

2023 Annual Groundwater Monitoring Report

Grand River Dam Authority Landfill

Grand River Energy Center

Mayes County, Oklahoma

Solid Waste Permit No. 3549012

Submitted to:

Grand River Dam Authority

Mayes County, Oklahoma



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1.0 INTRODUCTION

This 2023 Annual Groundwater Monitoring and Corrective Measures Assessment addresses the Grand River Dam Authority (GRDA) Coal Combustion Residual (CCR) Landfill at the Grand River Energy Center (GREC), operated by the GRDA. This report was developed in accordance with the Oklahoma Administrative Code (OAC) Title 252, Chapter 517: Disposal of CCR from Electric Utilities Rule (Rule), effective September 15, 2018.

Consistent with applicable sections of OAC 252:517-9, this report documents the status of the groundwater monitoring and corrective action program, summarizes key actions completed during the previous year (2023), evaluates groundwater data collected during the previous year, and describes problems encountered and resolutions.

This Annual Report is being submitted to the Oklahoma Department of Environmental Quality (ODEQ) to satisfy the requirement under OAC 252:517-9-1(e) that the owner or operator of a CCR unit prepare an annual groundwater monitoring and corrective action report. This report will be placed in the GRDA Landfill operating record and on GRDA's publicly accessible CCR Website (<https://grda.com/resources/ccr-rule-compliance-data/>).

2.0 BACKGROUND

The GREC is an electric power generating facility located approximately three miles east of the City of Chouteau, in Mayes County, Oklahoma. The GREC houses two coal-fired boilers (Unit #1 and Unit #2) and one combined cycle natural gas turbine (Unit #3). Unit #1 was retired in December 2020. Unit #2 and Unit #3 are currently operational, but decommissioning of Unit #2 is planned in 2026. The GRDA Landfill is permitted by the ODEQ as a Non-Hazardous Industrial Waste (NHIW) Landfill that is allowed to accept fly ash, bottom ash, and spent powdered activated carbon used to control flue gas emissions generated at the GREC. The GRDA Landfill is situated south of the operational area within the GREC complex. The total landfill permit area consists of approximately 116 acres, of which only 47 acres have been utilized for CCR disposal (**Figure 1**). The landfill is underlain by alluvium deposits that consist of unconsolidated clay, silt, sand and gravel layers. The alluvium overlies lower permeability sandstone/limestone bedrock.

Sampling and analysis of groundwater at the GRDA Landfill is an on-going activity that has been conducted for at least 30 years. Detection monitoring events conducted in 2018 identified and verified statistically significant increases in concentrations (SSIs) in certain wells. In accordance with OAC 252:517-9-6, an Assessment Monitoring Plan was developed and first submitted to the ODEQ on March 29, 2019. The Revised Assessment Monitoring Plan was approved by the ODEQ on January 28, 2020.

The GRDA transitioned into assessment monitoring for the second 2019 semi-annual sampling event, and statistical analyses were performed on the entire data set comprising Appendix A and B constituents. In November 2021, molybdenum, an Appendix B Constituent, demonstrated an SSI and also exceeded the groundwater protection standard (GWPS) in MW93-2. Arsenic, mercury, and lithium concentrations were also greater than their respective maximum contaminant level (MCL) or GWPS in wells MW93-2, MW03-2, and MW93-3, respectively, but did not demonstrate SSIs.

Pursuant to the OAC Section 252:517-9-6, if Appendix B constituents are detected at an SSI and are above an MCL or GWPS, the owner must notify the ODEQ of the exceedances and submit a plan for site characterization in order to develop appropriate corrective action.

GRDA submitted a Proposed Site Characterization Study Plan and Schedule including a soil boring investigation, additional monitoring well installations, groundwater sampling and analyses activities, and aquifer testing for the Grand River Energy Center Coal Combustion Residuals Landfill on December 8, 2021. In a letter dated January 28, 2022, the ODEQ approved the December 8, 2021 Proposed Plan and Schedule for the Assessment of Corrective Measures (ACM) for the GRDA landfill in accordance with OAC 252:517-9-7(a).

In March 2022, fifteen (15) soil borings were advanced, and eight new monitoring wells (MW22-01 through MW22-08) were installed as part of the Site Characterization Study to collect additional lithologic and groundwater data. All landfill monitoring wells (MW93-1, MW93-2, MW93-3, MW03-1, MW03-2, and MW22-01 through MW22-08) were sampled as part of the semi-annual and annual monitoring in April 2022 and October 2022. MW22-01 and MW22-08 were sampled in May, June, July, August, and September to develop eight rounds of sampling data for statistical analysis. A Site Progress Report was completed on June 27, 2022 to present the early results of the Site Characterization Study. A response letter from ODEQ was received on August 25, 2022. The results of the Site Characterization plan were presented in a letter report on November 29, 2022.

This report summarizes the actions completed in 2023, 2023 groundwater monitoring activities, statistical analyses, and the progress of the ongoing ACM.

