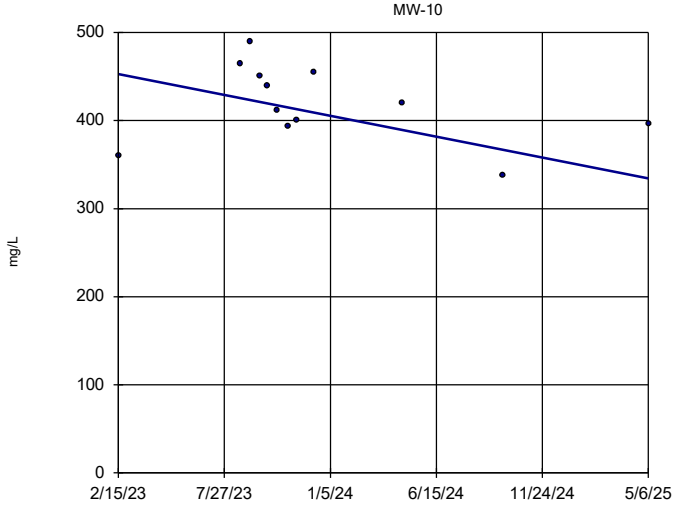
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-10



n = 12

Slope = -53.4 units per year.

Mann-Kendall statistic = -22
critical = -35

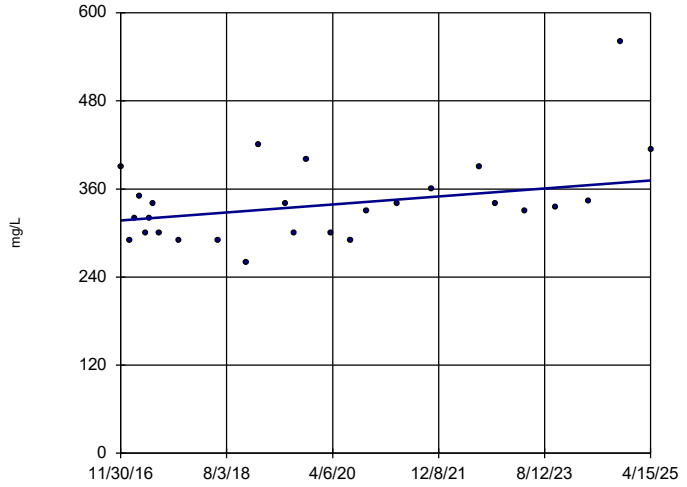
Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Total Dissolved Solids

MW-4



n = 27

Slope = 6.484 units per year.

Mann-Kendall statistic = 92 critical = 112

Trend not significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:50 PM View: FAP Detection Bkg Updat

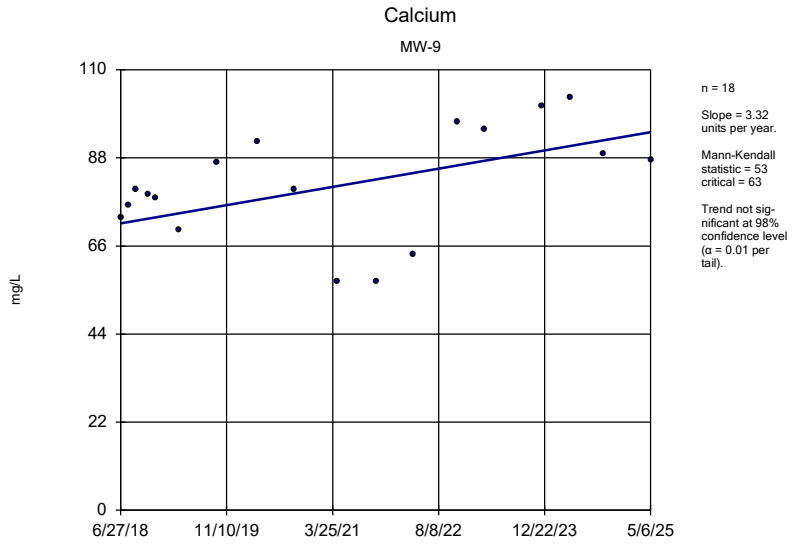
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Trend Test

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 8/27/2025, 4:00 PM

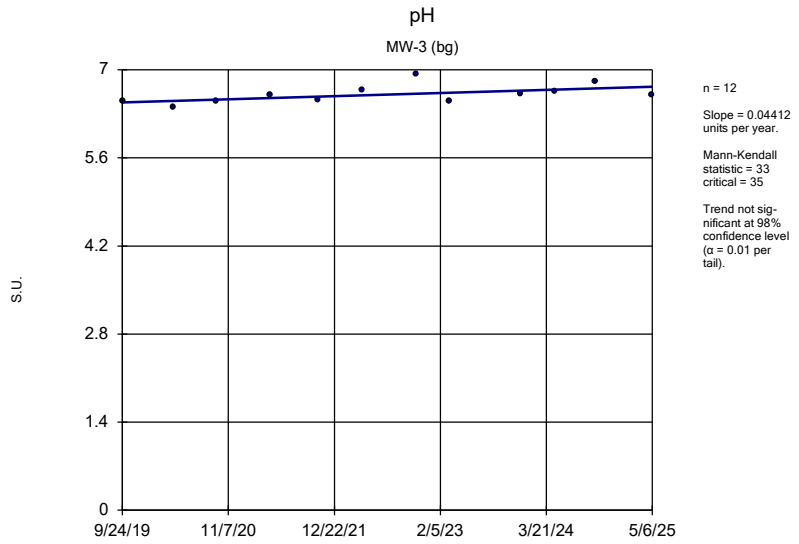
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	MW-9	3.32	53	63	No	18	0	n/a	n/a	0.02	NP
pH (S.U.)	MW-3 (bg)	0.04412	33	35	No	12	0	n/a	n/a	0.02	NP

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Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:59 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Sen's Slope and 95% Confidence Band Analysis Run 8/27/2025 3:59 PM View: FAP Detection Bkg Updat
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Prediction Limit

