

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:)
) AS 2021-008
PETITION OF AMEREN ENERGY MEDINA)
VALLEY COGEN, LLC (OLD MEREDOSIA))
FOR ADJUSTED STANDARDS) (Adjusted Standard-Land)
FROM 35 ILL ADM. CODE Part 845)

NOTICE OF ELECTRONIC FILING

To: See attached service list.

PLEASE TAKE NOTICE that I have today filed with the Office of the Clerk of the Illinois Pollution Control Board the ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S RESPONSE TO PETITIONER'S REQUEST TO STAY PROCEEDINGS AND TO EXTEND THE DISCOVERY DEADLINE.

Respectfully Submitted,

ILLINOIS ENVIRONMENTAL
PROTECTION AGENCY

Dated: January 17, 2025

By: /s/ Sara Terranova
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CERTIFICATE OF SERVICE

I, the undersigned, hereby certify that I have electronically served the ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S RESPONSE TO PETITIONER'S REQUEST TO STAY PROCEEDINGS AND TO EXTEND THE DISCOVERY DEADLINE on January 17, 2025, to the following:

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ILLINOIS ENVIRONMENTAL PROTECTION
AGENCY

Dated: January 17, 2025

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**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY’S RESPONSE TO
PETITIONER’S REQUEST TO STAY PROCEEDINGS AND TO EXTEND THE
DISCOVERY DEADLINE**

NOW COMES the Illinois Environmental Protection Agency (“Agency” or “Illinois EPA”), by and through one of its attorneys, Sara G. Terranova, pursuant to 35 Ill. Adm. Code 101.500(d), and hereby provides this response to the request by Ameren Energy Medina Valley Cogen, LLC (“Petitioner”) to stay these proceedings and to extend the discovery deadline. The Agency respectfully urges the Illinois Pollution Control Board (“Board”) to DENY Petitioner’s Motions. In support of this request, the Illinois EPA states as follows:

I. Procedural Background

On December 19, 2024, Petitioner filed motions requesting both a stay of the proceeding and an extension of the discovery deadline to conduct a treatability study. Specifically, Petitioner seeks a 180-day stay of Adjusted Standard proceeding to conduct a treatability study aimed at finding an in-situ groundwater treatment option that preserves the existing ecosystem. *See Ameren Energy Median Valley Cogen LLC’s Motion for a 180-Day Stay*. PCB AS 2021-008. (December 19, 2024). In addition, Petitioner states that the study’s results might require additional discovery and therefore requests extending the discovery deadline to 90 days after either the stay’s conclusion or the Board’s decision on the stay, whichever is later. *See Ameren Energy Median Valley Cogen LLC’s Motion to Extend Discovery*. (“Motion to Extend Discovery”) PCB AS 2021-008 (December 19, 2024).

II. Reasons for Opposing the Stay Request and Discovery Extension

Illinois EPA opposes the Petitioner's request for a stay in the Adjusted Standard proceeding and for an extension of the discovery deadline for the following reasons:

a) Concession of Inactive CCRSI Status

The Petitioner conceded that the Old Meredosia Pond is an inactive Coal Combustion Residuals Surface Impoundment (CCRSI) (*see* Motion to Extend Discovery at 1, ¶ 3). This recognition subjects the Petitioner to the comprehensive requirements for closure, groundwater monitoring, and post-closure care as dictated by 35 Ill. Adm Code 845 (Part 845). *See* 35 Ill. Adm. Code 845.100(c).

b) Regulatory Frameworks and Compliance Obligations

Although the Petitioner's designation under federal regulations has not yet been formally established as a Legacy CCRSI or a CCR Management Unit¹, the closure and monitoring standards under 40 CFR 257 (Part 257) are substantially similar to those under Part 845. Regardless of the framework – State or federal, the Petitioner is bound by stringent environmental protection standards, which the proposed treatability study fails to address.

c) Insufficiency of Treatability Study

The proposed treatability study lacks detailed specifications about its scope, methodology, and expected results. It fails to meet the existing closure, monitoring and post-closure requirements mandated under both Part 845 and Part 257. The study does not adequately address the

¹ The federal rule, Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals From Electric Utilities; Legacy CCR Surface Impoundments, 89 Fed. Reg. 38950 (May 8, 2024), established the following definitions and requirements: A "Legacy CCR Surface Impoundment" means a CCR surface impoundment that no longer receives CCR but contained both CCR and liquids on or after October 19, 2015, and that is located at an inactive electric utility or independent power or producer. A "CCR Management Unit" means any area of land on which any noncontainerized accumulation of CCR is received, is placed, or is otherwise managed, that is not a regulated CCR unit. This includes inactive CCR landfills and CCR units that closed prior to October 19, 2015. Facilities are required to self-assess to determine if their units meet these classifications and comply with applicable regulatory requirements. *See* 40 CFR 257.53 and 257.75.

comprehensive environmental safeguards required by these regulations, nor does it substitute the mandated procedural and remedial actions needed for compliance.

III. Regulatory Obligations Under State and Federal Law

a) Obligations as an Inactive CCRSI Under 35 Ill. Adm. Code 845

As a recognized inactive CCRSI under Part 845, the Petitioner is subject to comprehensive requirements under Part 845, including:

i) Closure Requirements

Petitioner must either close by removal under Section 845.740 or install a final cover system to isolate CCR material under Section 845.750. *See* 35 Ill. Adm. Code Sections 845.740 and 845.750.

ii) Groundwater Monitoring

Petitioner must maintain a robust groundwater monitoring system, including quarterly sampling and take corrective actions if contamination exceeds groundwater protection standards. *See* 35 Ill. Adm. Code Sections 845.620; 845.650; and 845.660.

iii) Post Closure Care

Post-closure care must continue for a minimum of 30 years or until groundwater protection standards are met. *See* 35 Ill. Adm. Code Sections 845.680.

b) Federal Regulatory Considerations under Part 257

While the Petitioner's status under federal regulations as a legacy CCRSI or a CCRMU has not been definitively established, the closure and monitoring requirements under Part 257 align closely with those of Part 845. Key obligations include:

i) Closure and Post-Closure Care

Similar to Part 845 federal requirements mandate either the removal or isolation of CCR materials, robust groundwater monitoring, and long-term post-closure care to ensure the containment and monitoring of contaminants. *See* 40 CFR 257.102.

ii) Groundwater Monitoring Requirements

A) Groundwater Monitoring System

The installation and maintenance of a comprehensive system to detect and evaluate any potential leakage from CCR units. *See* 40 CFR 257.91.

B) Sampling and Analysis

Regular sampling and analysis to ensure ongoing compliance with environmental standards, with stringent requirements for monitoring frequency and constituent analysis. *See* 40 CFR 257.94 and 257.95.

C) Corrective Action

Federal regulations require the prompt initiation of corrective actions if groundwater protection standards are exceeded, ensuring that any exceedances are addressed quickly to mitigate environmental and health risks. *See* 40 CFR 257.96.

These federal requirements align closely with those under Illinois's regulations, establishing a cohesive framework that ensures rigorous environmental protection and safety standards across both State and federal levels. The specific requirements for monitoring and corrective actions under federal law complement the closure and post-closure care requirements, creating a comprehensive regulatory approach for the management of CCR materials.

IV. Current Compliance Deficiencies and Treatability Study Insufficiencies

a) Current Compliance Deficiencies

Petitioner has not installed a final cover system as required under Section 845.750 and has significant deficiencies in its groundwater monitoring program. Specifically, monitoring wells MW13 and MW14 are improperly constructed and fail to consistently collect groundwater samples. Quarterly monitoring has been inadequate, with no sample results from MW14 over the past two years. Monitoring well 8 has consistently exceeded groundwater protection standards for boron and selenium. (See 2023 Groundwater Monitoring Annual Report, “Attachment A”).

b) Treatability Study Insufficiency

The proposed treatability study lacks detailed specifications about its scope, methodology, or anticipated outcomes. It fails to address the aforementioned deficiencies and does not meet the existing closure, monitoring, and post-closure requirements mandated under both 35 Ill. Adm. Code Part 845 and 40 CFR 257. The study does not adequately substitute for the comprehensive environmental safeguards required by these regulations.

V. Conclusion

Granting the requested stay would unnecessarily delay compliance efforts, exacerbate existing environmental risks, and overlook the known deficiencies in the Petitioner’s closure and groundwater monitoring programs. By conceding that Old Meredosia Pond is an inactive CCRSI and given the parallel regulatory requirements under State and federal regulations, the proposed treatability study does not adequately address these fundamental obligations.

Wherefore, the Illinois EPA respectfully requests that the Board DENY Petitioner’s request to stay these proceedings and to extend the discovery deadline.

Respectfully submitted,
ILLINOIS ENVIRONMENTAL
PROTECTION AGENCY

Dated: January 17, 2025

By: /s/ Sara G. Terranova
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Attachment

A

Intended for

AmerenEnergy Medina Valley CoGen, LLC

Date

January 29, 2024

Project No.

1940102568

**2023 GROUNDWATER MONITORING
ANNUAL REPORT
CLOSED FLY ASH & BOTTOM ASH PONDS
FORMER MEREDOSIA POWER STATION**



Bright ideas. Sustainable change.

**2023 GROUNDWATER MONITORING ANNUAL REPORT
CLOSED FLY ASH & BOTTOM ASH PONDS
FORMER MEREDOSIA POWER STATION**

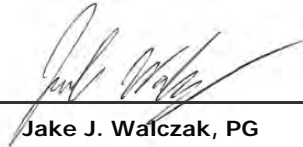
Project name **Former Meredosia Power Station**
Project no. **1940102568**
Recipient **AmerenEnergy Medina Valley CoGen, LLC**
Document type **2023 Annual Report**
Revision **0**
Version **Final**
Date **January 29, 2024**
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ACRONYMS AND ABBREVIATIONS

Ameren	AmerenEnergy Medina Valley Cogen, LLC
Class I Groundwater Standard	Groundwater Quality Standards for Class I: Potable Resource Groundwater (35 IAC 620.410)
ft/ft	feet per foot
GMZ	Groundwater Management Zone
GMP	Groundwater Monitoring Plan
HDPE	High-density polyethylene
IAC	Illinois Administrative Code
IEPA	Illinois Environmental Protection Agency
Meredosia	Former Meredosia Power Station
mg/L	milligrams per liter
TDS	total dissolved solids
Ameren	AmerenEnergy Medina Valley Cogen, LLC

1. INTRODUCTION

1.1 Background

This 2023 Annual Report has been prepared for AmerenEnergy Medina Valley Cogen, LLC (Ameren) to summarize groundwater monitoring results at the closed Fly Ash and Bottom Ash Ponds at the Former Meredosia Power Station (Meredosia, **Figure 1-1**). The Old Ash Pond was decommissioned and capped during the 1970s (Kleinfelder West, Inc., 2011), and is not addressed in this groundwater monitoring program. Ameren completed closure activities for the Fly Ash and Bottom Ash Ponds in December 2018 in accordance with the Closure Plan (Geotechnology, Inc., 2018a) and requirements of Title 35 of the Illinois Administrative Code (IAC) Part 840. Closure activities, which included grading, placement of a high-density polyethylene (HDPE) geomembrane covered with ClosureTurf®/ArmorFill® synthetic turf, and construction of surface water control structures, began in March 2018 and were completed as of December 5, 2018. The Power Station ceased operations in 2011 and the former power block area was sold in 2019.

The current groundwater monitoring network comprises of 14 monitoring wells, including five installed during October 2010 (APW-1 through APW-5), four installed during October 2015 (APW-6 through APW-9), three installed during August 2018 (APW-10 through APW-12), and two installed during July 2021 (APW-13 and APW-14). Monitoring wells APW-1 through APW-5 were initially sampled from 2010 to 2012. Beginning in June 2017, and in accordance with the Groundwater Monitoring Plan (GMP) dated December 14, 2016 (Geotechnology, Inc.), groundwater sampling was restarted and conducted quarterly at monitoring wells APW-1 through APW-9. Beginning in September 2018, and in accordance with the GMP, monitoring wells APW-10, APW-11, and APW-12 were added to the monitoring well network for quarterly sampling. Monitoring wells APW-13 and APW-14 were similarly added to the monitoring well network in July 2021. Monitoring wells were installed to define the lateral extent of impacts on site, as well as to assist in future groundwater monitoring of remedial actions. Locations of all monitoring wells are shown on **Figure 1-2**.

In conjunction with Ameren's request for approval of the Closure Plan, Ameren submitted the Groundwater Management Zone Plan, Fly Ash and Bottom Ash Pond, Meredosia Power Station (Geotechnology, Inc., 2016b) and a request to establish the Groundwater Management Zone (GMZ) pursuant to 35 IAC § 620.250(a)(2): Ash Ponds Closure, Groundwater Management Zone Application, dated October 17, 2017, which was approved by the Illinois Environmental Protection Agency (IEPA) on November 1, 2017.

The GMP, in accordance with 35 IAC § 840.114 and 35 IAC § 840.116, outlines groundwater monitoring and sampling procedures, establishes the parameters and methods to be used for analyzing the groundwater samples, and describes evaluation methods to assess post-closure groundwater quality and trends to demonstrate compliance with the applicable groundwater standards. The Groundwater Monitoring Program Schedule is provided in **Table 1-1**.

Monitoring well installation date, construction details, monitoring objective, position relative to the Fly Ash and Bottom Ash Ponds, and groundwater zone monitored are provided in **Table 1-2**. Field and laboratory parameters for evaluating groundwater quality are shown in **Table 1-3**.

Seven quarterly rounds of pre-closure groundwater data and twenty quarterly rounds of post-closure data have been collected between January 2019 and December 2023 to satisfy

requirements of the GMP (Geotechnology, Inc., 2016a). This is the seventh annual report for Meredosia since groundwater monitoring restarted in 2017. This annual report includes the following elements:

- A summary of post-closure groundwater monitoring data collected during 2022 and 2023 (**Appendix A**).
- Methodology for the outlier and trend analyses along with the results for these analyses (**Appendix B**).
- Quarterly Site Inspection Forms, including observations and descriptions of any maintenance activities performed on the pond cap, embankment, roadway, and remaining basin (**Appendix C**).

1.2 Groundwater Quality Overview – 2019 to 2023

1.2.1 Summary of Cover System Construction and Maintenance

Inspections of the cover system at the Fly Ash Pond and embankment at the Bottom Ash Pond are performed quarterly. Routine maintenance is completed as needed, as soon as practicable, after issues are identified and may include recontouring the ground surface, repairing drainage channels, repairing and replacing lining material, revegetating areas, and removing woody vegetation. Maintenance activities can be found in more detail in the Post-Closure Care Plan (Geotechnology, Inc., 2018b) and **Appendix C**.

1.2.2 Summary of Post-Closure Groundwater Quality Data

Post-closure (2019 to 2023) groundwater quality data were assessed to evaluate overall groundwater condition and cover system performance. This assessment was performed independently from the compliance evaluations required by the GMP, which are focused on specific compliance criteria and proposed mitigation actions. This assessment is intended as a holistic review of groundwater quality since closure.

Arsenic and boron are identified in the Closure Plan as the primary indicator constituents for coal ash leachate impacts to groundwater at the Fly Ash Pond and Bottom Ash Pond. As such, arsenic and boron are the focus of this groundwater quality data review.

Dissolved and total arsenic concentration time series since 2019 are presented in **Figures 1-3 through 1-14**. Time series for monitoring wells APW-13 and APW-14 are not included because the wells are frequently dry and there is not enough concentration data to include these wells in this assessment. The lines through the concentration data on the figures represent the best fit linear regressions for arsenic concentrations in each well. These best fit linear regression lines are included in the figures to provide a convenient means of evaluating general post-closure concentration patterns. The regression lines are not equivalent to the groundwater compliance statistical trends discussed in **Section 3.3**. Arsenic concentrations in downgradient compliance wells have generally been stable or decreasing since closure and are currently less than the 35 IAC § 620.410 Class I Groundwater Standard in the majority of the compliance groundwater monitoring wells in 2023, with the following exceptions:

- APW-3 – dissolved and total arsenic concentrations are greater than the Class I Groundwater Standard, but both exhibit stable concentration patterns.

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- APW-4 – dissolved and total arsenic concentrations have decreased below the Class I Groundwater Standard in mid-2023 and continue to decline.

Dissolved and total boron concentration time series since 2019 are presented in **Figures 1-15 through 1-26**. Generally, dissolved and total boron concentrations in downgradient compliance wells have been stable or decreasing since 2019 and are less than the 35 IAC § 620.410 Class I Groundwater Standard in 2023, with the following exceptions:

- APW-3 – dissolved and total boron concentrations are greater than the Class I Groundwater Standard, but both exhibit stable concentration patterns.

Other wells in the monitoring network exhibit increasing concentrations above the Class I Groundwater Standard (i.e., APW-10 and APW-11), but are located hydraulically upgradient of the closed Fly Ash and Bottom Ash Ponds (**Figures 3-1 through 3-4**). Midgradient well APW-8, also located hydraulically upgradient of the closed Fly Ash and Bottom Ash Ponds, exhibits dissolved and total boron concentrations above Class I Groundwater Standard but concentrations are decreasing. Consequently, it is not likely the closed Fly Ash and Bottom Ash Ponds are contributing to the elevated and/or increasing dissolved and total boron concentrations observed at these wells.

1.2.3 Conclusion

The stable or decreasing indicator constituent concentrations (arsenic and boron) in the downgradient compliance monitoring wells across the site are a strong indication that the cover system is functioning as designed to improve overall groundwater quality beneath the closed Fly Ash and Bottom Ash Ponds.

2. GROUNDWATER MONITORING PLAN COMPLIANCE

2.1 Applicable Groundwater Quality Standards

2.1.1 On-Site Groundwater Standards

Pursuant to 35 IAC § 620.450(a), the on-site groundwater quality shall be restored to the Groundwater Quality Standards for Class I: Potable Resource Groundwater (Class I Groundwater Standards) (35 IAC § 620.410).

If upon completion of the 30-year post-closure care period the observed concentrations in the site groundwater still exceed a Class I Groundwater Standard, the on-site standard may be adjusted, provided criteria are addressed to the satisfaction of the IEPA.

2.1.2 Off-Site Groundwater Standards

For off-site groundwater compliance, the Class I Groundwater Standards are also used (35 IAC § 620.410). A GMZ was requested and approved for Meredosia as part of the Closure Plan (Geotechnology, Inc., 2018a). The point of compliance wells for the subject property will be APW-2 and APW-3. These wells are located adjacent to the Illinois River and downgradient of the closed Fly Ash and Bottom Ash Ponds. If closure of the Fly Ash Pond and Bottom Ash Pond does not reduce the monitored constituent concentrations to levels less than the Class I Groundwater Standards, a plan for post-remediation monitoring will be submitted to the IEPA (Geotechnology, Inc., 2016b).

2.2 Demonstration of Compliance

Compliance is based on attainment of post-closure groundwater quality that meets the Class I Groundwater Standards, as set forth in 35 IAC § 620.410. Groundwater is in compliance when monitored constituent concentrations are less than the Class I Groundwater Standards and there are no short-term statistically significant increasing trends at the GMZ boundary compliance wells.

2.2.1 Compliance Determination

As described in Section 5.2 of the GMP (Geotechnology, Inc., 2016a):

- Compliance is determined by performing an annual trend analysis for each downgradient monitoring well (**Table 1-2**) for all constituents listed in **Table 1-3**. The analysis shall use Sen's estimate of the slope and be performed on a minimum of eight consecutive post-closure groundwater samples.
- If the results of sampling and trend analysis determine a positive slope at any downgradient monitoring well, a Mann-Kendall test will be performed at 95 percent confidence to determine whether or not the positive slope represents a statistically significant increasing trend. Ameren will investigate the cause of a statistically significant increasing trend as described below.
 - Notification of statistically significant increasing trends and revision to the sampling frequency must be reported to the IEPA within 30 days of making the determinations.
 - If the investigation attributes a statistically significant increasing trend to a superseding cause, Ameren will notify the IEPA in writing, stating the cause of the increasing trend and providing the rationale used in such a determination.

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- If there is no superseding cause and the statistically significant increasing trend continues to be observed for two or more consecutive years, a hydrogeologic investigation (and additional site investigation[s], if necessary) will be performed.
- Based on the outcome of the investigation above, Ameren will take action to mitigate statistically significant increasing trends that are causing, threatening, or allowing exceedances of off-site groundwater quality standards. Such actions will be proposed as a modification to the post-closure care plan within 180 days after completion of the investigation activities described above.

3. DATA ANALYSIS

3.1 Groundwater Flow

Groundwater elevation contour maps were generated for each quarterly sampling event (**Figures 3-1 through 3-4**). A timeseries of groundwater elevations from 2022 to 2023 is provided in **Figure 3-5** and shows a general decrease in elevations over time. Monitoring wells APW-13 and APW-14 were dry during all 2023 sampling events. Groundwater in the uppermost aquifer generally flows from east to west/northwest towards the Illinois River, which is consistent with past evaluations. No groundwater flow reversals were observed in 2023. Horizontal hydraulic gradients calculated along the flow path from midgradient monitoring well APW-8 to downgradient compliance well APW-2 ranged from 0.0001 to 0.0031 feet per foot (ft/ft) during 2023.

3.2 Review of Analytical Data (2022–2023)

Groundwater samples from the most recent eight post-closure monitoring events were collected on March 17, 2022; June 22, 2022; August 18, 2022; December 21, 2022; February 2, 2023; April 26, 2023; September 22, 2023; and November 8, 2023. All sampling dates and field and laboratory analytical results are tabulated in **Appendix A**. Sampling anomalies are noted below:

- Monitoring well APW-13 was dry or did not have adequate water for sampling with the exceptions of the first and second quarter of 2022, hence, the well was only sampled twice.
- Monitoring well APW-14 was not sampled because it was dry or did not have adequate water during all sampling events.

Results of groundwater monitoring during 2022 and 2023 for constituents that exceeded the 35 IAC § 620.410 Class I Groundwater Standard when the GMZ was established (arsenic, boron, iron, manganese, and sulfate) are summarized below:

- Arsenic is a coal ash indicator at the Fly Ash Pond and Bottom Ash Pond (see **Section 1.2.2**). Dissolved and total arsenic concentrations in monitoring wells during 2022 and 2023 are shown on **Figures 3-6A through 3-9B**.
 - Upgradient monitoring well (APW-1, APW-5, and APW-11) dissolved arsenic concentrations were all non-detect and total arsenic concentrations ranged from less than (<) 0.0010 to 0.0023 milligrams per liter (mg/L).
 - Midgradient monitoring well (APW-6, APW-7, APW-8, and APW-10) dissolved arsenic concentrations ranged from <0.0010 to 0.0023 mg/L and total arsenic concentrations ranged from <0.0010 to 0.059 mg/L.
 - Downgradient monitoring well (APW-2, APW-3, APW-4, APW-9, and APW-12) dissolved arsenic concentrations ranged from <0.0010 to 0.32 mg/L and total arsenic concentrations ranged from < 0.0010 to 0.36 mg/L.
- Boron is the primary indicator constituent for coal ash impacts to groundwater at the Fly Ash Pond and Bottom Ash Pond (see **Section 1.2.2**). Dissolved and total boron concentrations are shown on **Figures 3-10 through 3-13**.
 - Upgradient monitoring well (APW-1, APW-5, and APW-11) dissolved boron concentrations ranged from 0.039 to 4.1 mg/L and total boron concentrations ranged from <0.020 to 4.9 mg/L.

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- Midgradient monitoring well (APW-6, APW-7, APW-8, and APW-10) dissolved boron concentrations ranged from 0.10 to 7.0 mg/L and total boron concentrations ranged from 0.11 to 7.9 mg/L.
- Downgradient monitoring well (APW-2, APW-3, APW-4, APW-9, and APW-12) dissolved boron concentrations ranged from 0.079 to 22 mg/L and total boron concentrations ranged from 0.010 to 24 mg/L.
- Manganese and iron mobility are affected by fluctuations of oxidation-reduction conditions and pH, making them unreliable coal ash indicators at the site (Geotechnology, Inc., 2016b).
- Sulfate is a non-indicator constituent, however, similar to indicator parameters, sulfate concentrations are generally less than the Class I Groundwater Standard, as illustrated by the box-whisker and timeseries plots (**Figures 3-14 and 3-15**) and showed generally stable or decreasing trends during this reporting period (**Appendix B3**).

3.3 Statistical Analyses

Analytical data for downgradient wells (APW-2, APW-3, APW-4, APW-9, and APW-12) were evaluated to identify short-term (compliance) data trends in the 2022–2023 dataset. Trends were evaluated according to the procedure outlined in the GMP (Geotechnology, Inc., 2016a).

3.3.1 Outlier Analysis

The Grubbs outlier test determines whether there is statistical evidence of a high or low observation that differs significantly from the other data. The test methodology and results are listed in **Appendix B1 and B2**, respectively. Outliers identified during the compliance period (2022–2023) by the Grubbs outlier test based on the date range of 2010–2023 were not eliminated from further statistical analysis because there is no documentation indicating they are not representative of actual field conditions. In addition, these identified outliers did not have any influence on the short-term compliance trends.

3.3.2 Sen's Estimate of the Slope

Sen's estimate of the slope is a non-parametric estimator of trend. It is the median of all slopes between all possible unique pairs of individual data points in the time period being analyzed. The slopes represent the rate of change of the measured parameter, where the y-axis is the parameter value and the x-axis is calendar time. The method is robust, and fairly insensitive to the presence of a small fraction of outliers and non-detect data values. The test methodologies and results are listed in **Appendix B1 and B3**, respectively.

Six cases with positive slopes, six cases with negative slopes and fifteen cases with flat or no slopes were identified in the 2022-2023 datasets for downgradient compliance wells where one or more monitored constituent concentrations was above the Class I Groundwater Standard (**Table 3-1**). Sen's estimate of the slope was not determined for downgradient wells where all concentrations were below the Class I Groundwater Standard.

3.3.3 Mann-Kendall Trend Analysis

The six cases with positive Sen's slopes referenced above (see **Section 3.3.2**) were tested using the Mann-Kendall test to determine if the positive slopes represented statistically significant increasing trends. The Mann-Kendall test is a non-parametric, one-tailed test to determine

whether a dataset has a statistically significant increasing or decreasing trend. The test methodology and results are listed in **Appendix B1 and B3**, respectively.

The Mann-Kendall test did not determine any case of statistically significant increasing trend in the 2022–2023 dataset for downgradient compliance wells (**Table 3-1**).

3.4 Site Inspection

The Post-Closure Maintenance Program requires quarterly inspection for the first five years after closure (i.e., through 2023). After five years, the inspection frequency can be reduced to semi-annually provided that semiannual groundwater monitoring has been approved by IEPA. After five years of semiannual monitoring, the inspection frequency can be reduced to annually pending approval of annual groundwater monitoring. Discontinuance of site inspections will occur after IEPA approval of the certified Post-Closure Care Report.

Site inspections include assessment of the condition and need for repair of final cover, as wells as fencing, monitoring points, and surface water control features. The inspection reports from 2023 are included in **Appendix C**.

Site inspections were performed on March 7, 2023; April 18, 2023; September 1, 2023; and December 20, 2023. As noted in the 2022 Groundwater Monitoring Annual Report (Ramboll, 2023), a tear was observed in the ClosureTurf®/ArmorFill® synthetic turf towards the cap peak. A turf flap from the rip completely covers the HDPE geomembrane and no geomembrane damage was observed. The tear in the Closure Turf was repaired in 2023. Overall, all the components of the ClosureTurf®/ArmorFill® synthetic turf cover system are in good condition and will continue to be monitored as part of quarterly site inspections.

4. EVALUATION OF COMPLIANCE AND CONCLUSIONS

Cover system construction and maintenance, as well as stable or decreasing arsenic and boron concentrations in the majority of downgradient compliance monitoring wells across the site are strong indications that the cover system is functioning as designed to improve overall groundwater quality beneath the pond.

Statistical analyses of analytical results for groundwater samples collected during the 2022-2023 compliance period at the Meredosia Fly Ash and Bottom Ash Ponds indicated downgradient monitoring wells were in compliance with the requirements stated in the GMP: concentrations of monitored parameters above the 35 IAC § 620.410 Class I Groundwater Standard did not exhibit short-term statistically significant increasing trends for any parameter at any downgradient monitoring well during the 2022-2023 compliance period. As such, no further action is required at this time. The concentrations of indicator parameters will continue to be monitored and evaluated in 2024.

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Closed Fly Ash & Bottom Ash Ponds Former Meredosia Power Station

5. REFERENCES

Geotechnology, Inc., 2016a. *Groundwater Monitoring Plan, Fly Ash Pond and Bottom Ash Pond, Meredosia Power Station*. December 14, 2016.

Geotechnology, Inc., 2016b. *Groundwater Management Zone Plan, Fly Ash Bottom Ash Pond, Meredosia Power Station, 800 South Washington Street, Meredosia, Illinois*. December 22, 2016.

Geotechnology, Inc., 2018a. *Closure Plan, Meredosia Power Station*. March 12, 2018.

Geotechnology, Inc., 2018b. *Post-Closure Care Plan, Meredosia Power Station*. March 12, 2018.

Illinois Environmental Protection Agency (IEPA), 1991. *Groundwater Quality Standards for Class I: Potable Resource Groundwater*, Title 35 of the Illinois Administrative Code Part 620: Groundwater Quality, amended 2013.

Kleinfelder West, Inc., 2011. *Coal Ash Impoundment Site Assessment Final Report, Meredosia Power Station, Ameren Energy Generating Company, Meredosia, Illinois*. May 10, 2011.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023. *2022 Groundwater Monitoring Annual Report, Closed Fly Ash & Bottom Ash Ponds, Meredosia Power Station*. March 31, 2023.

TABLES

Table 1-1. Groundwater Monitoring Program Schedule

2023 Annual Report

Meredosia Power Station - Fly Ash Pond and Bottom Ash Pond

Frequency	Duration	Sampling Quarter
Quarterly	Begins: June 2017	January- March (1) April - June (2) July - September (3) October - December (4)
	Ends: After successful completion of the post-closure activities required and approval of the Illinois Environmental Protection Agency (IEPA); or Acceptance of reduced frequency by IEPA based on successful demonstration under Semi-Annual or Annual Frequency	
Semi-Annual or Annual	Begins: Upon demonstration that monitoring effectiveness will not be compromised by reduced frequency, adequate data has been collected to characterize groundwater, and concentration of constituents monitored at downgradient boundaries do not demonstrate statistically significant increasing trends that can be attributed to the former ash ponds	April - June (2)
	Ends: After successful completion of the post-closure activities required and approval of the IEPA	October - December (4)

[O: YD/SJC, C: YD/SJC]

Table 1-2. Groundwater Monitoring System Wells

2023 Annual Report

Meredosia Power Station - Fly Ash Pond and Bottom Ash Pond

Monitoring Well Number	Installation Date	Surface Elevation (ft NAVD88) ¹	TOC Elevation (ft NAVD88) ¹	Top of Screen Elevation (ft NAVD88) ¹	Bottom of Screen Elevation (ft NAVD88) ¹	Total Well Depth (ft BGS)	Objective	Position	Monitoring Zone
APW-1	10/26/2010	446.06	449.26	431.40	421.40	24.7	Compliance	Upgradient	Uppermost Aquifer
APW-2	10/25/2010	433.97	436.87	421.10	411.10	22.9	Compliance	Downgradient	Uppermost Aquifer
APW-3	10/25/2010	433.35	436.28	420.80	410.80	22.6	Compliance	Downgradient	Uppermost Aquifer
APW-4	10/26/2010	431.90	434.86	415.80	409.30	26.1	Compliance	Downgradient	Uppermost Aquifer
APW-5	10/26/2010	450.48	453.20	431.00	421.00	29.5	Compliance	Upgradient	Uppermost Aquifer
APW-6	10/1/2015	448.60	451.90	431.10	421.10	28.0	Compliance	Midgradient	Uppermost Aquifer
APW-7	10/1/2015	435.00	438.70	429.00	419.00	16.5	Compliance	Midgradient	Uppermost Aquifer
APW-8	10/1/2015	460.50	463.90	431.90	421.90	39.1	Compliance	Midgradient	Uppermost Aquifer
APW-9	10/1/2015	445.00	448.10	426.20	416.20	29.3	Compliance	Downgradient	Uppermost Aquifer
APW-10	8/20/2018	454.10	457.45	424.90	414.90	39.4	Compliance	Midgradient	Uppermost Aquifer
APW-11	8/22/2018	461.89	465.40	427.64	417.64	44.45	Compliance	Upgradient	Uppermost Aquifer
APW-12	8/21/2018	431.94	435.52	422.10	412.10	20.0	Compliance	Downgradient	Uppermost Aquifer
APW-13	7/13/2021	457.84	461.55	437.34	427.34	31.0	Compliance	Midgradient	Uppermost Aquifer
APW-14	7/12/2021	455.55	459.27	439.04	429.04	27.0	Compliance	Midgradient	Uppermost Aquifer

[U: RSD 3/4/2022, C: RAB 3/10/22]

Notes:

1. Elevations referenced to North American Vertical Datum (NAVD) of 1988 with the exception of APW-5 through APW-9 which are referenced to feet above Mean Sea Level

BGS = below ground surface

ft = feet

NAVD88 = North American Vertical Datum of 1988

TOC = top of casing (i.e., top of riser pipe)

Table 1-3. Groundwater Monitoring Program Parameters

2023 Annual Report

Meredosia Power Station - Fly Ash Pond and Bottom Ash Pond

Field Parameters	STORET Code	
pH ²	00400	
Specific Conductance ²	00094	
Temperature (Fahrenheit)	00011	
Depth to Water (from TOC)	72109	
Elevation of Groundwater Surface ²	71993	
Depth of Well (BGS) ²	72008	
Elevation of Measuring Point	72110	
Laboratory Parameters ¹	STORET Code - Dissolved	STORET Code - Total
Boron ²	01020	01022
Iron ²	01046	01045
Manganese ²	01056	01055
Sulfate ²	00946	--
Total Dissolved Solids (TDS) ²	70300	--
Antimony	01095	01097
Arsenic	01000	01002
Barium	01005	01007
Beryllium	01010	01012
Cadmium	01025	01027
Chloride	00941	--
Chromium	01030	01034
Cobalt	01035	01037
Copper	01040	01042
Cyanide	--	00720
Fluoride	00950	--
Lead	01049	01051
Mercury	71890	71900
Nickel	01065	01067
Nitrate as N	00613	--
Nitrite as N	00618	--
Selenium	01145	01147
Silver	01075	01077
Thallium	01057	01059
Vanadium	01085	01087
Zinc	01090	01092

[O: YD/SJC, C: YD/SJC]

Notes:

¹ Reported as dissolved (filtered) concentrations.

² Mandatory monitoring parameter per 35 IAC § 840.114(a).

-- = not analyzed

BGS = Below Ground Surface

N = Nitrogen

STORET = Storage and retrieval

TOC = Top of Casing

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Table 3-1. Trend Analysis Results

2023 Annual Report

Mercedosa Power Station - Fly Ash Pond and Bottom Ash Pond

	APW-2	APW-3	APW-4	APW-9	APW-12
Number of Samples	8	8	8	8	8
Antimony, dissolved	DNE	DNE	DNE	DNE	DNE
Antimony, total	DNE	DNE	DNE	DNE	DNE
Arsenic, dissolved	DNE	None	None	DNE	DNE
Arsenic, total	DNE	None	None	DNE	None
Barium, dissolved	DNE	DNE	DNE	DNE	DNE
Barium, total	DNE	DNE	DNE	DNE	DNE
Beryllium, dissolved	DNE	DNE	DNE	DNE	DNE
Beryllium, total	DNE	DNE	DNE	DNE	DNE
Boron, dissolved	-	+	DNE	DNE	DNE
Boron, total	None	+	DNE	DNE	DNE
Cadmium, dissolved	DNE	DNE	DNE	DNE	DNE
Cadmium, total	DNE	DNE	DNE	DNE	DNE
Chloride, dissolved	DNE	DNE	DNE	DNE	DNE
Chromium, dissolved	DNE	DNE	DNE	DNE	DNE
Chromium, total	DNE	DNE	DNE	DNE	DNE
Cobalt, dissolved	DNE	DNE	DNE	DNE	DNE
Cobalt, total	DNE	DNE	DNE	DNE	DNE
Copper, dissolved	DNE	DNE	DNE	DNE	DNE
Copper, total	DNE	DNE	DNE	DNE	DNE
Cyanide, total	DNE	DNE	DNE	DNE	DNE
Fluoride, dissolved	DNE	DNE	DNE	DNE	DNE
Iron, dissolved	DNE	DNE	-	DNE	DNE
Iron, total	+	+	Decrease	DNE	None
Lead, dissolved	DNE	DNE	DNE	DNE	DNE
Lead, total	DNE	DNE	DNE	DNE	None
Manganese, dissolved	None	None	-	DNE	+
Manganese, total	None	None	Decrease	DNE	+
Mercury, dissolved	DNE	DNE	DNE	DNE	DNE
Mercury, total	DNE	DNE	DNE	DNE	DNE
Nickel, dissolved	DNE	DNE	DNE	DNE	DNE
Nickel, total	DNE	DNE	DNE	DNE	DNE
Nitrate (as N), dissolved	DNE	DNE	DNE	DNE	DNE
Nitrite (as N), dissolved*	DNE	DNE	DNE	DNE	DNE
pH	None	DNE	None	DNE	None
Selenium, dissolved	DNE	DNE	DNE	DNE	DNE
Selenium, total	DNE	DNE	DNE	DNE	DNE
Silver, dissolved	DNE	DNE	DNE	DNE	DNE
Silver, total	DNE	DNE	DNE	DNE	DNE
Sulfate, dissolved	DNE	DNE	DNE	Decrease	DNE
Thallium, dissolved	DNE	DNE	DNE	DNE	DNE
Thallium, total	DNE	DNE	DNE	DNE	DNE
Total Dissolved Solids	DNE	DNE	DNE	DNE	DNE
Vanadium, dissolved	DNE	DNE	DNE	DNE	DNE
Vanadium, total	DNE	DNE	DNE	DNE	DNE
Zinc, dissolved	DNE	DNE	DNE	DNE	DNE
Zinc, total	DNE	DNE	DNE	DNE	DNE

Table 3-1. Trend Analysis Results

2023 Annual Report

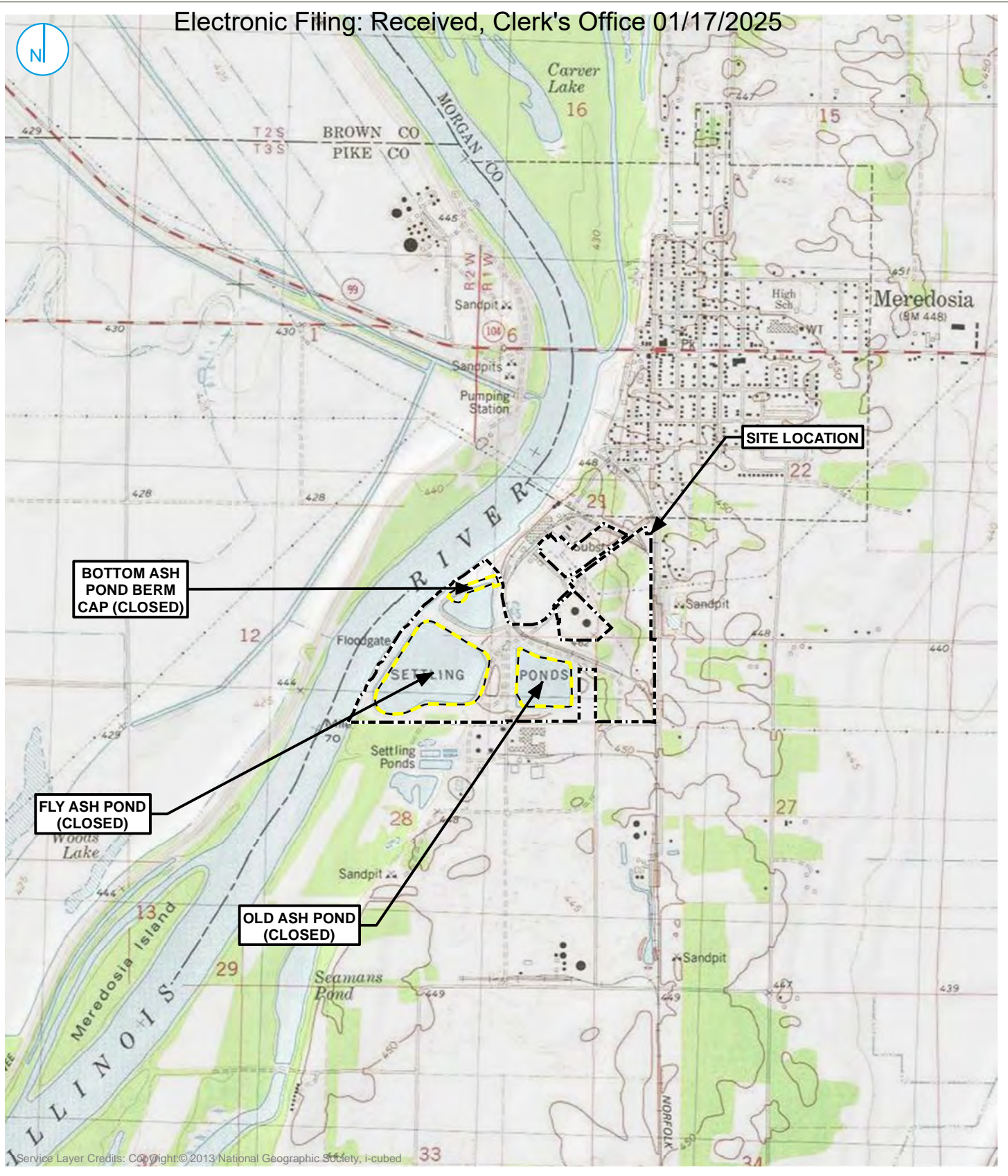
Meredosia Power Station - Fly Ash Pond and Bottom Ash Pond

Notes:

1. Trend analysis was completed for downgradient wells.
 2. Non-detects were treated as one half the detection limit for Mann Kendall Trend analysis.
 3. Date range for the Sen's non-parametric estimate of the median slope and trend analysis is 1/1/2022-12/31/2023.
- * = No Class I Groundwater Quality Standard
- = Negative Sen's non-parametric estimate of the median slope
- + = Positive Sen's non-parametric estimate of the median slope
- Decrease = Statistically significant decreasing trend
- DNE = Constituent did not exceed the Class I groundwater quality standard during the reporting period (2022-2023)
- Increase = Statistically significant increasing trend
- None = Insufficient evidence of a trend as determined using the Mann-Kendall test at 95% confidence for constituents with maximum concentration higher than the Class I Groundwater Quality Standard

FIGURES

Y:\Mapping\Projects\667815\mxd\2022\Figure 1-1_Site Location Map.mxd



DATED: 12/18/2023 | DESIGNER: egreaves



KEY MAP

Map Scale: 1:1,24,000;
Map Center: 90°34'10"W 39°49'15"N

 APPROXIMATE PROPERTY BOUNDARY

 LIMITS OF CCP MANAGEMENT

NOTE
Base map property lines were updated based on March 2019 Plat of Survey.