3.0 STATUS OF GROUNDWATER MONITORING AND CORRECTIVE ACTION PROGRAM

GRDA transitioned into assessment monitoring in 2019. Because groundwater concentrations of Appendix B constituents either demonstrated SSIs or were observed to be greater than MCLs or GWPSs in 2021, GRDA conducted a Site Characterization Study in 2022 to evaluate appropriate corrective measures. Results of the Site Characterization Study indicate an ACM was required to address potential releases from the CCR landfill. The assessment of corrective measures must:

- Evaluate the performance, reliability, potential impact and exposure risk of the remedy;

- Determine the time to begin and complete the remedy, and
- Ensure that institutional requirements including any permitting or health requirements are met.

The ACM is currently being conducted to identify a remedy or a combination of remedies that will appropriately address the landfill release, be protective of potential receptors, and fulfill regulatory requirements. The completed ACM report will be submitted to ODEQ in February 2024.

4.0 KEY ACTIONS COMPLETED IN 2023

The following summarizes the communications and key actions completed in 2023:

- A Site Characterization Study response letter from ODEQ was received on January 10, 2023 indicating that further ACM is required to address potential releases related to the CCR Landfill.
- On January 31, 2023, The Annual Groundwater Monitoring and Proposed Corrective Measures Assessment Plan Report was submitted to ODEQ. The report summarized statistical analyses of data collected from the new and existing monitoring wells and proposed conducting the ACM using groundwater flow and fate and transport modeling.
- The Semi-Annual Groundwater Monitoring event was conducted May 3-4, 2023. Monitoring wells MW93-1, MW93-2, MW93-3, MW03-1, MW03-2, MW22-01, MW22-02, MW22-03, MW22-04, MW22-05, MW22-06, MW22-07, and MW22-08 were sampled for Appendix A and B constituents.
- GRDA and ODEQ met to discuss a proposed path forward for completing the ACM on May 8, 2023. GRDA agreed to enter into a consent order to establish guidelines on submitting the ACM.
- A Consent Agreement was executed on August 25, 2023 to establish guidelines on the submission of the ACM. The Consent Agreement stipulates that the ACM be completed by February 21, 2024.
- A letter proposing the installation of six new monitoring wells was submitted to GRDA and ODEQ on July 14, 2023. The purpose of the proposed monitoring wells was to monitor groundwater on the downgradient portion of the Site until the ACM is completed. ODEQ approved the installation of the new monitoring wells in a letter dated August 15, 2023.
- Six monitoring wells, MW23-01, MW23-02, MW23-03, MW23-04, MW23-05, and MW23-06 were installed on September 7-8, 2023. A well installation report was submitted to ODEQ on November 8, 2023 (Figure 1).

- The six new monitoring wells along with all landfill monitoring wells (18 monitoring wells total) were sampled on September 12-13, 2023. Slug tests were also performed on the six new monitoring wells.
- The Annual Groundwater Monitoring Event was conducted from November 30, 2023 through December 4, 2023.

5.0 GROUNDWATER SAMPLING ACTIVITIES

In accordance with the Revised Assessment Monitoring Plan (approved January 28, 2020) and the approved Site Characterization Study Plan and Schedule for the ACM for the GRDA landfill, assessment groundwater monitoring events were conducted at the GRDA landfill on May 3-4, 2023, September 11-13, 2023, and November 30-December 4, 2023. For each event, groundwater sampling was conducted, if possible, on the five existing background and compliance wells (MW93-1, MW93-2, MW93-3, MW03-1, and MW03-2) and the eight newly installed monitor wells (MW22-01 through MW22-08). Groundwater samples were collected from the six new monitoring wells (MW23-01, MW23-02, MW23-03, MW23-04, MW23-05, and MW23-06) during the September and December 2023 sampling events.

The groundwater monitoring wells were uncapped and allowed to equilibrate for approximately 20 minutes. Static water levels and total monitoring well depths were then measured and recorded to the nearest one-hundredth of a foot using an electronic water level meter. The static water level survey data is presented in **Table 1**.

The monitoring wells were then purged and sampled using a peristaltic pump and new dedicated tubing for each monitoring well. Pump tubing was lowered to the approximate midpoint of the monitoring well screen. Purging and sampling procedures followed the United States Environmental Protection Agency (EPA) Region 1 Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells (2017). Groundwater samples were collected into laboratory supplied sample containers and immediately packed on ice in an insulated container. Groundwater samples for metals analysis were collected unfiltered and were analyzed for total recoverable metals. Groundwater did not recharge sufficiently during purging to collect samples from monitor well MW03-1 in September and December 2023.

Groundwater samples (except for pH) were then submitted to Pace Analytical of Mount Juliet, Tennessee for analysis. Groundwater pH was measured in the field within the 15-minute hold time and under ENERCON's ODEQ field laboratory accreditation. Quality Assurance/Quality Control (QA/QC) samples consisted of one duplicate per event.

Groundwater samples were analyzed for the following constituents:

- Appendix A: boron, calcium, chloride, fluoride, pH, sulfate, total dissolved solids, specific conductivity, total alkalinity, and sodium; and

- Appendix B: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, radium 226 and 228 combined.

A summary of groundwater analytical data for the May 2023, September 2023, and December 2023 assessment monitoring events are included in **Tables 2, 3, and 4**. Laboratory analytical reports are included in **Attachment A**.