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 1/12/2026, 10:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (ug/L)	**MW-3**	**36.05**	**n/a**	**7/17/2025**	**39.8**	**Yes**	**21**	**4.762**	**No**	**0.001254**	**Param Intra 1 of 2**
Boron (ug/L)	**MW-7**	**3730**	**n/a**	**7/17/2025**	**4830**	**Yes**	**21**	**0**	**n/a**	**0.003999**	**NP Intra (normality) ...**
pH (S.U.)	**MW-2**	**6.445**	**6.025**	**7/17/2025**	**6.02**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	**MW-7**	**7.437**	**7.168**	**7/17/2025**	**7.16**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	**MW-9**	**7.609**	**7.023**	**7/17/2025**	**6.86**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	**MW-1R**	**6.686**	**6.387**	**7/17/2025**	**6.35**	**Yes**	**15**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
Sulfate (mg/L)	**MW-7**	**295**	**n/a**	**7/17/2025**	**444**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**
Total Dissolved Solids (mg/L)	**MW-7**	**610.5**	**n/a**	**7/17/2025**	**758**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**

Prediction Limit

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background Printed 1/12/2026, 10:05 AM

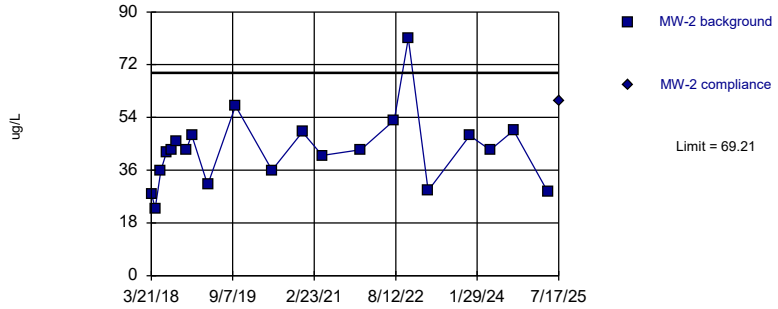
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (ug/L)	MW-2	69.21	n/a	7/17/2025	59.8	No	21	0	No	0.001254	Param Intra 1 of 2
Boron (ug/L)	**MW-3**	**36.05**	**n/a**	**7/17/2025**	**39.8**	**Yes**	**21**	**4.762**	**No**	**0.001254**	**Param Intra 1 of 2**
Boron (ug/L)	**MW-7**	**3730**	**n/a**	**7/17/2025**	**4830**	**Yes**	**21**	**0**	**n/a**	**0.003999**	**NP Intra (normality) ...**
Boron (ug/L)	MW-9	6272	n/a	7/17/2025	4340	No	21	0	No	0.001254	Param Intra 1 of 2
Boron (ug/L)	MW-1R	4611	n/a	7/17/2025	2710	No	15	0	No	0.001254	Param Intra 1 of 2
Boron (ug/L)	MW-10	434.6	n/a	7/17/2025	303	No	12	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-2	24.89	n/a	7/17/2025	18.2	No	21	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-3	19.56	n/a	7/17/2025	13.4	No	21	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-7	146.8	n/a	7/17/2025	142	No	21	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-9	111.3	n/a	7/17/2025	68.8	No	18	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-1R	119.7	n/a	7/17/2025	66	No	15	0	No	0.001254	Param Intra 1 of 2
Calcium (mg/L)	MW-10	96.22	n/a	7/17/2025	71.8	No	12	0	x^5	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-2	7.584	n/a	7/17/2025	4.77	No	21	0	No	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-3	4	n/a	7/17/2025	4ND	No	21	28.57	n/a	0.003999	NP Intra (normality) ...
Chloride (mg/L)	MW-7	15.08	n/a	7/17/2025	11	No	21	0	sqrt(x)	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-9	21.36	n/a	7/17/2025	13	No	21	0	No	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-1R	20.91	n/a	7/17/2025	10.5	No	15	0	No	0.001254	Param Intra 1 of 2
Chloride (mg/L)	MW-10	24.81	n/a	7/17/2025	9.85	No	12	0	x^2	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	MW-2	0.336	n/a	7/17/2025	0.07J	No	21	71.43	n/a	0.003999	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-3	0.386	n/a	7/17/2025	0.18J	No	21	57.14	n/a	0.003999	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-7	0.8404	n/a	7/17/2025	0.63	No	21	0	No	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	MW-9	1.253	n/a	7/17/2025	0.64	No	21	0	No	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	MW-1R	0.366	n/a	7/17/2025	0.14J	No	15	73.33	n/a	0.007533	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-10	0.42	n/a	7/17/2025	0.28	No	12	8.333	n/a	0.01077	NP Intra (normality) ...
pH (S.U.)	**MW-2**	**6.445**	**6.025**	**7/17/2025**	**6.02**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	MW-3	6.962	6.26	12/9/2025	6.572	No	12	0	No	0.000...	Param Intra 1 of 2
pH (S.U.)	**MW-7**	**7.437**	**7.168**	**7/17/2025**	**7.16**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	**MW-9**	**7.609**	**7.023**	**7/17/2025**	**6.86**	**Yes**	**21**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	**MW-1R**	**6.686**	**6.387**	**7/17/2025**	**6.35**	**Yes**	**15**	**0**	**No**	**0.000...**	**Param Intra 1 of 2**
pH (S.U.)	MW-10	7.258	6.673	7/17/2025	6.93	No	12	0	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	MW-2	22.25	n/a	7/17/2025	13.3	No	21	0	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	MW-3	22.63	n/a	7/17/2025	10ND	No	21	4.762	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	**MW-7**	**295**	**n/a**	**7/17/2025**	**444**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**
Sulfate (mg/L)	MW-9	282.1	n/a	7/17/2025	208	No	21	0	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	MW-1R	282.5	n/a	7/17/2025	161	No	15	0	No	0.001254	Param Intra 1 of 2
Sulfate (mg/L)	MW-10	224.1	n/a	7/17/2025	119	No	12	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-2	252.9	n/a	7/17/2025	104	No	20	0	ln(x)	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-3	168.2	n/a	7/17/2025	98	No	21	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	**MW-7**	**610.5**	**n/a**	**7/17/2025**	**758**	**Yes**	**21**	**0**	**No**	**0.001254**	**Param Intra 1 of 2**
Total Dissolved Solids (mg/L)	MW-9	639.2	n/a	7/17/2025	506	No	21	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-1R	582.8	n/a	7/17/2025	380	No	15	0	No	0.001254	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-10	523.7	n/a	7/17/2025	412	No	12	0	No	0.001254	Param Intra 1 of 2

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=42.8, Std. Dev.=12.61, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9064, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

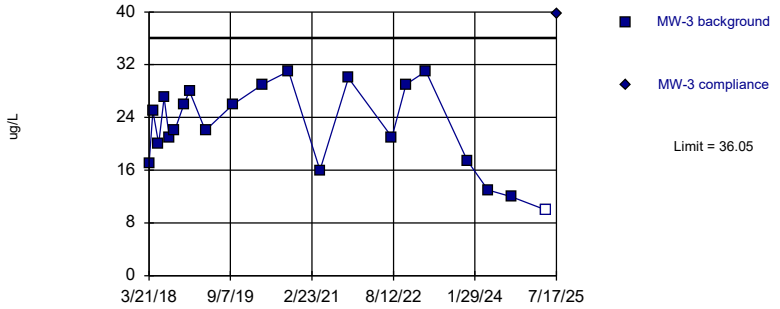
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Hollow symbols indicate censored values.