0 1,000 2,000 Feet

SITE LOCATION MAP

2023 GROUNDWATER MONITORING ANNUAL REPORT
AMEREN ENERGY RESOURCES
MEREDOSIA POWER STATION
MORGAN COUNTY, ILLINOIS

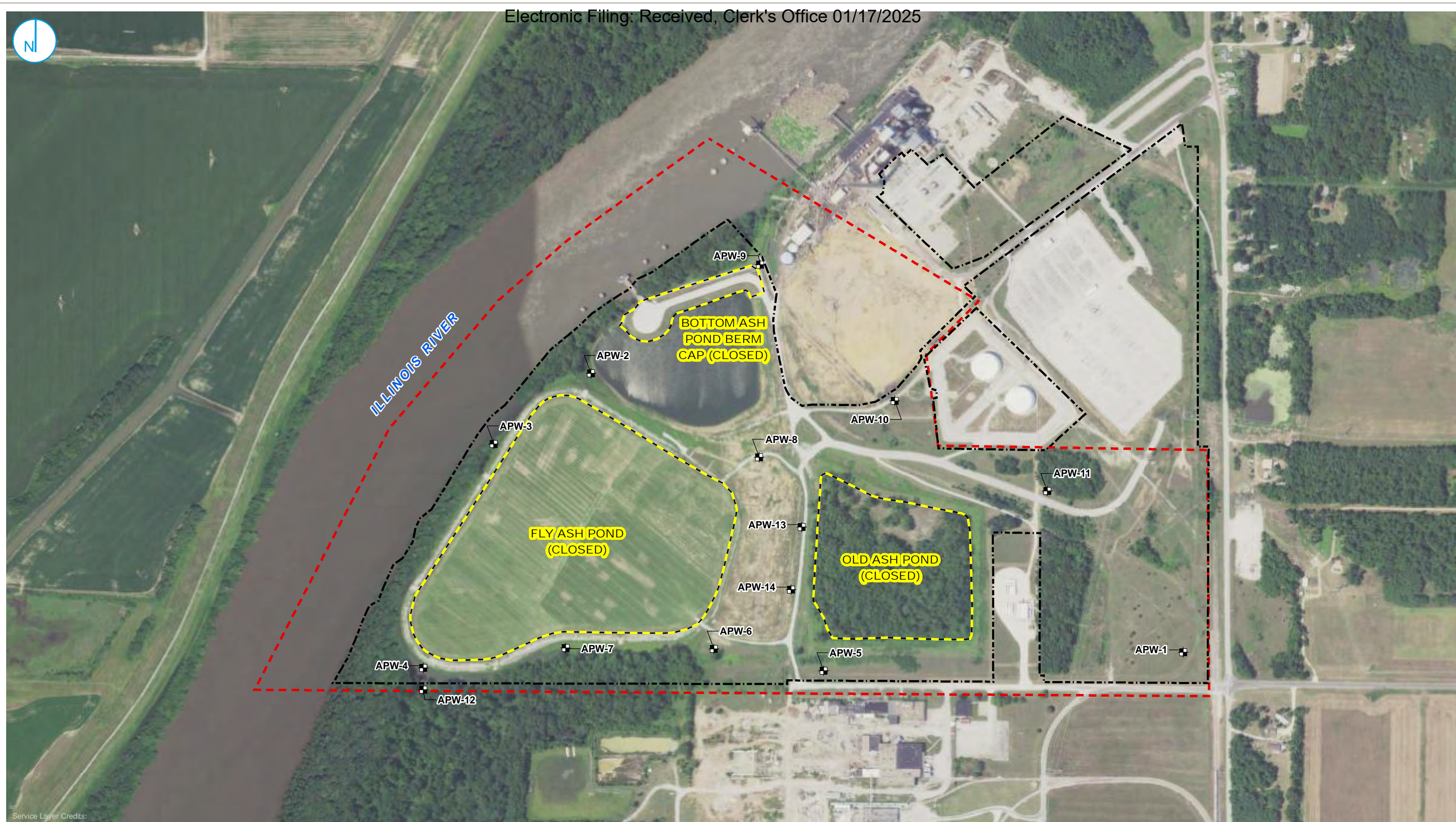
FIGURE 1-1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



Y:\Mapping\Projects\67815\mxd\2022\Figure 1-2_Site_Base_Map.mxd

PROJECT: 72694 | DATED: 12/18/2023 | DESIGNER: egraves



- MONITORING WELL LOCATION
- - - APPROXIMATE PROPERTY BOUNDARY
- - - LIMITS OF CCP MANAGEMENT
- - - APPROXIMATE GROUNDWATER MONITORING ZONE

NOTE
 Base map property lines were updated based on March 2019 Plat of Survey.



MONITORING WELL LOCATION MAP

FIGURE 1-2

2023 GROUNDWATER MONITORING ANNUAL REPORT
 AMEREN ENERGY RESOURCES
 MEREDOSIA POWER STATION
 MORGAN COUNTY, ILLINOIS

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



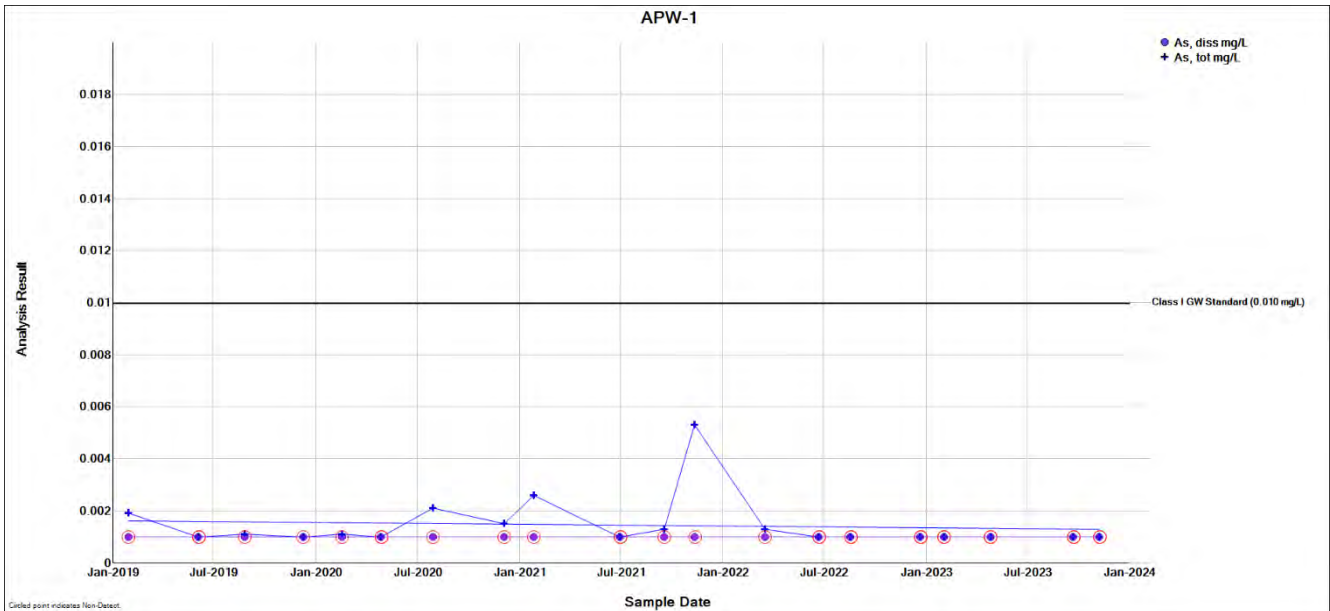


Figure 1-3. Arsenic (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-1
 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

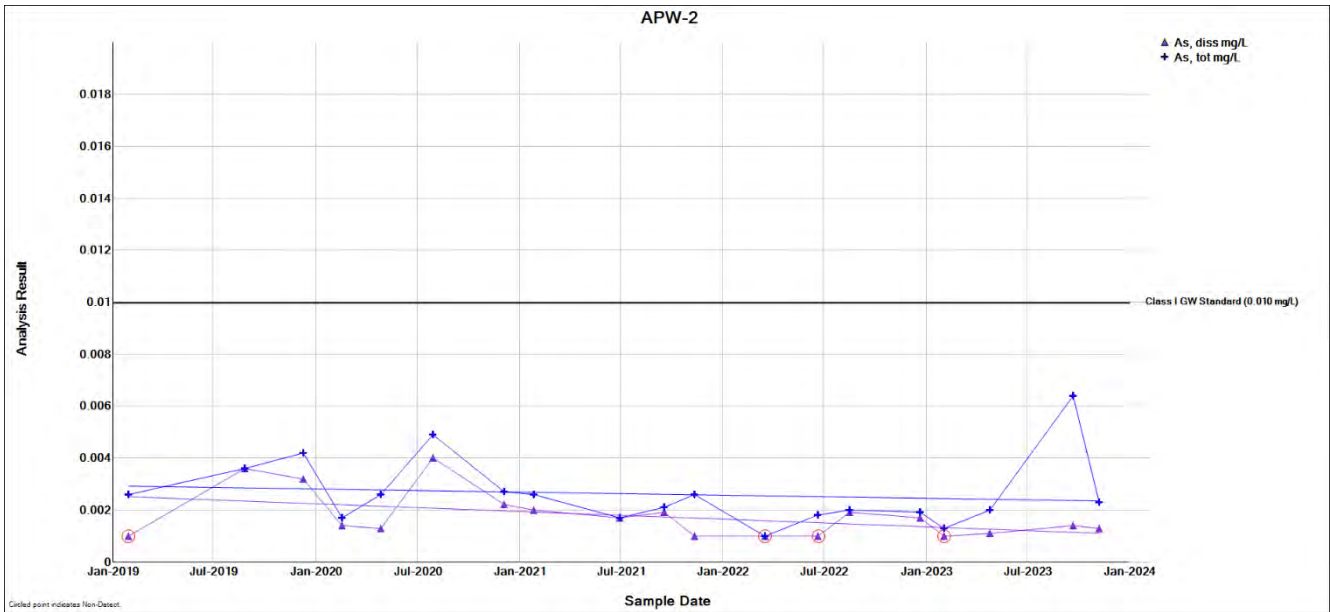


Figure 1-4. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-2
 The Class Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

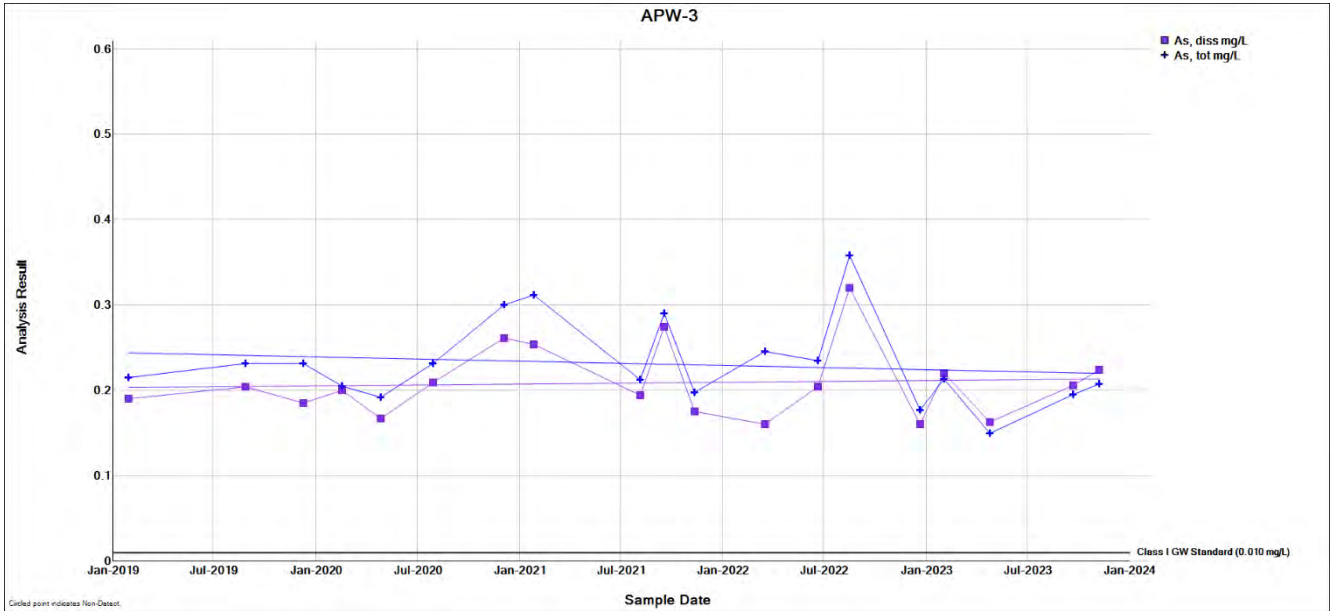


Figure 1-5. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-3

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

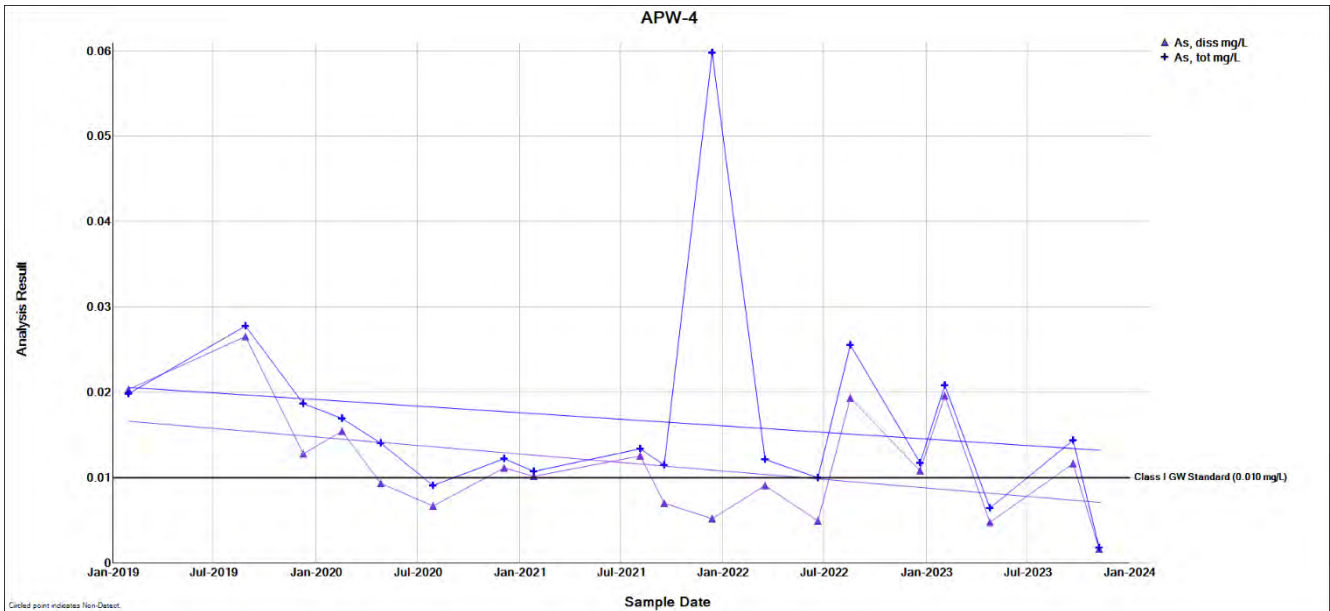


Figure 1-6. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-4

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

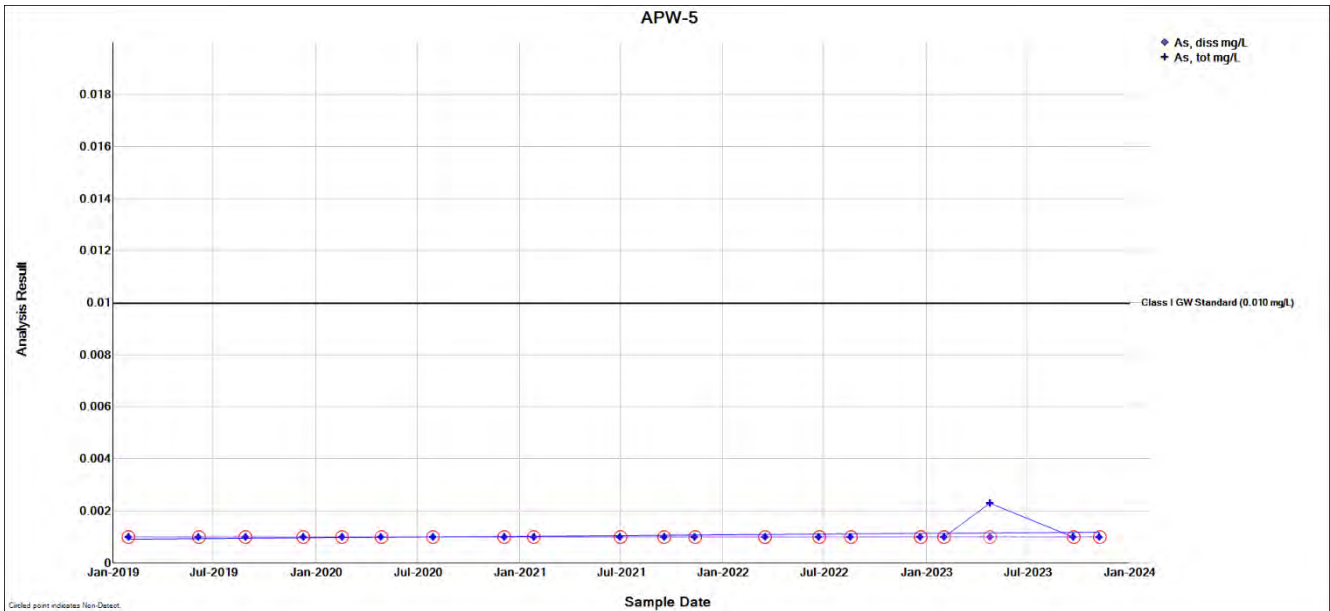


Figure 1-7. Arsenic (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-5
The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

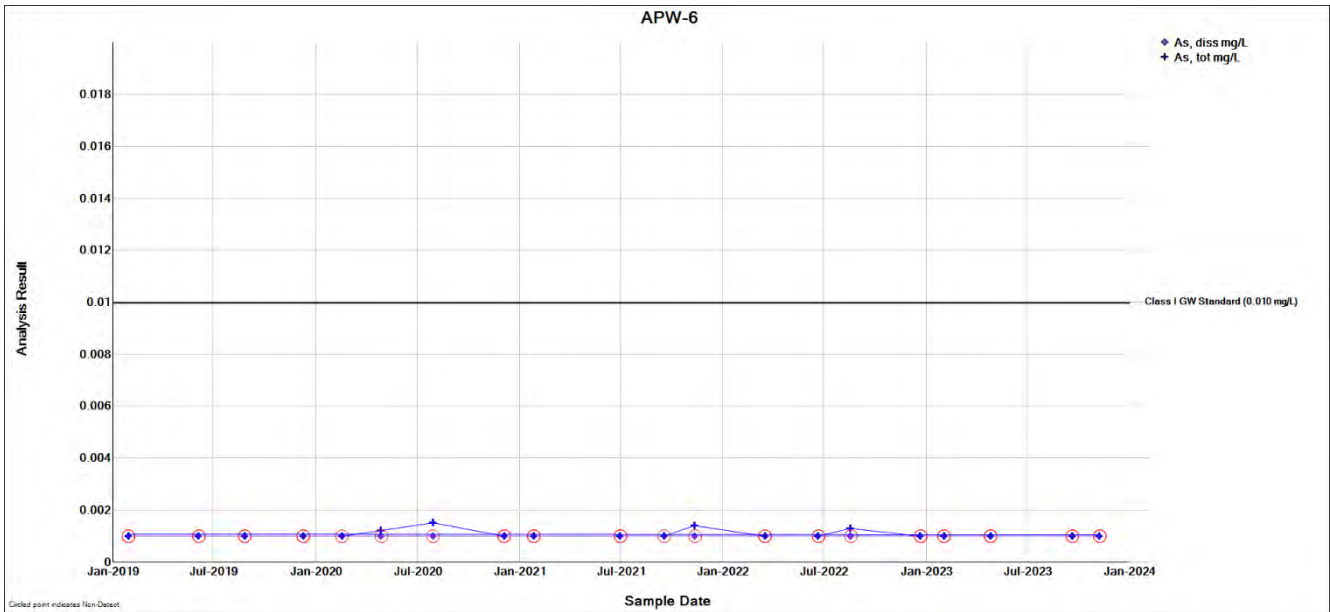


Figure 1-8. Arsenic (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-6
The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

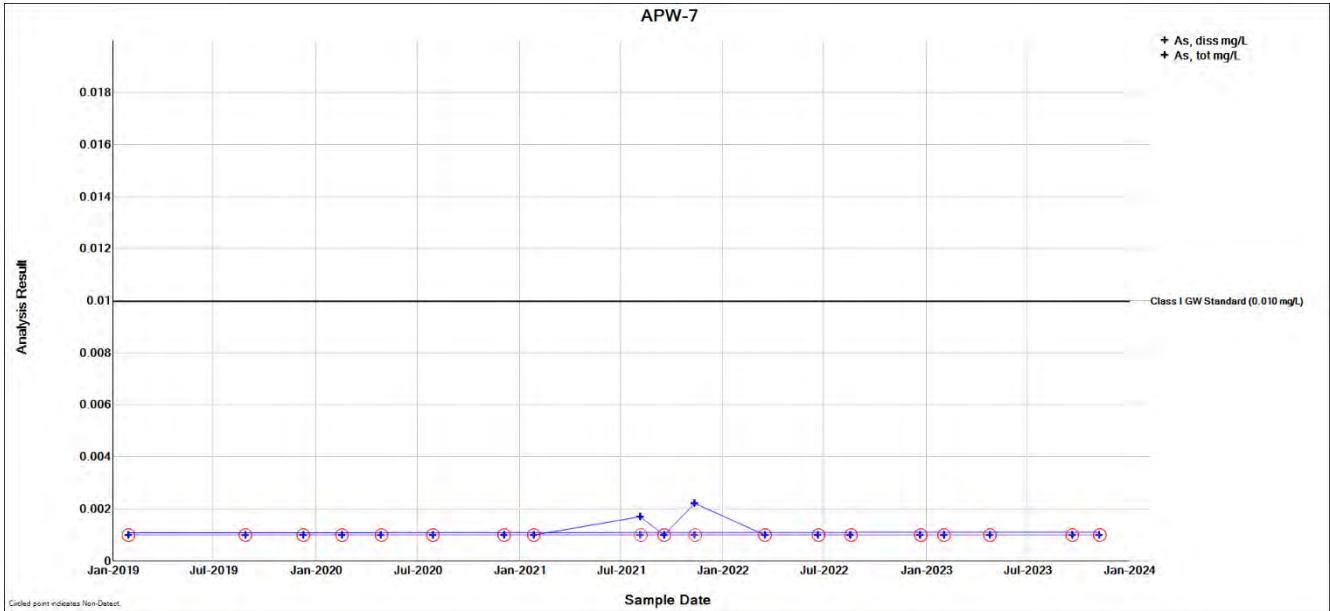


Figure 1-9. Arsenic (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-7
 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

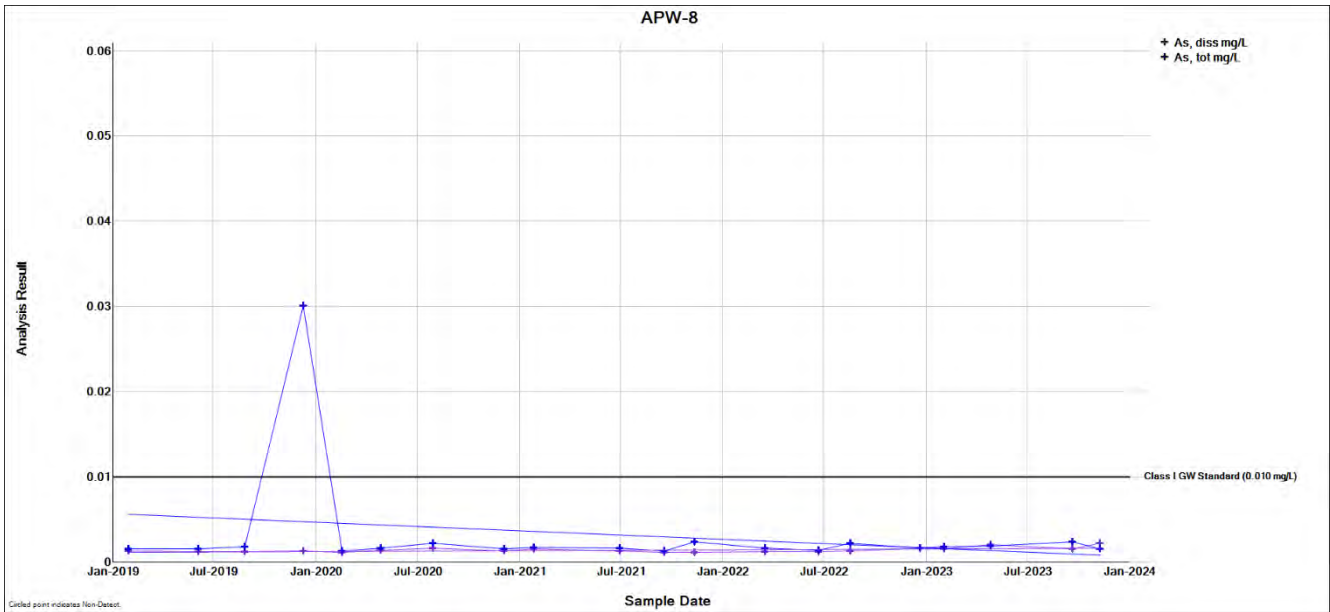


Figure 1-10. Arsenic (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-8
 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

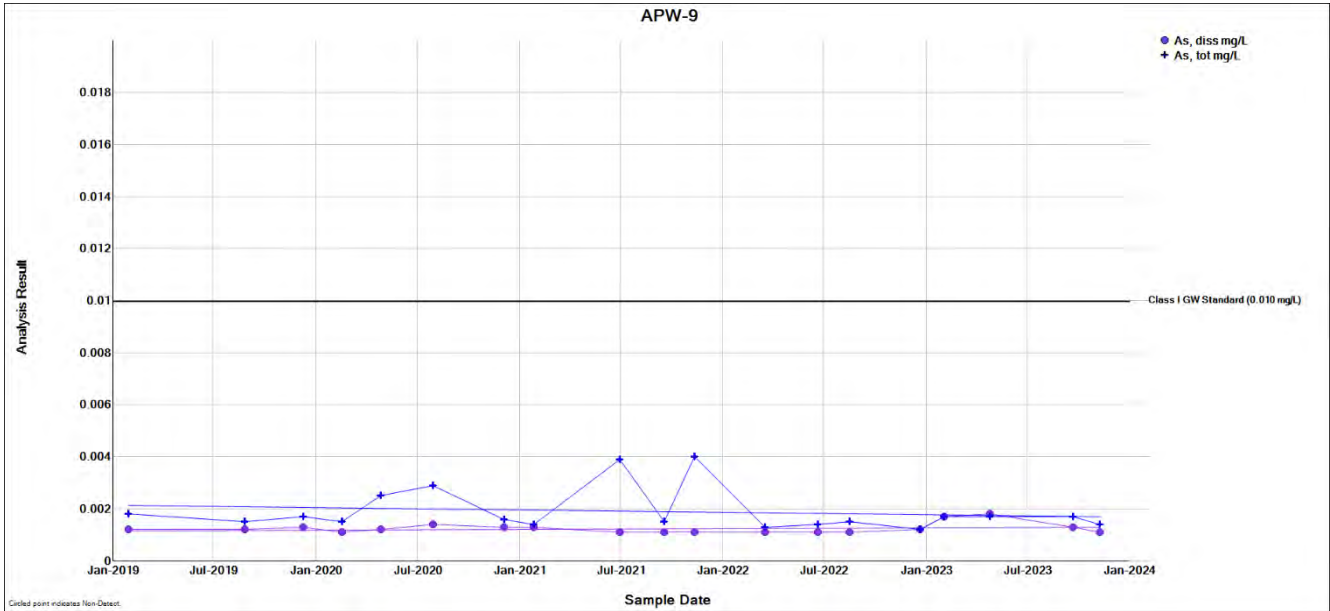


Figure 1-11. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-9

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

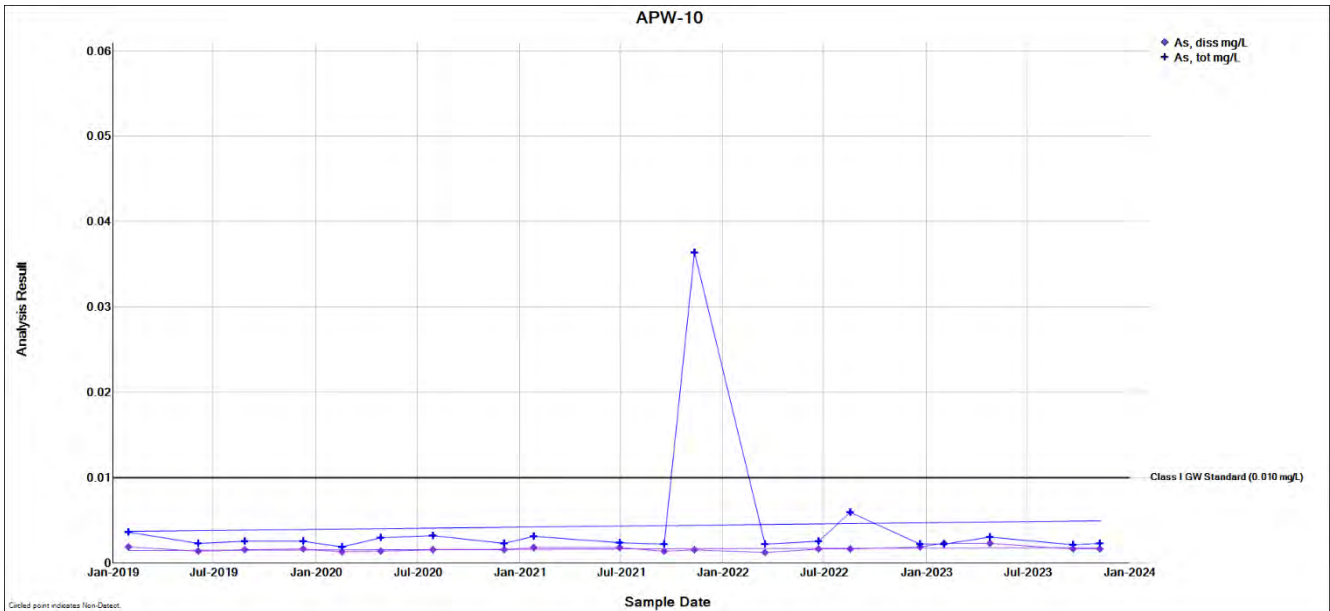


Figure 1-12. Arsenic (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-10

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

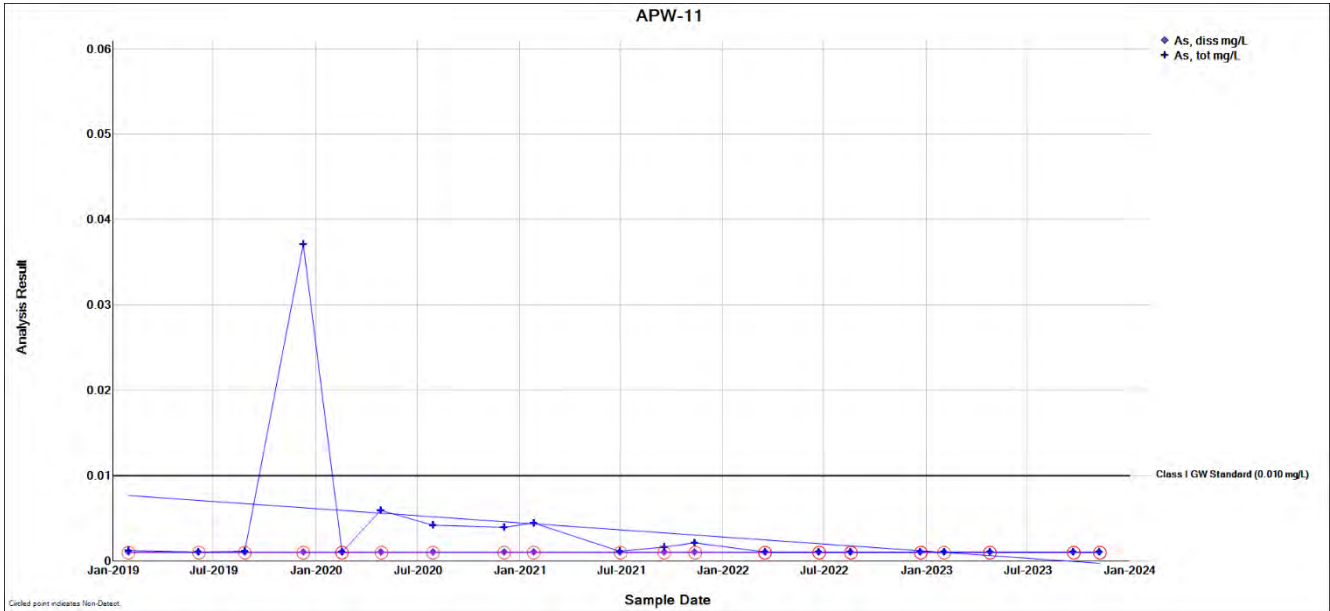


Figure 1-13. Arsenic (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-11

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

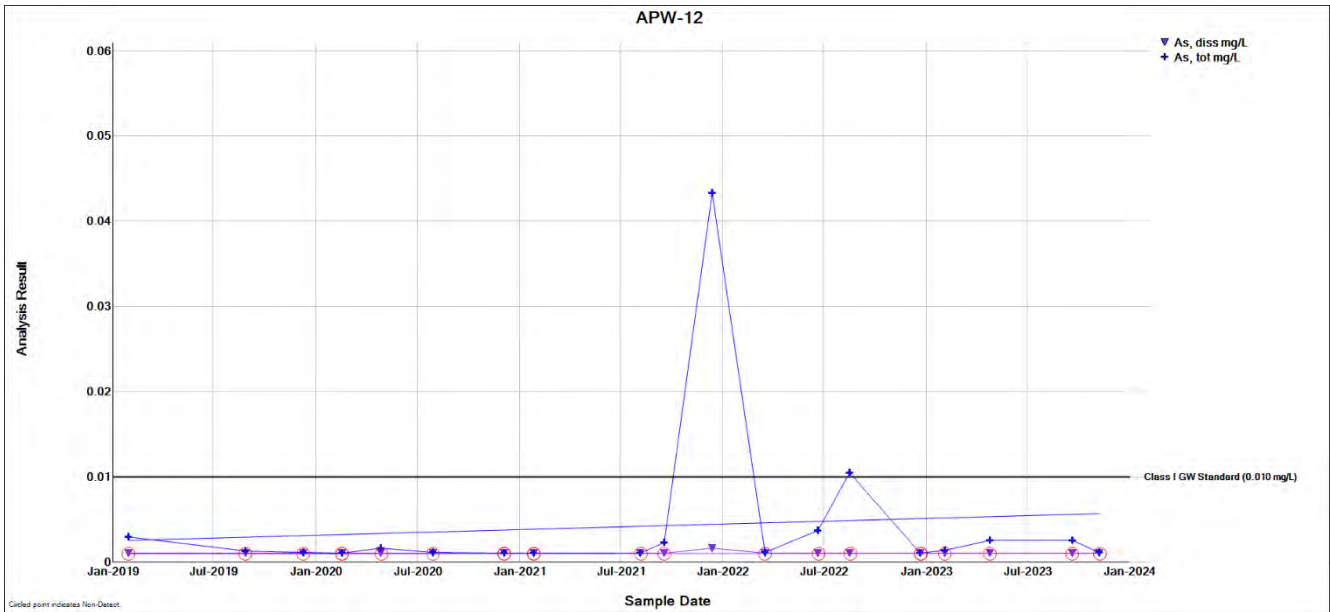


Figure 1-14. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-12

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

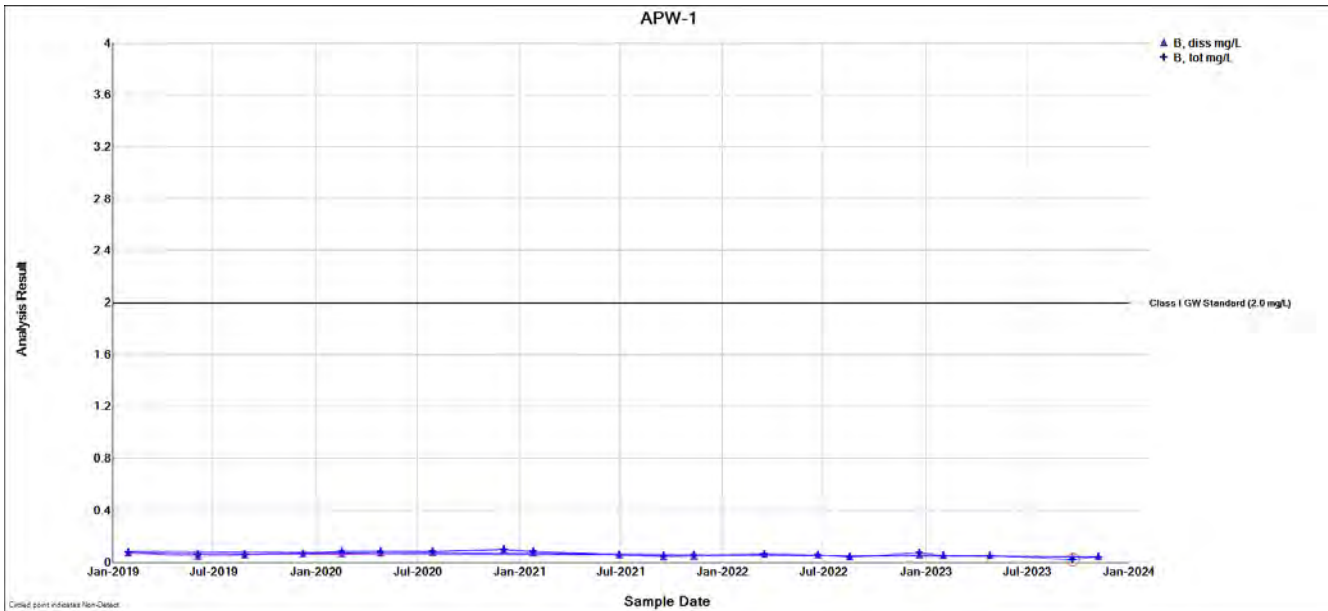


Figure 1-15. Boron (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-1
 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

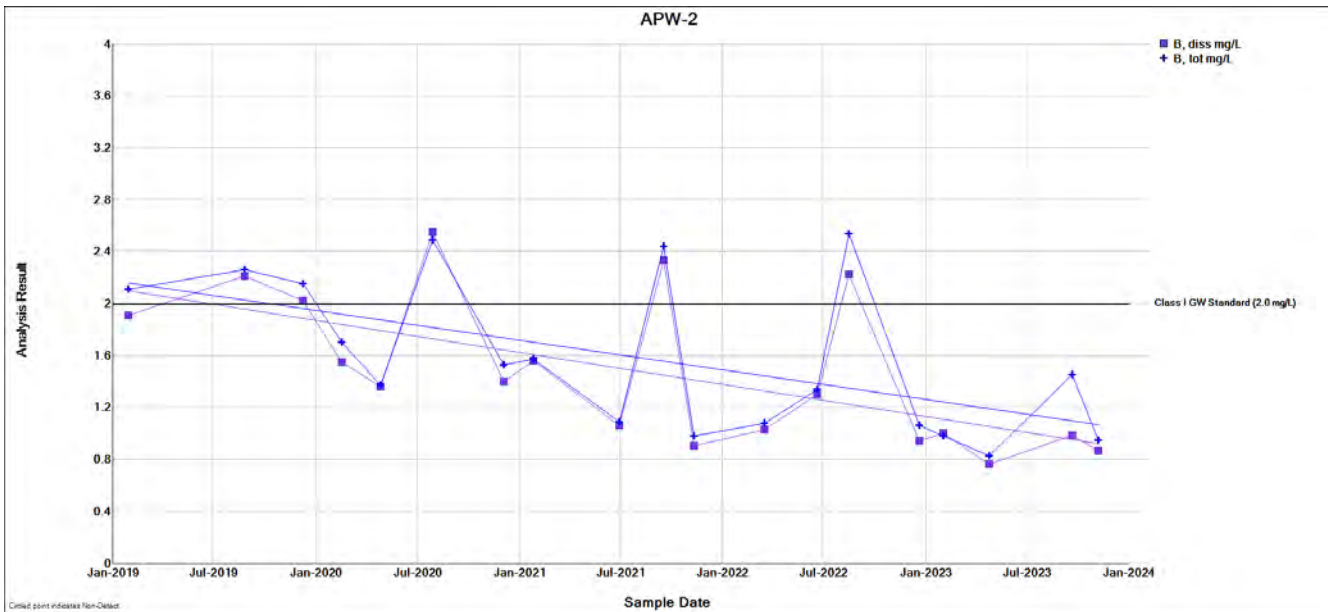


Figure 1-16. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-2
 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