6.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) REVIEW

Field equipment calibration and sampling records were reviewed to evaluate adherence to the purging and sampling procedures. Review of the field notes indicated field instruments were properly calibrated and wells were properly purged prior to sample collection. The chain of custody forms associated with the laboratory reports were reviewed for information regarding sample dates, sample identification, sample media, and date of submittal to the analytical laboratory. Review of the laboratory analytical report confirmed that the samples were received in good condition at the appropriate temperature, in the proper containers, with the appropriate preservatives, with custody seals intact, and within method-specified holding times. For the laboratory analytical report, the laboratory inserted arbitrary duplicate sample dates required by the laboratory data management system. The sample dates recorded in the laboratory analytical summary table reflect the actual duplicate (Dup) sample collection dates. Based on this review, samples were collected and delivered to the analytical laboratory according to environmental sampling protocols.

Duplicate samples were collected from MW22-05 in May 2023, from MW93-2 in September 2023, and from MW23-06 in December 2023. Duplicate samples were analyzed for Appendix A constituents. The relative percent difference (RPD) between the analytical results from samples MW93-2 and their respective duplicate samples were calculated. The RPDs ranged from less than 1 percent to 11 percent, well within the typical groundwater RPD review criteria of 25 percent, indicating acceptable field and laboratory precision.

Where applicable, the method detection limit (MDL) and reported detection limit (RDL) values for the groundwater samples were corrected for the dilution factor used in the analysis. The Method and Batch Quality Control analyses were within established criteria for the laboratory methods, except where qualifiers (e.g., J-flags) are presented, thus the analytical results are characterized as accurate and precise.

7.0 EVALUATION OF 2023 GROUNDWATER MONITORING DATA

Groundwater levels were collected in landfill monitoring wells in May 2023, and all landfill monitoring wells and new monitoring wells were gauged in September 2023 and December 2023. Groundwater levels were converted to elevation using surveyed top of casing elevations.

Groundwater elevations in each well indicate that a groundwater divide is present near the landfill with groundwater flowing radially towards the west, south, and east. Potentiometric surface maps from the May 2023, September 2023, and December 2023 sampling events are presented as **Figures 2, 3, and 4**. Groundwater elevations for each sampling event are presented in Table 1.

Groundwater velocity at GRDA can be calculated using the following:

$$V = \frac{K \cdot I}{n}$$

Where:

V = Groundwater seepage velocity (cm/s)

K = Hydraulic Conductivity (cm/s)

I = Hydraulic Gradient (cm/cm)

n = Effective Porosity (%)

Average and maximum seepage velocities were calculated using the average and maximum K values derived from the slug tests. The hydraulic gradient was calculated using the difference in water levels from upgradient monitor well MW93-1 and downgradient monitor well MW22-06 using a distance of 2,122 feet. Effective porosity was derived using the average specific yield calculated using slug test data. **Table 5** summarizes groundwater seepage velocity inputs and calculations.

The calculated groundwater seepage velocity at the Site ranges from an average of 33 feet per year up to a maximum of 137 feet per year.

8.0 STATISTICAL ANALYSIS OF ASSESSMENT MONITORING DATA AND DATA FROM NEW MONITOR WELLS

Statistical evaluation of the laboratory analytical results was performed in accordance with OAC 252:517-9-4(g)(3) and the Revised Assessment Monitoring Plan (approved January 28, 2020) utilizing Chemostat Statistical Analysis Software (Version 6.4.0). Statistical analyses were conducted using the Shapiro-Francia Test of Normality, Levene's equal variance test, and ANOVA (Analysis of Variance) to establish assumptions of normality and equal variance of the historical concentration data sets for each constituent. Analyses of the constituent data sets indicated that assumptions of normality and equal variance were not appropriate for all constituents, and non-parametric prediction intervals were used for inter-well and intra-well comparisons.

Inter-well tests assume that concentrations observed in background wells are not impacted and represent the groundwater quality of groundwater entering the area under the landfill. Background concentrations are established by pooling a statistically significant number of historical data points from background wells to establish a maximum background concentration for each constituent

analyzed, and an inter-well exceedance occurs if the concentration in a compliance well exceeds the established background concentration). Intra-well comparisons are also completed that compare recent data from a monitoring well to a pool of historical observations from the same well. Inter-well analyses were conducted to compare constituent concentrations in downgradient compliance wells (MW22-02, MW22-03, MW22-04, MW22-05, MW22-06, MW22-07, MW22-08, MW93-2, MW93-3, MW03-1, and MW03-2) to the concentrations observed in two upgradient background wells (MW22-01 and MW93-1). For some constituents, MW22-01 was singularly used as the background well where elevated historical detection limits (prior to 2019) resulted in higher background concentrations that could potentially result in a false negative. Groundwater data from the new monitoring wells (MW23-01 through MW23-06) were also included in the inter-well analyses. Intra-well analyses will be completed on MW23-01 through MW23-06 after eight rounds of groundwater monitoring are completed.