Exceeds Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=22.54, Std. Dev.=6.454, n=21, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9423, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

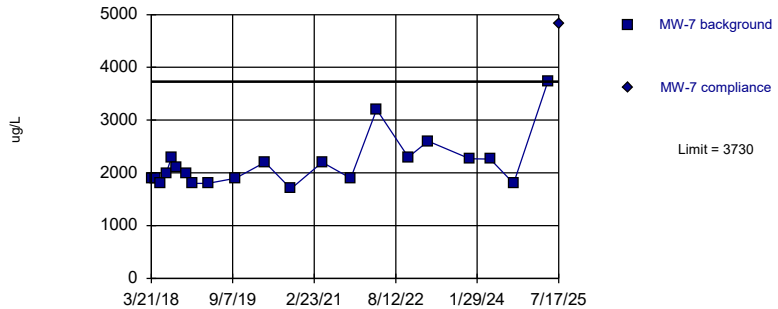
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Exceeds Limit

Boron

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

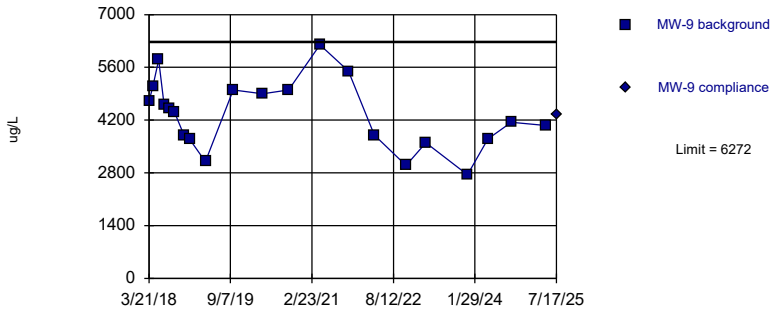
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=4350, Std. Dev.=918, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9821, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

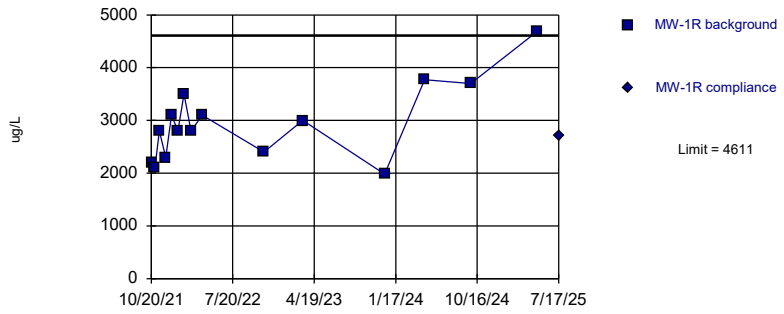
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=2949, Std. Dev.=738.3, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9392, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

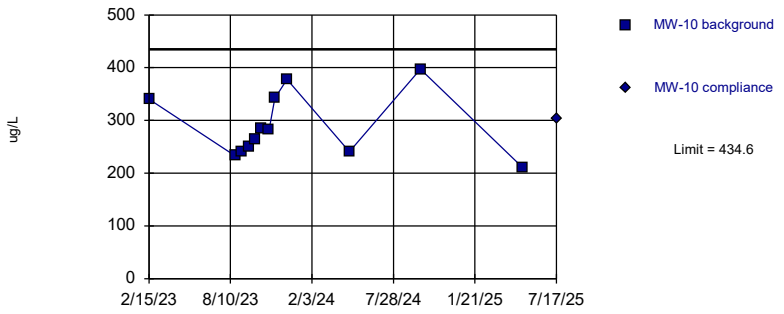
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Boron

Intrawell Parametric



Background Data Summary: Mean=288.4, Std. Dev.=61.29, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9106, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

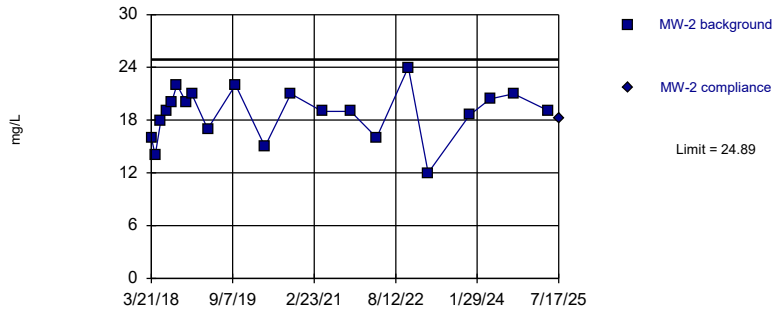
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=18.77, Std. Dev.=2.924, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

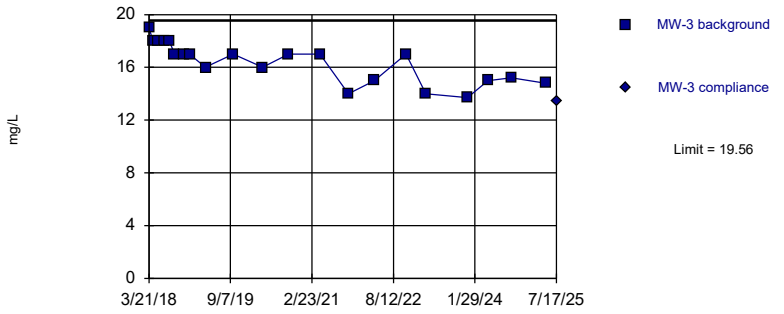
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=16.37, Std. Dev.=1.526, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9287, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