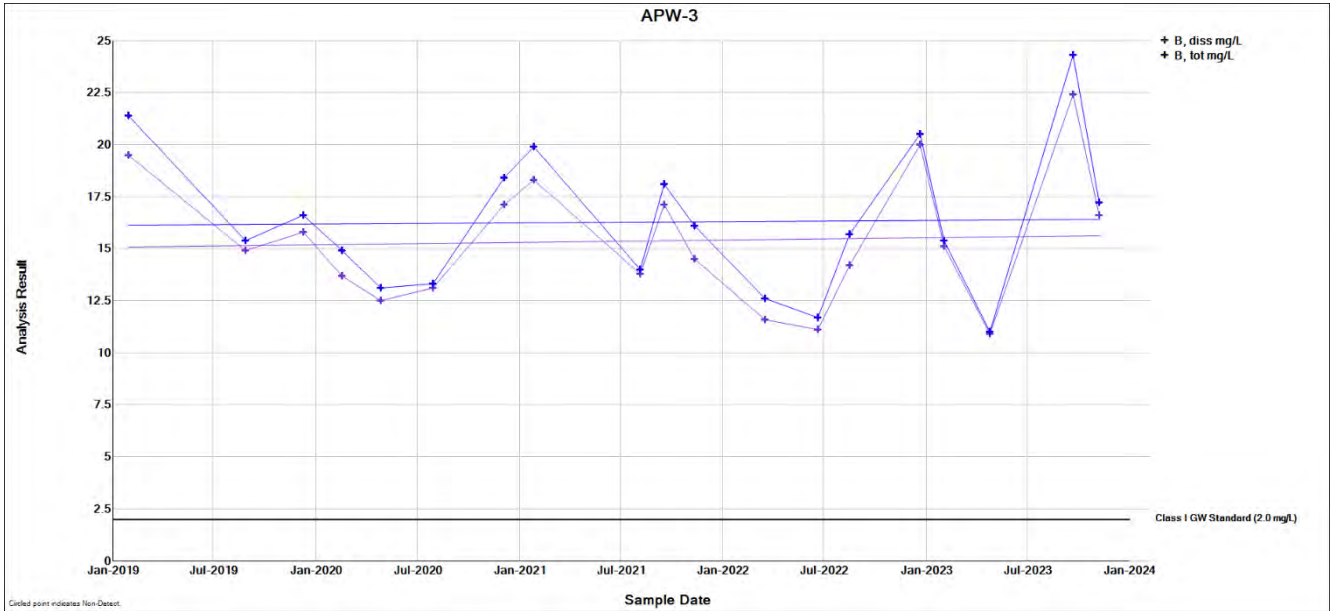


Figure 1-17. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-3

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

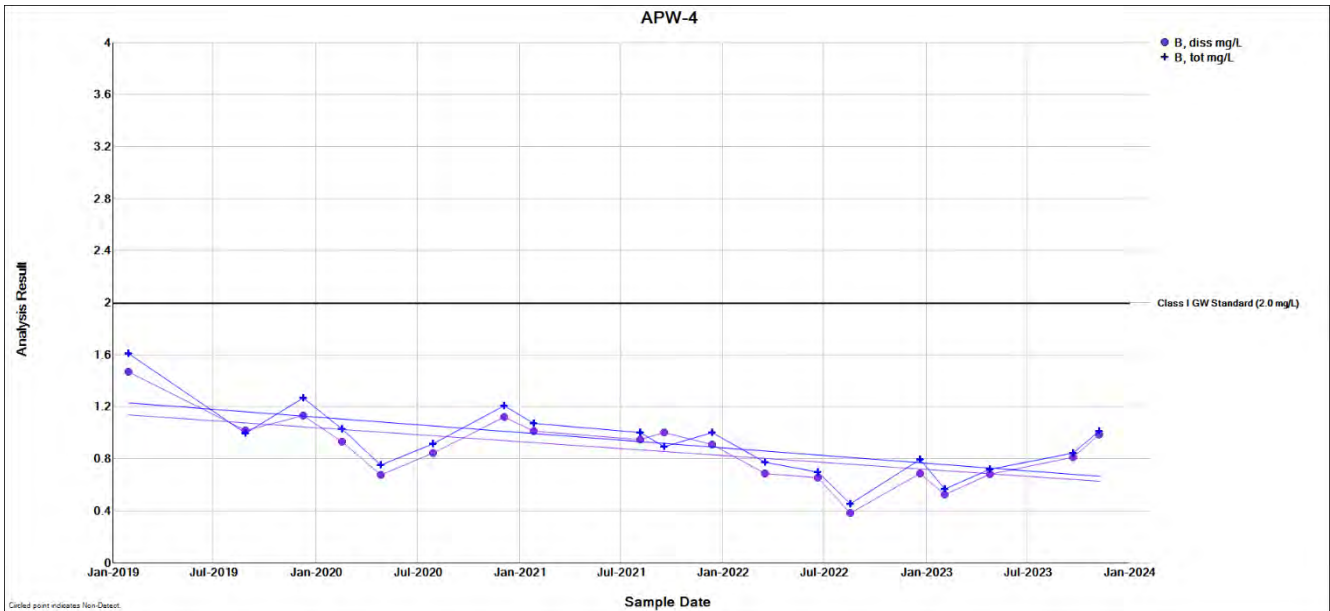


Figure 1-18. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-4

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

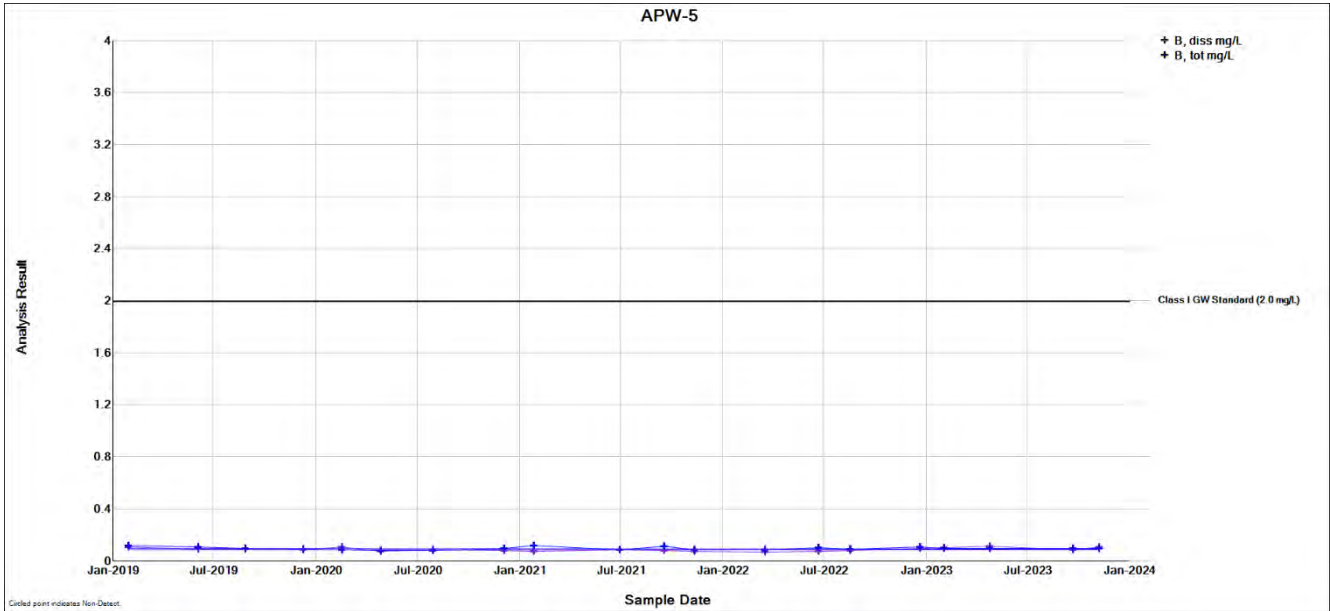


Figure 1-19. Boron (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-5

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

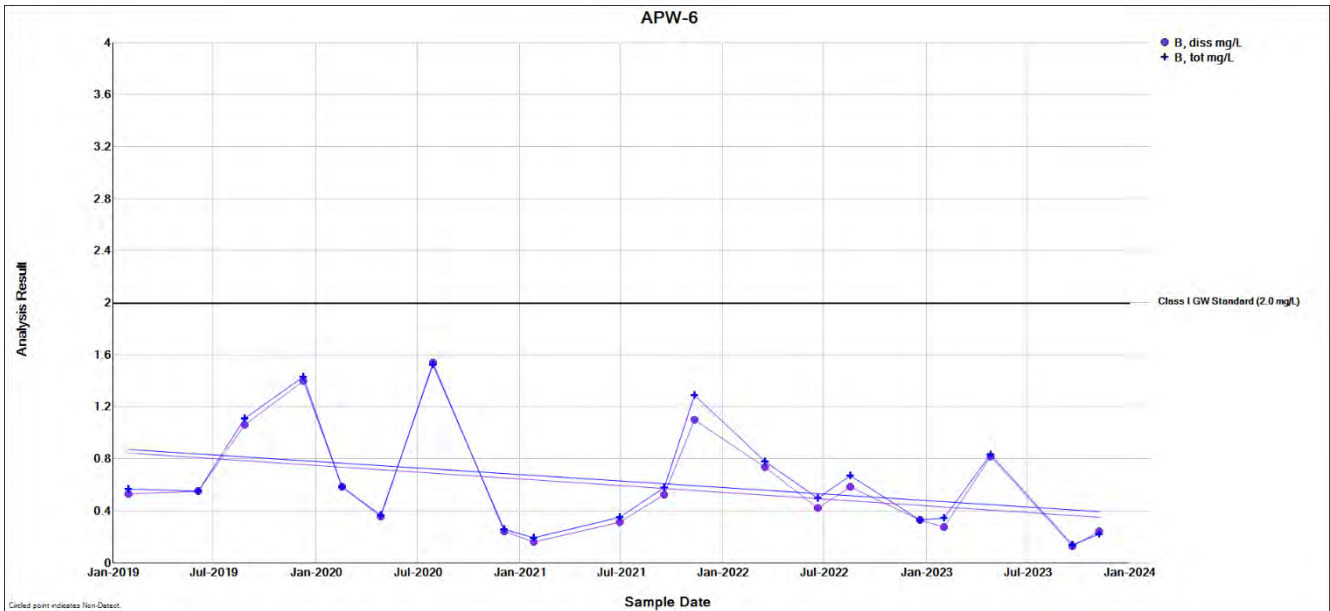


Figure 1-20. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-6

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

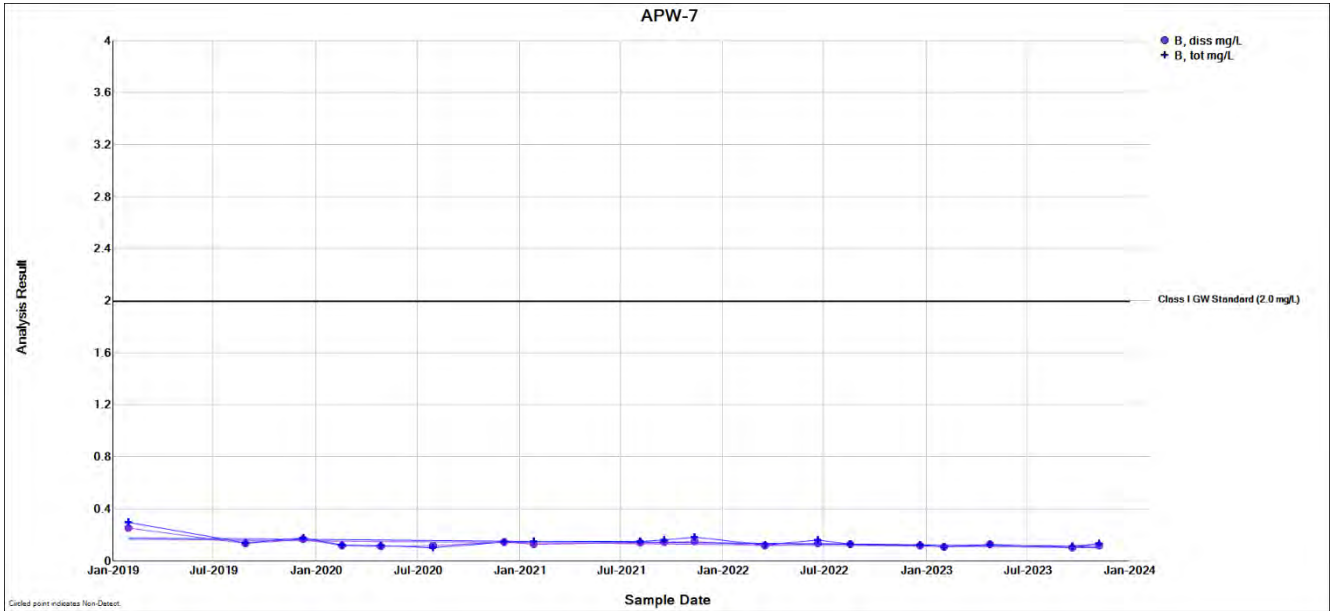


Figure 1-21. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-7

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

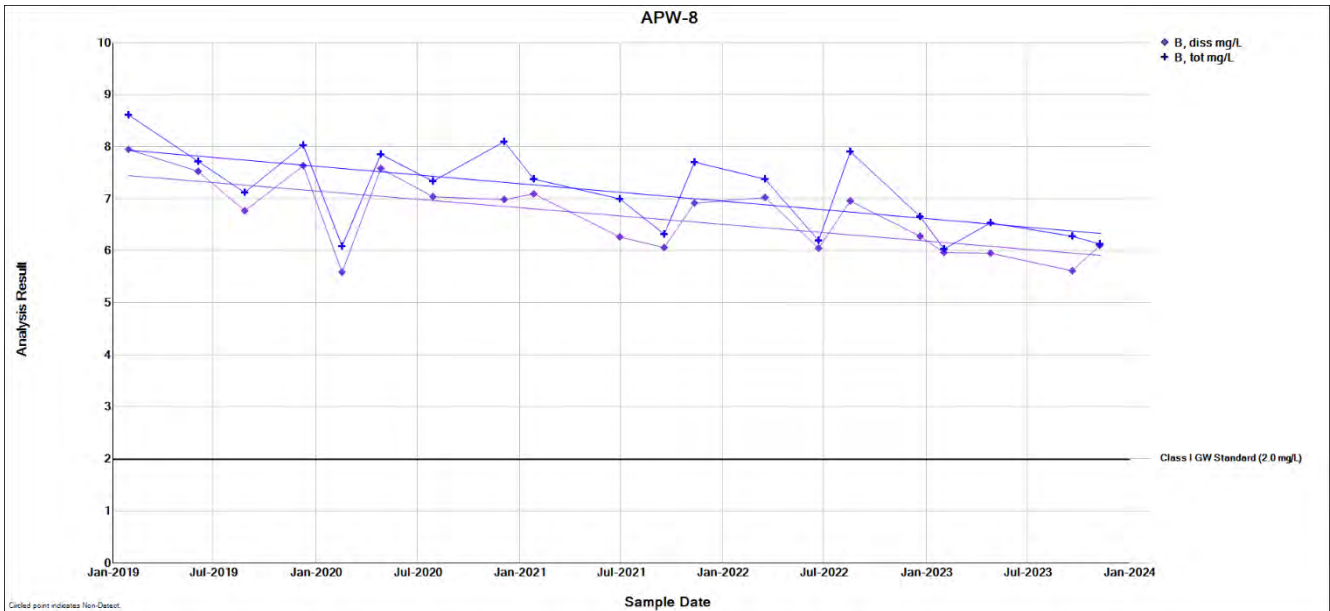


Figure 1-22. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-8

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

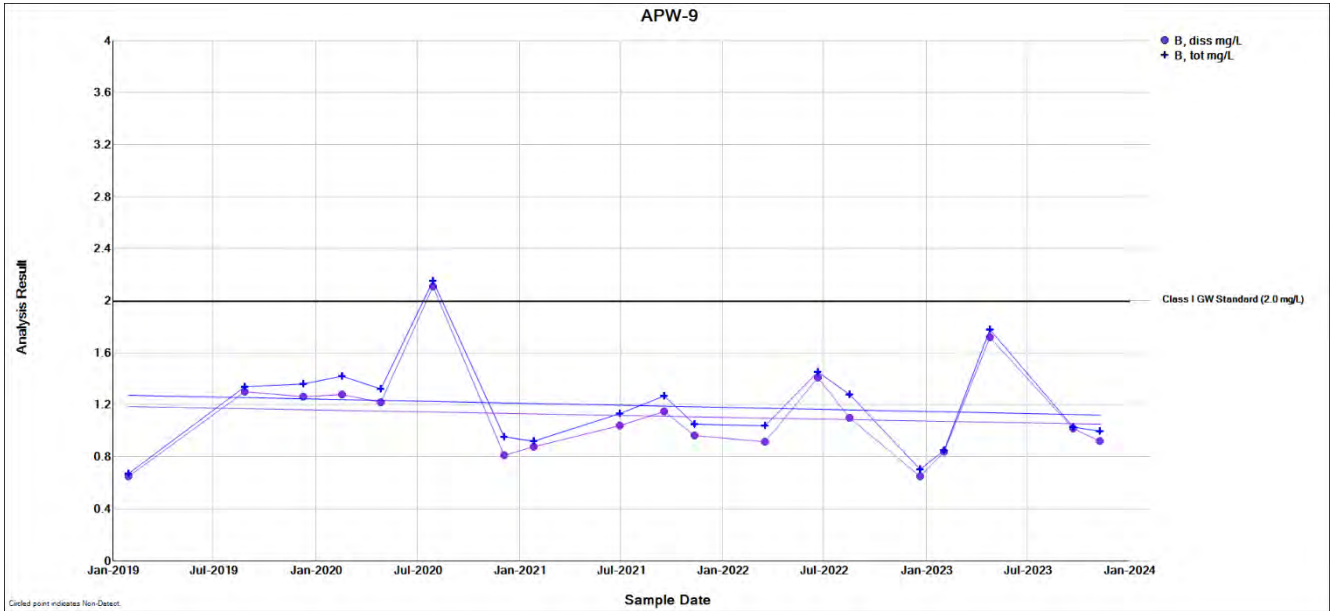


Figure 1-23. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-9

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

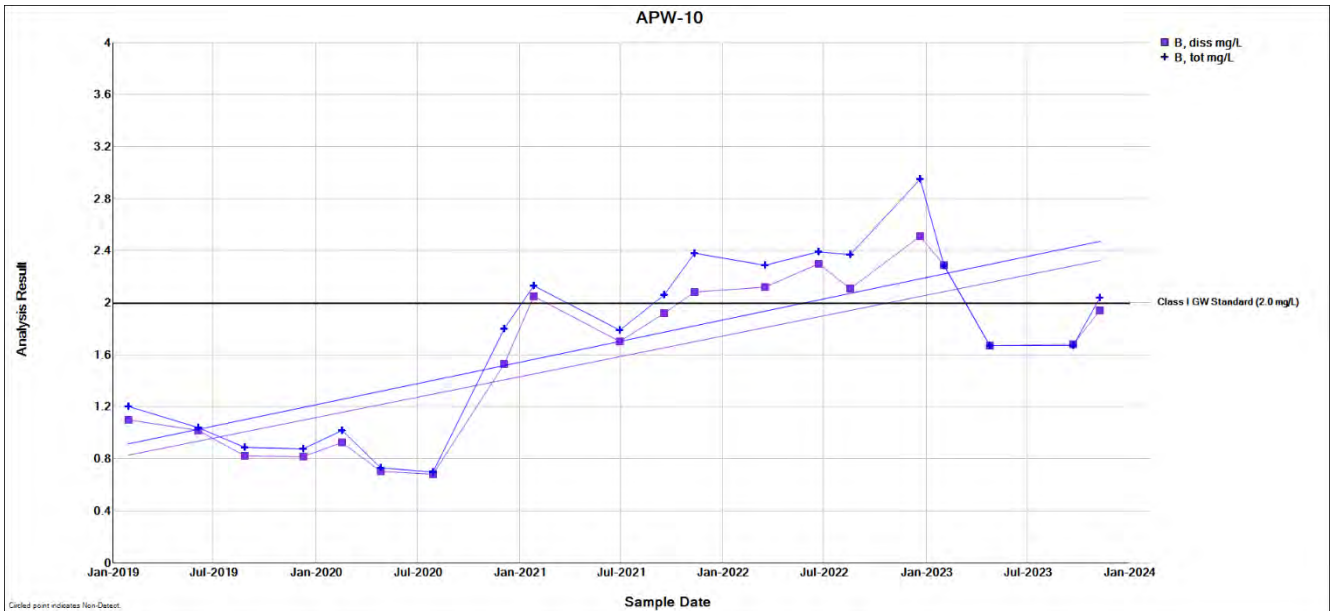


Figure 1-24. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-10

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

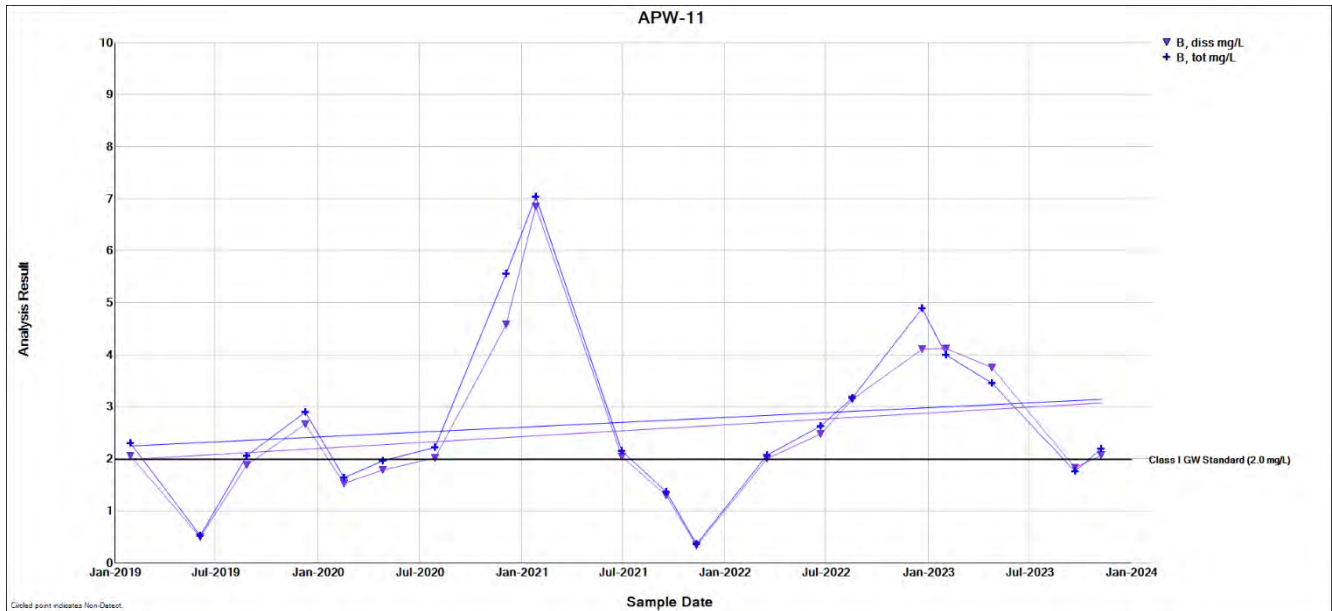


Figure 1-25. Boron (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-11

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

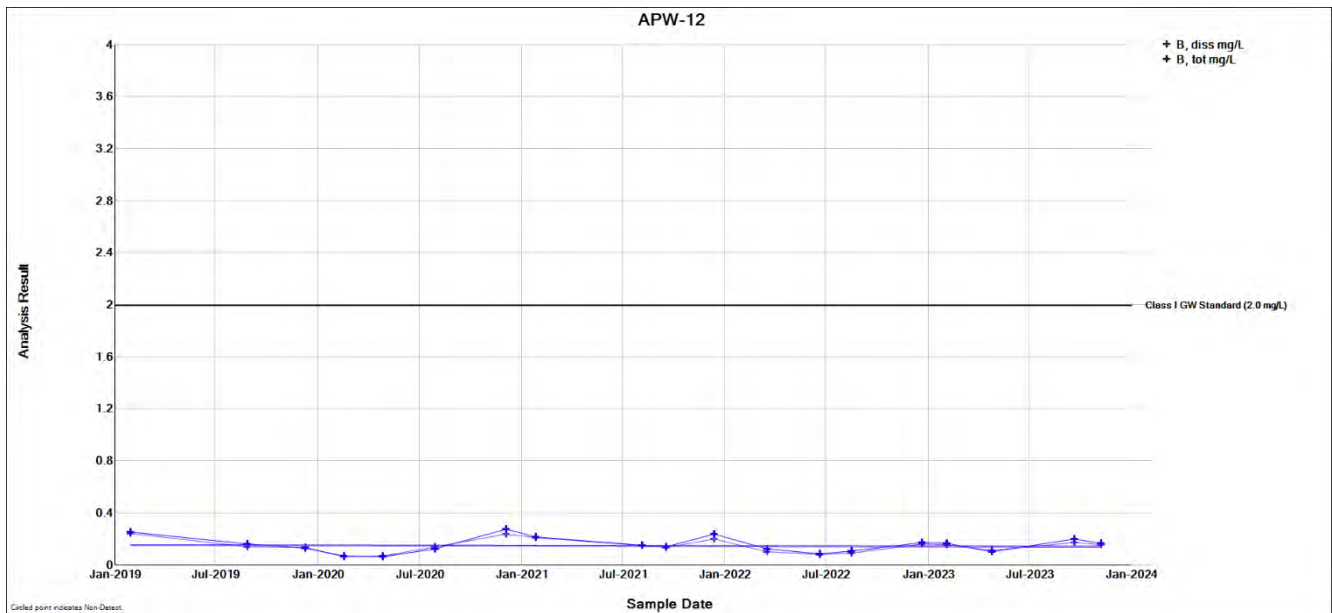


Figure 1-26. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-12

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

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Service Layer Credits: NAIP/USDA_CONUS_PRIME

- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (1-FT INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

- APPROXIMATE PROPERTY BOUNDARY
- LIMITS OF CCP MANAGEMENT

*River Elevation obtained from United States Geological Survey 05585500 Meredosia, IL gaging station. The elevation was reported in NGVD29 and then converted to NAVD88 at the time of this drawing.
 NM= Groundwater Elevation Not Measured Due to Flooding
 NGVD29 = National Geodetic Vertical Datum of 1929
 NAVD88 = North American Vertical Datum of 1988

NOTE
 Base map property lines were updated based on March 2019 Plat of Survey.

GROUNDWATER ELEVATIONS - FEBRUARY 2-3, 2023

FIGURE 3-1

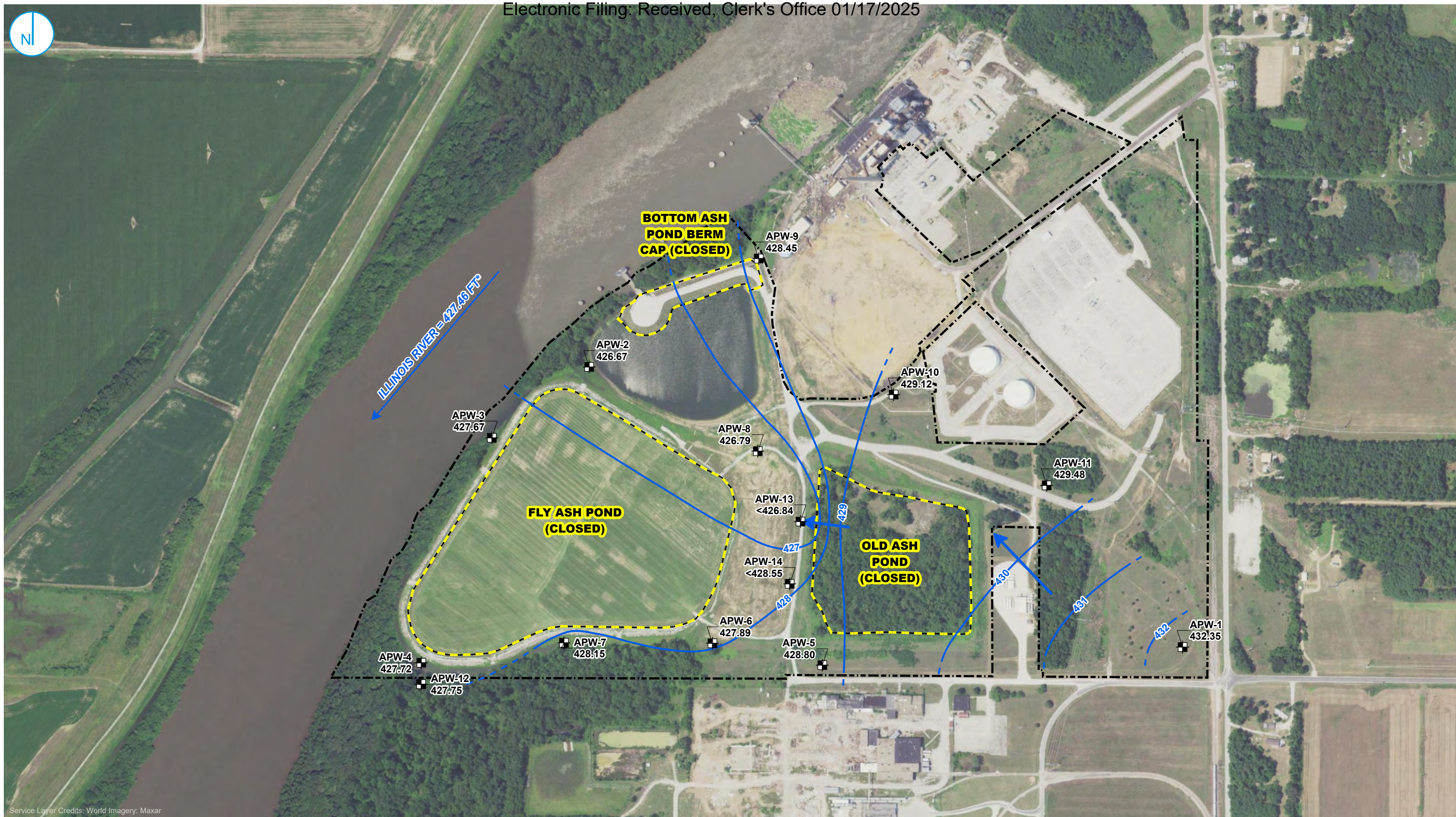


2023 GROUNDWATER MONITORING ANNUAL REPORT
 AMEREN ENERGY RESOURCES
 MEREDOSIA POWER STATION
 MORGAN COUNTY, ILLINOIS

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



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- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (1-FT INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

- APPROXIMATE PROPERTY BOUNDARY
- LIMITS OF CCP MANAGEMENT

*River Elevation obtained from United States Geological Survey 05585500 Meredosia, IL gaging station. The elevation was reported in NGVD29 and then converted to NAVD88 at the time of this drawing.
 NM= Groundwater Elevation Not Measured Due to Flooding
 NGVD29 = National Geodetic Vertical Datum of 1929
 NAVD88 = North American Vertical Datum of 1988

NOTE
 Base map property lines were updated based on March 2019 Plat of Survey.

GROUNDWATER ELEVATIONS - APRIL 25-26, 2023

2023 GROUNDWATER MONITORING ANNUAL REPORT
 AMEREN ENERGY RESOURCES
 MEREDOSIA POWER STATION
 MORGAN COUNTY, ILLINOIS

FIGURE 3-2

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



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Service Layer Credits: World Imagery: Maxar

PROJECT: 72694 | DATED: 12/22/2023 | DESIGNER: egraves

- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (1-FT INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

- APPROXIMATE PROPERTY BOUNDARY
- LIMITS OF CCP MANAGEMENT

*River Elevation obtained from United States Geological Survey 05585500 Meredosia, IL gaging station. The elevation was reported in NGVD29 and then converted to NAVD88 at the time of this drawing.
 NM= Groundwater Elevation Not Measured Due to Flooding
 NGVD29 = National Geodetic Vertical Datum of 1929
 NAVD88 = North American Vertical Datum of 1988

NOTE
 Base map property lines were updated based on March 2019 Plat of Survey.



GROUNDWATER ELEVATIONS - SEPTEMBER 20-22, 2023

FIGURE 3-3

2023 GROUNDWATER MONITORING ANNUAL REPORT
 AMEREN ENERGY RESOURCES
 MEREDOSIA POWER STATION
 MORGAN COUNTY, ILLINOIS

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- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (1-FT INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

- APPROXIMATE PROPERTY BOUNDARY
- LIMITS OF CCP MANAGEMENT

*River Elevation obtained from United States Geological Survey 05585500 Meredosia, IL gaging station. The elevation was reported in NGVD29 and then converted to NAVD88 at the time of this drawing.
 NM= Groundwater Elevation Not Measured Due to Flooding
 NGVD29 = National Geodetic Vertical Datum of 1929
 NAVD88 = North American Vertical Datum of 1988

NOTE
 Base map property lines were updated based on March 2019 Plat of Survey.

GROUNDWATER ELEVATIONS - NOVEMBER 8-9, 2023

FIGURE 3-4

2023 GROUNDWATER MONITORING ANNUAL REPORT
 AMEREN ENERGY RESOURCES
 MEREDOSIA POWER STATION
 MORGAN COUNTY, ILLINOIS

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



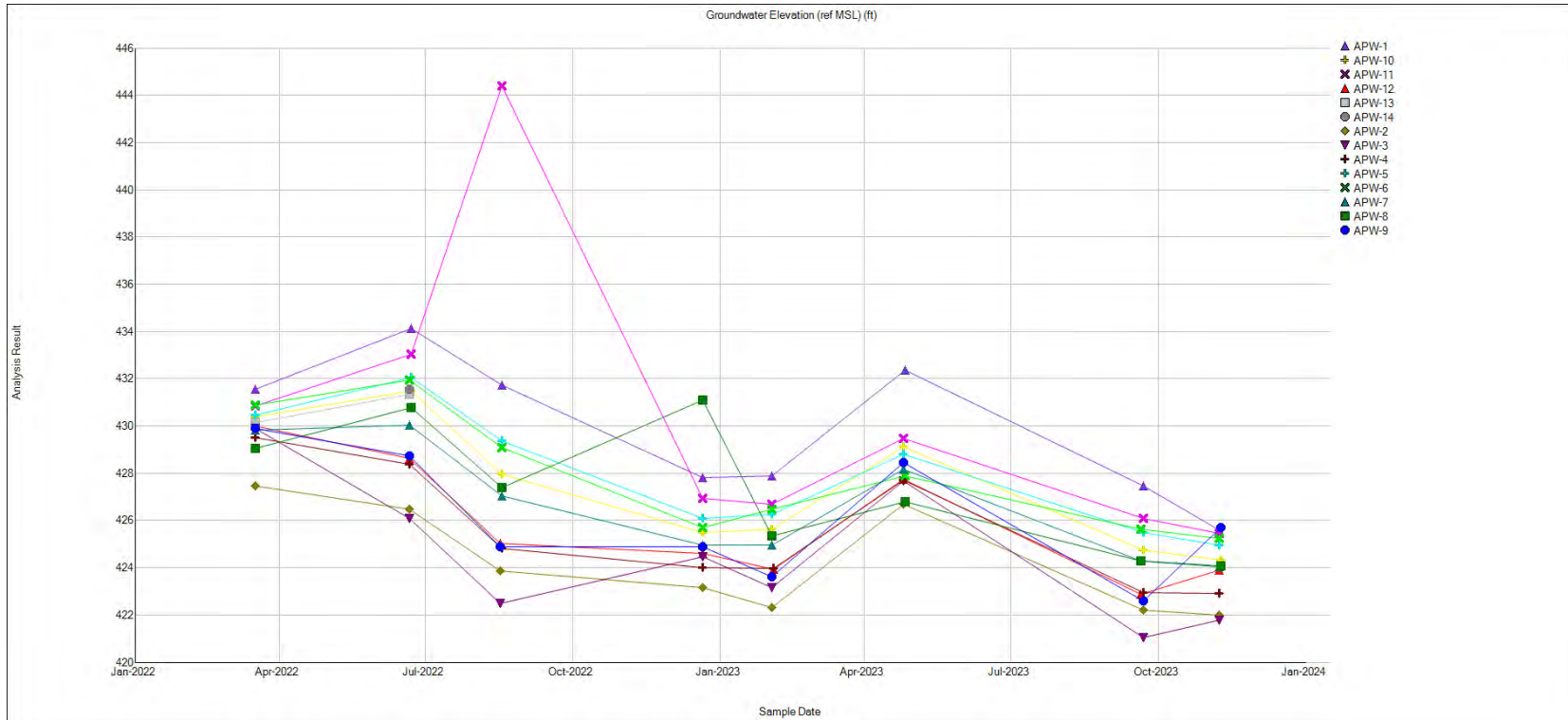


Figure 3-5. Groundwater Elevations Timeseries Plot

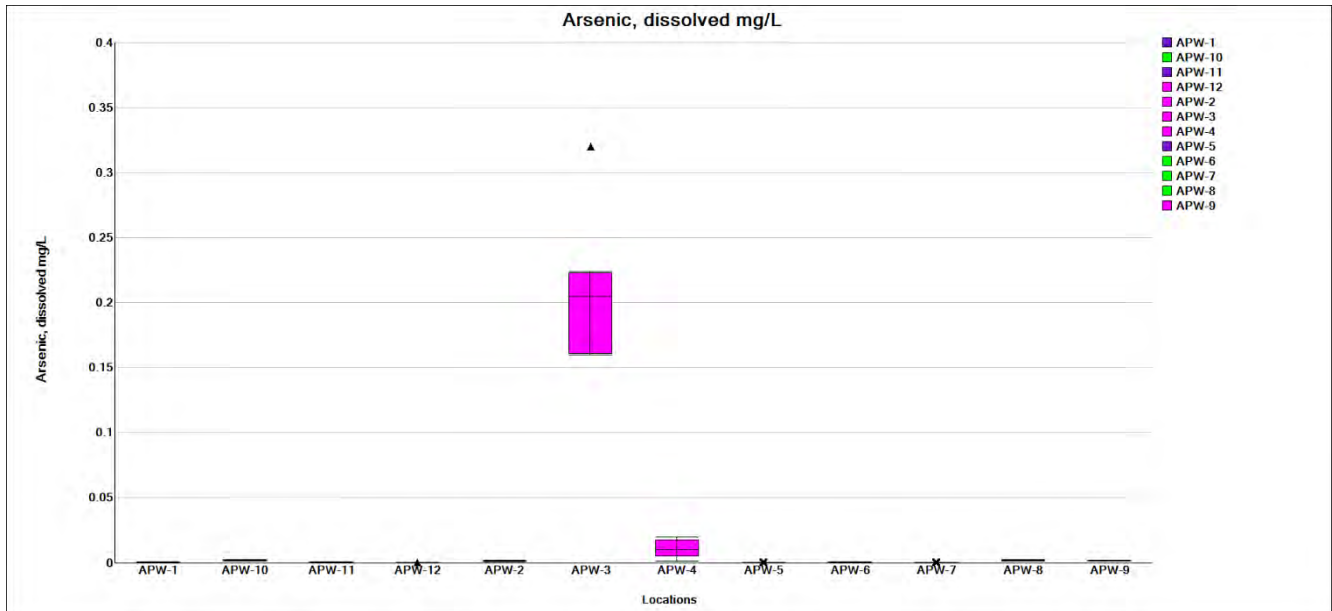


Figure 3-6A. Box-Whisker Plot Showing Distribution of Dissolved Arsenic Concentration by Monitoring Well for Data Collected in 2022 and 2023.

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

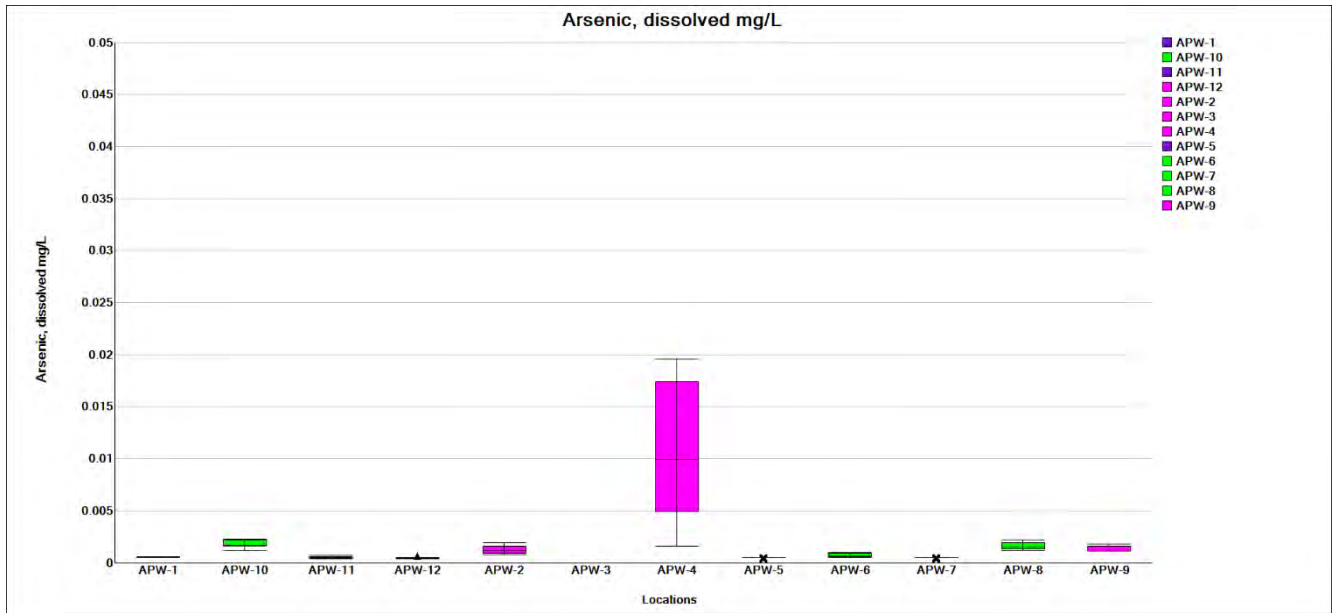


Figure 3-6B. Box-Whisker Plot Showing Distribution of Dissolved Arsenic Concentration by Monitoring Well for Data Collected in 2022 and 2023 (Zoomed In).