Groundwater concentrations are also compared to the GWPS and/or the EPA national drinking water MCLs. Some GWPS were developed using health-based GWPS specific to CCR landfills amended by Oklahoma in 2021. If a constituent does not have an MCL/GWPS or if the background concentration is greater than the MCL, then the statistical background concentration is used as the GWPS. A summary of groundwater monitoring results, background concentrations, MCL/GWPS, and results of the statistical analysis for the Semi-Annual and Annual Groundwater Monitoring Events are included in **Tables 6 and 7**. A copy of the statistical output is included in **Attachment C**.

8.1 Statistical Analysis of the May 2023 Semi-Annual Groundwater Monitoring Data

Statistical Analysis of the May 2023 indicates the following:

- Inter-well exceedances (relative to background) were observed for all Appendix A constituents except alkalinity and calcium. Inter-well exceedances for Appendix B constituents were observed for arsenic, barium, cobalt, fluoride, lithium, mercury, molybdenum, and selenium.
- The only statistically significant increase in concentration (both an inter-well and intra-well exceedance) for any Appendix A constituent was for specific conductance.
- Statistically significant increases in concentration were observed for Appendix B constituents cobalt (MW22-03) and mercury (MW93-3).
- Concentrations of arsenic (MW93-2), cobalt (MW22-03), lithium (MW22-03, MW22-08, MW93-3), mercury (MW03-2), molybdenum (MW22-02, MW93-2), and selenium (MW22-02) were greater than the GWPS/MCL.
- Total dissolved solids measured in MW22-03 during the May 2023 Semi-Annual Groundwater Monitoring event were historically higher than what has been observed in that well. The statistically significant increase in concentration in cobalt and historically

high concentration of lithium observed in that well appear to correlate with the high total dissolved solids.

8.2 Statistical Analysis of the December 2023 Annual Groundwater Monitoring Data

Statistical Analysis of the December 2023 indicates the following:

- Inter-well exceedances (relative to background) were observed for all Appendix A constituents except alkalinity and calcium. Inter-well exceedances for Appendix B constituents were observed for arsenic, barium, fluoride, lithium, mercury, molybdenum, and selenium.
- There were no statistically significant increases in concentration (both an inter-well and intra-well exceedance) for any Appendix A constituent.
- Lithium demonstrated a statistically significant increase in concentration in MW22-08.
- Concentrations of arsenic (MW93-2), lithium (MW22-03, MW22-08, MW93-3, MW23-05), molybdenum (MW93-2), and selenium (MW22-02) were greater than the GWPS/MCL.
- Molybdenum concentrations decreased below the GWPS in MW22-02.
- Cobalt and lithium levels measured in May 2023 appear to have been elevated due to the presence high levels of total dissolved solids. Total dissolved solid levels measured in groundwater samples collected in December 2023 from MW22-03 were less than half of what was measured in May 2023. Cobalt concentrations in MW22-03 measured in December 2023 decreased to below the GWPS indicating that cobalt may not be a constituent of concern, and lithium concentrations decreased by more than half in December 2023 compared to May 2023.

9.0 PROBLEMS ENCOUNTERED AND RESOLUTIONS

The results of the 2022 Assessment Monitoring and the results of the Site Characterization Study indicate that groundwater downgradient of the GRDA landfill may be impacted by a potential release of lithium, molybdenum, and selenium. Pursuant to the OAC Section 252:517-9-7(c), upon detection of a release from the landfill (SSI and GWPS/MCL exceedance) further assessment of corrective measures is required. The assessment of corrective measures must:

- Evaluate the performance, reliability, potential impact and exposure risk of the remedy;
- Determine the time to begin and complete the remedy; and
- Ensure that institutional requirements including any permitting or health requirements are met.

An ACM is currently underway to evaluate appropriate remedies to address potential releases from the landfill. A site-specific, numerical groundwater and constituent fate/transport model is being used to simulate the migration of landfill constituents of concern in the alluvial aquifer to facilitate the ACM. The groundwater model will be used to identify a remedy or a combination of remedies that will appropriately address the landfill release, be protective of potential receptors, and fulfill regulatory requirements. The ACM will be submitted to ODEQ in February 2024.

Groundwater modeling efforts are being completed using Groundwater Modeling Software (GMS) and consist of a three-layer groundwater flow model. Groundwater simulations have been completed using the widely applied MODFLOW code and constituent transport of constituents of concern in groundwater is simulated using MT3DMS. The constituent transport portion of the modeling effort will be completed using a partition coefficient (K_d) approach. The groundwater flow is currently calibrated to September 2023 site conditions using data from all site monitoring wells including new wells MW23-01 through MW23-06. The calibrated flow model is the basis of the constituent transport simulations. Simulated output is currently being used to evaluate the performance, reliability, potential impact and exposure risk of the potential corrective remedies.

Potential groundwater remedies that are being modeled include but are not limited to:

- The containment of impacted groundwater using groundwater extraction,
- Leachate collection trenches,
- Pond closure,
- Natural attenuation of landfill constituents with enhanced monitoring utilizing background, compliance, and sentinel monitoring points, and
- Source control to prevent the infiltration of water through the landfill.
- GRDA and ODEQ met to discuss a proposed path forward for completing the ACM on May 8, 2023. GRDA agreed to enter into a consent order to establish guidelines on submitting the ACM.