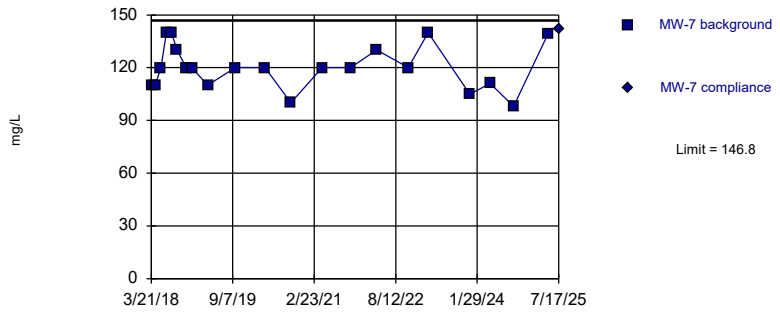
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=120.1, Std. Dev.=12.75, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9192, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

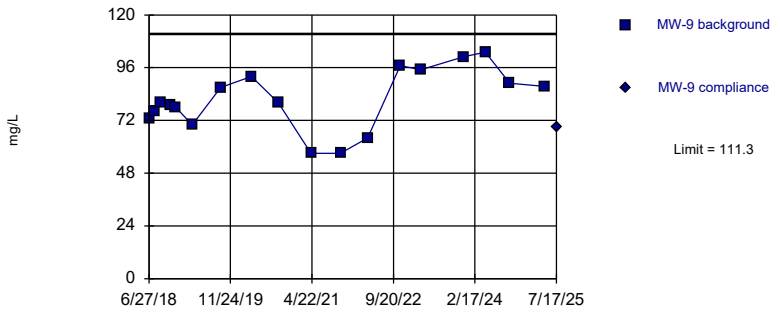
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=81.41, Std. Dev.=13.85, n=18. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9629, critical = 0.897. Kappa = 2.157 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

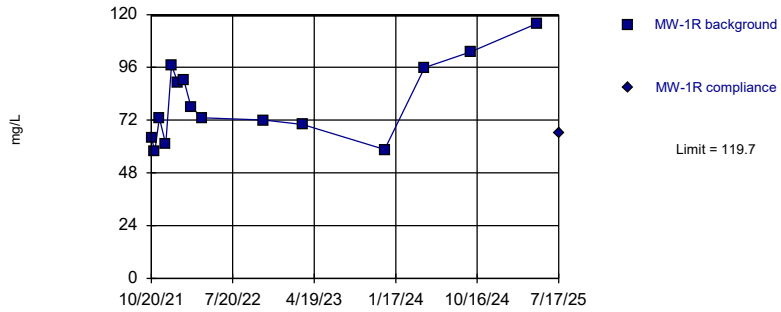
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Within Limit

Calcium

Intrawell Parametric



Background Data Summary: Mean=79.9, Std. Dev.=17.67, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.935, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

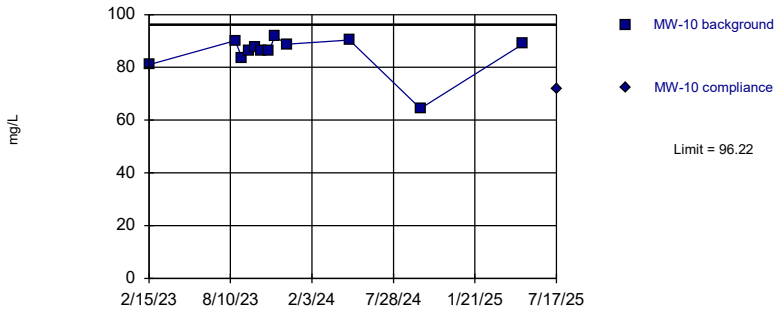
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Within Limit

Calcium

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=4.8e9, Std. Dev.=1.4e9, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8609, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

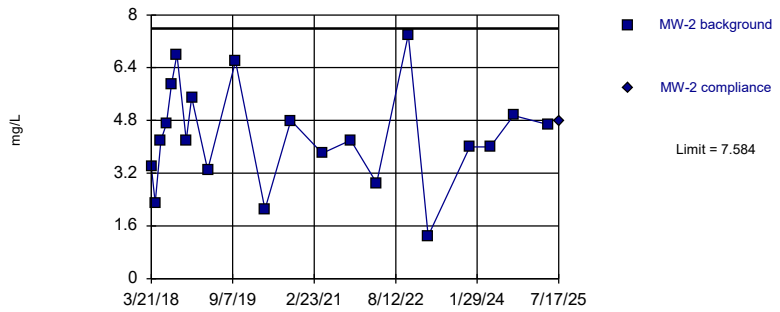
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary: Mean=4.335, Std. Dev.=1.552, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9808, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

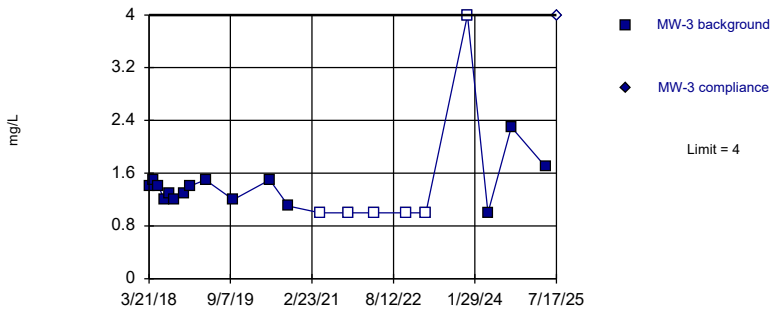
Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Hollow symbols indicate censored values.