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

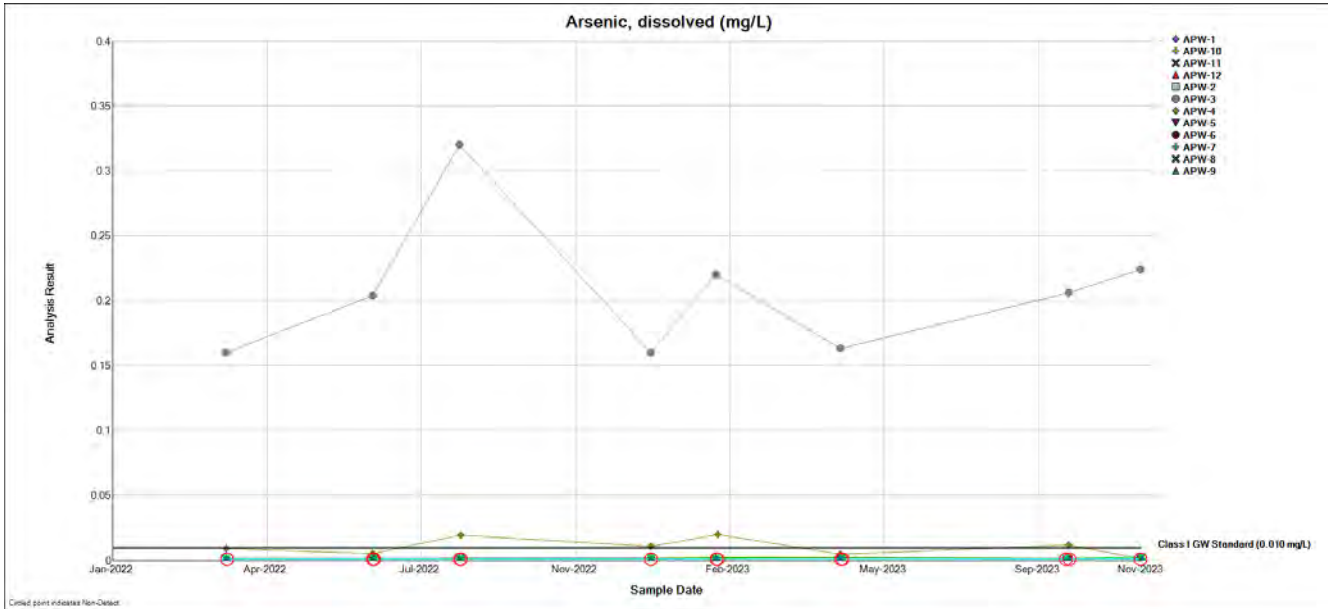


Figure 3-7A. Dissolved Arsenic Concentrations during the Reporting Period (2022–2023) at All Compliance Wells.

Circled results indicate non-detects.

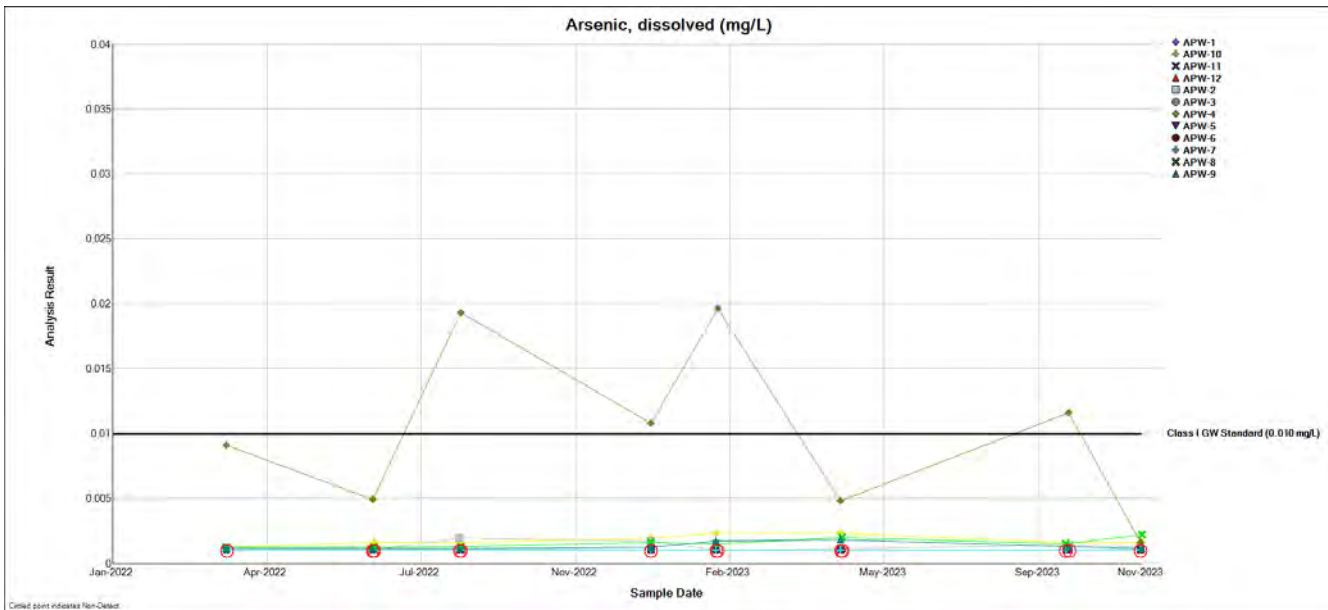


Figure 3-7B. Dissolved Arsenic Concentrations during the Reporting Period (2022–2023) at All Compliance Wells (Zoomed In).

Circled results indicate non-detects.

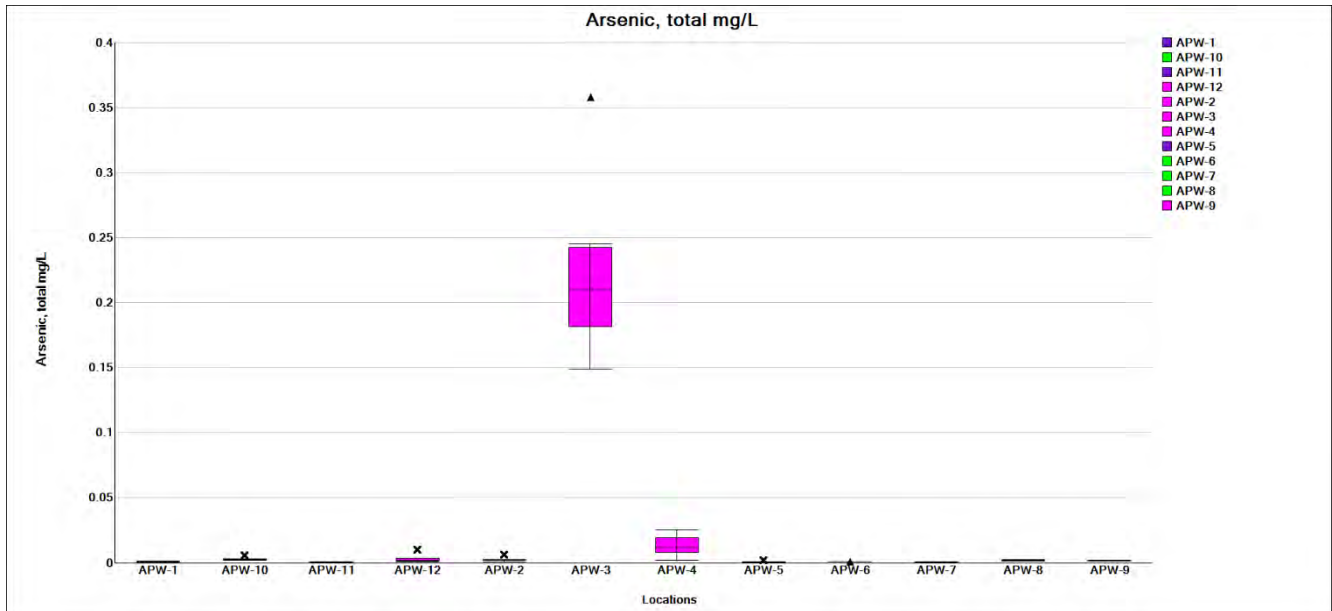


Figure 3-8A. Box-Whisker Plot Showing Distribution of Total Arsenic Concentration by Monitoring Well for Data Collected in 2022 and 2023.

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

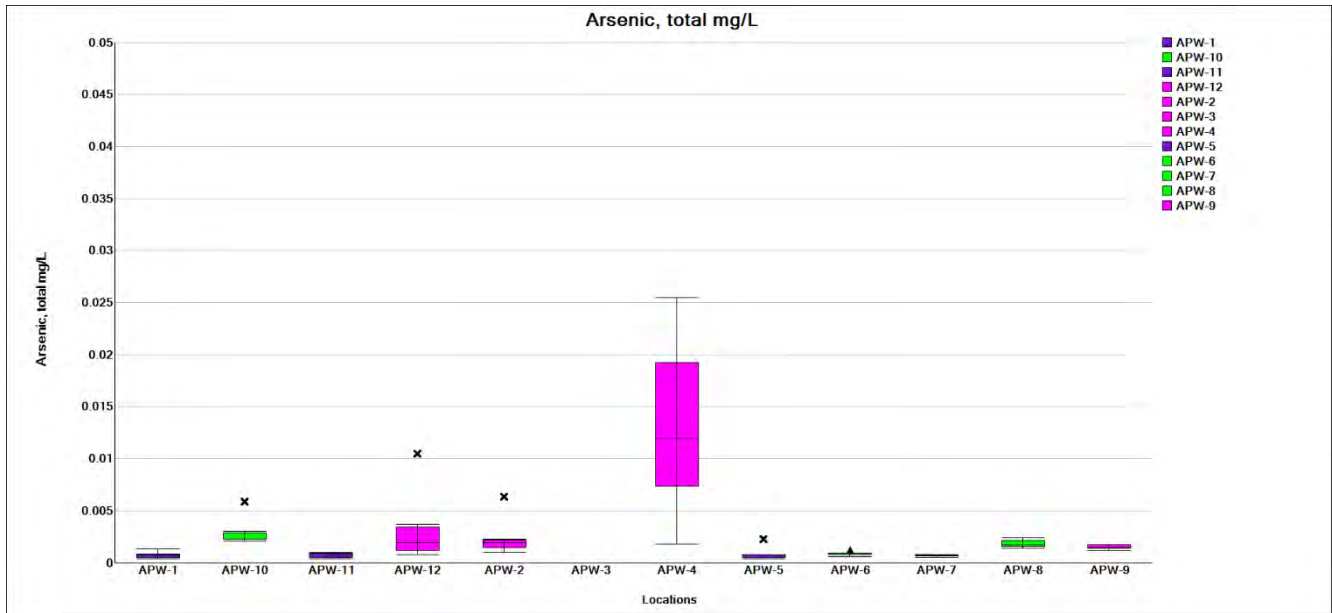


Figure 3-8B. Box-Whisker Plot Showing Distribution of Total Arsenic Concentration by Monitoring Well for Data Collected in 2022 and 2023 (Zoomed In).

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

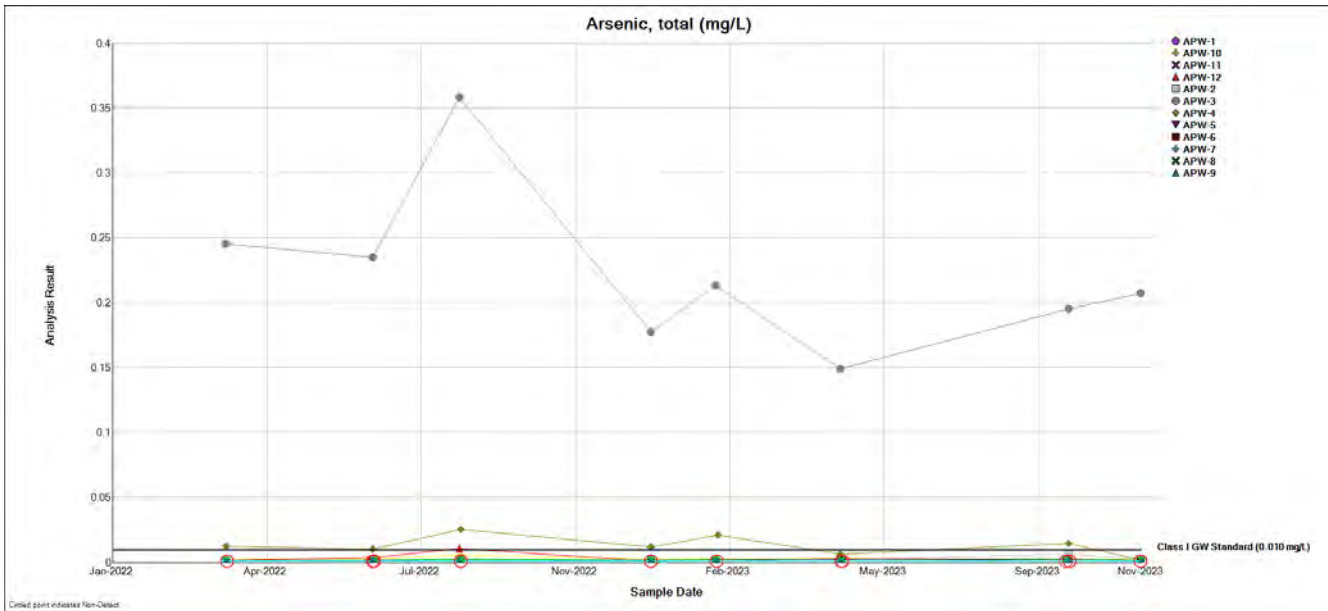


Figure 3-9A. Total Arsenic Concentrations during the Reporting Period (2022–2023) at All Compliance Wells.
Circled results indicate non-detects.

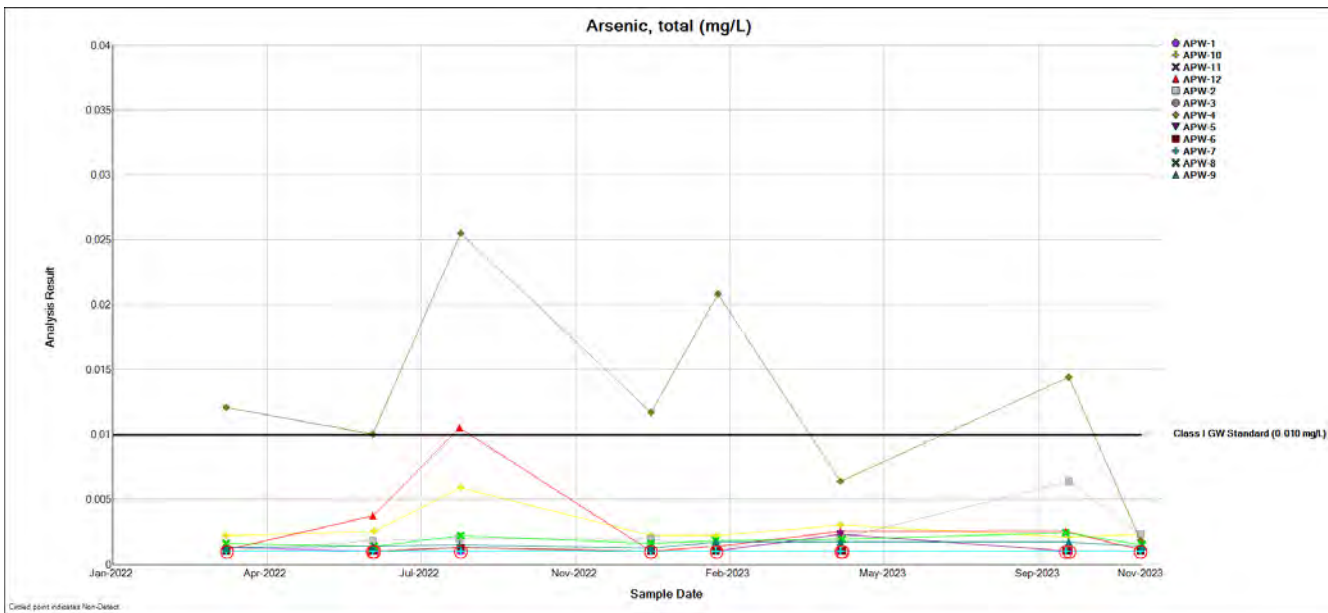


Figure 3-9B. Total Arsenic Concentrations during the Reporting Period (2022–2023) at All Compliance Wells (Zoomed In).
Circled results indicate non-detects.

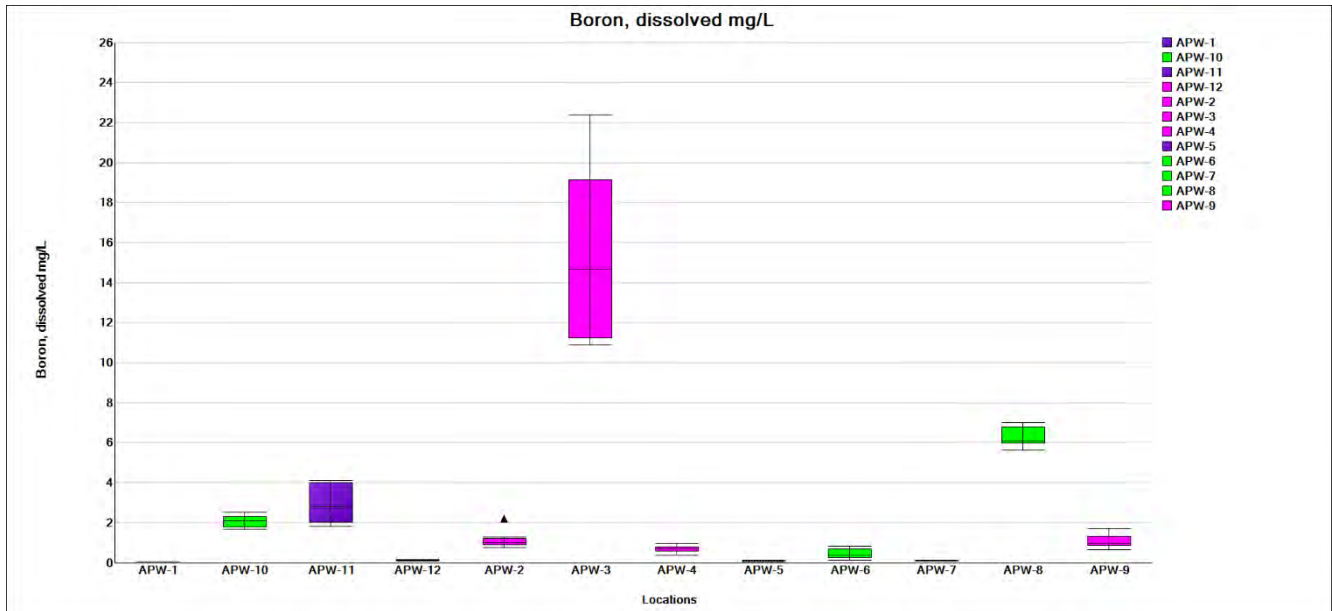


Figure 3-10. Box-Whisker Plot Showing Distribution of Dissolved Boron Concentration by Monitoring Well for Data Collected in 2022 and 2023.

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the interquartile range (IQR) of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

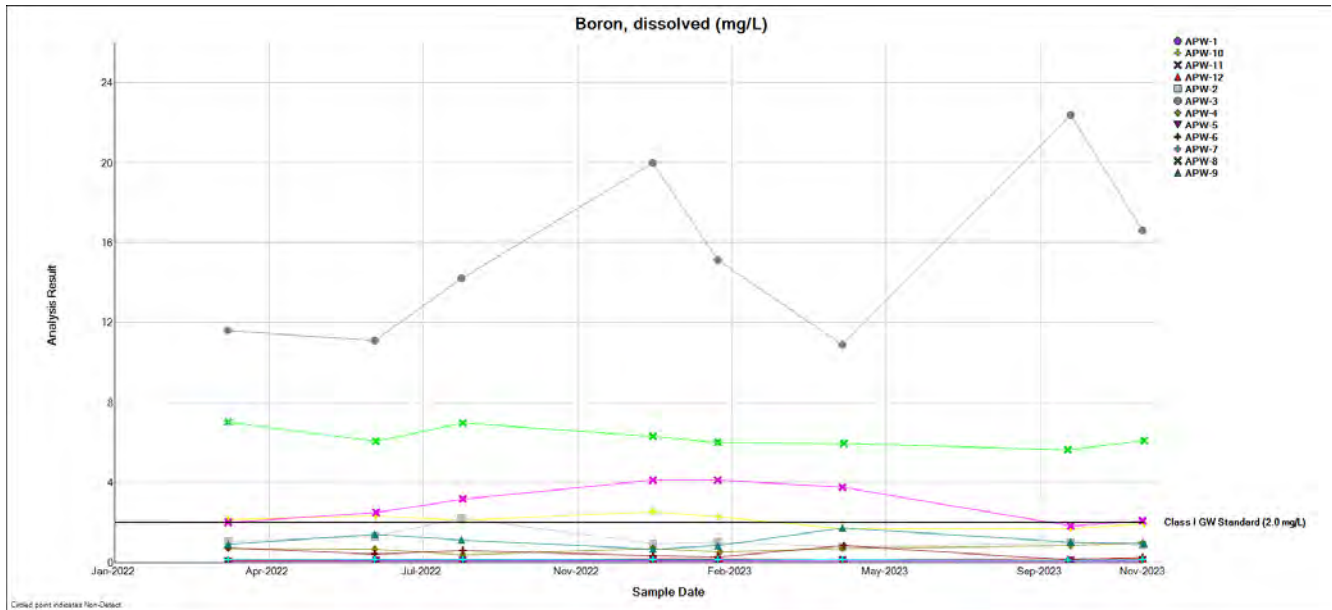


Figure 3-11. Dissolved Boron Concentrations during the Reporting Period (2022–2023) at All Compliance Wells.

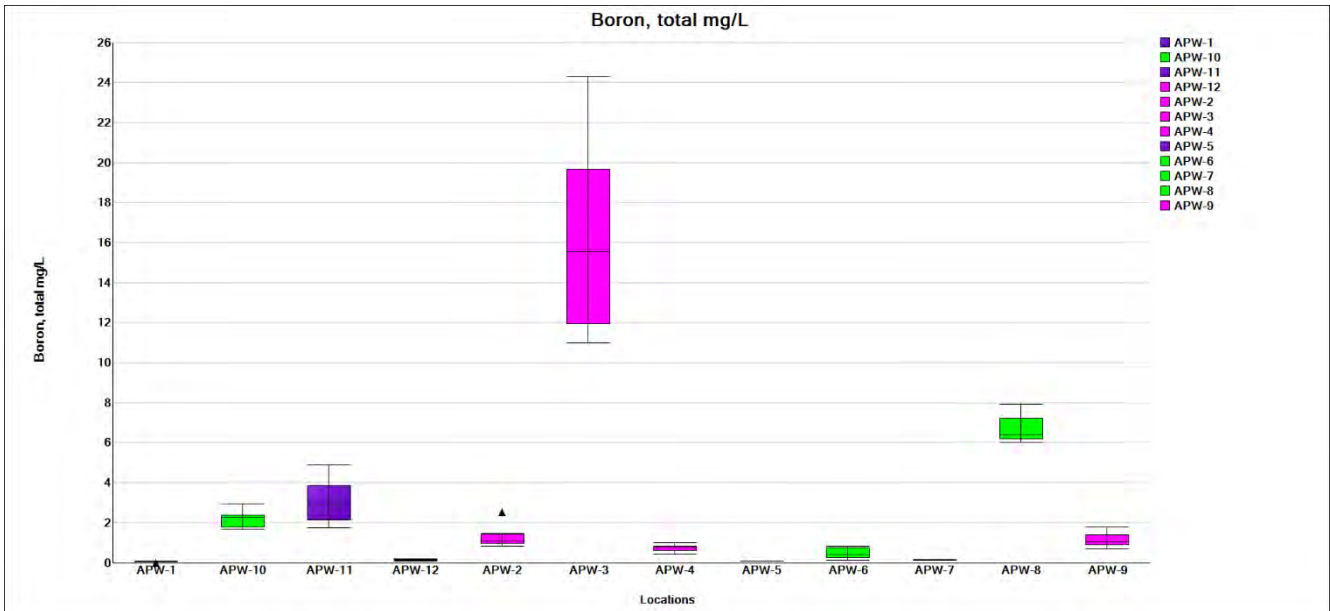


Figure 3-12. Box-Whisker Plot Showing Distribution of Total Boron Concentration by Monitoring Well for Data Collected in 2022 and 2023.

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

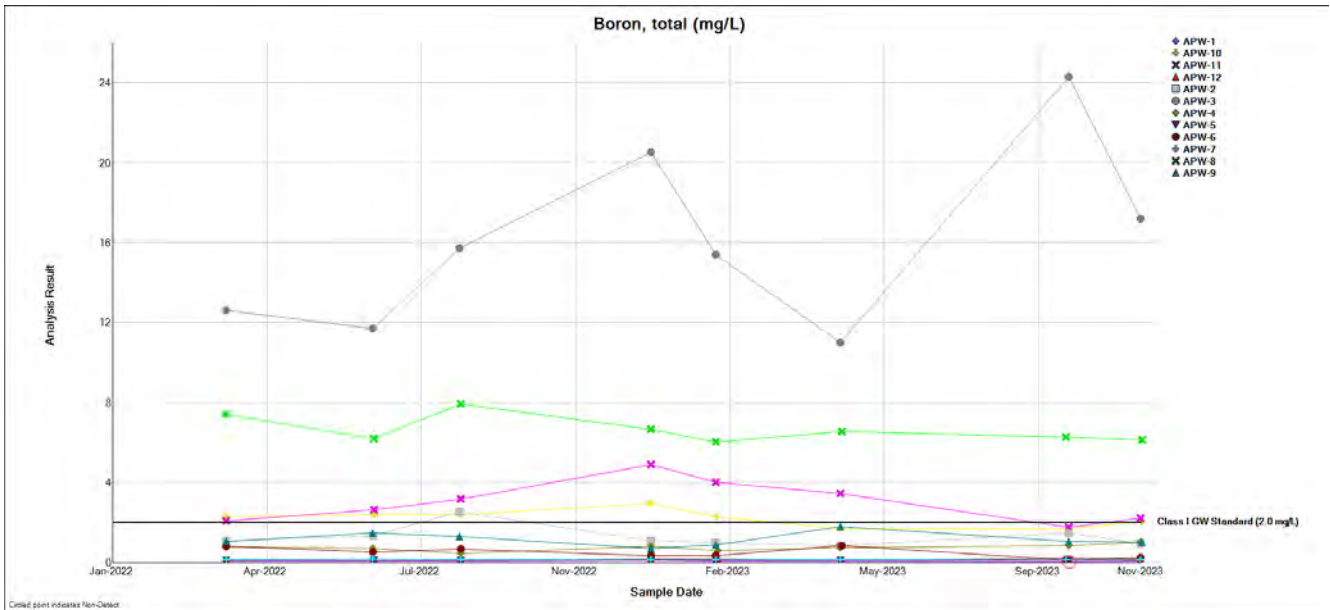


Figure 3-13. Total Boron Concentrations during the Reporting Period (2022–2023) at All Compliance Wells. Circled results indicate non-detects.

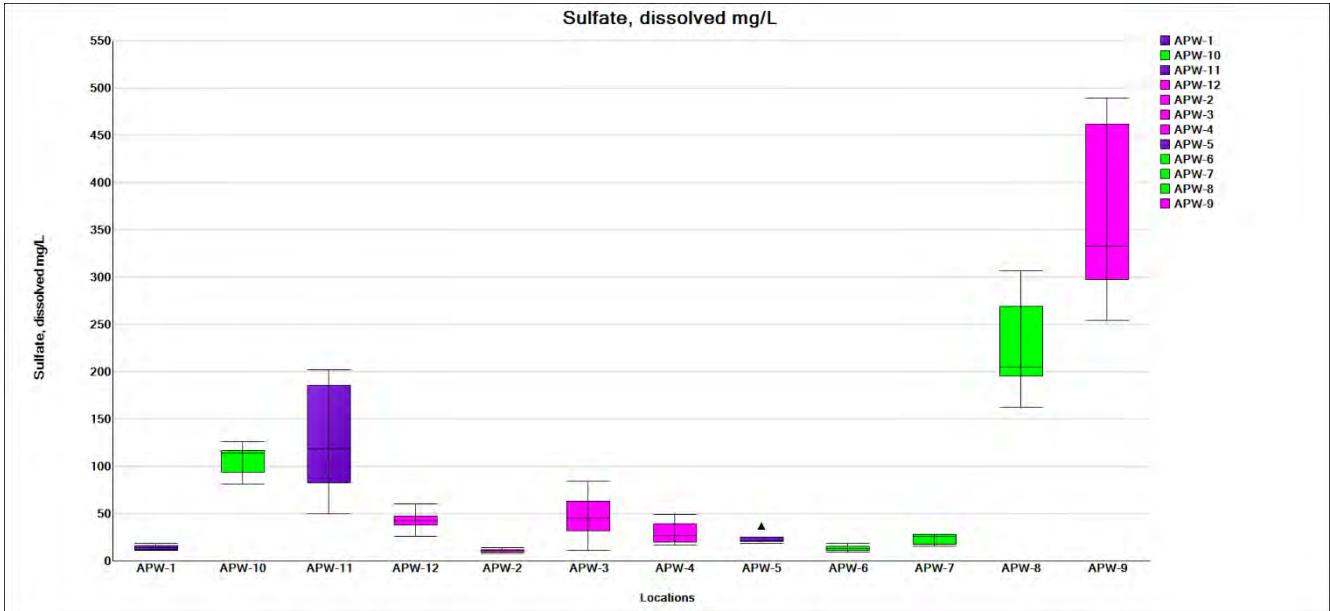


Figure 3-14. Box-Whisker Plot Showing Distribution of Dissolved Sulfate Concentration by Monitoring Well for Data Collected in 2022 and 2023.

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

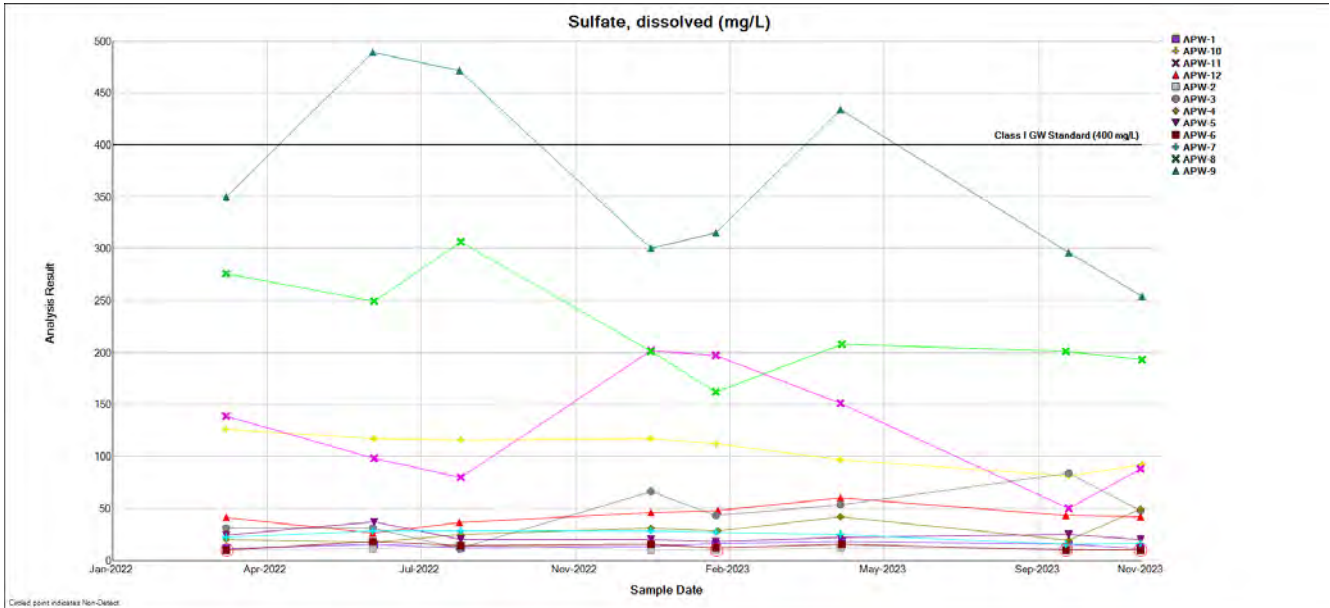


Figure 3-15. Dissolved Sulfate Concentrations during the Reporting Period (2022–2023) at All Compliance Wells.

Circled results indicate non-detects.

APPENDIX A
GROUNDWATER MONITORING RESULTS 2022-2023

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2022 to 12/31/2023

Well: APW-1

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/26/2023	9/22/2023	11/8/2023
SO4, diss, mg/L	11	15	12	13	16	18	15	11
Spec. Cond. (field), micromho	491	685	711	564	575	687	665	433
TDS, mg/L	208	420	392	240	264	204	344	246
Tl, diss, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tl, tot, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
V, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
V, tot, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zn, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zn, tot, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0271	<0.0100

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023****Date Range: 01/01/2022 to 12/31/2023****Well: APW-2**

	3/17/2022	6/21/2022	8/17/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/8/2023
SO4, diss, mg/L	10	11	14	10	<10	12	11	<10
Spec. Cond. (field), micromho	684	479	793	704	571	678	680	548
TDS, mg/L	300	356	492	332	362	178	374	276
TI, diss, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
TI, tot, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
V, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
V, tot, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0114	<0.0100
Zn, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zn, tot, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0233	0.0102

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023****Date Range: 01/01/2022 to 12/31/2023****Well: APW-3**

	3/17/2022	6/21/2022	8/17/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/8/2023
SO4, diss, mg/L	31	31	11	66	43	53	84	48
Spec. Cond. (field), micromho	1310	772	1030	1430	1280	1350	1190	1230
TDS, mg/L	636	612	676	760	850	560	755	785
Tl, diss, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tl, tot, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
V, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
V, tot, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0160	<0.0100
Zn, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zn, tot, mg/L	<0.0100	0.0131	<0.0100	0.0122	<0.0100	<0.0100	0.0371	<0.0100

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023****Date Range: 01/01/2022 to 12/31/2023****Well: APW-4**

	3/17/2022	6/21/2022	8/18/2022	12/21/2022	2/3/2023	4/25/2023	9/22/2023	11/8/2023
SO4, diss, mg/L	20	17	25	31	28	42	19	49
Spec. Cond. (field), micromho	890	520	613	954	718	901	813	819
TDS, mg/L	396	368	420	444	360	410	465	534
Tl, diss, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tl, tot, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
V, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
V, tot, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zn, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zn, tot, mg/L	0.0111	0.0133	0.0221	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2022 to 12/31/2023

Well: APW-8

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/26/2023	9/20/2023	11/9/2023
Ag, diss, mg/L	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Ag, tot, mg/L	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
As, diss, mg/L	0.0012	0.0012	0.0013	0.0016	0.0015	0.0020	0.0015	0.0022
As, tot, mg/L	0.0016	0.0014	0.0022	0.0016	0.0018	0.0019	0.0024	0.0015
B, diss, mg/L	7.0200	6.0500	6.9600	6.2800	5.9700	5.9500	5.6100	6.1000
B, tot, mg/L	7.3800	6.2000	7.9100	6.6500	6.0300	6.5300	6.2700	6.1300
Ba, diss, mg/L	0.0538	0.0706	0.0676	0.0479	0.0521	0.0631	0.0508	0.0495
Ba, tot, mg/L	0.0583	0.0748	0.0781	0.0552	0.0568	0.0637	0.0604	0.0508
Be, diss, mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Be, tot, mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cd, diss, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cl, diss, mg/L	12.0	11.0	11.0	11.0	12.0	12.0	10.0	11.0
Co, diss, mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Co, tot, mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cr, diss, mg/L	0.0256	0.0072	0.0108	0.0320	0.0223	0.0133	0.0102	0.0118
Cr, tot, mg/L	0.0278	0.0078	0.0138	0.0381	0.0230	0.0134	0.0126	0.0117
Cu, diss, mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cu, tot, mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
F, diss, mg/L	0.13	0.10	0.12	<0.10	<0.10	0.13	<0.10	<0.10
Fe, diss, mg/L	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
Fe, tot, mg/L	0.1300	0.1240	0.9260	0.0751	<0.0400	0.2460	0.9890	<0.0400
GW Elv, ft	429.06	430.76	427.39	431.11	425.35	426.79	424.30	424.08
Hg, diss, mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Hg, tot, mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mn, diss, mg/L	<0.0070	<0.0070	<0.0070	<0.0070	<0.0070	<0.0070	<0.0070	<0.0070
Mn, tot, mg/L	0.0156	0.0158	0.1010	0.0159	<0.0070	0.0252	0.1320	<0.0070
Ni, diss, mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ni, tot, mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0062	<0.0050
NO2, diss, mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
NO3, diss, mg/L	4.730	4.280	3.900	3.330	3.360	3.650	4.090	3.880
Pb, diss, mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Pb, tot, mg/L	<0.0010	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	0.0013	<0.0010
pH (field), STD	7.34	7.29	7.41	7.44	7.43	6.89	7.24	7.07
Sb, diss, mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sb, tot, mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Se, diss, mg/L	0.0583	0.0698	0.0614	<0.0400	0.0512	<0.0400	0.0801	0.0600
Se, tot, mg/L	0.0627	0.0720	0.0819	0.0451	0.0492	0.0546	0.0798	0.0666

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023****Date Range: 01/01/2022 to 12/31/2023****Well: APW-10**

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/9/2023
SO4, diss, mg/L	126	117	116	117	112	97	81	92
Spec. Cond. (field), micromho	809	515	588	714	596	661	529	497
TDS, mg/L	386	382	408	374	382	318	320	336
TI, diss, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
TI, tot, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
V, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
V, tot, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zn, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zn, tot, mg/L	<0.0100	<0.0100	0.0137	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2022 to 12/31/2023

Well: APW-12

	3/17/2022	6/21/2022	8/17/2022	12/21/2022	2/3/2023	4/25/2023	9/20/2023	11/8/2023
SO4, diss, mg/L	41	26	36	46	48	60	43	42
Spec. Cond. (field), micromho	876	466	678	881	752	1060	885	780
TDS, mg/L	372	340	414	420	448	520	524	440
Tl, diss, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tl, tot, mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
V, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
V, tot, mg/L	<0.0100	<0.0100	0.0186	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zn, diss, mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Zn, tot, mg/L	<0.0100	0.0157	0.0343	<0.0100	<0.0100	0.0112	0.0106	<0.0100

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2022 to 12/31/2023

Well: APW-13

	3/17/2022	6/21/2022
Ag, diss, mg/L	<0.007	<0.007
Ag, tot, mg/L	<0.007	<0.007
As, diss, mg/L	<0.0010	<0.0010
As, tot, mg/L	0.0012	<0.0010
B, diss, mg/L	7.1300	5.2700
B, tot, mg/L	7.4600	5.5200
Ba, diss, mg/L	0.0553	0.0405
Ba, tot, mg/L	0.0599	0.0438
Be, diss, mg/L	<0.0005	<0.0005
Be, tot, mg/L	<0.0005	<0.0005
Cd, diss, mg/L	<0.0020	<0.0020
Cl, diss, mg/L	20.0	6.0
Co, diss, mg/L	<0.0050	<0.0050
Co, tot, mg/L	<0.0050	<0.0050
Cr, diss, mg/L	0.0083	<0.0050
Cr, tot, mg/L	0.0143	<0.0050
Cu, diss, mg/L	<0.0050	<0.0050
Cu, tot, mg/L	<0.0050	<0.0050
F, diss, mg/L	<0.10	<0.10
Fe, diss, mg/L	<0.0400	<0.0400
Fe, tot, mg/L	1.0600	0.6030
GW Elv, ft	430.15	431.35
Hg, diss, mg/L	<0.0002	<0.0002
Hg, tot, mg/L	<0.0002	<0.0002
Mn, diss, mg/L	<0.0070	<0.0070
Mn, tot, mg/L	0.0683	0.0266
Ni, diss, mg/L	<0.0050	<0.0050
Ni, tot, mg/L	0.0056	<0.0050
NO2, diss, mg/L	<0.05	<0.05
NO3, diss, mg/L	4.620	3.040
Pb, diss, mg/L	<0.0010	<0.0010
Pb, tot, mg/L	0.0011	<0.0010
pH (field), STD	7.03	7.06
Sb, diss, mg/L	<0.0010	<0.0010
Sb, tot, mg/L	<0.0010	<0.0010
Se, diss, mg/L	0.0873	<0.0400
Se, tot, mg/L	0.0892	<0.0400

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2022 to 12/31/2023**Well: APW-13**

	3/17/2022	6/21/2022
SO4, diss, mg/L	205	193
Spec. Cond. (field), micromho	1120	710
TDS, mg/L	572	624
Tl, diss, mg/L	<0.0020	<0.0020
Tl, tot, mg/L	<0.0020	<0.0020
V, diss, mg/L	<0.0100	<0.0100
V, tot, mg/L	<0.0100	<0.0100
Zn, diss, mg/L	<0.0100	<0.0100
Zn, tot, mg/L	<0.0100	<0.0100

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2022 to 12/31/2023

Well: APW-14

	6/21/2022
GW Elv, ft	431.57

APPENDIX B
STATISTICAL OUTPUT

**APPENDIX B1
TEST DESCRIPTIONS**



MANAGES

Groundwater Data Management and Evaluation
Software

Software Manual Product ID #1012581

Software Manual, February 2010

EPRI Project Manager
K. Ladwig

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10

STATISTICAL ANALYSIS

Stand-Alone Statistical Tests

Statistical Evaluation Report

The Statistical Evaluation Report is comprised of a series of subreports as described below.