Because the regulatory timeframe to complete the Assessment of Corrective Measures is 90 days, GRDA entered into a Consent Agreement that was executed on August 25, 2023 to extend the 90-day evaluation period to 180 days. The Consent Agreement stipulates that the ACM be completed by February 21, 2024.

In September 2023, GRDA installed six additional monitoring wells on the perimeter of the property to monitor any potential downgradient movement of the identified landfill impacts in groundwater while the ACM is completed. A letter proposing the installation of six new monitoring wells was submitted to GRDA and ODEQ on July 14, 2023. ODEQ approved the installation of six new monitoring wells in a letter dated August 15, 2023. Six monitoring wells, MW23-01, MW23-02, MW23-03, MW23-04, MW23-05, and MW23-06, were installed on September 7-8, 2023. A well installation report was submitted to ODEQ on November 8, 2023. All landfill

monitoring wells, including the new monitoring wells, were sampled in September and December 2023. No constituents of concern were detected in groundwater samples collected from the new wells with the exception of a low-level exceedance of lithium in MW23-05. Lithium concentrations in MW23-05 decreased from September to December, and the exceedance is 0.004 mg/L greater than the lithium groundwater standard of 0.04 mg/L and 0.007 mg/L greater than the background concentration of 0.037. Monitoring well MW23-05 is located in close proximity and downgradient of the ponds, and groundwater modeling indicates that there may be groundwater interactions associated with the ponds. GRDA proposes to sample the perimeter wells on a quarterly basis until corrective measures are implemented.

The next Semi-Annual and Annual groundwater monitoring events are planned for May and November 2024.

10.0 REFERENCES

EPA, 2017. Region 1 Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells. Revision 4. September 19, 2017.

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ENERCON, 2022. Site Characterization Study Report, Grand River Dam Authority Landfill. Mayes County, Permit Number 3549012. Dated November 29, 2022.

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Tables

Table 1

Static Water Level Survey Data - 2023

Grand River Dam Authority Landfill

Grand River Energy Center - Mayes County, Oklahoma

Sample Location	TOC Elevation (ft. AMSL)	5/3/2023		9/13/2023		11/30/2023	
		Depth to Water (ft. BTOC)	GW Elevation (ft. AMSL)	Depth to Water (ft. BTOC)	GW Elevation (ft. AMSL)	Depth to Water (ft. BTOC)	GW Elevation (ft. AMSL)
MW93-1	620.57	10.77	609.80	10.72	609.85	10.66	609.91
MW 93-02	608.31	7.68	600.63	7.88	600.43	8.01	600.3
MW93-03	608.74	14.56	594.18	16.09	592.65	15.09	593.65
MW03-01	604.97	8.61	596.36	Dry	Dry	Dry	Dry
MW03-02	607.92	14.53	593.39	16.23	591.69	16.16	591.76
MW22-01	613.72	16.52	597.20	18.86	594.86	18.6	595.12
MW22-02	609.94	12.98	596.96	14.56	595.38	13.61	596.33
MW22-03	601.37	6.64	594.73	6.83	594.54	6.6	594.77
MW22-04	609.9	14.25	595.65	16.42	593.48	15.12	594.78
MW22-05	602.23	8.46	593.77	10.25	591.98	10.14	592.09
MW22-06	607.76	21.81	585.95	23.08	584.68	22.87	584.89
MW22-07	603.37	19.2	584.17	19.46	583.91	19.5	583.87
MW22-08	600.09	8.21	591.88	9.02	591.07	8.07	592.02
MW23-01	611.487	NS	NS	19.99	591.50	19.97	591.517
MW23-02	602.641	NS	NS	17.81	584.83	18.32	584.321
MW23-03	604.685	NS	NS	11.20	593.49	10.89	593.795
MW23-04	610.359	NS	NS	16.51	593.85	17.12	593.239
MW23-05	610.497	NS	NS	16.52	593.98	17.69	592.807
MW23-06	598.777	NS	NS	9.64	589.14	9.51	589.267

AMSL - above mean sea level

BTOC - below top of casing

ft - feet

NS - Not Sampled

Table 2
 Summary of Semi-Annual Groundwater Monitoring Results - May 3-4, 2023
 Grand River Dam Authority Landfill
 Grand River Energy Center - Mayes County, Oklahoma