Within Limit

Chloride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 28.57% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

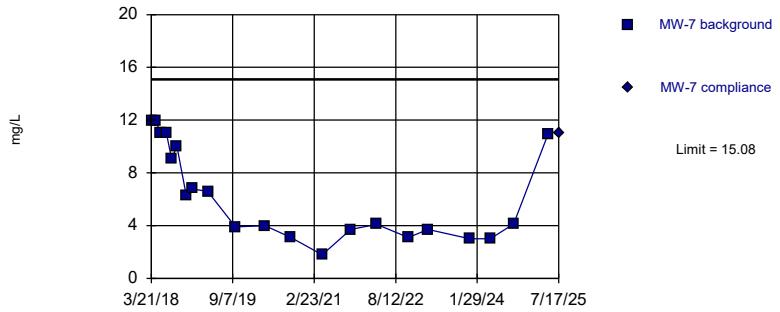
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Within Limit

Chloride

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=2.425, Std. Dev.=0.6962, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8852, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

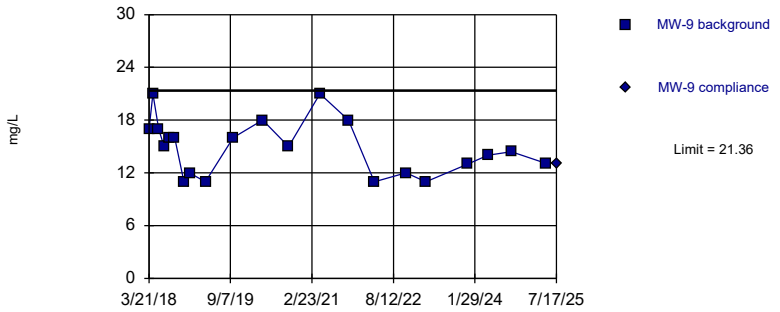
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary: Mean=14.88, Std. Dev.=3.096, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9321, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

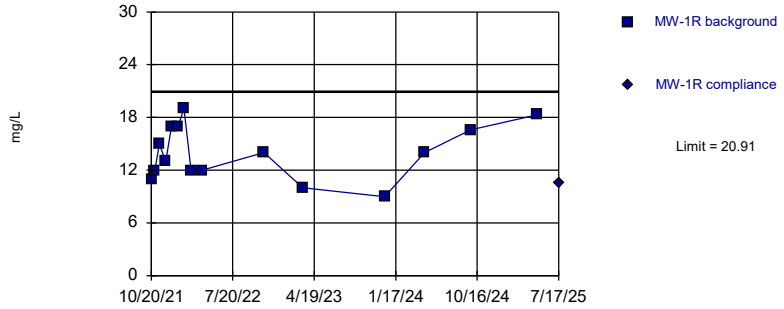
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary: Mean=13.99, Std. Dev.=3.073, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9586, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

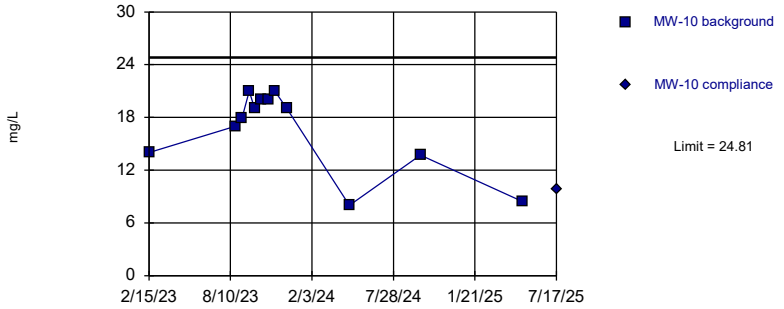
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Chloride

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=294.6, Std. Dev.=134.6, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8831, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

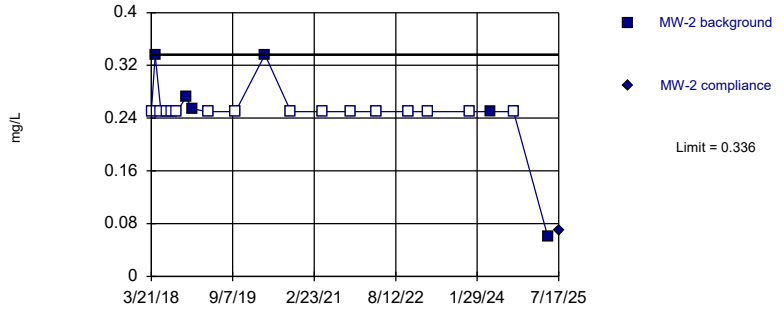
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

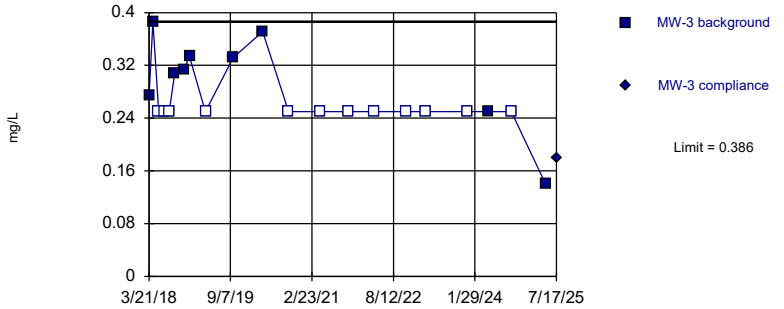
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG
Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

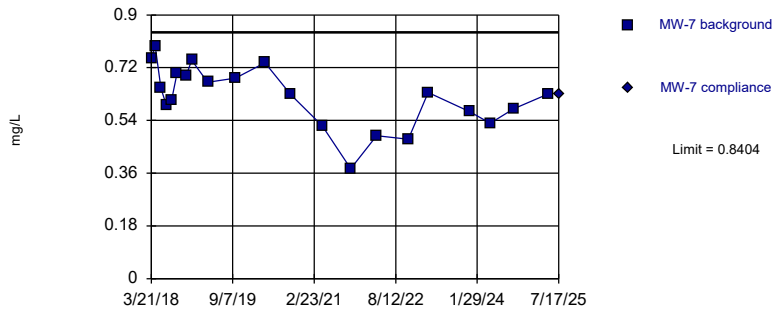
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Fluoride

Intrawell Parametric



Background Data Summary: Mean=0.6219, Std. Dev.=0.1043, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9773, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

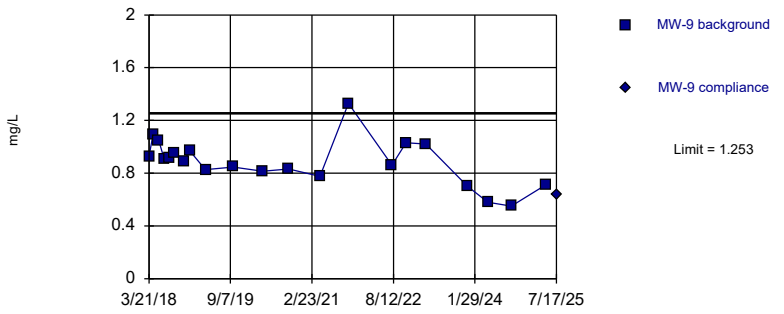
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Fluoride