User Selections:

- One location.
- Sample date range for data selection.
- Interval length: the length of the averaging period in months (1,2,3,4, or 6).
- One parameter.
- Non-detect processing: multiplier between 0 and 1.
- One-sided confidence ($1 - \alpha$) level – 0.90, 0.95 or 0.99.
- Limit type: used in the statistical overview to determine exceedances.

Mann-Kendall Trend and Seasonal Analysis Tests

The Mann-Kendall test for trend is insensitive to the presence or absence of seasonality. The test is non-parametric and does not assume any type of data distribution. Nonetheless, two forms of the test are provided in MANAGES, one ignoring data seasonality even if it is present, and one considering data seasonality. In the test, the null hypothesis, H_0 , is that the Sen trend is zero, and the alternate hypothesis, H_a , is that the trend is non-zero.

In general, the Mann-Kendall test considering seasonality indicates a larger range for allowable Sen estimate of trend when seasonality is actually present than the range indicated by the test performed ignoring seasonality.

In the Mann-Kendall Trend Analysis, available in under the Statistical Evaluation Report and in the Statistical Procedure for Detection Monitoring, and Mann-Kendall Seasonal Analysis, found under the Statistical Evaluation Report, MANAGES first calculates the Sen slope and the upper and lower confidence limits of the Sen slope, and then determines whether the Sen slope is statistically significant. Slope is statistically significant if it is non-zero.

<p>Mann-Kendall Test for Sen Slope Significance – a two-sided, non-parametric method for data sets as small as 10, unless there are many tied (e.g., equal, NDs are treated as ties) values (Gilbert, 1987; p. 208)</p>	
<p>Indicator Function</p> <p>$\text{sgn}(x_{ij} - x_{jk})$</p>	<p>= 1 if $(x_{ij} - x_{jk}) > 0$</p> <p>= 0 if $(x_{ij} - x_{jk}) = 0$</p> <p>= -1 if $(x_{ij} - x_{jk}) < 0$</p> <p>where $x_{i1}, x_{i2}, \dots, x_{in}$ are the time ordered data (n_i is total of data in the i-th season).</p>
<p>Mann-Kendall Statistic, S_i</p>	$= \sum_{k=1}^{n_i-1} \sum_{j=k+1}^{n_i} \text{sgn}(x_{ij} - x_{jk})$
<p>Variance of S_i $\text{VAR}(S_i)$</p>	<p>$\text{VAR}(S_i) =$</p> $\frac{1}{18} \left\{ n_i(n_i - 1)(2n_i + 5) - \sum_{p=1}^{g_i} t_{ip}(t_{ip} - 1)(2t_{ip} + 5) - \sum_{q=1}^{h_i} u_{iq}(u_{iq} - 1)(2u_{iq} + 5) \right\}$ $+ \frac{\sum_{p=1}^{g_i} t_{ip}(t_{ip} - 1)(t_{ip} - 2) \sum_{q=1}^{h_i} u_{iq}(u_{iq} - 1)(u_{iq} - 2)}{9n_i(n_i - 1)(n_i - 2)}$ $+ \frac{\sum_{p=1}^{g_i} t_{ip}(t_{ip} - 1) \sum_{q=1}^{h_i} u_{iq}(u_{iq} - 1)}{2n_i(n_i - 1)}.$ <p>The variable g_i is the number of tied groups (equal-valued) data in the i-th season, t_{ip} is the number of tied data in the p-th group for the i-th season, h_i is the number of sampling times (or time periods) in the i-th season that contain multiple data, u_{iq} is the number of multiple data in the q-th time period in the i-th season, and n_i is the number of data values in the i-th season.</p>

<p>Test Statistic, Z</p>	<p>If $S' = \sum_{i=1}^K S_i$, where K is the number of seasons, then the test statistic Z is computed as:</p> $Z = \begin{cases} \frac{S'-1}{[\text{VAR}(S')]^{1/2}} & \text{iff } S' > 0 \\ 0 & \text{iff } S' = 0 \\ \frac{S'+1}{[\text{VAR}(S')]^{1/2}} & \text{iff } S' < 0 \end{cases}$ <p>Where “iff” is an acronym meaning: if-and-only-if. A positive Z value means an upward trend and a negative Z value means a negative trend.</p>
<p>Hypothesis Test: H_0 = no trend H_a = trend present This is a two-sided test at the α significance level.</p>	<p>Accept the null hypothesis H_0 of no trend if $Z \leq Z_{1-\alpha/2}$</p> <p>Reject the null hypothesis H_0 if $Z > Z_{1-\alpha/2}$</p> <p>where $Z_{1-\alpha/2}$ is obtained from Table A1 in Gilbert (1987; p. 254).</p>

Kruskal-Wallis Analysis (Test for Seasonality)

To perform the Kruskal-Wallis test for data seasonality, data points are first segmented according to season (Gilbert, 1987). The null hypothesis, H_0 , is that all seasons have the same mean value. The alternative hypothesis, H_a , is that at least one season has a mean larger or smaller than the mean of at least one other season. Montgomery et al. (1987) provide additional information on groundwater data seasonality. This is a two-sided, non-parametric test.

In MANAGES, the Kruskal-Wallis Test for Seasonality is found under Data Review // Non-Parametric Methods // Kruskal-Wallis Analysis. It determines whether the seasonal means for the specified parameter at the specified location are statistically the same.

	or $Z_i \geq SCL$.
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Outlier Tests

Outlier tests are useful in detecting inconsistencies of measurement within a data set. An outlier is defined as an observation that appears to deviate markedly from other values of a sample set. There are many possible reasons for the presence of an outlier, including 1) the presence of a true but extreme value from a single population, resulting from random variability inherent in the data; 2) an improper identification of the underlying distribution describing the population from which the sample set comes from; 3) the occurrence of some unknown event(s) such as a spill, creating a mixture of two or more populations; 4) a gross deviation from prescribed sampling procedures or laboratory analysis; 5) a transcription error in the data value or data unit of measurement.

USEPA (1989; p. 8-11) states that the purpose of a test for outliers is to determine whether or not there is statistical evidence that an observation that appears extreme does not fit the distribution of the rest of the data. If an observation is identified as an outlier, then steps need to be taken to determine whether it is the result of an error or a valid extreme observation. If a true error, such as in transcription, dilution, or analytical procedure, can be identified, then the suspect value should be replaced with its corrected value. If the source of the error can be determined but no correction is possible, then the observation is deleted and the reason for deletion is reported along with any statistical analysis. If no source of error can be documented, then it must be assumed that the observation is a true but extreme value of the data set. If this is the case, the outlier observation(s) must not be altered or excluded from any statistical analysis. Identification of an observation as an outlier but with no error documented could be used to suggest resampling to confirm the value (USEPA, 1989; p. 8-13).

The outlier tests provided in MANAGES are based on either the single outlier test of Grubbs (1969), which is used by USEPA (1989; pp. 8-10 to 8-13) or the single outlier test of Dixon (1951, 1953), which is used by USEPA (2000; pp. 4-24) and by ASTM (1998). The outlier tests assume the data come from a normal distribution. Only one outlier, either an extreme low or an extreme high, can be detected during a single analysis of a data set. Additional outliers can be detected by temporarily removing a previously detected outlier from a data set and then repeating the test on the remaining, reduced, data set. During each pass of the outlier test, the sample mean, standard deviation, and sample size used in the test statistics are computed using only the data remaining in the set. The process can be continued until there is either an insufficient amount of data remaining (a minimum of 3 values) or when no additional outliers are found. When using MANAGES, the user will be asked how many outliers are to be checked and it will then automatically perform all of the recursive calls and data reductions with the Grubbs or Dixon routine. When done, a report can be generated that will show each outlier marked with a flag indicating the sequential order in which the outliers were identified.

Critical values used in the one-sided Grubbs test are taken directly from those in Grubbs and Beck (1972) for sample sizes smaller than 147 observations. Critical values for sample sizes larger than 147 were generated numerically using a Monte Carlo routine, where each sampling event was simulated 100,000 times. Sample sizes ranging from 148 to 5,000 were used and then their resultant test statistic T_n curve fitted at specific significance levels. By this method, it was possible to match Grubbs results to at least four significant digits for corresponding tabulated values.

Critical values used in the one-sided Dixon outlier test are taken directly from tables given in Dixon (1951), Dixon (1953; page 89), and USEPA (2000; p. A-5, Table A-3). The critical values were then curve fitted for every sample size between 3 and 25 as a function of the significance level. By this method, it was possible to match Dixon's results to at least four significant digits for corresponding tabulated values. Note that the Dixon test assumes the data are either normally or lognormally distributed. Hence, sample sizes can only range between 3 and 25, inclusive. Dixon never developed an outlier test for sample sizes larger than 25.

User Selections:

- One or up to 100 locations: a separate test is performed for each location.
- One or up to 100 parameters: a separate test is performed for each parameter.
- Evaluation date range.
- Confidence $(1 - \alpha)$ level: 0.90, 0.95 or 0.99.
- Non-detect processing: multiplier between 0 and 1.
- Data transformation option: none and log (base e).
- Number of outliers: one, two, first 5%, first 10%. Selecting any option other than one causes MANAGES to rerun the test, with outliers from prior tests removed, until either no outliers are detected or the specified number of outliers are detected.

Technical Details

<p>Grubbs Outlier Test – The Grubbs outlier test determines whether there is statistical evidence that an observation does not fit the remaining data (USEPA, 1989; p. 8-11). This significance test looks at either the highest or the lowest observation in normal samples.</p>	
<p>The number of observations taken during a specified scoping period; n</p>	<p>n</p>

Statistical Analysis

<p>Mean of the observed data during the scoping period; \bar{X}</p>	$\bar{X} = \frac{1}{n} \sum_{i=1}^n X_i$ <p>where X_i is the i-th observation.</p>
<p>Standard deviation of observed data; S_x.</p>	$S_x = \sqrt{\frac{1}{(n-1)} \sum_{i=1}^n (X_i - \bar{X})^2}$
<p>Test statistics: T_l & T_n</p>	<p>Sort the data into ascending order, then compute the statistics</p> $T_l = (\bar{X} - X_l) / S_x$ $T_n = (X_n - \bar{X}) / S_x$ <p>where X_l is the smallest value of the n observations and X_n is the largest value of the n observations.</p>
<p>One-sided test with a $(1-\alpha)$ confidence level that there is a single extreme outlier within the n observations.</p>	<p>Grubbs single, one-sided test of either an extreme low outlier :</p> $X_l \text{ is an outlier if } T_l \geq T_{cr(1-\alpha,n)}$ <p>or an extreme high outlier:</p> $X_n \text{ is an outlier if } T_n \geq T_{cr(1-\alpha,n)}$ <p>The function $T_{cr(1-\alpha,n)}$ is the critical value, given in Grubbs and Beck (1972; Table 1) and USEPA (1989; p. B-11, Table 8) . Note that the critical value assumes that the mean and standard deviation are computed from the sample being tested.</p>

Dixon Outlier Test – The Dixon outlier test determines whether there is statistical evidence that an extreme observation does not fit the remaining data (USEPA, 2000; p. 4-24 and ASTM D6312, 1998). This significance test looks at both the highest and the

<p>lowest observations in a sample data set. However, the routine will only perform the outlier tests if several conditions are first satisfied. For example, the Dixon outlier algorithm checks the distribution of the sample data for both normality and lognormality using the Shapiro-Wilk W-test. The outlier routine will not proceed with a data set if the W-test fails. In addition, the Dixon outlier test is limited to a minimum of 3 and a maximum sample size n of 25 data values.</p>	
<p>The number of observations taken during a specified scoping period; n</p>	<p>Number of observations, n, where</p> $3 \leq n \leq 25.$
<p>Sorting the sample data</p>	<p>Sort the data into ascending order, with the minimum data value $X_{(1)}$ first and the maximum data value $X_{(n)}$ last. Use the natural log of the data values if data are lognormally distributed, i.e., $X_{(j)} = \text{Ln}[X_{(j)}]$.</p>
<p>Goodness-of fit tests</p>	<p>After temporarily excluding either the minimum or maximum value of the data set, the Shapiro-Wilk's W-test is used to determine if the remaining $n - 1$ values are normally or lognormally distributed. If not, the Dixon outlier test can't be used.</p>
<p>Test statistic, T_s, for the minimum data value</p>	<p>Compute the T_s test statistic for $X_{(1)}$ as an outlier:</p> $T_s = \frac{X_{(2)} - X_{(1)}}{X_{(n)} - X_{(1)}} \quad \text{for } 3 \leq n \leq 7$ $T_s = \frac{X_{(2)} - X_{(1)}}{X_{(n-1)} - X_{(1)}} \quad \text{for } 8 \leq n \leq 10$ $T_s = \frac{X_{(3)} - X_{(1)}}{X_{(n-1)} - X_{(1)}} \quad \text{for } 11 \leq n \leq 13$ $T_s = \frac{X_{(3)} - X_{(1)}}{X_{(n-2)} - X_{(1)}} \quad \text{for } 14 \leq n \leq 25.$
<p>Test statistic, T_s, for the maximum data value</p>	<p>Compute the T_s test statistic for $X_{(n)}$ as an outlier:</p>

Statistical Analysis

	$T_s = \frac{X_{(n)} - X_{(n-1)}}{X_{(n)} - X_{(1)}} \quad \text{for } 3 \leq n \leq 7$ $T_s = \frac{X_{(n)} - X_{(n-1)}}{X_{(n)} - X_{(2)}} \quad \text{for } 8 \leq n \leq 10$ $T_s = \frac{X_{(n)} - X_{(n-2)}}{X_{(n)} - X_{(2)}} \quad \text{for } 11 \leq n \leq 13$ $T_s = \frac{X_{(n)} - X_{(n-2)}}{X_{(n)} - X_{(3)}} \quad \text{for } 14 \leq n \leq 25.$
<p>Critical value T_c</p>	<p>USEPA (2000; p. A-5, Table A-3) lists the critical values of the Dixon test as a function of sample size for a one-sided extreme value test at the significance levels α of 0.1, 0.05, and 0.01.</p>
<p>One-sided test with a $(1 - \alpha)$ confidence level that there is a single extreme outlier within the n observations.</p>	<p>Dixon's single, one-sided test for statistical evidence of either an extreme low-valued outlier:</p> <p>$X_{(1)}$ is an outlier if $T_s \geq T_c$</p> <p>or an extreme high-valued outlier:</p> <p>$X_{(n)}$ is an outlier if $T_s \geq T_c$.</p> <p>The function T_c is the critical value, given in Dixon (1953; page 89) and USEPA (2000; p. A-5, Table A-3). Note that the critical value assumes that the data are either normally or lognormally distributed.</p>

Other Statistical Calculations Used in MANAGES

Sen Estimate of Slope

The Sen estimate of slope is the median of all slopes between all possible unique pairs of individual data points in the time period being analyzed (Gilbert, 1987). The slopes represent the rate of change of the measured parameter, with the y-axis being the parameter value and the x-axis being calendar days. Sen's estimate of slope is a non-parametric estimator of trend. The method is robust, and fairly insensitive to the presence of a small fraction of outliers and non-detect data values. In contrast, linear regression and other least squares estimators of slope are significantly more sensitive, and more likely to give erroneous slope indications, even when only a few outlier values are present.

When data averaging is not activated, the Sen slope is calculated using individual data points and actual sampling dates. When data averaging is activated, multiple data points within each specified season period are reduced to one data point by arithmetic averaging over each of the season periods. These averaged values are then assigned to the day that corresponds to the middle of that season's period.

The approximate lower and upper confidence limits for the Sen slope can also be calculated using normal theory (Gilbert, 1987). It should be noted that confidence limits for the Sen slope are not necessarily symmetrical about the estimated slope since ranked values of slope are used in the calculation.

MANAGES calculates Sen slope in the Sen Slope Overlay Graph, Statistical Summary reports and in the two Mann-Kendall tests performed under the Statistical Evaluation Report.

<p>Sen's Estimate of Slope – two-sided, non-parametric method that calculates the trend of a single data series. It is less sensitive to outliers and non-detect values than linear regression (Gilbert, 1987; p. 217).</p>	
<p>Slope, Q</p>	$= \frac{X_{j'} - X_i}{j' - i}$ <p>where $X_{j'}$ and X_i are data values at times j' and i, respectively, and where $j' > i$. Typically, j' and i are expressed in units of either days for trend analysis or years for seasonal analysis.</p>
<p>N'</p>	<p>Number of unique data point pairs that can be made for the observations in the data set, for $j' > i$. For n monitoring events, N' is given as:</p> $N' = n(n-1)/2$

Sen's Slope Estimate	<p>Sen's slope estimator = median slope</p> <p>= $Q_{[(N'+1)/2]}$ if N' is odd</p> <p>= $\frac{1}{2}(Q_{[N'/2]} + Q_{[(N'+2)/2]})$ if N' is even</p> <p>where the Q values have first been ranked from smallest to largest.</p>
$Z_{1-\alpha/2}$	Statistic for the cumulative normal distribution (Gilbert, 1987; p. 254) for the two-sided, α significance level.
Variance estimate of the Mann-Kendall S Statistic, VAR(S)	<p>VAR(S)</p> <p>= $\frac{1}{18}[n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5)]$</p> <p>where g is the number of tied groups, t_p is the number of data in the pth group, and n is the number of data values.</p>
C_α	= $Z_{1-\alpha/2} \sqrt{\text{VAR}(S)}$
Sen's Slope, a two-sided test at the α significance level	<p>$M_1 = \frac{(N' - C_\alpha)}{2}$</p> <p>$M_2 = \frac{(N' + C_\alpha)}{2}$</p> <p>Lower limit of confidence interval is the M_1-th largest slope, and upper limit of confidence interval is the $(M_2 + 1)$-th largest of the N' ordered slope estimates.</p>

Coefficient of Skewness for Normality

The coefficient of skewness is another measure for data normality (Gilbert, 1987). MANAGES provides the value of the coefficient of skewness in the Statistical Evaluation Report, Statistical Overview. Additional information on data normality is given by Montgomery, et al. (1987).

APPENDIX B2
OUTLIER TEST RESULTS

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Antimony, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Antimony, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 4.4772$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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06/30/2021	0.0010	False		1
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Antimony, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Antimony, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Antimony, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Antimony, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.5110$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Antimony, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.5110$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Antimony, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0004

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0017$

Test Statistic, high extreme of all data: $T_n = 4.1514$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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12/13/2021	0.0017	False		1
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Antimony, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Antimony, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0011$

Test Statistic, high extreme of all data: $T_n = 5.0037$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/20/2023	0.0011	False		1

Antimony, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Antimony, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Antimony, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0011$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0011	False		1

Antimony, total, mg/L

Location: APW-1

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Antimony, total, mg/L

Location: APW-10

Mean of all data: 0.0006

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0018$

Test Statistic, high extreme of all data: $T_n = 3.7826$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.0018	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Antimony, total, mg/L

Location: APW-11

Mean of all data: 0.0006

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0026$

Test Statistic, high extreme of all data: $T_n = 4.4772$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0026	False		1

Antimony, total, mg/L

Location: APW-12

Mean of all data: 0.0006

Standard Deviation of all data: 0.0005

Largest Observation Concentration of all data: $X_n = 0.0029$

Test Statistic, high extreme of all data: $T_n = 4.3644$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0029	False		1

Antimony, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Antimony, total, mg/L

Location: APW-2

Mean of all data: 0.0007

Standard Deviation of all data: 0.0007

Largest Observation Concentration of all data: $X_n = 0.0041$

Test Statistic, high extreme of all data: $T_n = 4.7743$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/30/2021	0.0041	False		1

Antimony, total, mg/L

Location: APW-3

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Antimony, total, mg/L

Location: APW-4

Mean of all data: 0.0005

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0013$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0013	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Antimony, total, mg/L

Location: APW-5

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0012$

Test Statistic, high extreme of all data: $T_n = 5.0037$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/30/2021	0.0012	False		1

Antimony, total, mg/L

Location: APW-6

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Antimony, total, mg/L

Location: APW-7

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Antimony, total, mg/L

Location: APW-8

Mean of all data: 0.0007

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0057$

Test Statistic, high extreme of all data: $T_n = 4.9705$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0057	False		1

Antimony, total, mg/L

Location: APW-9

Mean of all data: 0.0006

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0016$

Test Statistic, high extreme of all data: $T_n = 3.0887$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/30/2021	0.0016	False		1

Arsenic, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Arsenic, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0016

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0023$

Test Statistic, high extreme of all data: $T_n = 2.3434$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Arsenic, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Arsenic, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0006

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0016$

Test Statistic, high extreme of all data: $T_n = 4.3644$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0016	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Arsenic, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Arsenic, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0019

Standard Deviation of all data: 0.0014

Largest Observation Concentration of all data: $X_n = 0.0044$

Test Statistic, high extreme of all data: $T_n = 1.8176$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Arsenic, dissolved, mg/L

Location: APW-3

Mean of all data: 0.2066

Standard Deviation of all data: 0.0495

Largest Observation Concentration of all data: $X_n = 0.3200$

Test Statistic, high extreme of all data: $T_n = 2.2889$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Arsenic, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0244

Standard Deviation of all data: 0.0386

Largest Observation Concentration of all data: $X_n = 0.1800$

Test Statistic, high extreme of all data: $T_n = 4.0295$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
10/28/2011	0.1800	False		1

Arsenic, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0011$

Test Statistic, high extreme of all data: $T_n = 2.6931$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Arsenic, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Arsenic, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/28/2017	0.0010	False		1

Arsenic, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0014

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0022$

Test Statistic, high extreme of all data: $T_n = 3.1390$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/09/2023	0.0022	False		1

Arsenic, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0011

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0018$

Test Statistic, high extreme of all data: $T_n = 2.0491$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Arsenic, total, mg/L

Location: APW-1

Mean of all data: 0.0016

Standard Deviation of all data: 0.0018

Largest Observation Concentration of all data: $X_n = 0.0089$

Test Statistic, high extreme of all data: $T_n = 4.0793$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0089	False		1

Arsenic, total, mg/L

Location: APW-10

Mean of all data: 0.0044

Standard Deviation of all data: 0.0072

Largest Observation Concentration of all data: $X_n = 0.0364$

Test Statistic, high extreme of all data: $T_n = 4.4375$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.0364	False		1

Arsenic, total, mg/L

Location: APW-11

Mean of all data: 0.0032

Standard Deviation of all data: 0.0077

Largest Observation Concentration of all data: $X_n = 0.0371$

Test Statistic, high extreme of all data: $T_n = 4.3853$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0371	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Arsenic, total, mg/L

Location: APW-12

Mean of all data: 0.0041

Standard Deviation of all data: 0.0092

Largest Observation Concentration of all data: $X_n = 0.0433$

Test Statistic, high extreme of all data: $T_n = 4.2450$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0433	False		1

Arsenic, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0012$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Arsenic, total, mg/L

Location: APW-2

Mean of all data: 0.0027

Standard Deviation of all data: 0.0015

Largest Observation Concentration of all data: $X_n = 0.0067$

Test Statistic, high extreme of all data: $T_n = 2.6105$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Arsenic, total, mg/L

Location: APW-3

Mean of all data: 0.2324

Standard Deviation of all data: 0.0530

Largest Observation Concentration of all data: $X_n = 0.3580$

Test Statistic, high extreme of all data: $T_n = 2.3696$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Arsenic, total, mg/L

Location: APW-4

Mean of all data: 0.0157

Standard Deviation of all data: 0.0107

Largest Observation Concentration of all data: $X_n = 0.0598$

Test Statistic, high extreme of all data: $T_n = 4.1214$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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12/13/2021	0.0598	False		1
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Arsenic, total, mg/L

Location: APW-5

Mean of all data: 0.0009

Standard Deviation of all data: 0.0008

Largest Observation Concentration of all data: $X_n = 0.0039$

Test Statistic, high extreme of all data: $T_n = 3.5920$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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03/21/2018	0.0039	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Arsenic, total, mg/L

Location: APW-6

Mean of all data: 0.0009

Standard Deviation of all data: 0.0006

Largest Observation Concentration of all data: $X_n = 0.0027$

Test Statistic, high extreme of all data: $T_n = 3.0437$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0027	False		1

Arsenic, total, mg/L

Location: APW-7

Mean of all data: 0.0016

Standard Deviation of all data: 0.0043

Largest Observation Concentration of all data: $X_n = 0.0225$

Test Statistic, high extreme of all data: $T_n = 4.8730$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.0225	False		1

Arsenic, total, mg/L

Location: APW-8

Mean of all data: 0.0028

Standard Deviation of all data: 0.0055

Largest Observation Concentration of all data: $X_n = 0.0301$

Test Statistic, high extreme of all data: $T_n = 4.9841$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0301	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Arsenic, total, mg/L

Location: APW-9

Mean of all data: 0.0020

Standard Deviation of all data: 0.0009

Largest Observation Concentration of all data: $X_n = 0.0042$

Test Statistic, high extreme of all data: $T_n = 2.5780$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Barium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0127

Standard Deviation of all data: 0.0043

Largest Observation Concentration of all data: $X_n = 0.0232$

Test Statistic, high extreme of all data: $T_n = 2.4584$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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12/13/2010	<0.0000	True	-1	
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Barium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0191

Standard Deviation of all data: 0.0022

Largest Observation Concentration of all data: $X_n = 0.0231$

Test Statistic, high extreme of all data: $T_n = 1.7994$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Barium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0155

Standard Deviation of all data: 0.0041

Largest Observation Concentration of all data: $X_n = 0.0284$

Test Statistic, high extreme of all data: $T_n = 3.1248$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/26/2021	0.0284	False		1

Barium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.1316

Standard Deviation of all data: 0.0336

Largest Observation Concentration of all data: $X_n = 0.2460$

Test Statistic, high extreme of all data: $T_n = 3.4084$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/29/2019	0.2460	False		1

Barium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0553$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Barium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0494

Standard Deviation of all data: 0.0136

Largest Observation Concentration of all data: $X_n = 0.0718$

Test Statistic, high extreme of all data: $T_n = 1.6394$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	<0.0000	True	-1	

Barium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0759

Standard Deviation of all data: 0.0297

Largest Observation Concentration of all data: $X_n = 0.1550$

Test Statistic, high extreme of all data: $T_n = 2.6669$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Barium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0473

Standard Deviation of all data: 0.0183

Largest Observation Concentration of all data: $X_n = 0.0950$

Test Statistic, high extreme of all data: $T_n = 2.6090$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Barium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0079

Standard Deviation of all data: 0.0020

Largest Observation Concentration of all data: $X_n = 0.0108$

Test Statistic, high extreme of all data: $T_n = 1.4891$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	<0.0000	True	-1	

Barium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0137

Standard Deviation of all data: 0.0030

Largest Observation Concentration of all data: $X_n = 0.0198$

Test Statistic, high extreme of all data: $T_n = 2.0676$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Barium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0292

Standard Deviation of all data: 0.0070

Largest Observation Concentration of all data: $X_n = 0.0445$

Test Statistic, high extreme of all data: $T_n = 2.1849$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Barium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0627

Standard Deviation of all data: 0.0085

Largest Observation Concentration of all data: $X_n = 0.0754$

Test Statistic, high extreme of all data: $T_n = 1.4918$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Barium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0236

Standard Deviation of all data: 0.0094

Largest Observation Concentration of all data: $X_n = 0.0490$

Test Statistic, high extreme of all data: $T_n = 2.7001$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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07/29/2020	0.0490	False		1
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Barium, total, mg/L

Location: APW-1

Mean of all data: 0.0215

Standard Deviation of all data: 0.0104

Largest Observation Concentration of all data: $X_n = 0.0650$

Test Statistic, high extreme of all data: $T_n = 4.1750$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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03/21/2018	0.0650	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Barium, total, mg/L

Location: APW-10

Mean of all data: 0.0294

Standard Deviation of all data: 0.0257

Largest Observation Concentration of all data: $X_n = 0.1430$

Test Statistic, high extreme of all data: $T_n = 4.4235$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.1430	False		1

Barium, total, mg/L

Location: APW-11

Mean of all data: 0.0235

Standard Deviation of all data: 0.0177

Largest Observation Concentration of all data: $X_n = 0.0970$

Test Statistic, high extreme of all data: $T_n = 4.1496$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0970	False		1

Barium, total, mg/L

Location: APW-12

Mean of all data: 0.1691

Standard Deviation of all data: 0.0725

Largest Observation Concentration of all data: $X_n = 0.4390$

Test Statistic, high extreme of all data: $T_n = 3.7223$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.4390	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Barium, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0599$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Barium, total, mg/L

Location: APW-2

Mean of all data: 0.0722

Standard Deviation of all data: 0.0274

Largest Observation Concentration of all data: $X_n = 0.1650$

Test Statistic, high extreme of all data: $T_n = 3.3933$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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03/21/2018	0.1650	False		1
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Barium, total, mg/L

Location: APW-3

Mean of all data: 0.1100

Standard Deviation of all data: 0.0276

Largest Observation Concentration of all data: $X_n = 0.1670$

Test Statistic, high extreme of all data: $T_n = 2.0650$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Barium, total, mg/L

Location: APW-4

Mean of all data: 0.0694

Standard Deviation of all data: 0.0485

Largest Observation Concentration of all data: $X_n = 0.2860$

Test Statistic, high extreme of all data: $T_n = 4.4674$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.2860	False		1

Barium, total, mg/L

Location: APW-5

Mean of all data: 0.0109

Standard Deviation of all data: 0.0046

Largest Observation Concentration of all data: $X_n = 0.0304$

Test Statistic, high extreme of all data: $T_n = 4.2020$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0304	False		1

Barium, total, mg/L

Location: APW-6

Mean of all data: 0.0162

Standard Deviation of all data: 0.0042

Largest Observation Concentration of all data: $X_n = 0.0270$

Test Statistic, high extreme of all data: $T_n = 2.5910$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Barium, total, mg/L

Location: APW-7

Mean of all data: 0.0389

Standard Deviation of all data: 0.0260

Largest Observation Concentration of all data: Xn = 0.1600

Test Statistic, high extreme of all data: Tn = 4.6584

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.1600	False		1

Barium, total, mg/L

Location: APW-8

Mean of all data: 0.0731

Standard Deviation of all data: 0.0250

Largest Observation Concentration of all data: Xn = 0.1850

Test Statistic, high extreme of all data: Tn = 4.4831

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.1850	False		1

Barium, total, mg/L

Location: APW-9

Mean of all data: 0.0309

Standard Deviation of all data: 0.0128

Largest Observation Concentration of all data: Xn = 0.0606

Test Statistic, high extreme of all data: Tn = 2.3202

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Beryllium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0002

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Beryllium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Beryllium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Beryllium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Beryllium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Beryllium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0002

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.5110$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Beryllium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0004

Standard Deviation of all data: 0.0007

Largest Observation Concentration of all data: $X_n = 0.0042$

Test Statistic, high extreme of all data: $T_n = 5.3828$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0042	False		1

Beryllium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0003

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0018$

Test Statistic, high extreme of all data: $T_n = 4.1005$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
10/28/2011	0.0018	False		1

Beryllium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0002

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Beryllium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Beryllium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Beryllium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0003

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0017$

Test Statistic, high extreme of all data: $T_n = 5.0037$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0017	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Beryllium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Beryllium, total, mg/L

Location: APW-1

Mean of all data: 0.0003

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0006$

Test Statistic, high extreme of all data: $T_n = 5.0037$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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03/21/2018	0.0006	False		1
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Beryllium, total, mg/L

Location: APW-10

Mean of all data: 0.0003

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0013$

Test Statistic, high extreme of all data: $T_n = 4.4772$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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11/11/2021	0.0013	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Beryllium, total, mg/L

Location: APW-11

Mean of all data: 0.0003

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0014$

Test Statistic, high extreme of all data: $T_n = 4.4772$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0014	False		1

Beryllium, total, mg/L

Location: APW-12

Mean of all data: 0.0003

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0018$

Test Statistic, high extreme of all data: $T_n = 4.3644$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0018	False		1

Beryllium, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Beryllium, total, mg/L

Location: APW-2

Mean of all data: 0.0003

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0006$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0006	False		1

Beryllium, total, mg/L

Location: APW-3

Mean of all data: 0.0004

Standard Deviation of all data: 0.0009

Largest Observation Concentration of all data: $X_n = 0.0049$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0049	False		1

Beryllium, total, mg/L

Location: APW-4

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Beryllium, total, mg/L

Location: APW-5

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Beryllium, total, mg/L

Location: APW-6

Mean of all data: 0.0003

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0006$

Test Statistic, high extreme of all data: $T_n = 5.0037$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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03/21/2018	0.0006	False		1
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Beryllium, total, mg/L

Location: APW-7

Mean of all data: 0.0003

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0009$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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09/19/2017	0.0009	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Beryllium, total, mg/L

Location: APW-8

Mean of all data: 0.0003

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0019$

Test Statistic, high extreme of all data: $T_n = 4.6463$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0019	False		1

Beryllium, total, mg/L

Location: APW-9

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Boron, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0739

Standard Deviation of all data: 0.0255

Largest Observation Concentration of all data: $X_n = 0.1400$

Test Statistic, high extreme of all data: $T_n = 2.5951$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Boron, dissolved, mg/L

Location: APW-10

Mean of all data: 1.5616

Standard Deviation of all data: 0.5864

Largest Observation Concentration of all data: Xn = 2.5100

Test Statistic, high extreme of all data: Tn = 1.6172

T Critical of all data: Tcr = 2.6030

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Boron, dissolved, mg/L

Location: APW-11

Mean of all data: 2.5225

Standard Deviation of all data: 1.4484

Largest Observation Concentration of all data: Xn = 6.8400

Test Statistic, high extreme of all data: Tn = 2.9809

T Critical of all data: Tcr = 2.6030

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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01/26/2021	6.8400	False		1
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Boron, dissolved, mg/L

Location: APW-12

Mean of all data: 0.1447

Standard Deviation of all data: 0.0531

Largest Observation Concentration of all data: Xn = 0.2410

Test Statistic, high extreme of all data: Tn = 1.8156

T Critical of all data: Tcr = 2.5800

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Boron, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 7.1300

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Boron, dissolved, mg/L

Location: APW-2

Mean of all data: 2.0249

Standard Deviation of all data: 0.8792

Largest Observation Concentration of all data: Xn = 3.9000

Test Statistic, high extreme of all data: Tn = 2.1327

T Critical of all data: Tcr = 2.7860

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Boron, dissolved, mg/L

Location: APW-3

Mean of all data: 20.1697

Standard Deviation of all data: 8.0601

Largest Observation Concentration of all data: Xn = 46.0000

Test Statistic, high extreme of all data: Tn = 3.2047

T Critical of all data: Tcr = 2.7860

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/18/2012	46.0000	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Boron, dissolved, mg/L

Location: APW-4

Mean of all data: 1.6988

Standard Deviation of all data: 1.4949

Largest Observation Concentration of all data: Xn = 6.3000

Test Statistic, high extreme of all data: Tn = 3.0779

T Critical of all data: Tcr = 2.7730

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
10/28/2011	6.3000	False		1

Boron, dissolved, mg/L

Location: APW-5

Mean of all data: 0.1313

Standard Deviation of all data: 0.0906

Largest Observation Concentration of all data: Xn = 0.4100

Test Statistic, high extreme of all data: Tn = 3.0751

T Critical of all data: Tcr = 2.8110

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/18/2012	0.4100	False		1

Boron, dissolved, mg/L

Location: APW-6

Mean of all data: 0.6345

Standard Deviation of all data: 0.4844

Largest Observation Concentration of all data: Xn = 1.8100

Test Statistic, high extreme of all data: Tn = 2.4266

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Boron, dissolved, mg/L

Location: APW-7

Mean of all data: 0.1473

Standard Deviation of all data: 0.0619

Largest Observation Concentration of all data: $X_n = 0.3780$

Test Statistic, high extreme of all data: $T_n = 3.7245$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/27/2018	0.3780	False		1

Boron, dissolved, mg/L

Location: APW-8

Mean of all data: 6.9933

Standard Deviation of all data: 0.8900

Largest Observation Concentration of all data: $X_n = 8.8800$

Test Statistic, high extreme of all data: $T_n = 2.1198$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Boron, dissolved, mg/L

Location: APW-9

Mean of all data: 1.0800

Standard Deviation of all data: 0.4414

Largest Observation Concentration of all data: $X_n = 2.1100$

Test Statistic, high extreme of all data: $T_n = 2.3334$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Boron, total, mg/L

Location: APW-1

Mean of all data: 0.0683

Standard Deviation of all data: 0.0206

Largest Observation Concentration of all data: Xn = 0.1100

Test Statistic, high extreme of all data: Tn = 2.0310

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	<0.0100	True	-1	

Boron, total, mg/L

Location: APW-10

Mean of all data: 1.6706

Standard Deviation of all data: 0.6524

Largest Observation Concentration of all data: Xn = 2.9500

Test Statistic, high extreme of all data: Tn = 1.9610

T Critical of all data: Tcr = 2.6030

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Boron, total, mg/L

Location: APW-11

Mean of all data: 2.6774

Standard Deviation of all data: 1.5567

Largest Observation Concentration of all data: Xn = 7.0400

Test Statistic, high extreme of all data: Tn = 2.8025

T Critical of all data: Tcr = 2.6030

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/26/2021	7.0400	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Boron, total, mg/L

Location: APW-12

Mean of all data: 0.1543

Standard Deviation of all data: 0.0586

Largest Observation Concentration of all data: $X_n = 0.2730$

Test Statistic, high extreme of all data: $T_n = 2.0249$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Boron, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 7.4600$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Boron, total, mg/L

Location: APW-2

Mean of all data: 1.8147

Standard Deviation of all data: 0.6626

Largest Observation Concentration of all data: $X_n = 2.9400$

Test Statistic, high extreme of all data: $T_n = 1.6983$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Boron, total, mg/L

Location: APW-3

Mean of all data: 18.1038

Standard Deviation of all data: 4.8570

Largest Observation Concentration of all data: Xn = 28.7000

Test Statistic, high extreme of all data: Tn = 2.1816

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Boron, total, mg/L

Location: APW-4

Mean of all data: 1.1320

Standard Deviation of all data: 0.4453

Largest Observation Concentration of all data: Xn = 2.1400

Test Statistic, high extreme of all data: Tn = 2.2636

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Boron, total, mg/L

Location: APW-5

Mean of all data: 0.0987

Standard Deviation of all data: 0.0157

Largest Observation Concentration of all data: Xn = 0.1540

Test Statistic, high extreme of all data: Tn = 3.5233

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/20/2018	0.1540	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Boron, total, mg/L

Location: APW-6

Mean of all data: 0.6751

Standard Deviation of all data: 0.5066

Largest Observation Concentration of all data: $X_n = 1.9100$

Test Statistic, high extreme of all data: $T_n = 2.4377$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Boron, total, mg/L

Location: APW-7

Mean of all data: 0.1556

Standard Deviation of all data: 0.0623

Largest Observation Concentration of all data: $X_n = 0.3630$

Test Statistic, high extreme of all data: $T_n = 3.3294$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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11/27/2018	0.3630	False		1
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Boron, total, mg/L

Location: APW-8

Mean of all data: 7.4126

Standard Deviation of all data: 0.9502

Largest Observation Concentration of all data: $X_n = 9.4000$

Test Statistic, high extreme of all data: $T_n = 2.0916$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Boron, total, mg/L

Location: APW-9

Mean of all data: 1.1747

Standard Deviation of all data: 0.4930

Largest Observation Concentration of all data: $X_n = 2.3000$

Test Statistic, high extreme of all data: $T_n = 2.2825$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cadmium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cadmium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.5110$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0010

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0019$

Test Statistic, high extreme of all data: $T_n = 2.7301$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4728$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cadmium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cadmium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, total, mg/L

Location: APW-1

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cadmium, total, mg/L

Location: APW-10

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, total, mg/L

Location: APW-11

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, total, mg/L

Location: APW-12

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cadmium, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, total, mg/L

Location: APW-2

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, total, mg/L

Location: APW-3

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cadmium, total, mg/L

Location: APW-4

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, total, mg/L

Location: APW-5

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, total, mg/L

Location: APW-6

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cadmium, total, mg/L

Location: APW-7

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, total, mg/L

Location: APW-8

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cadmium, total, mg/L

Location: APW-9

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chloride, dissolved, mg/L

Location: APW-1

Mean of all data: 42.5

Standard Deviation of all data: 35.1

Largest Observation Concentration of all data: Xn = 159.0

Test Statistic, high extreme of all data: Tn = 3.3

T Critical of all data: Tcr = 2.8

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/22/2022	159.0	False		1

Chloride, dissolved, mg/L

Location: APW-10

Mean of all data: 3.4

Standard Deviation of all data: 1.7

Largest Observation Concentration of all data: Xn = 7.0

Test Statistic, high extreme of all data: Tn = 2.2

T Critical of all data: Tcr = 2.6

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Chloride, dissolved, mg/L

Location: APW-11

Mean of all data: 3.8

Standard Deviation of all data: 2.2

Largest Observation Concentration of all data: Xn = 11.0

Test Statistic, high extreme of all data: Tn = 3.3

T Critical of all data: Tcr = 2.6

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/26/2021	11.0	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chloride, dissolved, mg/L

Location: APW-12

Mean of all data: 43.5

Standard Deviation of all data: 12.4

Largest Observation Concentration of all data: Xn = 75.0

Test Statistic, high extreme of all data: Tn = 2.5

T Critical of all data: Tcr = 2.6

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chloride, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0