Appendix A or B	Analyte	Units	Background	GWPS/MCL	MW22-01	MW93-1	MW22-02	MW22-03	MW22-04	MW22-05
					05/03/2023	05/04/2023	05/04/2023	05/04/2023	05/04/2023	05/03/2023
					Result	Result	Result	Result	Result	Result
A	Alkalinity	mg/L	637	NA	517	374	183	289	200	294
A	Boron	mg/L	0.499	NA	0.154 J	0.291	2.84	0.11 J	0.0623 J	<0.200
A	Calcium	mg/L	670	NA	266	213	457	246 J5 O1	90.2	202
A	Chloride	mg/L	63	NA	9.35	10.3	234	1650	18.4	1040
A	Dissolved Solids	mg/L	1230	NA	1010	968	6900	3380	608	2320
A	pH	su	7.20	NA	6.96	6.85	7.12	7.19	6.41	6.79
A	Sodium	mg/L	130	NA	23.5	104	1770	825 O1 V	98.6	434
A	Specific Conductance	umhos/cm	1888	NA	1440	1400	8520	5910	946	3860
A	Sulfate	mg/L	880	NA	341	438	4280	116	246	86
A,B	Fluoride	mg/L	0.245	4.0	0.164	0.239	<1.50	<0.750	0.14 J	0.133 J
B	Antimony	mg/L	0.005***	0.01	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B	Arsenic	mg/L	0.0109	0.01	0.00033 J	0.00027 J	0.00249	0.00235	0.000395 J	<0.00100
B	Barium	mg/L	0.0621	2.0	0.0363	0.0225	0.0667	0.231	0.0426	0.307
B	Beryllium	mg/L	0.005***	0.004	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
B	Cadmium	mg/L	0.00125	0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.000194 J
B	Chromium	mg/L	0.02	0.1	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
B	Cobalt	mg/L	0.00738***	0.006	0.00293	<0.00200	0.000434 J	0.00987	<0.00200	<0.00200
B	Lead	mg/L	0.005	0.015	<0.00200	<0.00200	<0.00200	0.000561 J	<0.00200	<0.00200
B	Lithium	mg/L	0.0370	0.04	0.00691 J	<0.0150	0.0202	0.247	0.00857 J	0.0106 J
B	Mercury	mg/L	0.0002	0.002	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
B	Molybdenum	mg/L	0.005***	0.1	<0.00500	0.00107 B J	0.573	0.00103 B J	0.00186 B J	<0.00500
B	Selenium	mg/L	0.002***	0.05	<0.00200	<0.00200	0.0511	<0.00200	<0.00200	<0.00200
B	Thallium	mg/L	0.001***	0.002	<0.00100	<0.00100	0.000413 J	<0.00100	<0.00100	<0.00100
B	Radium Combined	pCi/L	3.838	5	1.24	0.336	0.584	2.72 0	0.0408	0.995

***Due to historical elevated detection limits in MW93-1, background levels are derived from MW22-01.

Constituents that exceed the GWPS/MCL are in bold.

Constituents that exceed the Background Concentration derived from MW93-1/MW22-01 are in gray.

NA - Not Applicable

B: The same analyte is found in the associated blank.

J: The identification of the analyte is acceptable; the reported value is an estimate.

J3: The associated batch QC was outside the established quality control range for precision.

J5: The sample matrix interfered with the ability to make any accurate determination; spike value is high

O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

V: The sample concentration is too high to evaluate accurate spike recoveries.

Table 2
 Summary of Semi-Annual Groundwater Monitoring Results - May 3-4, 2023
 Grand River Dam Authority Landfill
 Grand River Energy Center - Mayes County, Oklahoma

Appendix A or B	Analyte	Units	Background	GWPS/MCL	MW22-05 DUP	MW22-06	MW22-07	MW22-08	MW93-2	MW93-3
					05/03/2023	05/03/2023	05/04/2023	05/03/2023	05/04/2023	05/03/2023
					Result	Result	Result	Result	Result	Result
A	Alkalinity	mg/L	637	NA	311	273	282	415	268	585
A	Boron	mg/L	0.499	NA	<0.200	<0.200	0.0888 J	0.174 J	1.68	0.0751 J
A	Calcium	mg/L	670	NA	222	221	70.4	65.5	196	70.8
A	Chloride	mg/L	63	NA	972	161	4.64	207	1410	202
A	Dissolved Solids	mg/L	1230	NA	2310	1020	459 J3	1090	9020	1150
A	pH	su	7.20	NA	6.79	6.92	6.87	7.21	9.16	6.65
A	Sodium	mg/L	130	NA	478	64.8	86.5	308	2680	326
A	Specific Conductance	umhos/cm	1888	NA	3780	1450	761	1850	12500	1990
A	Sulfate	mg/L	880	NA	84	297	131	316	4180	176
A,B	Fluoride	mg/L	0.245	4.0	<0.750	0.0844 J	0.253	0.551 J	0.878 J	0.325 J
B	Antimony	mg/L	0.005***	0.01	NA	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B	Arsenic	mg/L	0.0109	0.01	NA	0.000455 J	0.000508 J	0.000393 J	0.0244	0.000506 J
B	Barium	mg/L	0.0621	2.0	NA	0.0727	0.106	0.0552	0.117	0.0572
B	Beryllium	mg/L	0.005***	0.004	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
B	Cadmium	mg/L	0.00125	0.00500	NA	0.000338 J	<0.00100	<0.00100	<0.00100	<0.00100
B	Chromium	mg/L	0.02	0.1	NA	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
B	Cobalt	mg/L	0.00738***	0.006	NA	<0.00200	<0.00200	0.000183 J	0.000234 J	<0.00200
B	Lead	mg/L	0.005	0.015	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
B	Lithium	mg/L	0.0370	0.04	NA	0.00809 J	<0.0150	0.0869	0.00993 J	0.125
B	Mercury	mg/L	0.0002	0.002	NA	<0.000200	<0.000200	<0.000200	<0.000200	0.00165
B	Molybdenum	mg/L	0.005***	0.1	NA	<0.00500	<0.00500	<0.00500	0.764	<0.00500
B	Selenium	mg/L	0.002***	0.05	NA	0.0018 J	0.00266	<0.00200	0.0011 J	<0.00200
B	Thallium	mg/L	0.001***	0.002	NA	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
B	Radium Combined	pCi/L	3.838	5	NA	0.9761	0.411	0.788	2.289 0	0.146