Intrawell Parametric



Background Data Summary: Mean=0.885, Std. Dev.=0.1758, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9692, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

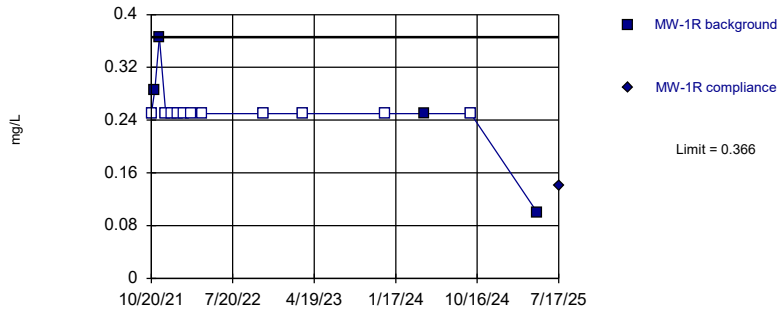
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Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 73.33% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

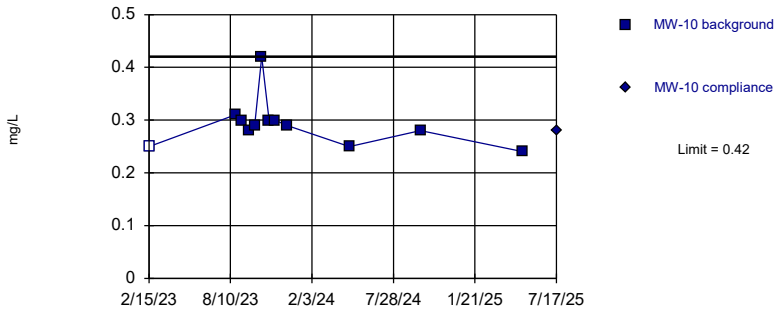
Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Hollow symbols indicate censored values.

Within Limit

Fluoride

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 12 background values. 8.333% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

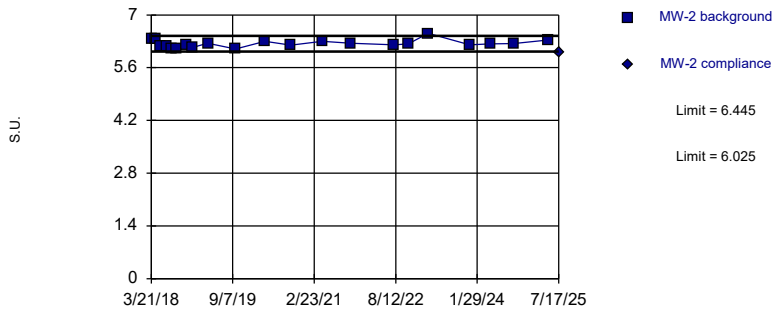
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Exceeds Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.235, Std. Dev.=0.1004, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9426, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

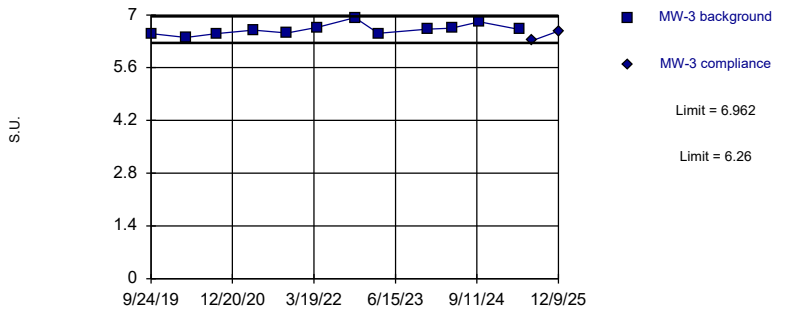
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.611, Std. Dev.=0.1472, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9199, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

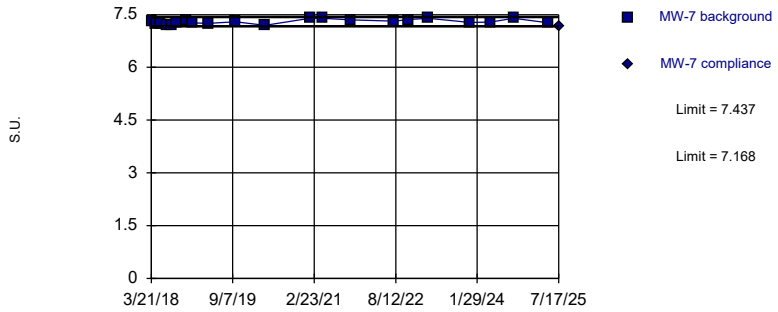
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Exceeds Limits

pH

Intrawell Parametric



Background Data Summary: Mean=7.302, Std. Dev.=0.06418, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9304, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

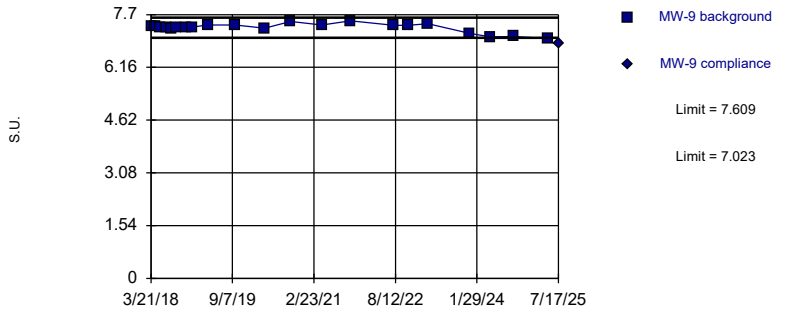
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Exceeds Limits

pH

Intrawell Parametric



Background Data Summary: Mean=7.316, Std. Dev.=0.1399, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8736, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

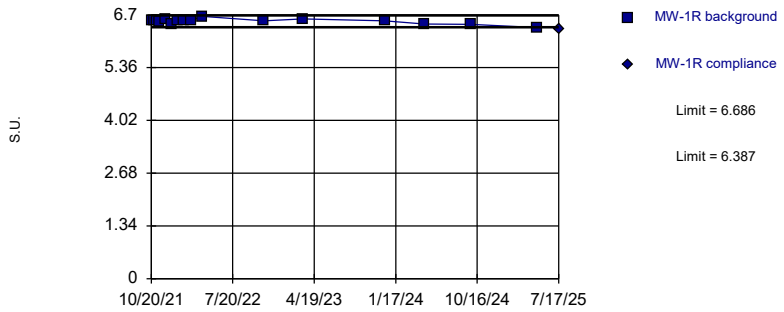
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Exceeds Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.537, Std. Dev.=0.0664, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.914, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