Standard Deviation of all data: 0.0

Largest Observation Concentration of all data: Xn = 20.0

Test Statistic, high extreme of all data: Tn = 0.0

T Critical of all data: Tcr = 0.0

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chloride, dissolved, mg/L

Location: APW-2

Mean of all data: 21.0

Standard Deviation of all data: 15.4

Largest Observation Concentration of all data: Xn = 50.0

Test Statistic, high extreme of all data: Tn = 1.9

T Critical of all data: Tcr = 2.8

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chloride, dissolved, mg/L

Location: APW-3

Mean of all data: 29.1

Standard Deviation of all data: 12.8

Largest Observation Concentration of all data: Xn = 58.0

Test Statistic, high extreme of all data: Tn = 2.3

T Critical of all data: Tcr = 2.8

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chloride, dissolved, mg/L

Location: APW-4

Mean of all data: 35.3

Standard Deviation of all data: 11.8

Largest Observation Concentration of all data: Xn = 63.0

Test Statistic, high extreme of all data: Tn = 2.3

T Critical of all data: Tcr = 2.8

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chloride, dissolved, mg/L

Location: APW-5

Mean of all data: 5.9

Standard Deviation of all data: 4.9

Largest Observation Concentration of all data: Xn = 22.0

Test Statistic, high extreme of all data: Tn = 3.3

T Critical of all data: Tcr = 2.8

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/04/2019	22.0	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chloride, dissolved, mg/L

Location: APW-6

Mean of all data: 6.2

Standard Deviation of all data: 6.4

Largest Observation Concentration of all data: Xn = 27.0

Test Statistic, high extreme of all data: Tn = 3.2

T Critical of all data: Tcr = 2.7

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/30/2021	27.0	False		1

Chloride, dissolved, mg/L

Location: APW-7

Mean of all data: 35.4

Standard Deviation of all data: 11.6

Largest Observation Concentration of all data: Xn = 67.0

Test Statistic, high extreme of all data: Tn = 2.7

T Critical of all data: Tcr = 2.7

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	67.0	False		1

Chloride, dissolved, mg/L

Location: APW-8

Mean of all data: 10.2

Standard Deviation of all data: 3.5

Largest Observation Concentration of all data: Xn = 18.0

Test Statistic, high extreme of all data: Tn = 2.2

T Critical of all data: Tcr = 2.7

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chloride, dissolved, mg/L

Location: APW-9

Mean of all data: 14.6

Standard Deviation of all data: 13.0

Largest Observation Concentration of all data: $X_n = 43.0$

Test Statistic, high extreme of all data: $T_n = 2.2$

T Critical of all data: $T_{cr} = 2.7$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chromium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0019

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chromium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chromium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chromium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chromium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0083$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chromium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5110$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chromium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5110$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chromium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0022

Standard Deviation of all data: 0.0013

Largest Observation Concentration of all data: $X_n = 0.0069$

Test Statistic, high extreme of all data: $T_n = 3.7178$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/15/2011	0.0069	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chromium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0019

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chromium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chromium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chromium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0118

Standard Deviation of all data: 0.0060

Largest Observation Concentration of all data: $X_n = 0.0320$

Test Statistic, high extreme of all data: $T_n = 3.3901$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/21/2022	0.0320	False		1

Chromium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Chromium, total, mg/L

Location: APW-1

Mean of all data: 0.0035

Standard Deviation of all data: 0.0033

Largest Observation Concentration of all data: $X_n = 0.0173$

Test Statistic, high extreme of all data: $T_n = 4.1804$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
02/02/2023	0.0173	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chromium, total, mg/L

Location: APW-10

Mean of all data: 0.0050

Standard Deviation of all data: 0.0086

Largest Observation Concentration of all data: $X_n = 0.0431$

Test Statistic, high extreme of all data: $T_n = 4.4176$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.0431	False		1

Chromium, total, mg/L

Location: APW-11

Mean of all data: 0.0051

Standard Deviation of all data: 0.0093

Largest Observation Concentration of all data: $X_n = 0.0465$

Test Statistic, high extreme of all data: $T_n = 4.4340$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0465	False		1

Chromium, total, mg/L

Location: APW-12

Mean of all data: 0.0048

Standard Deviation of all data: 0.0093

Largest Observation Concentration of all data: $X_n = 0.0450$

Test Statistic, high extreme of all data: $T_n = 4.3292$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0450	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chromium, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0143$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chromium, total, mg/L

Location: APW-2

Mean of all data: 0.0027

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: $X_n = 0.0083$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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09/22/2023	0.0083	False		1
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Chromium, total, mg/L

Location: APW-3

Mean of all data: 0.0033

Standard Deviation of all data: 0.0022

Largest Observation Concentration of all data: $X_n = 0.0115$

Test Statistic, high extreme of all data: $T_n = 3.6896$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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09/22/2023	0.0115	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chromium, total, mg/L

Location: APW-4

Mean of all data: 0.0033

Standard Deviation of all data: 0.0021

Largest Observation Concentration of all data: $X_n = 0.0105$

Test Statistic, high extreme of all data: $T_n = 3.3602$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/21/2017	0.0105	False		1

Chromium, total, mg/L

Location: APW-5

Mean of all data: 0.0027

Standard Deviation of all data: 0.0009

Largest Observation Concentration of all data: $X_n = 0.0061$

Test Statistic, high extreme of all data: $T_n = 3.8489$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0061	False		1

Chromium, total, mg/L

Location: APW-6

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Chromium, total, mg/L

Location: APW-7

Mean of all data: 0.0033

Standard Deviation of all data: 0.0042

Largest Observation Concentration of all data: Xn = 0.0241

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.0241	False		1

Chromium, total, mg/L

Location: APW-8

Mean of all data: 0.0143

Standard Deviation of all data: 0.0091

Largest Observation Concentration of all data: Xn = 0.0438

Test Statistic, high extreme of all data: Tn = 3.2493

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0438	False		1

Chromium, total, mg/L

Location: APW-9

Mean of all data: 0.0026

Standard Deviation of all data: 0.0005

Largest Observation Concentration of all data: Xn = 0.0053

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0053	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cobalt, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0019

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cobalt, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cobalt, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cobalt, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cobalt, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cobalt, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0025

Standard Deviation of all data: 0.0005

Largest Observation Concentration of all data: $X_n = 0.0035$

Test Statistic, high extreme of all data: $T_n = 1.8358$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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12/13/2010	<0.0000	True	-1	
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cobalt, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5110$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cobalt, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.4728$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cobalt, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0019

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cobalt, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cobalt, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cobalt, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cobalt, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0034

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: $X_n = 0.0072$

Test Statistic, high extreme of all data: $T_n = 2.2549$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cobalt, total, mg/L

Location: APW-1

Mean of all data: 0.0050

Standard Deviation of all data: 0.0069

Largest Observation Concentration of all data: $X_n = 0.0352$

Test Statistic, high extreme of all data: $T_n = 4.3917$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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03/21/2018	0.0352	False		1
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Cobalt, total, mg/L

Location: APW-10

Mean of all data: 0.0084

Standard Deviation of all data: 0.0230

Largest Observation Concentration of all data: $X_n = 0.1110$

Test Statistic, high extreme of all data: $T_n = 4.4544$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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11/11/2021	0.1110	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cobalt, total, mg/L

Location: APW-11

Mean of all data: 0.0075

Standard Deviation of all data: 0.0178

Largest Observation Concentration of all data: $X_n = 0.0860$

Test Statistic, high extreme of all data: $T_n = 4.4082$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0860	False		1

Cobalt, total, mg/L

Location: APW-12

Mean of all data: 0.0094

Standard Deviation of all data: 0.0151

Largest Observation Concentration of all data: $X_n = 0.0723$

Test Statistic, high extreme of all data: $T_n = 4.1655$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0723	False		1

Cobalt, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cobalt, total, mg/L

Location: APW-2

Mean of all data: 0.0027

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0074$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0074	False		1

Cobalt, total, mg/L

Location: APW-3

Mean of all data: 0.0027

Standard Deviation of all data: 0.0009

Largest Observation Concentration of all data: $X_n = 0.0073$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0073	False		1

Cobalt, total, mg/L

Location: APW-4

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cobalt, total, mg/L

Location: APW-5

Mean of all data: 0.0040

Standard Deviation of all data: 0.0049

Largest Observation Concentration of all data: $X_n = 0.0265$

Test Statistic, high extreme of all data: $T_n = 4.6049$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0265	False		1

Cobalt, total, mg/L

Location: APW-6

Mean of all data: 0.0027

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0077$

Test Statistic, high extreme of all data: $T_n = 5.0037$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0077	False		1

Cobalt, total, mg/L

Location: APW-7

Mean of all data: 0.0032

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: $X_n = 0.0207$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.0207	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cobalt, total, mg/L

Location: APW-8

Mean of all data: 0.0056

Standard Deviation of all data: 0.0143

Largest Observation Concentration of all data: $X_n = 0.0771$

Test Statistic, high extreme of all data: $T_n = 4.9861$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0771	False		1

Cobalt, total, mg/L

Location: APW-9

Mean of all data: 0.0047

Standard Deviation of all data: 0.0031

Largest Observation Concentration of all data: $X_n = 0.0119$

Test Statistic, high extreme of all data: $T_n = 2.3518$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Copper, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0021

Standard Deviation of all data: 0.0013

Largest Observation Concentration of all data: $X_n = 0.0068$

Test Statistic, high extreme of all data: $T_n = 3.5322$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/30/2021	0.0068	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Copper, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Copper, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Copper, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Copper, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Copper, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5110$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Copper, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5110$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Copper, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.4728$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Copper, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0019

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Copper, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Copper, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Copper, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Copper, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Copper, total, mg/L

Location: APW-1

Mean of all data: 0.0037

Standard Deviation of all data: 0.0042

Largest Observation Concentration of all data: $X_n = 0.0226$

Test Statistic, high extreme of all data: $T_n = 4.4987$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0226	False		1

Copper, total, mg/L

Location: APW-10

Mean of all data: 0.0071

Standard Deviation of all data: 0.0189

Largest Observation Concentration of all data: $X_n = 0.0913$

Test Statistic, high extreme of all data: $T_n = 4.4556$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.0913	False		1

Copper, total, mg/L

Location: APW-11

Mean of all data: 0.0089

Standard Deviation of all data: 0.0223

Largest Observation Concentration of all data: $X_n = 0.1070$

Test Statistic, high extreme of all data: $T_n = 4.4074$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.1070	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Copper, total, mg/L

Location: APW-12

Mean of all data: 0.0067

Standard Deviation of all data: 0.0146

Largest Observation Concentration of all data: $X_n = 0.0693$

Test Statistic, high extreme of all data: $T_n = 4.2832$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0693	False		1

Copper, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Copper, total, mg/L

Location: APW-2

Mean of all data: 0.0027

Standard Deviation of all data: 0.0009

Largest Observation Concentration of all data: $X_n = 0.0071$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0071	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Copper, total, mg/L

Location: APW-3

Mean of all data: 0.0031

Standard Deviation of all data: 0.0022

Largest Observation Concentration of all data: $X_n = 0.0128$

Test Statistic, high extreme of all data: $T_n = 4.4122$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0128	False		1

Copper, total, mg/L

Location: APW-4

Mean of all data: 0.0045

Standard Deviation of all data: 0.0039

Largest Observation Concentration of all data: $X_n = 0.0159$

Test Statistic, high extreme of all data: $T_n = 2.9032$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0159	False		1

Copper, total, mg/L

Location: APW-5

Mean of all data: 0.0030

Standard Deviation of all data: 0.0021

Largest Observation Concentration of all data: $X_n = 0.0130$

Test Statistic, high extreme of all data: $T_n = 4.7125$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0130	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Copper, total, mg/L

Location: APW-6

Mean of all data: 0.0027

Standard Deviation of all data: 0.0012

Largest Observation Concentration of all data: $X_n = 0.0086$

Test Statistic, high extreme of all data: $T_n = 5.0037$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0086	False		1

Copper, total, mg/L

Location: APW-7

Mean of all data: 0.0034

Standard Deviation of all data: 0.0047

Largest Observation Concentration of all data: $X_n = 0.0263$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.0263	False		1

Copper, total, mg/L

Location: APW-8

Mean of all data: 0.0056

Standard Deviation of all data: 0.0152

Largest Observation Concentration of all data: $X_n = 0.0815$

Test Statistic, high extreme of all data: $T_n = 4.9976$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0815	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Copper, total, mg/L

Location: APW-9

Mean of all data: 0.0030

Standard Deviation of all data: 0.0016

Largest Observation Concentration of all data: $X_n = 0.0093$

Test Statistic, high extreme of all data: $T_n = 4.0583$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0093	False		1

Cyanide, total, mg/L

Location: APW-1

Mean of all data: 0.002

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 1.244$

T Critical of all data: $T_{cr} = 2.811$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Cyanide, total, mg/L

Location: APW-10

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.003$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cyanide, total, mg/L

Location: APW-11

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.003$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cyanide, total, mg/L

Location: APW-12

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.003$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cyanide, total, mg/L

Location: APW-13

Mean of all data: 0.000

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.003$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cyanide, total, mg/L

Location: APW-2

Mean of all data: 0.002

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 1.227$

T Critical of all data: $T_{cr} = 2.786$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cyanide, total, mg/L

Location: APW-3

Mean of all data: 0.002

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 1.617$

T Critical of all data: $T_{cr} = 2.786$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cyanide, total, mg/L

Location: APW-4

Mean of all data: 0.002

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 1.218$

T Critical of all data: $T_{cr} = 2.773$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cyanide, total, mg/L

Location: APW-5

Mean of all data: 0.002

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 1.244$

T Critical of all data: $T_{cr} = 2.811$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cyanide, total, mg/L

Location: APW-6

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 2.353$

T Critical of all data: $T_{cr} = 2.698$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cyanide, total, mg/L

Location: APW-7

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 3.138$

T Critical of all data: $T_{cr} = 2.681$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	<0.004	True		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Cyanide, total, mg/L

Location: APW-8

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 2.353$

T Critical of all data: $T_{cr} = 2.698$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cyanide, total, mg/L

Location: APW-9

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 2.300$

T Critical of all data: $T_{cr} = 2.681$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Fluoride, dissolved, mg/L

Location: APW-1

Mean of all data: 0.18

Standard Deviation of all data: 0.12

Largest Observation Concentration of all data: $X_n = 0.54$

Test Statistic, high extreme of all data: $T_n = 3.06$

T Critical of all data: $T_{cr} = 2.81$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/08/2023	0.54	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Fluoride, dissolved, mg/L

Location: APW-10

Mean of all data: 0.05

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.05$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Fluoride, dissolved, mg/L

Location: APW-11

Mean of all data: 0.06

Standard Deviation of all data: 0.02

Largest Observation Concentration of all data: $X_n = 0.13$

Test Statistic, high extreme of all data: $T_n = 2.84$

T Critical of all data: $T_{cr} = 2.60$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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06/04/2019	0.13	False		1
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Fluoride, dissolved, mg/L

Location: APW-12

Mean of all data: 0.33

Standard Deviation of all data: 0.04

Largest Observation Concentration of all data: $X_n = 0.42$

Test Statistic, high extreme of all data: $T_n = 2.21$

T Critical of all data: $T_{cr} = 2.58$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Fluoride, dissolved, mg/L

Location: APW-13

Mean of all data: 0.00

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.05

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Tcr = 0.00

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Fluoride, dissolved, mg/L

Location: APW-2

Mean of all data: 0.29

Standard Deviation of all data: 0.07

Largest Observation Concentration of all data: Xn = 0.46

Test Statistic, high extreme of all data: Tn = 2.35

T Critical of all data: Tcr = 2.79

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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03/24/2011	<0.00	True	-1	
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Fluoride, dissolved, mg/L

Location: APW-3

Mean of all data: 0.24

Standard Deviation of all data: 0.08

Largest Observation Concentration of all data: Xn = 0.54

Test Statistic, high extreme of all data: Tn = 3.53

T Critical of all data: Tcr = 2.79

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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10/28/2011	0.54	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Fluoride, dissolved, mg/L

Location: APW-4

Mean of all data: 0.43

Standard Deviation of all data: 0.10

Largest Observation Concentration of all data: $X_n = 0.79$

Test Statistic, high extreme of all data: $T_n = 3.65$

T Critical of all data: $T_{cr} = 2.77$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
10/28/2011	0.79	False		1

Fluoride, dissolved, mg/L

Location: APW-5

Mean of all data: 0.12

Standard Deviation of all data: 0.09

Largest Observation Concentration of all data: $X_n = 0.36$

Test Statistic, high extreme of all data: $T_n = 2.72$

T Critical of all data: $T_{cr} = 2.81$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Fluoride, dissolved, mg/L

Location: APW-6

Mean of all data: 0.15

Standard Deviation of all data: 0.04

Largest Observation Concentration of all data: $X_n = 0.25$

Test Statistic, high extreme of all data: $T_n = 2.86$

T Critical of all data: $T_{cr} = 2.70$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
07/29/2020	0.25	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Fluoride, dissolved, mg/L

Location: APW-7

Mean of all data: 0.27

Standard Deviation of all data: 0.05

Largest Observation Concentration of all data: $X_n = 0.40$

Test Statistic, high extreme of all data: $T_n = 2.81$

T Critical of all data: $T_{cr} = 2.68$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.40	False		1

Fluoride, dissolved, mg/L

Location: APW-8

Mean of all data: 0.10

Standard Deviation of all data: 0.05

Largest Observation Concentration of all data: $X_n = 0.24$

Test Statistic, high extreme of all data: $T_n = 2.65$

T Critical of all data: $T_{cr} = 2.70$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Fluoride, dissolved, mg/L

Location: APW-9

Mean of all data: 0.34

Standard Deviation of all data: 0.10

Largest Observation Concentration of all data: $X_n = 0.57$

Test Statistic, high extreme of all data: $T_n = 2.18$

T Critical of all data: $T_{cr} = 2.68$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Iron, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0198

Standard Deviation of all data: 0.0260

Largest Observation Concentration of all data: Xn = 0.1620

Test Statistic, high extreme of all data: Tn = 5.4611

T Critical of all data: Tcr = 2.8110

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	0.1620	False		1

Iron, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0434

Standard Deviation of all data: 0.1098

Largest Observation Concentration of all data: Xn = 0.5350

Test Statistic, high extreme of all data: Tn = 4.4772

T Critical of all data: Tcr = 2.6030

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/29/2019	0.5350	False		1

Iron, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0256

Standard Deviation of all data: 0.0264

Largest Observation Concentration of all data: Xn = 0.1440

Test Statistic, high extreme of all data: Tn = 4.4772

T Critical of all data: Tcr = 2.6030

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/04/2019	0.1440	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Iron, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0270

Standard Deviation of all data: 0.0319

Largest Observation Concentration of all data: $X_n = 0.1660$

Test Statistic, high extreme of all data: $T_n = 4.3644$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.1660	False		1

Iron, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Iron, dissolved, mg/L

Location: APW-2

Mean of all data: 0.2017

Standard Deviation of all data: 0.2550

Largest Observation Concentration of all data: $X_n = 1.1000$

Test Statistic, high extreme of all data: $T_n = 3.5222$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/24/2011	1.1000	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Iron, dissolved, mg/L

Location: APW-3

Mean of all data: 2.0371

Standard Deviation of all data: 1.5056

Largest Observation Concentration of all data: $X_n = 5.4000$

Test Statistic, high extreme of all data: $T_n = 2.2336$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Iron, dissolved, mg/L

Location: APW-4

Mean of all data: 7.4282

Standard Deviation of all data: 4.0971

Largest Observation Concentration of all data: $X_n = 16.0000$

Test Statistic, high extreme of all data: $T_n = 2.0922$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Iron, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0146

Standard Deviation of all data: 0.0081

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.6597$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Iron, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0185

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.4092$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Iron, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0286

Standard Deviation of all data: 0.0230

Largest Observation Concentration of all data: $X_n = 0.1130$

Test Statistic, high extreme of all data: $T_n = 3.6632$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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07/29/2020	0.1130	False		1
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Iron, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0185

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.4092$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Iron, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0199

Standard Deviation of all data: 0.0083

Largest Observation Concentration of all data: $X_n = 0.0565$

Test Statistic, high extreme of all data: $T_n = 4.4016$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
08/26/2019	0.0565	False		1

Iron, total, mg/L

Location: APW-1

Mean of all data: 2.4621

Standard Deviation of all data: 3.4170

Largest Observation Concentration of all data: $X_n = 17.4000$

Test Statistic, high extreme of all data: $T_n = 4.3717$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	17.4000	False		1

Iron, total, mg/L

Location: APW-10

Mean of all data: 3.2603

Standard Deviation of all data: 9.2787

Largest Observation Concentration of all data: $X_n = 44.5000$

Test Statistic, high extreme of all data: $T_n = 4.4446$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	44.5000	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Iron, total, mg/L

Location: APW-11

Mean of all data: 3.9651

Standard Deviation of all data: 11.9703

Largest Observation Concentration of all data: Xn = 56.8000

Test Statistic, high extreme of all data: Tn = 4.4138

T Critical of all data: Tcr = 2.6030

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	56.8000	False		1

Iron, total, mg/L

Location: APW-12

Mean of all data: 4.5028

Standard Deviation of all data: 12.3912

Largest Observation Concentration of all data: Xn = 57.6000

Test Statistic, high extreme of all data: Tn = 4.2851

T Critical of all data: Tcr = 2.5800

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	57.6000	False		1

Iron, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 1.0600

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Iron, total, mg/L

Location: APW-2

Mean of all data: 3.1287

Standard Deviation of all data: 3.9802

Largest Observation Concentration of all data: Xn = 17.8000

Test Statistic, high extreme of all data: Tn = 3.6861

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	17.8000	False		1

Iron, total, mg/L

Location: APW-3

Mean of all data: 5.4654

Standard Deviation of all data: 3.1528

Largest Observation Concentration of all data: Xn = 15.4000

Test Statistic, high extreme of all data: Tn = 3.1511

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	15.4000	False		1

Iron, total, mg/L

Location: APW-4

Mean of all data: 13.0960

Standard Deviation of all data: 12.5782

Largest Observation Concentration of all data: Xn = 70.3000

Test Statistic, high extreme of all data: Tn = 4.5479

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	70.3000	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Iron, total, mg/L

Location: APW-5

Mean of all data: 0.7466

Standard Deviation of all data: 1.2309

Largest Observation Concentration of all data: Xn = 5.8000

Test Statistic, high extreme of all data: Tn = 4.1055

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	5.8000	False		1

Iron, total, mg/L

Location: APW-6

Mean of all data: 0.6617

Standard Deviation of all data: 0.7948

Largest Observation Concentration of all data: Xn = 3.8200

Test Statistic, high extreme of all data: Tn = 3.9739

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	3.8200	False		1

Iron, total, mg/L

Location: APW-7

Mean of all data: 1.9924

Standard Deviation of all data: 6.7759

Largest Observation Concentration of all data: Xn = 35.0000

Test Statistic, high extreme of all data: Tn = 4.8713

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	35.0000	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Iron, total, mg/L

Location: APW-8

Mean of all data: 2.0036

Standard Deviation of all data: 7.9549

Largest Observation Concentration of all data: Xn = 41.7000

Test Statistic, high extreme of all data: Tn = 4.9902

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	41.7000	False		1

Iron, total, mg/L

Location: APW-9

Mean of all data: 1.0415

Standard Deviation of all data: 1.2895

Largest Observation Concentration of all data: Xn = 5.0600

Test Statistic, high extreme of all data: Tn = 3.1163

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	5.0600	False		1

Lead, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Lead, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Lead, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Lead, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: $X_n = 0.0011$

Test Statistic, high extreme of all data: $T_n = 4.3644$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0011	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Lead, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Lead, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0005

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0013$

Test Statistic, high extreme of all data: $T_n = 3.0839$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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12/21/2022	0.0013	False		1
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Lead, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0011$

Test Statistic, high extreme of all data: $T_n = 2.9313$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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06/18/2012	0.0011	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Lead, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0004

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0013$

Test Statistic, high extreme of all data: $T_n = 3.4299$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0013	False		1

Lead, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0004

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0017$

Test Statistic, high extreme of all data: $T_n = 3.6810$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0017	False		1

Lead, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Lead, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Lead, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Lead, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Lead, total, mg/L

Location: APW-1

Mean of all data: 0.0032

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: $X_n = 0.0179$

Test Statistic, high extreme of all data: $T_n = 4.1282$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0179	False		1

Lead, total, mg/L

Location: APW-10

Mean of all data: 0.0039

Standard Deviation of all data: 0.0097

Largest Observation Concentration of all data: $X_n = 0.0469$

Test Statistic, high extreme of all data: $T_n = 4.4343$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.0469	False		1

Lead, total, mg/L

Location: APW-11

Mean of all data: 0.0044

Standard Deviation of all data: 0.0127

Largest Observation Concentration of all data: $X_n = 0.0605$

Test Statistic, high extreme of all data: $T_n = 4.4130$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0605	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Lead, total, mg/L

Location: APW-12

Mean of all data: 0.0040

Standard Deviation of all data: 0.0094

Largest Observation Concentration of all data: $X_n = 0.0438$

Test Statistic, high extreme of all data: $T_n = 4.2258$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0438	False		1

Lead, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0011$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Lead, total, mg/L

Location: APW-2

Mean of all data: 0.0009

Standard Deviation of all data: 0.0008

Largest Observation Concentration of all data: $X_n = 0.0039$

Test Statistic, high extreme of all data: $T_n = 3.8189$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0039	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Lead, total, mg/L

Location: APW-3

Mean of all data: 0.0013

Standard Deviation of all data: 0.0016

Largest Observation Concentration of all data: $X_n = 0.0068$

Test Statistic, high extreme of all data: $T_n = 3.3607$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0068	False		1

Lead, total, mg/L

Location: APW-4

Mean of all data: 0.0016

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: $X_n = 0.0058$

Test Statistic, high extreme of all data: $T_n = 2.4683$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Lead, total, mg/L

Location: APW-5

Mean of all data: 0.0012

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: $X_n = 0.0078$

Test Statistic, high extreme of all data: $T_n = 3.7701$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0078	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Lead, total, mg/L

Location: APW-6

Mean of all data: 0.0010

Standard Deviation of all data: 0.0008

Largest Observation Concentration of all data: $X_n = 0.0040$

Test Statistic, high extreme of all data: $T_n = 3.7902$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0040	False		1

Lead, total, mg/L

Location: APW-7

Mean of all data: 0.0017

Standard Deviation of all data: 0.0053

Largest Observation Concentration of all data: $X_n = 0.0276$

Test Statistic, high extreme of all data: $T_n = 4.8888$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.0276	False		1

Lead, total, mg/L

Location: APW-8

Mean of all data: 0.0026

Standard Deviation of all data: 0.0092

Largest Observation Concentration of all data: $X_n = 0.0484$

Test Statistic, high extreme of all data: $T_n = 4.9896$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0484	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Lead, total, mg/L

Location: APW-9

Mean of all data: 0.0013

Standard Deviation of all data: 0.0013

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 2.7909$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0050	False		1

Manganese, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0032

Standard Deviation of all data: 0.0019

Largest Observation Concentration of all data: $X_n = 0.0091$

Test Statistic, high extreme of all data: $T_n = 3.1091$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/18/2012	0.0091	False		1

Manganese, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0056

Standard Deviation of all data: 0.0089

Largest Observation Concentration of all data: $X_n = 0.0452$

Test Statistic, high extreme of all data: $T_n = 4.4586$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/29/2019	0.0452	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Manganese, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0102

Standard Deviation of all data: 0.0203

Largest Observation Concentration of all data: $X_n = 0.0900$

Test Statistic, high extreme of all data: $T_n = 3.9410$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/04/2019	0.0900	False		1

Manganese, dissolved, mg/L

Location: APW-12

Mean of all data: 1.2098

Standard Deviation of all data: 0.3044

Largest Observation Concentration of all data: $X_n = 1.7400$

Test Statistic, high extreme of all data: $T_n = 1.7419$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Manganese, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0035$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Manganese, dissolved, mg/L

Location: APW-2

Mean of all data: 0.4429

Standard Deviation of all data: 0.3177

Largest Observation Concentration of all data: Xn = 1.0700

Test Statistic, high extreme of all data: Tn = 1.9740

T Critical of all data: Tcr = 2.7860

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Manganese, dissolved, mg/L

Location: APW-3

Mean of all data: 0.7745

Standard Deviation of all data: 0.2976

Largest Observation Concentration of all data: Xn = 1.3600

Test Statistic, high extreme of all data: Tn = 1.9673

T Critical of all data: Tcr = 2.7860

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Manganese, dissolved, mg/L

Location: APW-4

Mean of all data: 1.9113

Standard Deviation of all data: 0.9133

Largest Observation Concentration of all data: Xn = 5.4000

Test Statistic, high extreme of all data: Tn = 3.8200

T Critical of all data: Tcr = 2.7730

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
10/28/2011	5.4000	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Manganese, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0041

Standard Deviation of all data: 0.0066

Largest Observation Concentration of all data: $X_n = 0.0400$

Test Statistic, high extreme of all data: $T_n = 5.4803$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/18/2012	0.0400	False		1

Manganese, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0039

Standard Deviation of all data: 0.0038

Largest Observation Concentration of all data: $X_n = 0.0224$

Test Statistic, high extreme of all data: $T_n = 4.9110$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.0224	False		1

Manganese, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0673

Standard Deviation of all data: 0.1374

Largest Observation Concentration of all data: $X_n = 0.6110$

Test Statistic, high extreme of all data: $T_n = 3.9562$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/28/2017	0.6110	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Manganese, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0032

Standard Deviation of all data: 0.0007

Largest Observation Concentration of all data: $X_n = 0.0035$

Test Statistic, high extreme of all data: $T_n = 0.4092$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Manganese, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0034

Standard Deviation of all data: 0.0012

Largest Observation Concentration of all data: $X_n = 0.0080$

Test Statistic, high extreme of all data: $T_n = 3.8741$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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08/26/2019	0.0080	False		1
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Manganese, total, mg/L

Location: APW-1

Mean of all data: 0.2362

Standard Deviation of all data: 0.3553

Largest Observation Concentration of all data: $X_n = 1.7900$

Test Statistic, high extreme of all data: $T_n = 4.3727$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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03/21/2018	1.7900	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Manganese, total, mg/L

Location: APW-10

Mean of all data: 0.2600

Standard Deviation of all data: 0.7134

Largest Observation Concentration of all data: Xn = 3.4300

Test Statistic, high extreme of all data: Tn = 4.4437

T Critical of all data: Tcr = 2.6030

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	3.4300	False		1

Manganese, total, mg/L

Location: APW-11

Mean of all data: 0.2754

Standard Deviation of all data: 0.7703

Largest Observation Concentration of all data: Xn = 3.6900

Test Statistic, high extreme of all data: Tn = 4.4328

T Critical of all data: Tcr = 2.6030

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	3.6900	False		1

Manganese, total, mg/L

Location: APW-12

Mean of all data: 2.6840

Standard Deviation of all data: 2.4080

Largest Observation Concentration of all data: Xn = 12.0000

Test Statistic, high extreme of all data: Tn = 3.8688

T Critical of all data: Tcr = 2.5800

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	12.0000	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Manganese, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0683$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Manganese, total, mg/L

Location: APW-2

Mean of all data: 0.4155

Standard Deviation of all data: 0.2777

Largest Observation Concentration of all data: $X_n = 1.1000$

Test Statistic, high extreme of all data: $T_n = 2.4653$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Manganese, total, mg/L

Location: APW-3

Mean of all data: 0.9626

Standard Deviation of all data: 0.2270

Largest Observation Concentration of all data: $X_n = 1.4800$

Test Statistic, high extreme of all data: $T_n = 2.2788$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Manganese, total, mg/L

Location: APW-4

Mean of all data: 1.6930

Standard Deviation of all data: 0.3975

Largest Observation Concentration of all data: Xn = 2.3500

Test Statistic, high extreme of all data: Tn = 1.6526

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/08/2023	0.4990	False	-1	

Manganese, total, mg/L

Location: APW-5

Mean of all data: 0.1254

Standard Deviation of all data: 0.2337

Largest Observation Concentration of all data: Xn = 1.1500

Test Statistic, high extreme of all data: Tn = 4.3844

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	1.1500	False		1

Manganese, total, mg/L

Location: APW-6

Mean of all data: 0.0454

Standard Deviation of all data: 0.0511

Largest Observation Concentration of all data: Xn = 0.2330

Test Statistic, high extreme of all data: Tn = 3.6701

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.2330	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Manganese, total, mg/L

Location: APW-7

Mean of all data: 0.1941

Standard Deviation of all data: 0.3898

Largest Observation Concentration of all data: Xn = 1.9200

Test Statistic, high extreme of all data: Tn = 4.4276

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	1.9200	False		1

Manganese, total, mg/L

Location: APW-8

Mean of all data: 0.1545

Standard Deviation of all data: 0.5158

Largest Observation Concentration of all data: Xn = 2.7100

Test Statistic, high extreme of all data: Tn = 4.9540

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	2.7100	False		1

Manganese, total, mg/L

Location: APW-9

Mean of all data: 0.1066

Standard Deviation of all data: 0.1398

Largest Observation Concentration of all data: Xn = 0.5250

Test Statistic, high extreme of all data: Tn = 2.9926

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.5250	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Mercury, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Mercury, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.5110$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Mercury, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.5110$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.4728$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Mercury, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Mercury, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, total, mg/L

Location: APW-1

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, total, mg/L

Location: APW-10

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Mercury, total, mg/L

Location: APW-11

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, total, mg/L

Location: APW-12

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Mercury, total, mg/L

Location: APW-2

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, total, mg/L

Location: APW-3

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, total, mg/L

Location: APW-4

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Mercury, total, mg/L

Location: APW-5

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, total, mg/L

Location: APW-6

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, total, mg/L

Location: APW-7

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Mercury, total, mg/L

Location: APW-8

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Mercury, total, mg/L

Location: APW-9

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nickel, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0025

Standard Deviation of all data: 0.0023

Largest Observation Concentration of all data: $X_n = 0.0140$

Test Statistic, high extreme of all data: $T_n = 5.0314$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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06/24/2011	0.0140	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nickel, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nickel, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nickel, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0071

Standard Deviation of all data: 0.0025

Largest Observation Concentration of all data: $X_n = 0.0109$

Test Statistic, high extreme of all data: $T_n = 1.5365$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nickel, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nickel, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0037

Standard Deviation of all data: 0.0029

Largest Observation Concentration of all data: $X_n = 0.0120$

Test Statistic, high extreme of all data: $T_n = 2.8516$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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03/24/2011	0.0120	False		1
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Nickel, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0033

Standard Deviation of all data: 0.0027

Largest Observation Concentration of all data: $X_n = 0.0120$

Test Statistic, high extreme of all data: $T_n = 3.2064$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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09/17/2012	0.0120	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nickel, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0037

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: $X_n = 0.0190$

Test Statistic, high extreme of all data: $T_n = 4.2951$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/15/2011	0.0190	False		1

Nickel, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0026

Standard Deviation of all data: 0.0019

Largest Observation Concentration of all data: $X_n = 0.0100$

Test Statistic, high extreme of all data: $T_n = 3.8316$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/24/2011	0.0100	False		1

Nickel, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nickel, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nickel, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nickel, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0038

Standard Deviation of all data: 0.0030

Largest Observation Concentration of all data: $X_n = 0.0119$

Test Statistic, high extreme of all data: $T_n = 2.6541$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nickel, total, mg/L

Location: APW-1

Mean of all data: 0.0095

Standard Deviation of all data: 0.0115

Largest Observation Concentration of all data: $X_n = 0.0583$

Test Statistic, high extreme of all data: $T_n = 4.2380$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0583	False		1

Nickel, total, mg/L

Location: APW-10

Mean of all data: 0.0118

Standard Deviation of all data: 0.0333

Largest Observation Concentration of all data: $X_n = 0.1600$

Test Statistic, high extreme of all data: $T_n = 4.4503$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.1600	False		1

Nickel, total, mg/L

Location: APW-11

Mean of all data: 0.0120

Standard Deviation of all data: 0.0318

Largest Observation Concentration of all data: $X_n = 0.1520$

Test Statistic, high extreme of all data: $T_n = 4.4084$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.1520	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nickel, total, mg/L

Location: APW-12

Mean of all data: 0.0170

Standard Deviation of all data: 0.0205

Largest Observation Concentration of all data: $X_n = 0.1040$

Test Statistic, high extreme of all data: $T_n = 4.2366$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.1040	False		1

Nickel, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0056$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Nickel, total, mg/L

Location: APW-2

Mean of all data: 0.0033

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: $X_n = 0.0078$

Test Statistic, high extreme of all data: $T_n = 2.7087$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0078	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nickel, total, mg/L

Location: APW-3

Mean of all data: 0.0031

Standard Deviation of all data: 0.0018

Largest Observation Concentration of all data: $X_n = 0.0091$

Test Statistic, high extreme of all data: $T_n = 3.3078$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.0091	False		1

Nickel, total, mg/L

Location: APW-4

Mean of all data: 0.0032

Standard Deviation of all data: 0.0022

Largest Observation Concentration of all data: $X_n = 0.0107$

Test Statistic, high extreme of all data: $T_n = 3.4815$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/21/2017	0.0107	False		1

Nickel, total, mg/L

Location: APW-5

Mean of all data: 0.0049

Standard Deviation of all data: 0.0065

Largest Observation Concentration of all data: $X_n = 0.0332$

Test Statistic, high extreme of all data: $T_n = 4.3592$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0332	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nickel, total, mg/L

Location: APW-6

Mean of all data: 0.0031

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: $X_n = 0.0103$

Test Statistic, high extreme of all data: $T_n = 4.1262$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0103	False		1

Nickel, total, mg/L

Location: APW-7

Mean of all data: 0.0044

Standard Deviation of all data: 0.0078

Largest Observation Concentration of all data: $X_n = 0.0417$

Test Statistic, high extreme of all data: $T_n = 4.8076$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.0417	False		1

Nickel, total, mg/L

Location: APW-8

Mean of all data: 0.0077

Standard Deviation of all data: 0.0225

Largest Observation Concentration of all data: $X_n = 0.1200$

Test Statistic, high extreme of all data: $T_n = 4.9812$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.1200	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nickel, total, mg/L

Location: APW-9

Mean of all data: 0.0065

Standard Deviation of all data: 0.0053

Largest Observation Concentration of all data: $X_n = 0.0194$

Test Statistic, high extreme of all data: $T_n = 2.4396$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nitrate nitrogen, dissolved, mg/L

Location: APW-1

Mean of all data: 3.854

Standard Deviation of all data: 1.421

Largest Observation Concentration of all data: $X_n = 8.240$

Test Statistic, high extreme of all data: $T_n = 3.087$

T Critical of all data: $T_{cr} = 2.811$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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06/05/2018	8.240	False		1
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Nitrate nitrogen, dissolved, mg/L

Location: APW-10

Mean of all data: 2.955

Standard Deviation of all data: 0.721

Largest Observation Concentration of all data: $X_n = 4.530$

Test Statistic, high extreme of all data: $T_n = 2.183$

T Critical of all data: $T_{cr} = 2.603$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nitrate nitrogen, dissolved, mg/L

Location: APW-11

Mean of all data: 3.272

Standard Deviation of all data: 1.140

Largest Observation Concentration of all data: Xn = 5.470

Test Statistic, high extreme of all data: Tn = 1.929

T Critical of all data: Tcr = 2.603

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nitrate nitrogen, dissolved, mg/L

Location: APW-12

Mean of all data: 1.184

Standard Deviation of all data: 1.574

Largest Observation Concentration of all data: Xn = 5.500

Test Statistic, high extreme of all data: Tn = 2.742

T Critical of all data: Tcr = 2.580

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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01/29/2019	5.500	False		1
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Nitrate nitrogen, dissolved, mg/L

Location: APW-13

Mean of all data: 0.000

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 4.620

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nitrate nitrogen, dissolved, mg/L

Location: APW-2

Mean of all data: 0.047

Standard Deviation of all data: 0.082

Largest Observation Concentration of all data: $X_n = 0.400$

Test Statistic, high extreme of all data: $T_n = 4.285$

T Critical of all data: $T_{cr} = 2.786$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	0.400	False		1

Nitrate nitrogen, dissolved, mg/L

Location: APW-3

Mean of all data: 0.035

Standard Deviation of all data: 0.082

Largest Observation Concentration of all data: $X_n = 0.490$

Test Statistic, high extreme of all data: $T_n = 5.520$

T Critical of all data: $T_{cr} = 2.786$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	0.490	False		1

Nitrate nitrogen, dissolved, mg/L

Location: APW-4

Mean of all data: 0.181

Standard Deviation of all data: 0.682

Largest Observation Concentration of all data: $X_n = 3.890$

Test Statistic, high extreme of all data: $T_n = 5.440$

T Critical of all data: $T_{cr} = 2.773$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/08/2023	3.890	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nitrate nitrogen, dissolved, mg/L

Location: APW-5

Mean of all data: 2.211

Standard Deviation of all data: 0.690

Largest Observation Concentration of all data: Xn = 4.290

Test Statistic, high extreme of all data: Tn = 3.012

T Critical of all data: Tcr = 2.811

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	4.290	False		1

Nitrate nitrogen, dissolved, mg/L

Location: APW-6

Mean of all data: 0.410

Standard Deviation of all data: 0.389

Largest Observation Concentration of all data: Xn = 2.130

Test Statistic, high extreme of all data: Tn = 4.418

T Critical of all data: Tcr = 2.698

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	2.130	False		1

Nitrate nitrogen, dissolved, mg/L

Location: APW-7

Mean of all data: 1.886

Standard Deviation of all data: 1.790

Largest Observation Concentration of all data: Xn = 5.470

Test Statistic, high extreme of all data: Tn = 2.002

T Critical of all data: Tcr = 2.681

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nitrate nitrogen, dissolved, mg/L

Location: APW-8

Mean of all data: 4.277

Standard Deviation of all data: 0.690

Largest Observation Concentration of all data: Xn = 5.770

Test Statistic, high extreme of all data: Tn = 2.164

T Critical of all data: Tcr = 2.698

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nitrate nitrogen, dissolved, mg/L

Location: APW-9

Mean of all data: 3.200

Standard Deviation of all data: 1.277

Largest Observation Concentration of all data: Xn = 8.330

Test Statistic, high extreme of all data: Tn = 4.018

T Critical of all data: Tcr = 2.681

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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07/29/2020	8.330	False		1
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Nitrite nitrogen, dissolved, mg/L

Location: APW-1

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Tcr = 0.00

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nitrite nitrogen, dissolved, mg/L

Location: APW-10

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 2.56$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-11

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 2.56$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-12