***Due to historical elevated detection limits in MW93-1, background levels are derived from MW22-01.

Constituents that exceed the GWPS/MCL are in bold.

Constituents that exceed the Background Concentration derived from MW93-1/MW22-01 are in gray.

NA - Not Applicable

B: The same analyte is found in the associated blank.

J: The identification of the analyte is acceptable; the reported value is an estimate.

J3: The associated batch QC was outside the established quality control range for precision.

J5: The sample matrix interfered with the ability to make any accurate determination; spike value is high

O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

V: The sample concentration is too high to evaluate accurate spike recoveries.

Table 2
 Summary of Semi-Annual Groundwater Monitoring Results - May 3-4, 2023
 Grand River Dam Authority Landfill
 Grand River Energy Center - Mayes County, Oklahoma

Appendix A or B	Analyte	Units	Background	GWPS/MCL	MW03-01	MW03-2
					05/03/2023	05/03/2023
					Result	Result
A	Alkalinity	mg/L	637	NA	77.6	215
A	Boron	mg/L	0.499	NA	<0.200	<0.200
A	Calcium	mg/L	670	NA	20.5	256
A	Chloride	mg/L	63	NA	1.65	389
A	Dissolved Solids	mg/L	1230	NA	101	1550
A	pH	su	7.20	NA	6.71	6.6
A	Sodium	mg/L	130	NA	12.8	153
A	Specific Conductance	umhos/cm	1888	NA	178	2220
A	Sulfate	mg/L	880	NA	9.79	371
A,B	Fluoride	mg/L	0.245	4.0	0.0937 J	0.0814 J
B	Antimony	mg/L	0.005***	0.01	<0.00500	<0.00500
B	Arsenic	mg/L	0.0109	0.01	0.000483 J	<0.00100
B	Barium	mg/L	0.0621	2.0	0.0403	0.0291
B	Beryllium	mg/L	0.005***	0.004	<0.00100	<0.00100
B	Cadmium	mg/L	0.00125	0.00500	<0.00100	<0.00100
B	Chromium	mg/L	0.02	0.1	<0.0200	<0.0200
B	Cobalt	mg/L	0.00738***	0.006	<0.00200	<0.00200
B	Lead	mg/L	0.005	0.015	<0.00200	<0.00200
B	Lithium	mg/L	0.0370	0.04	<0.0150	0.011 J
B	Mercury	mg/L	0.0002	0.002	<0.000200	0.00212
B	Molybdenum	mg/L	0.005***	0.1	0.000984 J	<0.00500
B	Selenium	mg/L	0.002***	0.05	<0.00200	<0.00200
B	Thallium	mg/L	0.001***	0.002	<0.00100	<0.00100
B	Radium Combined	pCi/L	3.838	5	0.0304	0.0482

***Due to historical elevated detection limits in MW93-1, background levels are derived from MW22-01.

Constituents that exceed the GWPS/MCL are in bold.

Constituents that exceed the Background Concentration derived from MW93-1/MW22-01 are in gray.

NA - Not Applicable

B: The same analyte is found in the associated blank.

J: The identification of the analyte is acceptable; the reported value is an estimate.

J3: The associated batch QC was outside the established quality control range for precision.

J5: The sample matrix interfered with the ability to make any accurate determination; spike value is high

O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

V: The sample concentration is too high to evaluate accurate spike recoveries.

Table 3
 Summary of Semi-Annual Groundwater Monitoring Results - September 11-13, 2023
 Grand River Dam Authority Landfill
 Grand River Energy Center - Mayes County, Oklahoma