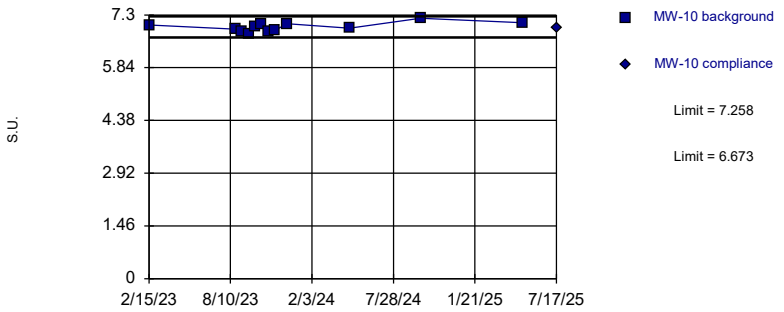
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limits

pH

Intrawell Parametric



Background Data Summary: Mean=6.966, Std. Dev.=0.1227, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9632, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

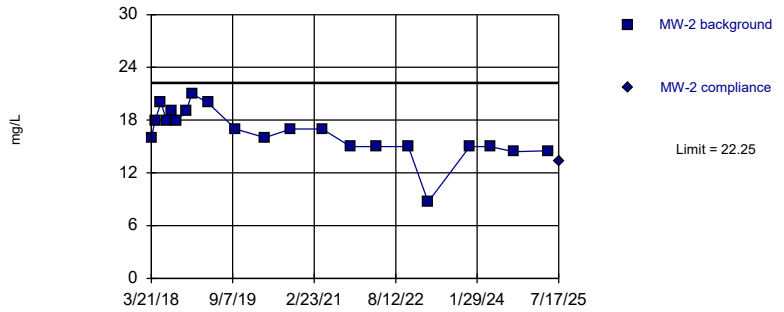
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

Sanitas™ v.10.1.03a Software licensed to GREDELL Engineering. UG

Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=16.6, Std. Dev.=2.698, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9122, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

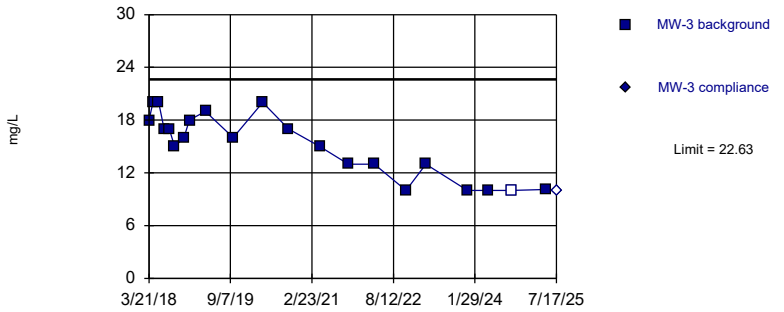
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Hollow symbols indicate censored values.

Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=15.1, Std. Dev.=3.597, n=21, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9015, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

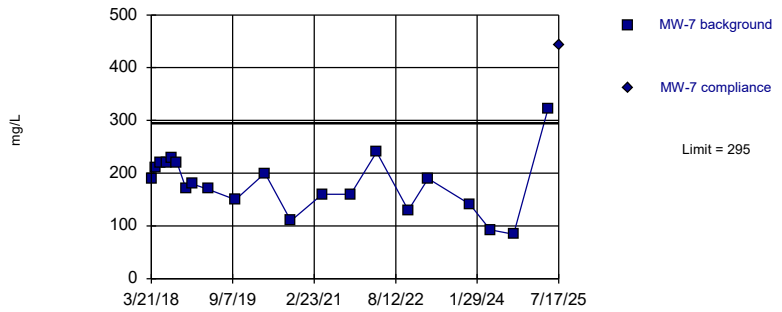
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Exceeds Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=180.4, Std. Dev.=54.69, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9668, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

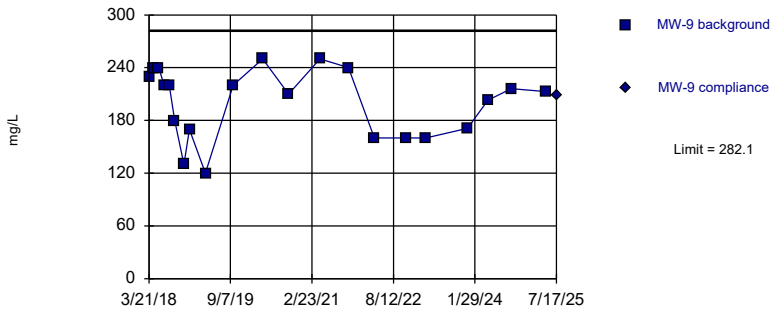
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=200.1, Std. Dev.=39.16, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9208, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

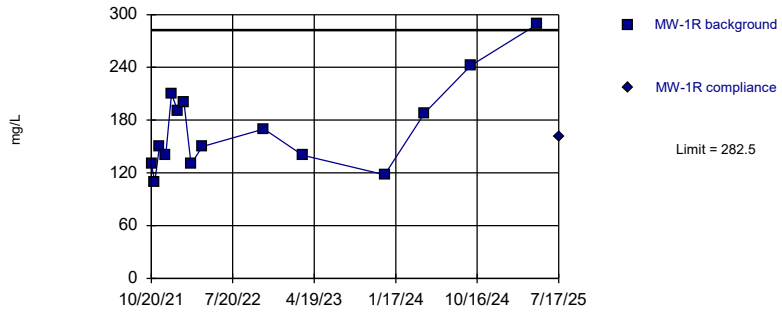
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=170.5, Std. Dev.=49.76, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9153, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

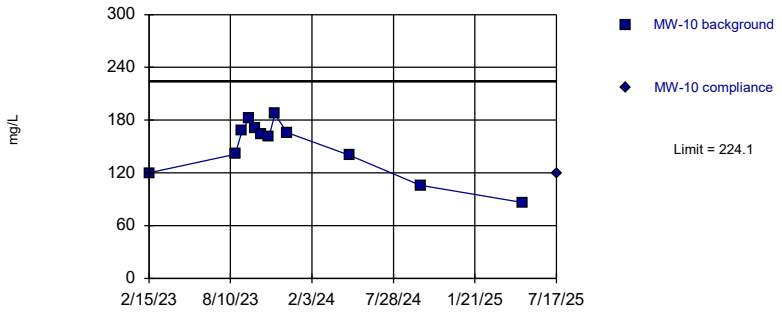
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Sulfate