Mean of all data: 0.03

Standard Deviation of all data: 0.01

Largest Observation Concentration of all data: $X_n = 0.07$

Test Statistic, high extreme of all data: $T_n = 3.39$

T Critical of all data: $T_{cr} = 2.58$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
02/17/2020	0.07	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nitrite nitrogen, dissolved, mg/L

Location: APW-13

Mean of all data: 0.00

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-2

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-3

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nitrite nitrogen, dissolved, mg/L

Location: APW-4

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-5

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-6

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Nitrite nitrogen, dissolved, mg/L

Location: APW-7

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-8

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-9

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

pH (field), STD

Location: APW-1

Mean of all data: 6.99

Standard Deviation of all data: 0.29

Largest Observation Concentration of all data: $X_n = 7.83$

Test Statistic, high extreme of all data: $T_n = 2.90$

T Critical of all data: $T_{cr} = 2.80$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/24/2011	7.83	False		1

pH (field), STD

Location: APW-10

Mean of all data: 7.52

Standard Deviation of all data: 0.14

Largest Observation Concentration of all data: $X_n = 7.75$

Test Statistic, high extreme of all data: $T_n = 1.61$

T Critical of all data: $T_{cr} = 2.60$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/30/2021	7.11	False	-1	

pH (field), STD

Location: APW-11

Mean of all data: 7.38

Standard Deviation of all data: 0.15

Largest Observation Concentration of all data: $X_n = 7.57$

Test Statistic, high extreme of all data: $T_n = 1.28$

T Critical of all data: $T_{cr} = 2.60$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

pH (field), STD

Location: APW-12

Mean of all data: 6.89

Standard Deviation of all data: 0.20

Largest Observation Concentration of all data: $X_n = 7.24$

Test Statistic, high extreme of all data: $T_n = 1.76$

T Critical of all data: $T_{cr} = 2.58$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

pH (field), STD

Location: APW-13

Mean of all data: 0.00

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: $X_n = 7.06$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

pH (field), STD

Location: APW-2

Mean of all data: 6.85

Standard Deviation of all data: 0.26

Largest Observation Concentration of all data: $X_n = 7.41$

Test Statistic, high extreme of all data: $T_n = 2.18$

T Critical of all data: $T_{cr} = 2.77$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	5.98	False	-1	

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

pH (field), STD

Location: APW-3

Mean of all data: 7.49

Standard Deviation of all data: 0.35

Largest Observation Concentration of all data: $X_n = 8.36$

Test Statistic, high extreme of all data: $T_n = 2.49$

T Critical of all data: $T_{cr} = 2.77$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

pH (field), STD

Location: APW-4

Mean of all data: 6.87

Standard Deviation of all data: 0.25

Largest Observation Concentration of all data: $X_n = 7.42$

Test Statistic, high extreme of all data: $T_n = 2.18$

T Critical of all data: $T_{cr} = 2.76$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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12/13/2010	5.88	False	-1	
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pH (field), STD

Location: APW-5

Mean of all data: 7.36

Standard Deviation of all data: 0.25

Largest Observation Concentration of all data: $X_n = 7.91$

Test Statistic, high extreme of all data: $T_n = 2.20$

T Critical of all data: $T_{cr} = 2.80$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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12/13/2010	6.44	False	-1	
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

pH (field), STD

Location: APW-6

Mean of all data: 7.15

Standard Deviation of all data: 0.18

Largest Observation Concentration of all data: Xn = 7.53

Test Statistic, high extreme of all data: Tn = 2.10

T Critical of all data: Tcr = 2.70

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

pH (field), STD

Location: APW-7

Mean of all data: 7.00

Standard Deviation of all data: 0.16

Largest Observation Concentration of all data: Xn = 7.16

Test Statistic, high extreme of all data: Tn = 1.02

T Critical of all data: Tcr = 2.68

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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04/25/2023	6.50	False	-1	
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pH (field), STD

Location: APW-8

Mean of all data: 7.32

Standard Deviation of all data: 0.15

Largest Observation Concentration of all data: Xn = 7.56

Test Statistic, high extreme of all data: Tn = 1.57

T Critical of all data: Tcr = 2.70

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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04/26/2023	6.89	False	-1	
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

pH (field), STD

Location: APW-9

Mean of all data: 6.94

Standard Deviation of all data: 0.16

Largest Observation Concentration of all data: $X_n = 7.24$

Test Statistic, high extreme of all data: $T_n = 1.85$

T Critical of all data: $T_{cr} = 2.68$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0157

Standard Deviation of all data: 0.0080

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.5359$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Selenium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0212

Standard Deviation of all data: 0.0054

Largest Observation Concentration of all data: $X_n = 0.0453$

Test Statistic, high extreme of all data: $T_n = 4.4772$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/26/2021	0.0453	False		1

Selenium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Selenium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0873$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Selenium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0161

Standard Deviation of all data: 0.0077

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.5089$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0160

Standard Deviation of all data: 0.0078

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.5099$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0191

Standard Deviation of all data: 0.0044

Largest Observation Concentration of all data: $X_n = 0.0300$

Test Statistic, high extreme of all data: $T_n = 2.4532$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	<0.0000	True	-1	

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Selenium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0158

Standard Deviation of all data: 0.0078

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.5349$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Selenium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0692

Standard Deviation of all data: 0.0198

Largest Observation Concentration of all data: $X_n = 0.0963$

Test Statistic, high extreme of all data: $T_n = 1.3700$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, total, mg/L

Location: APW-1

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Selenium, total, mg/L

Location: APW-10

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, total, mg/L

Location: APW-11

Mean of all data: 0.0213

Standard Deviation of all data: 0.0059

Largest Observation Concentration of all data: $X_n = 0.0479$

Test Statistic, high extreme of all data: $T_n = 4.4772$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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01/26/2021	0.0479	False		1
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Selenium, total, mg/L

Location: APW-12

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Selenium, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0892$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, total, mg/L

Location: APW-2

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, total, mg/L

Location: APW-3

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Selenium, total, mg/L

Location: APW-4

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, total, mg/L

Location: APW-5

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, total, mg/L

Location: APW-6

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Selenium, total, mg/L

Location: APW-7

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, total, mg/L

Location: APW-8

Mean of all data: 0.0751

Standard Deviation of all data: 0.0158

Largest Observation Concentration of all data: $X_n = 0.1110$

Test Statistic, high extreme of all data: $T_n = 2.2697$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, total, mg/L

Location: APW-9

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Silver, dissolved, mg/L

Location: APW-1

Mean of all data: 0.003

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.625$

T Critical of all data: $T_{cr} = 2.811$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, dissolved, mg/L

Location: APW-10

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, dissolved, mg/L

Location: APW-11

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Silver, dissolved, mg/L

Location: APW-12

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, dissolved, mg/L

Location: APW-13

Mean of all data: 0.000

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, dissolved, mg/L

Location: APW-2

Mean of all data: 0.003

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.605$

T Critical of all data: $T_{cr} = 2.786$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Silver, dissolved, mg/L

Location: APW-3

Mean of all data: 0.003

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.605$

T Critical of all data: $T_{cr} = 2.786$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, dissolved, mg/L

Location: APW-4

Mean of all data: 0.003

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.571$

T Critical of all data: $T_{cr} = 2.773$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, dissolved, mg/L

Location: APW-5

Mean of all data: 0.003

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.625$

T Critical of all data: $T_{cr} = 2.811$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Silver, dissolved, mg/L

Location: APW-6

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.409$

T Critical of all data: $T_{cr} = 2.698$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, dissolved, mg/L

Location: APW-7

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.418$

T Critical of all data: $T_{cr} = 2.681$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, dissolved, mg/L

Location: APW-8

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.409$

T Critical of all data: $T_{cr} = 2.698$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Silver, dissolved, mg/L

Location: APW-9

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.418$

T Critical of all data: $T_{cr} = 2.681$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, total, mg/L

Location: APW-1

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.409$

T Critical of all data: $T_{cr} = 2.698$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, total, mg/L

Location: APW-10

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Silver, total, mg/L

Location: APW-11

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, total, mg/L

Location: APW-12

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, total, mg/L

Location: APW-13

Mean of all data: 0.000

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Silver, total, mg/L

Location: APW-2

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.418$

T Critical of all data: $T_{cr} = 2.681$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, total, mg/L

Location: APW-3

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.418$

T Critical of all data: $T_{cr} = 2.681$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, total, mg/L

Location: APW-4

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.418$

T Critical of all data: $T_{cr} = 2.681$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Silver, total, mg/L

Location: APW-5

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.409$

T Critical of all data: $T_{cr} = 2.698$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, total, mg/L

Location: APW-6

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.409$

T Critical of all data: $T_{cr} = 2.698$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, total, mg/L

Location: APW-7

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.418$

T Critical of all data: $T_{cr} = 2.681$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Silver, total, mg/L

Location: APW-8

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.409$

T Critical of all data: $T_{cr} = 2.698$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Silver, total, mg/L

Location: APW-9

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.418$

T Critical of all data: $T_{cr} = 2.681$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-1

Mean of all data: 466

Standard Deviation of all data: 179

Largest Observation Concentration of all data: $X_n = 1030$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/17/2021	1030	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-10

Mean of all data: 558

Standard Deviation of all data: 97

Largest Observation Concentration of all data: Xn = 809

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Ter = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-11

Mean of all data: 656

Standard Deviation of all data: 197

Largest Observation Concentration of all data: Xn = 1100

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Ter = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-12

Mean of all data: 789

Standard Deviation of all data: 156

Largest Observation Concentration of all data: Xn = 1138

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Ter = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-13

Mean of all data: 0

Standard Deviation of all data: 0

Largest Observation Concentration of all data: Xn = 1120

Test Statistic, high extreme of all data: Tn = 0

T Critical of all data: Tcr = 0

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-2

Mean of all data: 773

Standard Deviation of all data: 190

Largest Observation Concentration of all data: Xn = 1152

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-3

Mean of all data: 1095

Standard Deviation of all data: 172

Largest Observation Concentration of all data: Xn = 1430

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-4

Mean of all data: 805

Standard Deviation of all data: 109

Largest Observation Concentration of all data: Xn = 967

Test Statistic, high extreme of all data: Tn = 1

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-5

Mean of all data: 527

Standard Deviation of all data: 83

Largest Observation Concentration of all data: Xn = 707

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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12/13/2010	267	False	-1	
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Specific Conductance @ 25C (field), micromhos/cm

Location: APW-6

Mean of all data: 575

Standard Deviation of all data: 106

Largest Observation Concentration of all data: Xn = 793

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-7

Mean of all data: 649

Standard Deviation of all data: 85

Largest Observation Concentration of all data: Xn = 819

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Ter = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-8

Mean of all data: 963

Standard Deviation of all data: 129

Largest Observation Concentration of all data: Xn = 1240

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Ter = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-9

Mean of all data: 1261

Standard Deviation of all data: 275

Largest Observation Concentration of all data: Xn = 1740

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Ter = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Sulfate, dissolved, mg/L

Location: APW-1

Mean of all data: 16

Standard Deviation of all data: 5

Largest Observation Concentration of all data: Xn = 33

Test Statistic, high extreme of all data: Tn = 4

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/24/2011	33	False		1

Sulfate, dissolved, mg/L

Location: APW-10

Mean of all data: 85

Standard Deviation of all data: 25

Largest Observation Concentration of all data: Xn = 126

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Sulfate, dissolved, mg/L

Location: APW-11

Mean of all data: 106

Standard Deviation of all data: 72

Largest Observation Concentration of all data: Xn = 309

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/26/2021	309	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Sulfate, dissolved, mg/L

Location: APW-12

Mean of all data: 46

Standard Deviation of all data: 17

Largest Observation Concentration of all data: Xn = 96

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/29/2019	96	False		1

Sulfate, dissolved, mg/L

Location: APW-13

Mean of all data: 0

Standard Deviation of all data: 0

Largest Observation Concentration of all data: Xn = 205

Test Statistic, high extreme of all data: Tn = 0

T Critical of all data: Tcr = 0

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Sulfate, dissolved, mg/L

Location: APW-2

Mean of all data: 21

Standard Deviation of all data: 15

Largest Observation Concentration of all data: Xn = 67

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/27/2018	67	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Sulfate, dissolved, mg/L

Location: APW-3

Mean of all data: 130

Standard Deviation of all data: 102

Largest Observation Concentration of all data: Xn = 310

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Sulfate, dissolved, mg/L

Location: APW-4

Mean of all data: 26

Standard Deviation of all data: 12

Largest Observation Concentration of all data: Xn = 53

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Sulfate, dissolved, mg/L

Location: APW-5

Mean of all data: 30

Standard Deviation of all data: 18

Largest Observation Concentration of all data: Xn = 83

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/27/2018	83	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Sulfate, dissolved, mg/L

Location: APW-6

Mean of all data: 19

Standard Deviation of all data: 9

Largest Observation Concentration of all data: Xn = 38

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Sulfate, dissolved, mg/L

Location: APW-7

Mean of all data: 29

Standard Deviation of all data: 8

Largest Observation Concentration of all data: Xn = 41

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Sulfate, dissolved, mg/L

Location: APW-8

Mean of all data: 287

Standard Deviation of all data: 71

Largest Observation Concentration of all data: Xn = 421

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Sulfate, dissolved, mg/L

Location: APW-9

Mean of all data: 431

Standard Deviation of all data: 148

Largest Observation Concentration of all data: $X_n = 757$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0007

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.6722$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Thallium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Thallium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0007

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.6551$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.6096$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.6225$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Thallium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0007

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.6722$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4092$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4181$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Thallium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4092$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4181$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, total, mg/L

Location: APW-1

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4092$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Thallium, total, mg/L

Location: APW-10

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, total, mg/L

Location: APW-11

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, total, mg/L

Location: APW-12

Mean of all data: 0.0011

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0024$

Test Statistic, high extreme of all data: $T_n = 4.3644$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0024	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Thallium, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, total, mg/L

Location: APW-2

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4181$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, total, mg/L

Location: APW-3

Mean of all data: 0.0010

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0021$

Test Statistic, high extreme of all data: $T_n = 3.8433$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
08/06/2021	0.0021	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Thallium, total, mg/L

Location: APW-4

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4181$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, total, mg/L

Location: APW-5

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4092$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, total, mg/L

Location: APW-6

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4092$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Thallium, total, mg/L

Location: APW-7

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4181$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, total, mg/L

Location: APW-8

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4092$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Thallium, total, mg/L

Location: APW-9

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.4181$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Total Dissolved Solids, mg/L

Location: APW-1

Mean of all data: 228

Standard Deviation of all data: 75

Largest Observation Concentration of all data: Xn = 420

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Total Dissolved Solids, mg/L

Location: APW-10

Mean of all data: 328

Standard Deviation of all data: 42

Largest Observation Concentration of all data: Xn = 408

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Total Dissolved Solids, mg/L

Location: APW-11

Mean of all data: 389

Standard Deviation of all data: 142

Largest Observation Concentration of all data: Xn = 812

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/26/2021	812	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Total Dissolved Solids, mg/L

Location: APW-12

Mean of all data: 435

Standard Deviation of all data: 99

Largest Observation Concentration of all data: $X_n = 730$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/29/2019	730	False		1

Total Dissolved Solids, mg/L

Location: APW-13

Mean of all data: 0

Standard Deviation of all data: 0

Largest Observation Concentration of all data: $X_n = 624$

Test Statistic, high extreme of all data: $T_n = 0$

T Critical of all data: $T_{cr} = 0$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Total Dissolved Solids, mg/L

Location: APW-2

Mean of all data: 445

Standard Deviation of all data: 113

Largest Observation Concentration of all data: $X_n = 630$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Total Dissolved Solids, mg/L

Location: APW-3

Mean of all data: 702

Standard Deviation of all data: 88

Largest Observation Concentration of all data: Xn = 970

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/17/2012	970	False		1

Total Dissolved Solids, mg/L

Location: APW-4

Mean of all data: 452

Standard Deviation of all data: 74

Largest Observation Concentration of all data: Xn = 690

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/18/2012	690	False		1

Total Dissolved Solids, mg/L

Location: APW-5

Mean of all data: 277

Standard Deviation of all data: 59

Largest Observation Concentration of all data: Xn = 382

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Total Dissolved Solids, mg/L

Location: APW-6

Mean of all data: 307

Standard Deviation of all data: 48

Largest Observation Concentration of all data: Xn = 398

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Total Dissolved Solids, mg/L

Location: APW-7

Mean of all data: 348

Standard Deviation of all data: 41

Largest Observation Concentration of all data: Xn = 464

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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01/29/2019	464	False		1
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Total Dissolved Solids, mg/L

Location: APW-8

Mean of all data: 650

Standard Deviation of all data: 92

Largest Observation Concentration of all data: Xn = 832

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Total Dissolved Solids, mg/L

Location: APW-9

Mean of all data: 932

Standard Deviation of all data: 245

Largest Observation Concentration of all data: $X_n = 1430$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Vanadium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Vanadium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Vanadium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Vanadium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, total, mg/L

Location: APW-1

Mean of all data: 0.0058

Standard Deviation of all data: 0.0031

Largest Observation Concentration of all data: $X_n = 0.0205$

Test Statistic, high extreme of all data: $T_n = 4.7186$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0205	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Vanadium, total, mg/L

Location: APW-10

Mean of all data: 0.0076

Standard Deviation of all data: 0.0122

Largest Observation Concentration of all data: $X_n = 0.0622$

Test Statistic, high extreme of all data: $T_n = 4.4772$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.0622	False		1

Vanadium, total, mg/L

Location: APW-11

Mean of all data: 0.0088

Standard Deviation of all data: 0.0158

Largest Observation Concentration of all data: $X_n = 0.0790$

Test Statistic, high extreme of all data: $T_n = 4.4477$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0790	False		1

Vanadium, total, mg/L

Location: APW-12

Mean of all data: 0.0097

Standard Deviation of all data: 0.0185

Largest Observation Concentration of all data: $X_n = 0.0894$

Test Statistic, high extreme of all data: $T_n = 4.3080$

T Critical of all data: $T_{cr} = 2.5800$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0894	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Vanadium, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, total, mg/L

Location: APW-2

Mean of all data: 0.0052

Standard Deviation of all data: 0.0013

Largest Observation Concentration of all data: $X_n = 0.0114$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0114	False		1

Vanadium, total, mg/L

Location: APW-3

Mean of all data: 0.0057

Standard Deviation of all data: 0.0026

Largest Observation Concentration of all data: $X_n = 0.0160$

Test Statistic, high extreme of all data: $T_n = 3.8889$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0160	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Vanadium, total, mg/L

Location: APW-4

Mean of all data: 0.0059

Standard Deviation of all data: 0.0027

Largest Observation Concentration of all data: $X_n = 0.0152$

Test Statistic, high extreme of all data: $T_n = 3.4990$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.0152	False		1

Vanadium, total, mg/L

Location: APW-5

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Vanadium, total, mg/L

Location: APW-6

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Vanadium, total, mg/L

Location: APW-7

Mean of all data: 0.0072

Standard Deviation of all data: 0.0111

Largest Observation Concentration of all data: $X_n = 0.0618$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.0618	False		1

Vanadium, total, mg/L

Location: APW-8

Mean of all data: 0.0067

Standard Deviation of all data: 0.0091

Largest Observation Concentration of all data: $X_n = 0.0522$

Test Statistic, high extreme of all data: $T_n = 5.0037$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0522	False		1

Vanadium, total, mg/L

Location: APW-9

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Zinc, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0042

Standard Deviation of all data: 0.0030

Largest Observation Concentration of all data: $X_n = 0.0162$

Test Statistic, high extreme of all data: $T_n = 4.0358$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0162	False		1

Zinc, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Zinc, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Zinc, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Zinc, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Zinc, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0041

Standard Deviation of all data: 0.0020

Largest Observation Concentration of all data: $X_n = 0.0064$

Test Statistic, high extreme of all data: $T_n = 1.1370$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Zinc, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0043

Standard Deviation of all data: 0.0024

Largest Observation Concentration of all data: $X_n = 0.0120$

Test Statistic, high extreme of all data: $T_n = 3.2189$

T Critical of all data: $T_{cr} = 2.7860$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/18/2012	0.0120	False		1

Zinc, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0043

Standard Deviation of all data: 0.0019

Largest Observation Concentration of all data: $X_n = 0.0072$

Test Statistic, high extreme of all data: $T_n = 1.5215$

T Critical of all data: $T_{cr} = 2.7730$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

Zinc, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0039

Standard Deviation of all data: 0.0021

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.5365$

T Critical of all data: $T_{cr} = 2.8110$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Zinc, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Zinc, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Zinc, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Zinc, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Zinc, total, mg/L

Location: APW-1

Mean of all data: 0.0103

Standard Deviation of all data: 0.0103

Largest Observation Concentration of all data: $X_n = 0.0510$

Test Statistic, high extreme of all data: $T_n = 3.9537$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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03/21/2018	0.0510	False		1
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Zinc, total, mg/L

Location: APW-10

Mean of all data: 0.0136

Standard Deviation of all data: 0.0347

Largest Observation Concentration of all data: $X_n = 0.1680$

Test Statistic, high extreme of all data: $T_n = 4.4462$

T Critical of all data: $T_{cr} = 2.6030$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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11/11/2021	0.1680	False		1
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**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Zinc, total, mg/L

Location: APW-11

Mean of all data: 0.0158

Standard Deviation of all data: 0.0392

Largest Observation Concentration of all data: Xn = 0.1890

Test Statistic, high extreme of all data: Tn = 4.4153

T Critical of all data: Tcr = 2.6030

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.1890	False		1

Zinc, total, mg/L

Location: APW-12

Mean of all data: 0.0163

Standard Deviation of all data: 0.0392

Largest Observation Concentration of all data: Xn = 0.1850

Test Statistic, high extreme of all data: Tn = 4.2994

T Critical of all data: Tcr = 2.5800

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.1850	False		1

Zinc, total, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
<i>No Outliers</i>				

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Zinc, total, mg/L

Location: APW-2

Mean of all data: 0.0067

Standard Deviation of all data: 0.0055

Largest Observation Concentration of all data: $X_n = 0.0265$

Test Statistic, high extreme of all data: $T_n = 3.6183$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.0265	False		1

Zinc, total, mg/L

Location: APW-3

Mean of all data: 0.0084

Standard Deviation of all data: 0.0082

Largest Observation Concentration of all data: $X_n = 0.0371$

Test Statistic, high extreme of all data: $T_n = 3.5059$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0371	False		1

Zinc, total, mg/L

Location: APW-4

Mean of all data: 0.0099

Standard Deviation of all data: 0.0092

Largest Observation Concentration of all data: $X_n = 0.0369$

Test Statistic, high extreme of all data: $T_n = 2.9497$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0369	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Zinc, total, mg/L

Location: APW-5

Mean of all data: 0.0057

Standard Deviation of all data: 0.0026

Largest Observation Concentration of all data: Xn = 0.0173

Test Statistic, high extreme of all data: Tn = 4.4661

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0173	False		1

Zinc, total, mg/L

Location: APW-6

Mean of all data: 0.0053

Standard Deviation of all data: 0.0016

Largest Observation Concentration of all data: Xn = 0.0133

Test Statistic, high extreme of all data: Tn = 5.0037

T Critical of all data: Tcr = 2.6980

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0133	False		1

Zinc, total, mg/L

Location: APW-7

Mean of all data: 0.0085

Standard Deviation of all data: 0.0177

Largest Observation Concentration of all data: Xn = 0.0953

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.0953	False		1

**Meredosia Power Station
Outlier Analysis Results**

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023

LT Multiplier: x 0.50

Confidence Level: 95%

Number of Outliers: One Outlier

Transform: None

Zinc, total, mg/L

Location: APW-8

Mean of all data: 0.0106

Standard Deviation of all data: 0.0269

Largest Observation Concentration of all data: $X_n = 0.1450$

Test Statistic, high extreme of all data: $T_n = 4.9962$

T Critical of all data: $T_{cr} = 2.6980$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.1450	False		1

Zinc, total, mg/L

Location: APW-9

Mean of all data: 0.0060

Standard Deviation of all data: 0.0028

Largest Observation Concentration of all data: $X_n = 0.0154$

Test Statistic, high extreme of all data: $T_n = 3.4022$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0154	False		1

APPENDIX B3
SEN SLOPE AND MANN-KENDALL TEST RESULTS - SHORT TERM

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.00		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.00	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0775	mg/L per period
R-Squared error of fit:	0.0388	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0923	mg/L per period
Lower Confidence Limit of Slope, M1:	-.698	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.234	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.00285	mg/L per period	
R-Squared error of fit:	0.234		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.00214	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.00655	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00180	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	-1.11		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0437	mg/L per period
R-Squared error of fit:	0.0592	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00634	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.196	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.107	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00259	mg/L per period
R-Squared error of fit:	0.0476	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.00683	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00715	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0165	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.628	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000263	mg/L per period
R-Squared error of fit:	0.259	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000148	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000176	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000636	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.499	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000755	mg/L per period
R-Squared error of fit:	0.325	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000548	mg/L per period
R-Squared error of fit:	0.0872	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.0000641	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000265	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000109	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-0.866
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.0000107	mg/L per period	
R-Squared error of fit:	0.276		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.0000105	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.0000281	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000477	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.866	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000216	mg/L per period
R-Squared error of fit:	0.307	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000244	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000637	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00000446	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.0000490	mg/L per period	
R-Squared error of fit:	0.324		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.0000294	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000118	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0000227	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-1.36	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000949	mg/L per period
R-Squared error of fit:	0.00150	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00165	mg/L per period
R-Squared error of fit:	0.586	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00143	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00273	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000316	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.10
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000135	mg/L per period
R-Squared error of fit:	0.0421	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-.00000103	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000328	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000385	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-.664
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000141	mg/L per period
R-Squared error of fit:	0.660	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000145	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000228	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000285	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):		-0.0000441	mg/L per period
R-Squared error of fit:		0.0926	
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:		-0.0000451	mg/L per period
Lower Confidence Limit of Slope, M1:		-0.0000159	mg/L per period
Upper Confidence Limit of Slope, M2+1:		0.000000124	mg/L per period
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.930	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0000175 mg/L per period
R-Squared error of fit:	0.228
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.07		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.25		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.128	mg/L per period
R-Squared error of fit:	0.654	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.118	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.204	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00501	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.75
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000882	mg/L per period
R-Squared error of fit:	0.255	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000527	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00260	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000579	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.619	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00654	mg/L per period
R-Squared error of fit:	0.783	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00660	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00998	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00289	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.52
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0666	mg/L per period
R-Squared error of fit:	0.852	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0683	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0907	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0281	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.74
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000000625	mg/L per period	
R-Squared error of fit:	0.123		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000000693	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000273	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.07	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000163	mg/L per period
R-Squared error of fit:	0.0732	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000000903	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000251	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000179	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-0.255
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000794	mg/L per period
R-Squared error of fit:	0.679	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000715	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000117	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0000116	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.24
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000177	mg/L per period
R-Squared error of fit:	0.561	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000147	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000265	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0000537	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.10
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000787	mg/L per period
R-Squared error of fit:	0.316	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000754	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00195	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000880	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.11	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00107	mg/L per period
R-Squared error of fit:	0.298	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000715	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00251	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000310	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.50	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000144	mg/L per period
R-Squared error of fit:	0.0451	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000000125	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-0.329
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000263	mg/L per period
R-Squared error of fit:	0.0777	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000272	mg/L per period
R-Squared error of fit:	0.0777	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.436	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00263	mg/L per period
R-Squared error of fit:	0.200	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.00128	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00473	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00198	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.11	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000355	mg/L per period
R-Squared error of fit:	0.200	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.0000172	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000579	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000340	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-1.27
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000212	mg/L per period
R-Squared error of fit:	0.247	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.0000969	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000401	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000202	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.866	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):		-0.00000652	mg/L per period
R-Squared error of fit:		0.163	
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:		0.0	mg/L per period
Lower Confidence Limit of Slope, M1:		-0.00000701	mg/L per period
Upper Confidence Limit of Slope, M2+1:		0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.986	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000401	mg/L per period
R-Squared error of fit:	0.0777	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.436	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000000256	mg/L per period
R-Squared error of fit:	0.0375	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.436	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.01		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.62	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.155	mg/L per period
R-Squared error of fit:	0.0821	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.110	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.656	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.676	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.371	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00505	mg/L per period
R-Squared error of fit:	0.424	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.00449	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000165	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00860	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	1.61	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00349	mg/L per period
R-Squared error of fit:	0.186	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.00417	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0137	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00110	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.04	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0616	mg/L per period
R-Squared error of fit:	0.0558	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-.0949	mg/L per period
Lower Confidence Limit of Slope, M1:	-.388	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.210	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.619	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000000323	mg/L per period
R-Squared error of fit:	0.00152	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000104	mg/L per period
R-Squared error of fit:	0.506	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000751	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000174	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000000477	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.50
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000135	mg/L per period
R-Squared error of fit:	0.579	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.0000139	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000209	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00000639	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-1.61
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000359	mg/L per period
R-Squared error of fit:	0.00625	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000175	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00409	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00632	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.124	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.000622	mg/L per period	
R-Squared error of fit:	0.0154		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.000180	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.00663	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00608	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.0	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000174	mg/L per period
R-Squared error of fit:	0.00152	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):		-0.000608	mg/L per period
R-Squared error of fit:		0.283	
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:		-0.000412	mg/L per period
Lower Confidence Limit of Slope, M1:		-0.00137	mg/L per period
Upper Confidence Limit of Slope, M2+1:		0.000404	mg/L per period
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.619	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.000562	mg/L per period	
R-Squared error of fit:	0.180		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.000392	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000103	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0000258	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.866	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.04		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	-0.50		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.234	mg/L	per period
R-Squared error of fit:	0.604		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.275	mg/L	per period
Lower Confidence Limit of Slope, M1:	0.0595	mg/L	per period
Upper Confidence Limit of Slope, M2+1:	0.432	mg/L	per period
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	2.35		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		Upward	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00222	mg/L per period	
R-Squared error of fit:	0.0779		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000257	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.00280	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00904	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.124	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0104	mg/L per period
R-Squared error of fit:	0.207	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-.0121	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0318	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00769	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-0.997
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0207	mg/L per period
R-Squared error of fit:	0.206	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0198	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0176	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0899	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.11
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000000157	mg/L per period
R-Squared error of fit:	0.00000179	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-.00000990	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000996	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000143	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-126
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.0000441	mg/L per period	
R-Squared error of fit:	0.0850		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.00000540	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.0000141	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000618	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.126	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0000209	mg/L per period
R-Squared error of fit:	0.0430	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0000350	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000536	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000903	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		0.866
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.0000305	mg/L per period	
R-Squared error of fit:	0.000590		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.0000354	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000145	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0000962	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.124	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000129	mg/L per period	
R-Squared error of fit:	0.576		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000117	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000108	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000214	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.61	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000129	mg/L per period	
R-Squared error of fit:	0.438		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000136	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000379	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000304	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.11	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00000250	mg/L per period
R-Squared error of fit:	0.0784	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.436	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000000480	mg/L per period
R-Squared error of fit:	0.000767	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000000333	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000152	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000175	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		0.0
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000584	mg/L per period
R-Squared error of fit:	0.0885	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000218	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000558	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.399
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00494	mg/L per period
R-Squared error of fit:	0.0898	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000281	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0184	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00776	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.124	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):		-0.0000495	mg/L per period
R-Squared error of fit:		0.0928	
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:		0.0	mg/L per period
Lower Confidence Limit of Slope, M1:		-0.0000128	mg/L per period
Upper Confidence Limit of Slope, M2+1:		0.00000400	mg/L per period
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.0	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000571	mg/L per period
R-Squared error of fit:	0.0212	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.00126	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00269	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00466	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.619	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000805	mg/L per period
R-Squared error of fit:	0.379	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000920	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000283	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00134	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.36
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000401	mg/L per period
R-Squared error of fit:	0.248	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.00000371	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000103	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		1.53
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000287	mg/L per period
R-Squared error of fit:	0.0108	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.0000228	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000168	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000229	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-0.124
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.00000631	mg/L per period	
R-Squared error of fit:	0.0784		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	-0.436		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.000141	mg/L per period	
R-Squared error of fit:	0.0891		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000493	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000163	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.399	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.35		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	-1.00		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.126	mg/L per period
R-Squared error of fit:	0.0898	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0855	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.544	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.179	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.124
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000290	mg/L per period
R-Squared error of fit:	0.321	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0108	mg/L per period
R-Squared error of fit:	0.181	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0131	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.986
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00607	mg/L per period
R-Squared error of fit:	0.165	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.00607	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0178	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00428	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.507	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0000265	mg/L per period
R-Squared error of fit:	0.0942	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0000318	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000632	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000108	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.377	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000000923	mg/L per period	
R-Squared error of fit:	0.123		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00000117	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.00000129	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000240	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.509	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000479	mg/L per period	
R-Squared error of fit:	0.365		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00000184	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.000000588	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000845	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.99	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		Upward	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000291	mg/L per period
R-Squared error of fit:	0.0113	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.00000533	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000203	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000190	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		0.124
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0000690	mg/L per period
R-Squared error of fit:	0.327	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0000313	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000357	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000143	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.997	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000996	mg/L per period
R-Squared error of fit:	0.211	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000572	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00232	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000817	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.61	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000761	mg/L per period
R-Squared error of fit:	0.0875	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000488	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00189	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000651	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.11	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000458	mg/L per period	
R-Squared error of fit:	0.228		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.873		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000387	mg/L per period
R-Squared error of fit:	0.228	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000363	mg/L per period
R-Squared error of fit:	0.228	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.873	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0106	mg/L per period	
R-Squared error of fit:	0.345		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00432	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.000797	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0160	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.61	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0000294	mg/L per period	
R-Squared error of fit:	0.164		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0000465	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.658		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000000553	mg/L per period
R-Squared error of fit:	0.00175	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000317	mg/L per period	
R-Squared error of fit:	0.329		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000468	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.00	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000398	mg/L per period	
R-Squared error of fit:	0.119		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000268	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.000686	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00132	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.866	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.000811	mg/L per period	
R-Squared error of fit:	0.0169		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.000224	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000581	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000344	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.124	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000419	mg/L per period	
R-Squared error of fit:	0.228		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.873		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000506	mg/L per period
R-Squared error of fit:	0.228	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.873	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0000193	mg/L per period	
R-Squared error of fit:	0.408		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0000162	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.64	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000104	mg/L per period	
R-Squared error of fit:	0.636		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000130	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.83	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		Upward	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.20		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	-0.62		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.211	mg/L per period
R-Squared error of fit:	0.210	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.255	mg/L per period
Lower Confidence Limit of Slope, M1:	-.181	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.759	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.11
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0156	mg/L per period
R-Squared error of fit:	0.275	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00473	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0331	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.73
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0725	mg/L per period
R-Squared error of fit:	0.470	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0600	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0151	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.150	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	1.50	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000290	mg/L per period
R-Squared error of fit:	0.302	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000235	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000684	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.29
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000106	mg/L per period
R-Squared error of fit:	0.0000184	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0000318	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000182	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000251	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.997	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):		-0.000149	mg/L per period
R-Squared error of fit:		0.258	
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:		-0.0000938	mg/L per period
Lower Confidence Limit of Slope, M1:		-0.000304	mg/L per period
Upper Confidence Limit of Slope, M2+1:		0.0000834	mg/L per period
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-1.36	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0000733	mg/L per period	
R-Squared error of fit:	0.300		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0000774	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000168	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000187	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.61	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0000788	mg/L per period	
R-Squared error of fit:	0.473		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0000752	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.0000149	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000128	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.11	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0118	mg/L per period	
R-Squared error of fit:	0.351		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00980	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.00398	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0274	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.11	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0118	mg/L per period	
R-Squared error of fit:	0.306		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00979	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.00747	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0280	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.866		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000711	mg/L per period	
R-Squared error of fit:	0.228		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.873		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000379	mg/L per period
R-Squared error of fit:	0.228	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000814	mg/L per period	
R-Squared error of fit:	0.228		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.873		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00659	mg/L per period	
R-Squared error of fit:	0.179		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00114	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.00753	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0149	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.124	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00149	mg/L per period
R-Squared error of fit:	0.0769	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000828	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00294	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00803	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.371	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000459	mg/L per period	
R-Squared error of fit:	0.219		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000000446	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.00000292	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000781	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.255	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000343	mg/L per period	
R-Squared error of fit:	0.312		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000430	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.000102	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000814	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.11	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000348	mg/L per period	
R-Squared error of fit:	0.271		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000348	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.000140	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000816	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.13	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000363	mg/L per period
R-Squared error of fit:	0.228	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.873	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000869	mg/L per period	
R-Squared error of fit:	0.228		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.873		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0000197	mg/L per period	
R-Squared error of fit:	0.143		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.0000131	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0000454	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.0	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.16		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	-1.36		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.189	mg/L per period
R-Squared error of fit:	0.512	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.182	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0106	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.398	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.61
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00360	mg/L per period
R-Squared error of fit:	0.324	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.00000400	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00296	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	1.29	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0406	mg/L per period
R-Squared error of fit:	0.451	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-.0465	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0899	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00968	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.61	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0328	mg/L per period
R-Squared error of fit:	0.377	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0481	mg/L per period
Lower Confidence Limit of Slope, M1:	0.000370	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0729	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.61
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000370	mg/L per period	
R-Squared error of fit:	0.00113		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-.0000254	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.000121	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000110	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:			-.249
Z test:			1.64
At the 95.0 % Confidence Level (two-tailed test):			None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000784	mg/L per period
R-Squared error of fit:	0.0643	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.0000859	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000423	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000260	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-0.371
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.0000139	mg/L per period	
R-Squared error of fit:	0.154		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.0000167	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.0000383	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000974	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.866	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.0000146	mg/L per period	
R-Squared error of fit:	0.00424		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.0000209	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000171	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0000999	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.124	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000521	mg/L per period
R-Squared error of fit:	0.673	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000616	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000990	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000259	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.10
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000527	mg/L per period	
R-Squared error of fit:	0.397		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000474	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.0000231	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00123	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.25	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000441	mg/L per period	
R-Squared error of fit:	0.309		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000468	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.000423	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00115	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.36	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000115	mg/L per period
R-Squared error of fit:	0.0776	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000863	mg/L per period
R-Squared error of fit:	0.167	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000194	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.00	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0182	mg/L per period
R-Squared error of fit:	0.509	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0203	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0327	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00402	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00798	mg/L per period
R-Squared error of fit:	0.278	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.00902	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0206	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00183	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.866	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000357	mg/L per period
R-Squared error of fit:	0.302	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.0000313	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000895	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.55	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00122	mg/L per period
R-Squared error of fit:	0.429	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00131	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00265	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000583	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.75
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000886	mg/L per period
R-Squared error of fit:	0.304	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000789	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00174	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000256	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.11
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000190	mg/L per period
R-Squared error of fit:	0.419	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000106	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000256	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-1.58
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.02		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.25		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0457	mg/L per period	
R-Squared error of fit:	0.0239		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.119	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.196	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.175	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.866		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000743	mg/L per period	
R-Squared error of fit:	0.181		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000741	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.000833	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00307	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.11	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00467	mg/L per period
R-Squared error of fit:	0.0591	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00509	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0123	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0242	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.509
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.0102	mg/L per period	
R-Squared error of fit:	0.131		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-.00580	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.0297	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0101	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:			-.509
Z test:			1.64
At the 95.0 % Confidence Level (two-tailed test):			None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0000598	mg/L per period	
R-Squared error of fit:	0.586		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0000578	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0000148	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0000777	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.88	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		Upward	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000578	mg/L per period
R-Squared error of fit:	0.0377	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000300	mg/L per period	
R-Squared error of fit:	0.291		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00000329	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.000000428	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000808	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.11	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000287	mg/L per period	
R-Squared error of fit:	0.0542		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00000112	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.00000109	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000807	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.499	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0000554	mg/L per period	
R-Squared error of fit:	0.541		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0000714	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0000296	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000129	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		2.35	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		Upward	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0000124	mg/L per period	
R-Squared error of fit:	0.168		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0000145	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.0000183	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0000340	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.619	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000932	mg/L per period
R-Squared error of fit:	0.0377	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0000288	mg/L per period	
R-Squared error of fit:	0.0000665		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-.000292	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.00103	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-1.20	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000369	mg/L per period
R-Squared error of fit:	0.0777	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000868	mg/L per period
R-Squared error of fit:	0.0377	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000212	mg/L per period
R-Squared error of fit:	0.00326	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000498	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000172	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000186	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.764
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000206	mg/L per period
R-Squared error of fit:	0.0377	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.436	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.18		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	-0.75		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0553	mg/L per period
R-Squared error of fit:	0.345	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0436	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0590	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.127	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.866	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000274	mg/L per period	
R-Squared error of fit:	0.139		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000295	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.000750	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000842	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.866	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000762	mg/L per period	
R-Squared error of fit:	0.0645		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00239	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.579		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00479	mg/L per period
R-Squared error of fit:	0.0459	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-.00933	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0261	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0156	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-.628
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000537	mg/L per period
R-Squared error of fit:	0.355	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000560	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000123	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000176	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.38	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000369	mg/L per period
R-Squared error of fit:	0.0776	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000443	mg/L per period
R-Squared error of fit:	0.464	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.0000478	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000832	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000153	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.36	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.0000539	mg/L per period	
R-Squared error of fit:	0.353		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.0000373	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.0000131	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000600	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-1.61	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000645	mg/L per period
R-Squared error of fit:	0.312	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000693	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00138	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000897	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.61	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000777	mg/L per period
R-Squared error of fit:	0.406	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000755	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00134	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000303	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.36	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000697	mg/L per period
R-Squared error of fit:	0.221	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000549	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00143	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000457	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.25	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00000369	mg/L per period
R-Squared error of fit:	0.0776	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.436	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000280	mg/L per period
R-Squared error of fit:	0.0910	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000286	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000738	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000497	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-0.748
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000000472	mg/L per period	
R-Squared error of fit:	0.226		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.873		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.01		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.00		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0174	mg/L per period
R-Squared error of fit:	0.0471	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-.0542	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0989	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0501	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.748	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00518	mg/L per period
R-Squared error of fit:	0.577	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00462	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00861	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000461	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0259	mg/L per period
R-Squared error of fit:	0.250	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0365	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0725	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00621	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.25
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0169	mg/L per period
R-Squared error of fit:	0.442	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0123	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0304	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.53
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.0000107	mg/L per period	
R-Squared error of fit:	0.0130		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.0000330	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000143	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.0	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000222	mg/L per period
R-Squared error of fit:	0.715	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000212	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000325	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0000962	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.35
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000227	mg/L per period
R-Squared error of fit:	0.776	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000236	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000391	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000107	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.35
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000268	mg/L per period
R-Squared error of fit:	0.286	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000267	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000683	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000186	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.11	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.000221	mg/L per period	
R-Squared error of fit:	0.0890		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.000151	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000915	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000299	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.371	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000166	mg/L per period
R-Squared error of fit:	0.0344	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000430	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00123	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000495	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.371	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.000222	mg/L per period	
R-Squared error of fit:	0.153		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.000478	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000632	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0000571	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-1.11	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.28		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	-0.87		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.183	mg/L per period
R-Squared error of fit:	0.583	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.189	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.403	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0280	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.10
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000973	mg/L per period
R-Squared error of fit:	0.195	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.00108	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00424	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00151	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.866	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.00134	mg/L per period	
R-Squared error of fit:	0.164		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.00358	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	-0.549		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.158	mg/L per period
R-Squared error of fit:	0.492	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.137	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.275	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00999	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.75
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000114	mg/L per period
R-Squared error of fit:	0.398	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000104	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000252	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.34
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00000138	mg/L per period	
R-Squared error of fit:	0.650		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00000155	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.000000592	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000231	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		2.39	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		Upward	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000000495	mg/L per period	
R-Squared error of fit:	0.0911		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000000681	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.00000115	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000231	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.748	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000202	mg/L per period
R-Squared error of fit:	0.239	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000195	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000494	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000862	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-1.36
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.000232	mg/L per period	
R-Squared error of fit:	0.269		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.000175	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.000597	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000179	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-0.866	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00169	mg/L per period
R-Squared error of fit:	0.523	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00174	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00305	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000270	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00185	mg/L per period
R-Squared error of fit:	0.348	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.00189	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00407	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000286	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.36	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000111	mg/L per period
R-Squared error of fit:	0.0722	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-.00000893	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000590	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000218	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-0.371
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000135	mg/L per period
R-Squared error of fit:	0.0796	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000118	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000689	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000155	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.11	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000242	mg/L per period	
R-Squared error of fit:	0.0164		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-.000116	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.000871	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00176	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:			-.249
Z test:			1.64
At the 95.0 % Confidence Level (two-tailed test):			None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000000259	mg/L per period	
R-Squared error of fit:	0.0223		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.167		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0000428	mg/L per period
R-Squared error of fit:	0.0347	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000000812	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000878	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000237	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.249	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000291	mg/L per period
R-Squared error of fit:	0.225	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.873	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):		-0.00000284	mg/L per period
R-Squared error of fit:		0.00000772	
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:		-0.0000156	mg/L per period
Lower Confidence Limit of Slope, M1:		-0.000143	mg/L per period
Upper Confidence Limit of Slope, M2+1:		0.0000897	mg/L per period
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.0	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0000000120	mg/L per period
R-Squared error of fit:	0.0000000353	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0000118	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000608	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000883	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		0.124
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.00	STD per period	
R-Squared error of fit:	0.09		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.00	STD per period	
Lower Confidence Limit of Slope, M1:	0.00	STD per period	
Upper Confidence Limit of Slope, M2+1:	0.00	STD per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.87		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.475	mg/L per period
R-Squared error of fit:	0.409	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.620	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.898	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0478	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.36	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	00613
Location Class:		Parameter:	Nitrite nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	00618
Location Class:		Parameter:	Nitrate nitrogen, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000910	mg/L per period
R-Squared error of fit:	0.121	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000309	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00281	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00165	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.866	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	00941
Location Class:		Parameter:	Chloride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000256	mg/L per period	
R-Squared error of fit:	0.00214		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.0	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.00286	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00263	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:			-.143
Z test:			1.64
At the 95.0 % Confidence Level (two-tailed test):			None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	00946
Location Class:		Parameter:	Sulfate, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.249	mg/L per period
R-Squared error of fit:	0.360	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.179	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.669	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0383	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.86	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	Downward	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000361	mg/L per period	
R-Squared error of fit:	0.619		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000335	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.000104	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000624	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.86	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		Upward	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000000414	mg/L per period	
R-Squared error of fit:	0.0947		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000000362	mg/L per period	
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000176	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.20	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	0.000000414	mg/L per period	
R-Squared error of fit:	0.204		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000000637	mg/L per period	
Lower Confidence Limit of Slope, M1:	-.0000000904	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00000121	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		1.16	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01005
Location Class:		Parameter:	Barium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000171	mg/L per period
R-Squared error of fit:	0.392	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.0000165	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000371	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000204	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:		-1.61
Z test:		1.64
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):		-0.0000194	mg/L per period
R-Squared error of fit:		0.403	
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:		-0.0000163	mg/L per period
Lower Confidence Limit of Slope, M1:		-0.0000403	mg/L per period
Upper Confidence Limit of Slope, M2+1:		0.000000466	mg/L per period
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		-1.61	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01012
Location Class:		Parameter:	Beryllium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01020
Location Class:		Parameter:	Boron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.000453	mg/L per period	
R-Squared error of fit:	0.000799		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.0000973	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.00193	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00131	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:		0.0	
Z test:		1.64	
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.000174	mg/L per period	
R-Squared error of fit:	0.0116		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	-0.000328	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.00207	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.00143	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	-0.371		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):		None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01025
Location Class:		Parameter:	Cadmium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01027
Location Class:		Parameter:	Cadmium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01034
Location Class:		Parameter:	Chromium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01035
Location Class:		Parameter:	Cobalt, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000208	mg/L per period
R-Squared error of fit:	0.0783	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000227	mg/L per period
R-Squared error of fit:	0.0783	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01040
Location Class:		Parameter:	Copper, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line			
Slope (fitted to data):	-0.000667	mg/L per period	
R-Squared error of fit:	0.00193		
Sen's Non-parametric estimate of the slope (two-tailed test)			
Median Slope:	0.000218	mg/L per period	
Lower Confidence Limit of Slope, M1:	-0.00127	mg/L per period	
Upper Confidence Limit of Slope, M2+1:	0.000926	mg/L per period	
Non-parametric Mann-Kendall Test for Trend			
S Statistic:	0.371		
Z test:	1.64		
At the 95.0 % Confidence Level (two-tailed test):	None		

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01046
Location Class:		Parameter:	Iron, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01049
Location Class:		Parameter:	Lead, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01055
Location Class:		Parameter:	Manganese, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0000248	mg/L per period
R-Squared error of fit:	0.105	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0000208	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000661	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000880	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.866	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01059
Location Class:		Parameter:	Thallium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01065
Location Class:		Parameter:	Nickel, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01075
Location Class:		Parameter:	Silver, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01087
Location Class:		Parameter:	Vanadium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01090
Location Class:		Parameter:	Zinc, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):		None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000473	mg/L per period
R-Squared error of fit:	0.228	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01097
Location Class:		Parameter:	Antimony, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000552	mg/L per period
R-Squared error of fit:	0.228	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01145
Location Class:		Parameter:	Selenium, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01147
Location Class:		Parameter:	Selenium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2022 to 12/31/2023		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	71890
Location Class:		Parameter:	Mercury, dissolved
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	71900
Location Class:		Parameter:	Mercury, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2022 to 12/31/2023			

Trend Analysis

Trend of the least squares straight line	
Slope (fitted to data):	0.0 mg/L per period
R-Squared error of fit:	0.0
Sen's Non-parametric estimate of the slope (two-tailed test)	
Median Slope:	0.0 mg/L per period
Lower Confidence Limit of Slope, M1:	0.0 mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0 mg/L per period
Non-parametric Mann-Kendall Test for Trend	
S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

APPENDIX C
SITE INSPECTION REPORTS

Inspection Form for Closed Ponds at Ameren Facilities

Project Name: Quarterly Ash Pond Cap Inspection

Location: Meredosia Power Plant

System Description: Fly Ash Pond
Bottom Ash Embankment

Engineer/Inspectors: Lisa Meyer

Inspection Date: 03/07/2023

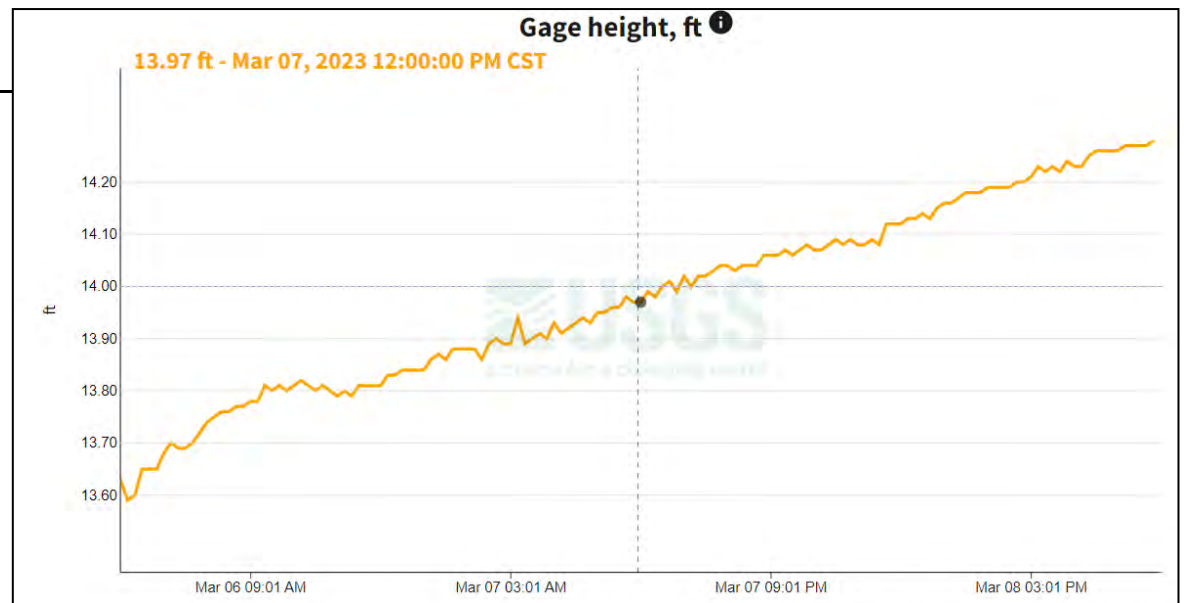
Temperature: 38 F

Weather: Sunny

River Level 431.97
gage at Meredosia 13.97

Gage 0' = 418.00' MSL
Bottom Ash Pond bottom
is at 430.00' MSL

Owner Representative: n/a



Overall System Rating: Acceptable

System Rating Codes

Acceptable System: Nearly all items or components are rated as GC or NE.

Minimally Acceptable System: One or more items are rated as MM or one or more items are rated as IM or EC and an engineering determination concludes that the IM or EC items would not prevent the system from performing as intended.

Unacceptable System: One or more items are rated as IM or EC and would prevent the system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years.

Condition Codes

EC = Emergency Condition. A serious dam safety condition exists that needs immediate action. Emergency measures implemented as instructed by Supervising Engineer, Dam Safety; i.e. pool draw down, work stoppage, or plant stoppage.

IM = Item needing Immediate Maintenance to restore or ensure its safety or integrity. Remediation should be completed within an appropriate timeframe as determined by the Supervising Engineer, Dam Safety.

MM = Item needing Minor Maintenance and/or repairs within the year. The safety or integrity of the item is not yet imperiled.

OB = Condition requires regular Observation to ensure that the condition does not become worse.

GC = Good Condition.

NE = No Evidence of a problem.

NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Fly Ash Pond Cap - ClosureTurf
 Quarterly Site Inspection Checksheet

Date	03/07/2023
Inspector	Lisa Meyer
Temperature	38 F
Weather	Sunny

	Item	Condition Code *	Comments
Closure Cap	Drainage Ditch/ArmorFill	GC	ArmorFill in good condition in ditches. No change in locations/quantity of puddles in ditches.
	Sand on Cap	GC	Sand is in good condition. No need to place additional sand or sweep existing sand.
	ClosureTurf	OB	About a 3 ft tear in the turf towards the cap peak out from outfall 6. Turf flap from rip completely covers HDPE liner. No damage or degradation evident in the HDPE liner. Monitor.
	Riprap Outlet Flumes	GC	Flumes are in good condiiton.
	Other	--	
Embankment	Riprap	GC	Riprap is in good condition.
	Vegetation in riprap	GC	No overgrowth of weeds or sapplings. Additional herbicide application occurred October 4, 2022.
	Vegetation at Toe	GC	Vegetation that re-emerged after flood-waters receded is not a problem.
	Debris/Logs	GC	Minimal debris on embankment and at toe of embankment.
	Erosion	GC	No erosion evident at toe of embankments.
	Other	--	

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.
MM = Item needing Minor Maintenance and/or repairs within the year.
QB = Condition requires regular observation to ensure that the condition does not become worse.
GC = Good Condition. Working properly.
NE = No Evidence of a problem.
NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Bottom Ash Embankment - ClosureTurf
 Quarterly Site Inspection Checksheet

Date	03/07/2023
Inspector	Lisa Meyer
Temperature	38 F
Weather	Sunny

	Item	Condition Code *	Comments
Roadway	Gravel Road	GC	Roadway gravel is compacted and smooth.
	Drainage	GC	No drainage problems at this time.
	Other	GC	No issues.
Embankment	Vegetation at Toe	GC	Vegetation at toe has re-emerged after flood-waters receded.
	ClosureTurf	GC	Turf is in good condition. Sand on slopes does not require sweeping.
	ArmorFill	GC	Polyurethane has been applied and sand is locked in-place. No disintegration of polyurethane material is evident at this time.
	Riprap at Toe	GC	Riprap at toe is in good condition. Weeds sprayed on Sept 23, 2022.
	Riprap Outlet Flumes	GC	Flumes are in good condition. Weeds sprayed on Sept 23, 2022
	Other	--	
Remaining Basin	Side Slopes	GC	Sedimentation logs are in good condition. Vegetation is established on the slopes.
	Bottom	GC	Vegetation is re-emerging after flooding. Some shallow ponding (<3" water) at various locations within the limits of the clean-closed bottom ash pond. Minimal debris (caused by flooding) along slopes of basin.
	Outlet Riprap	GC	Riprap is in good condtion. Weeds sprayed on Sept. 23, 2022.
	Toe Riprap	GC	Riprap in good condition. Weeds sprayed Sept 23, 2022.
	Other	--	

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.
MM = Item needing Minor Maintenance and/or repairs within the year.
QB = Condition requires regular observation to ensure that the condition does not become worse.
GC = Good Condition. Working properly.
NE = No Evidence of a problem.
NI = Not Inspected. Reason should be stated in comment

Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)



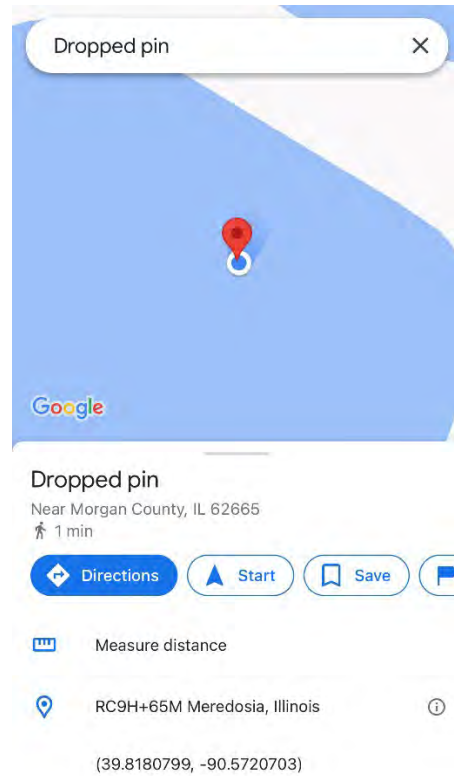
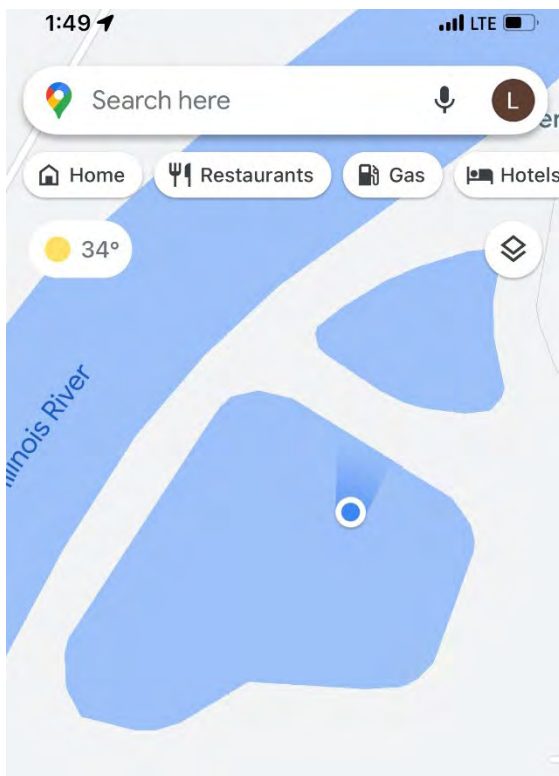
Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)



Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)



MONITOR – Fly Ash CAP – Turf Rip with approximate coordinates



Bottom Ash CAP

North Embankment



South embankment



River embankment



Letdown



Penetrations



Old East Pond

East embankment



West embankment



North embankment



South embankment



Inspection Form for Closed Ponds at Ameren Facilities

Project Name: Quarterly Ash Pond Cap Inspection

Inspection Date: 04/18/2023

Location: Meredosia Power Plant

Temperature: 59 F

Weather: Sunny

System Description: Fly Ash Pond
Bottom Ash Embankment

River Level 430.5
gage at Meredosia 12.5

Gage 0' = 418.00' MSL
Bottom Ash Pond bottom
is at 430.00' MSL

Engineer/Inspectors: Lisa Meyer

Owner Representative: n/a

Initial Closure Turf Installation: Sep-2018



Overall System Rating: Acceptable

System Rating Codes

Acceptable System: Nearly all items or components are rated as GC or NE.

Minimally Acceptable System: One or more items are rated as MM or one or more items are rated as IM or EC and an engineering determination concludes that the IM or EC items would not prevent the system from performing as intended.

Unacceptable System: One or more items are rated as IM or EC and would prevent the system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years.

Condition Codes

EC = Emergency Condition. A serious dam safety condition exists that needs immediate action. Emergency measures implemented as instructed by Supervising Engineer, Dam Safety; i.e. pool draw down, work stoppage, or plant stoppage.

IM = Item needing Immediate Maintenance to restore or ensure its safety or integrity. Remediation should be completed within an appropriate timeframe as determined by the Supervising Engineer, Dam Safety.

MM = Item needing Minor Maintenance and/or repairs within the year. The safety or integrity of the item is not yet imperiled.

OB = Condition requires regular Observation to ensure that the condition does not become worse.

GC = Good Condition.

NE = No Evidence of a problem.

NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Fly Ash Pond Cap - ClosureTurf
 Quarterly Site Inspection Checksheet

Date	04/18/2023
Inspector	Lisa Meyer
Temperature	59 F
Weather	Sunny

	Item	Condition Code *	Comments
Closure Cap	Drainage Ditch/ArmorFill	GC	ArmorFill in good condition in ditches. No change in locations/quantity of puddles in ditches.
	Sand on Cap	GC	Sand is in good condition. No need to place additional sand or sweep existing sand.
	ClosureTurf	OB	About a 3 ft tear in the turf towards the cap peak out from outfall 6. Turf flap from rip completely covers HDPE liner. No damage or degradation evident in the HDPE liner. Monitor.
	Riprap Outlet Flumes	GC	Flumes are in good condition.
	Other	--	General maintenance. On 4/18/23 watershedGeo applied DuraGuard to all ~36.5 acres over the course of 2 days. 35 gallons of DuraGuard and 2300 pounds of sand were applied.
Embankment	Riprap	GC	Riprap is in good condition.
	Vegetation in riprap	GC	No overgrowth of weeds or sapplings. Next herbicide application scheduled for mid-June.
	Vegetation at Toe	GC	Vegetation that re-emerged after flood-waters receded is not a problem.
	Debris/Logs	GC	Minimal debris on embankment and at toe of embankment.
	Erosion	GC	No erosion evident at toe of embankments.
	Other	--	

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.
MM = Item needing Minor Maintenance and/or repairs within the year.
QB = Condition requires regular observation to ensure that the condition does not become worse.
GC = Good Condition. Working properly.
NE = No Evidence of a problem.
NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Bottom Ash Embankment - ClosureTurf

Quarterly Site Inspection Checksheet

Date	04/18/2023
Inspector	Lisa Meyer
Temperature	59 F
Weather	Sunny

	Item	Condition Code *	Comments
Roadway	Gravel Road	GC	Roadway gravel is compacted and smooth.
	Drainage	GC	No drainage problems at this time.
	Other	GC	No issues.
Embankment	Vegetation at Toe	GC	Vegetation at toe has re-emerged after flood-waters receded.
	ClosureTurf	GC	Turf is in good condition. Sand on slopes does not require sweeping.
	ArmorFill	GC	Polyurethane has been applied and sand is locked in-place. No disintegration of polyurethane material is evident at this time.
	Riprap at Toe	GC	Riprap at toe is in good condition. Next herbicide application scheduled for mid-June.
	Riprap Outlet Flumes	GC	Flumes are in good condition. Next herbicide application scheduled for mid-June.
	Other	--	
Remaining Basin	Side Slopes	GC	Sedimentation logs are in good condition. Vegetation is established on the slopes.
	Bottom	GC	Vegetation is re-emerging after flooding. Some shallow ponding (<3" water) at various locations within the limits of the clean-closed bottom ash pond. Minimal debris (caused by flooding) along slopes of basin.
	Outlet Riprap	GC	Riprap is in good condition. Next herbicide application scheduled for mid-June.
	Toe Riprap	GC	Riprap in good condition. Next herbicide application scheduled for mid-June.
	Other	--	

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.
MM = Item needing Minor Maintenance and/or repairs within the year.
QB = Condition requires regular observation to ensure that the condition does not become worse.
GC = Good Condition. Working properly.
NE = No Evidence of a problem.
NI = Not Inspected. Reason should be stated in comment

Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)



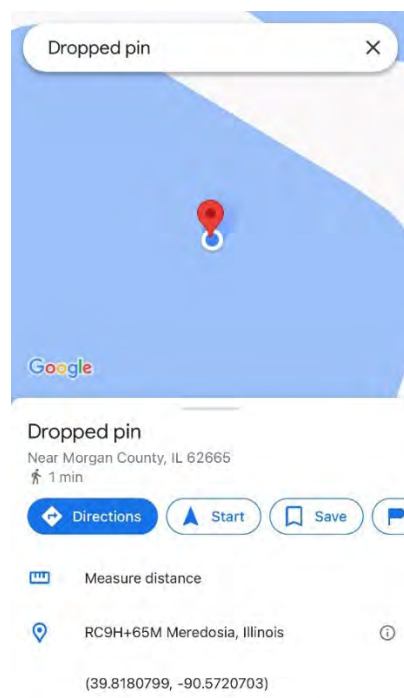
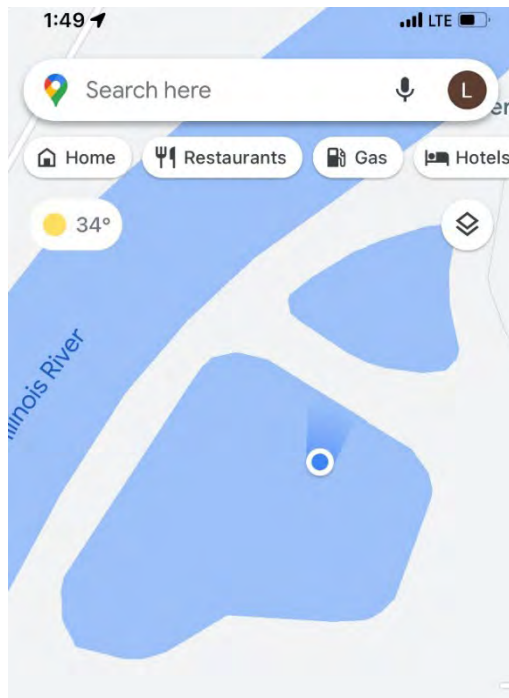
Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)



DuraGuard 5-Year Application on Fly Ash Pond Cap



MONITOR – Fly Ash Cap – Turf Rip with approximate coordinates.



Bottom Ash CAP

North Embankment



South embankment



River embankment



Letdown



Penetrations



Old East Pond

East embankment



West embankment



North embankment



South embankment



Inspection Form for Closed Ponds at Ameren Facilities

Project Name: Quarterly Ash Pond Cap Inspection

Inspection Date: 09/01/2023

Location: Meredosia Power Plant

Temperature: 75 F

Weather: Sunny

System Description: Fly Ash Pond
Bottom Ash Embankment

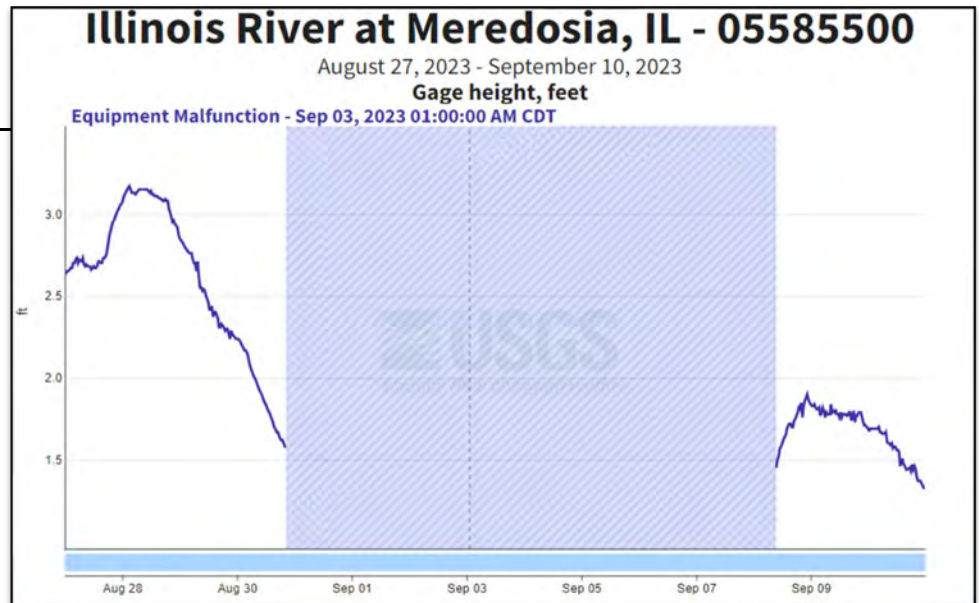
River Level 419.55
gage at Meredosia 1.55

Gage 0' = 418.00' MSL
Bottom Ash Pond bottom
is at 430.00' MSL

Engineer/Inspectors: Lisa Meyer

Owner Representative: n/a

Initial Closure Turf Installation: Sep-2018



Overall System Rating: Acceptable

System Rating Codes

Acceptable System: Nearly all items or components are rated as GC or NE.

Minimally Acceptable System: One or more items are rated as MM or one or more items are rated as IM or EC and an engineering determination concludes that the IM or EC items would not prevent the system from performing as intended.

Unacceptable System: One or more items are rated as IM or EC and would prevent the system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years.

Condition Codes

EC = Emergency Condition. A serious dam safety condition exists that needs immediate action. Emergency measures implemented as instructed by Supervising Engineer, Dam Safety; i.e. pool draw down, work stoppage, or plant stoppage.

IM = Item needing Immediate Maintenance to restore or ensure its safety or integrity. Remediation should be completed within an appropriate timeframe as determined by the Supervising Engineer, Dam Safety.

MM = Item needing Minor Maintenance and/or repairs within the year. The safety or integrity of the item is not yet imperiled.

OB = Condition requires regular Observation to ensure that the condition does not become worse.

GC = Good Condition.

NE = No Evidence of a problem.

NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Fly Ash Pond Cap - ClosureTurf
 Quarterly Site Inspection Checksheet

Date	09/01/2023
Inspector	Lisa Meyer
Temperature	75 F
Weather	Sunny

	Item	Condition Code *	Comments
Closure Cap	Drainage Ditch/ArmorFill	GC	ArmorFill in good condition in ditches. No change in locations/quantity of puddles in ditches.
	Sand on Cap	GC	Sand is in good condition. No need to place additional sand or sweep existing sand.
	ClosureTurf	OB	About a 3 ft tear in the turf towards the cap peak out from outfall 6. Turf flap from rip completely covers HDPE liner. No damage or degradation evident in the HDPE liner. Monitor.
	Riprap Outlet Flumes	GC	Flumes are in good condition.
	Other		
Embankment	Riprap	GC	Riprap is in good condition.
	Vegetation in riprap	GC	No overgrowth of weeds or sapplings. Second herbicide application occurred in Aug. 2023.
	Vegetation at Toe	GC	Vegetation that re-emerged after flood-waters receded is not a problem.
	Debris/Logs	GC	Minimal debris on embankment and at toe of embankment.
	Erosion	GC	No erosion evident at toe of embankments.
	Other	--	

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.
MM = Item needing Minor Maintenance and/or repairs within the year.
QB = Condition requires regular observation to ensure that the condition does not become worse.
GC = Good Condition. Working properly.
NE = No Evidence of a problem.
NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Bottom Ash Embankment - ClosureTurf

Quarterly Site Inspection Checksheet

Date	09/01/2023
Inspector	Lisa Meyer
Temperature	75 F
Weather	Sunny

	Item	Condition Code *	Comments
Roadway	Gravel Road	GC	Roadway gravel is compacted and smooth.
	Drainage	GC	No drainage problems at this time.
	Other	GC	No issues.
Embankment	Vegetation at Toe	GC	Vegetation at toe is minimal.
	ClosureTurf	GC	Turf is in good condition. Sand on slopes does not require sweeping.
	ArmorFill	GC	Polyurethane has been applied and sand is locked in-place. No disintegration of polyurethane material is evident at this time.
	Riprap at Toe	GC	Riprap at toe is in good condition. Second herbicide application occurred in Aug. 2023.
	Riprap Outlet Flumes	GC	Flumes are in good condition.
	Other	--	
Remaining Basin	Side Slopes	GC	Sedimentation logs are in good condition. Vegetation is established on the slopes.
	Bottom	GC	Vegetation at bottom is minimal. Some shallow ponding at various locations within the limits of the clean-closed bottom ash pond. Minimal debris (caused by flooding) along slopes of basin.
	Outlet Riprap	GC	Riprap is in good condition.
	Toe Riprap	GC	Riprap in good condition
	Other	--	

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.
MM = Item needing Minor Maintenance and/or repairs within the year.
QB = Condition requires regular observation to ensure that the condition does not become worse.
GC = Good Condition. Working properly.
NE = No Evidence of a problem.
NI = Not Inspected. Reason should be stated in comment

Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)



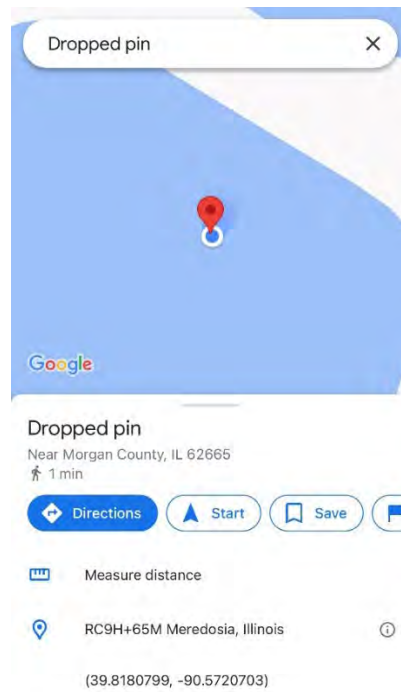
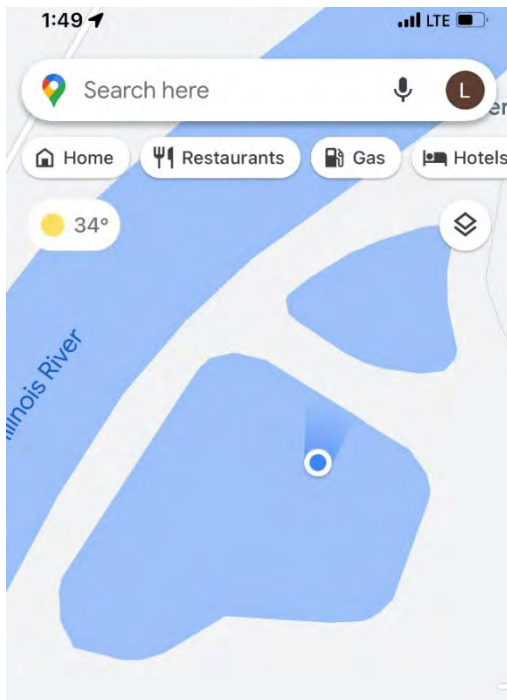
Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)



Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)



MONITOR – Fly Ash Cap – Turf Rip with approximate coordinates.



Bottom Ash CAP

North Embankment



South embankment



River embankment



Letdown



Penetrations



Old East Pond

East embankment



West embankment



North embankment



South embankment



Inspection Form for Closed Ponds at Ameren Facilities

Project Name: Quarterly Ash Pond Cap Inspection

Inspection Date: 12/20/2023

Location: Meredosia Power Plant

Temperature: 30 F

Weather: Sunny

System Description: Fly Ash Pond
Bottom Ash Embankment

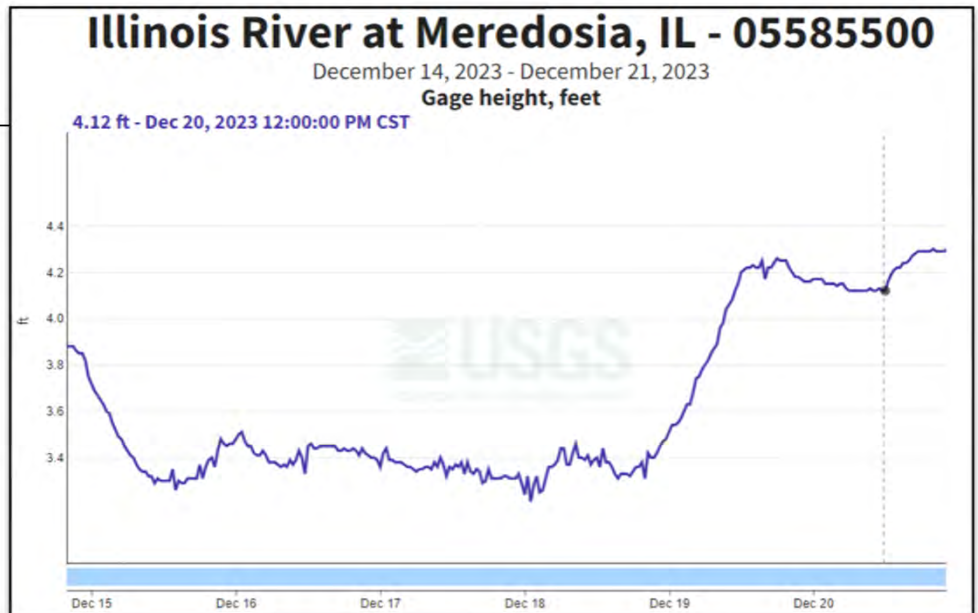
River Level 422.12
gage at Meredosia 4.12

Gage 0' = 418.00' MSL
Bottom Ash Pond bottom
is at 430.00' MSL

Engineer/Inspectors: Annie Muehlfarth

Owner Representative: n/a

Initial Closure Turf Installation: Sep-2018



Overall System Rating: Acceptable

System Rating Codes

Acceptable System: Nearly all items or components are rated as GC or NE.

Minimally Acceptable System: One or more items are rated as MM or one or more items are rated as IM or EC and an engineering determination concludes that the IM or EC items would not prevent the system from performing as intended.

Unacceptable System: One or more items are rated as IM or EC and would prevent the system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years.

Condition Codes

EC = Emergency Condition. A serious dam safety condition exists that needs immediate action. Emergency measures implemented as instructed by Supervising Engineer, Dam Safety; i.e. pool draw down, work stoppage, or plant stoppage.

IM = Item needing Immediate Maintenance to restore or ensure its safety or integrity. Remediation should be completed within an appropriate timeframe as determined by the Supervising Engineer, Dam Safety.

MM = Item needing Minor Maintenance and/or repairs within the year. The safety or integrity of the item is not yet imperiled.

OB = Condition requires regular Observation to ensure that the condition does not become worse.

GC = Good Condition.

NE = No Evidence of a problem.

NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Fly Ash Pond Cap - ClosureTurf
 Quarterly Site Inspection Checksheet

Date	12/20/2023
Inspector	Annie Muehlfarth
Temperature	30 F
Weather	Sunny

	Item	Condition Code *	Comments
Closure Cap	Drainage Ditch/ArmorFill	GC	ArmorFill in good condition in ditches. No change in locations/quantity of puddles in ditches.
	Sand on Cap	GC	Sand is in good condition. No need to place additional sand or sweep existing sand.
	ClosureTurf	GC	About a 3 ft tear in the turf towards the cap peak out from outfall 6. Turf flap from rip completely covers HDPE liner. This tear has been repaired.
	Riprap Outlet Flumes	GC	Flumes are in good condiiton.
	Other	--	
Embankment	Riprap	GC	Riprap is in good condition.
	Vegetation in riprap	GC	No overgrowth of weeds or sapplings. Second herbicide application occurred in Aug. 2023.
	Vegetation at Toe	GC	Vegetation is not a problem.
	Debris/Logs	GC	Minimal debris on embankment and at toe of embankment.
	Erosion	GC	No erosion evident at toe of embankments.
	Other	--	

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.
MM = Item needing Minor Maintenance and/or repairs within the year.
OB = Condition requires regular observation to ensure that the condition does not become worse.
GC = Good Condition. Working properly.
NE = No Evidence of a problem.
NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Bottom Ash Embankment - ClosureTurf
 Quarterly Site Inspection Checksheet

Date	12/20/2023
Inspector	Annie Muehlfarth
Temperature	30 F
Weather	Sunny

	Item	Condition Code *	Comments
Roadway	Gravel Road	GC	Roadway gravel is compacted and smooth.
	Drainage	GC	No drainage problems at this time.
	Other	GC	No issues.
Embankment	Vegetation at Toe	GC	Vegetation at toe is minimal.
	ClosureTurf	GC	Turf is in good condition. Sand on slopes does not require sweeping.
	ArmorFill	GC	Polyurethane has been applied and sand is locked in-place. No disintegration of polyurethane material is evident at this time.
	Riprap at Toe	GC	Riprap at toe is in good condition. Second herbicide application occurred in Aug. 2023.
	Riprap Outlet Flumes	GC	Flumes are in good condition.
	Other	--	
Remaining Basin	Side Slopes	GC	Sedimentation logs are in good condition. Vegetation is established on the slopes.
	Bottom	GC	Vegetation at bottom is minimal. Some shallow ponding at various locations within the limits of the clean-closed bottom ash pond. Minimal debris (caused by flooding) along slopes of basin.
	Outlet Riprap	GC	Riprap is in good condtion.
	Toe Riprap	GC	Riprap in good condition
	Other	--	

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.
MM = Item needing Minor Maintenance and/or repairs within the year.
OB = Condition requires regular observation to ensure that the condition does not become worse.
GC = Good Condition. Working properly.
NE = No Evidence of a problem.
NI = Not Inspected. Reason should be stated in comment

Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)



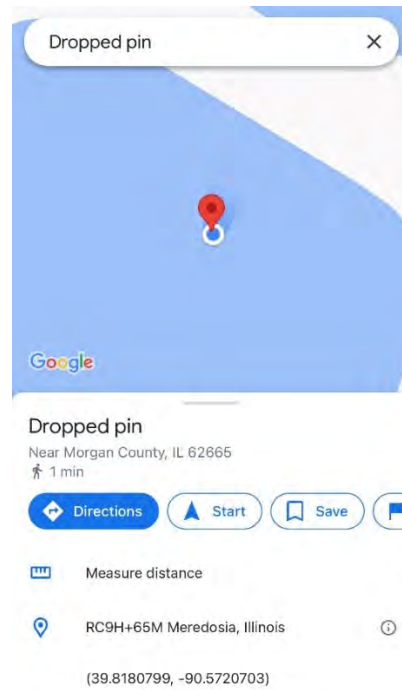
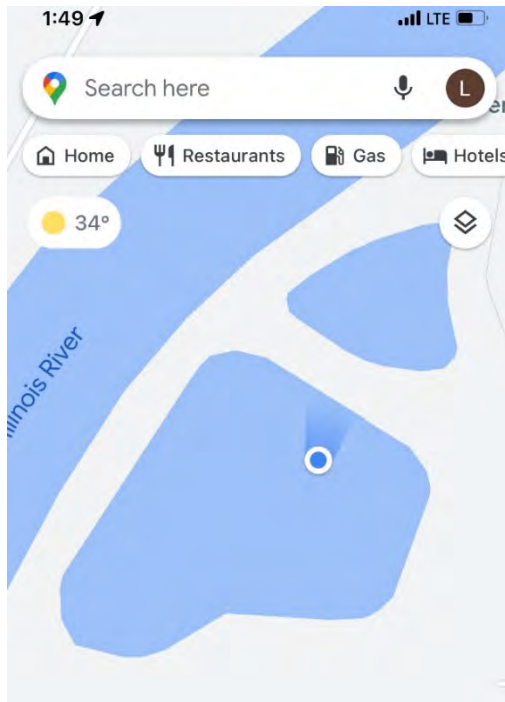
Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)



Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)



Fly Ash Cap – Repaired Turf Rip with approximate coordinates.



Bottom Ash CAP

North Embankment



South embankment



Southwest corner



Letdown



Old East Pond

East embankment



West embankment



North embankment



South embankment