Intrawell Parametric



Background Data Summary: Mean=149.4, Std. Dev.=31.34, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9113, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

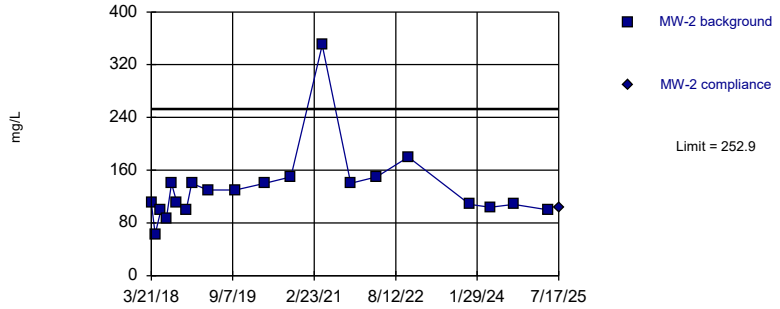
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.82, Std. Dev.=0.3381, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8822, critical = 0.868. Kappa = 2.108 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

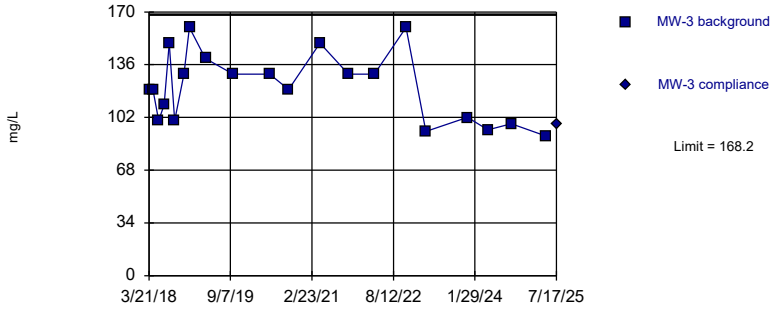
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=121.8, Std. Dev.=22.19, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9338, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

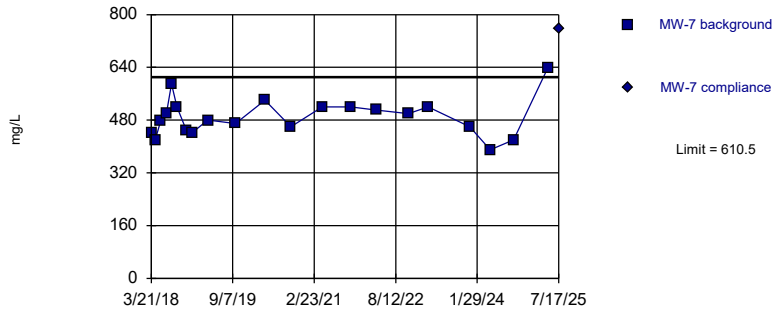
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Exceeds Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=489, Std. Dev.=58.04, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9541, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

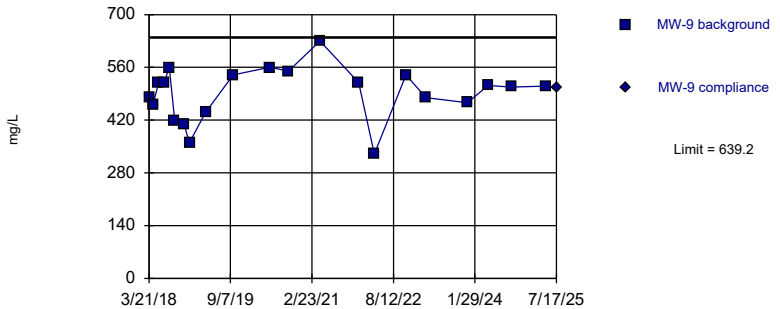
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=491.2, Std. Dev.=70.66, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9568, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

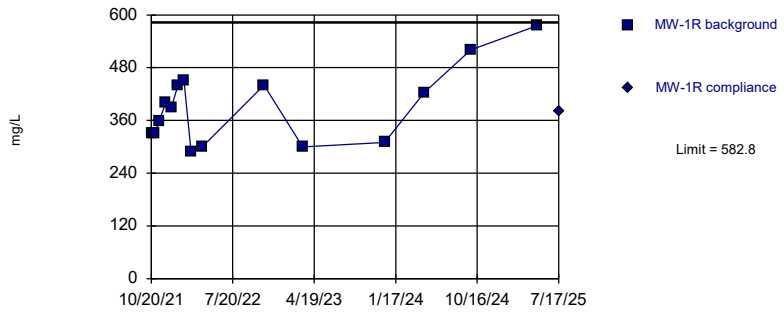
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=390.7, Std. Dev.=85.38, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9221, critical = 0.881. Kappa = 2.25 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

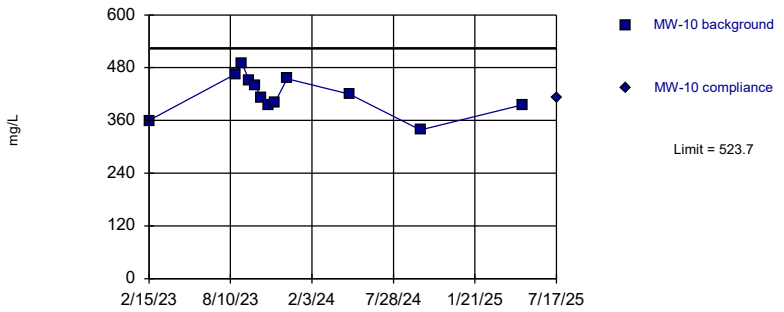
SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background

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Within Limit

Total Dissolved Solids

Intrawell Parametric



Background Data Summary: Mean=418.3, Std. Dev.=44.17, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9791, critical = 0.859. Kappa = 2.385 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Prediction Limit Analysis Run 1/12/2026 10:02 AM View: Corrective Action

SBMU-Sikeston Power Station Client: GREDELL Engineering Data: SikestonFAP Background