Appendix A or B	Analyte	Units	Background	GWPS/MCL	MW22-01	MW93-1	MW22-02	MW22-03	MW22-04	MW22-05	MW22-06
					9/11/2023	9/11/2023	9/12/2023	9/12/2023	9/12/2023	9/11/2023	9/11/2023
					Result	Result	Result	Result	Result	Result	Result
A	Alkalinity	mg/L	637	NA	515	387	423	258	144	395	288
A	Boron	mg/L	0.499	NA	0.121 J	0.356	3.12	0.175 J	0.045 J	<0.200	<0.200
A	Calcium	mg/L	670	NA	286	217	396	128	79.3	228	203
A	Chloride	mg/L	63	NA	10.7	14	271	808	31.6	986	141
A	Dissolved Solids	mg/L	1230	NA	1000	1010	3980	1440	508	2040	880
A	pH	su	7.20	NA	6.52	6.68	6.85	6.71	6.31	6.8	6.77
A	Sodium	mg/L	130	NA	26.6	97.4	1580	478	81	548	64.2
A	Specific Conductance	umhos/cm	1888	NA	1470	1480	7690	3500	831	4000	1420
A	Sulfate	mg/L	880	NA	305	512	3350	196	201	123	237
A,B	Fluoride	mg/L	0.245	4.0	0.179	0.145 J	<1.50	<0.150	0.106 J	0.152	0.0946 J
B	Antimony	mg/L	0.005***	0.01	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B	Arsenic	mg/L	0.0109	0.01	0.000374 J	0.000317 J	0.00204	0.00942	0.000643 J	0.000229 J	0.000416 J
B	Barium	mg/L	0.0621	2.0	0.0405	0.0184	0.0482	0.164	0.0466	0.286	0.0781
B	Beryllium	mg/L	0.005***	0.004	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
B	Cadmium	mg/L	0.00125	0.00500	0.000204 J	0.000573 J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
B	Chromium	mg/L	0.02	0.1	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
B	Cobalt	mg/L	0.00738***	0.006	0.00331	0.000171 J	0.000436 J	0.00649	0.000177 J	<0.00200	0.000161 J
B	Lead	mg/L	0.005	0.015	<0.00200	0.00101 B J	<0.00200	<0.00200	<0.00200	0.000713 B J	<0.00200
B	Lithium	mg/L	0.0370	0.04	0.00987 J	0.00834 J	0.0266	0.113	0.0114 J	0.0145 J	0.0114 J
B	Mercury	mg/L	0.0002	0.002	<0.000200	<0.0002 J3 J6 O1	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
B	Molybdenum	mg/L	0.005***	0.1	<0.00500	0.000948 J	0.321	0.00176 J	<0.00500	<0.00500	<0.00500
B	Selenium	mg/L	0.002***	0.05	<0.00200	<0.00200	0.0544	<0.00200	<0.00200	<0.00200	<0.00200
B	Thallium	mg/L	0.001***	0.002	<0.00100	<0.00100	0.000521 J	<0.00100	<0.00100	<0.00100	<0.00100
B	Radium Combined	pCi/L	3.838	5	0.957	0.564 J	0.266	2.079	1.027 J	2.412	0.767

***Due to historical elevated detection limits in MW93-1, background levels are derived from MW22-01.
 Constituents that exceed the GWPS/MCL are in bold.
 Constituents that exceed the Background Concentration derived from MW93-1/MW22-01 are in gray.
 NA - Not Applicable
 B: The same analyte is found in the associated blank.
 J: The identification of the analyte is acceptable; the reported value is an estimate.
 J3: The associated batch QC was outside the established quality control range for precision.
 J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low
 O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
 P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Table 3
 Summary of Semi-Annual Groundwater Monitoring Results - September 11-13, 2023
 Grand River Dam Authority Landfill
 Grand River Energy Center - Mayes County, Oklahoma

Appendix A or B	Analyte	Units	Background	GWPS/MCL	MW22-07	MW22-08	MW93-2	MW93-2DUP	MW93-3	MW03-01	MW03-2
					9/12/2023	9/12/2023	9/12/2023	9/12/2023	9/12/2023	9/13/2023	9/11/2023
					Result	Result	Result	Result	Result	Result	Result
A	Alkalinity	mg/L	637	NA	306	404	83	84.4	598	NS	221
A	Boron	mg/L	0.499	NA	0.0829 J	0.2 J	1.59	1.78	0.0803 J	<0.200	<0.200
A	Calcium	mg/L	670	NA	143	69.6	226	239	75.8	70.6	246
A	Chloride	mg/L	63	NA	13.5	212	1600	1550	240	NS	320
A	Dissolved Solids	mg/L	1230	NA	716	1060	8100	7180	1180	340	1320
A	pH	su	7.20	NA	6.73	7.14	8.77	8.77	6.63	7.31	6.6
A	Sodium	mg/L	130	NA	117	337	2810	2710	369	18	165
A	Specific Conductance	umhos/cm	1888	NA	1150	1930	14200	14100	2100	534	1990
A	Sulfate	mg/L	880	NA	285	266	5270	5180	175	NS	325
A,B	Fluoride	mg/L	0.245	4.0	0.124 J	0.19	0.676 J	0.762 J	0.211	NS	0.0895 J
B	Antimony	mg/L	0.005***	0.01	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
B	Arsenic	mg/L	0.0109	0.01	0.000242 J	0.000529 J	0.0433	NA	0.000515 J	0.0032	<0.00100
B	Barium	mg/L	0.0621	2.0	0.052	0.056	0.128	NA	0.0589	0.106	0.0285
B	Beryllium	mg/L	0.005***	0.004	<0.00100	<0.00100	<0.00100	NA	<0.00100	0.000441 J	<0.00100
B	Cadmium	mg/L	0.00125	0.00500	<0.00100	<0.00100	0.000164 J	NA	<0.00100	0.000576 J	<0.00100
B	Chromium	mg/L	0.02	0.1	<0.0200	<0.0200	<0.0200	NA	<0.0200	0.00656 J	<0.0200
B	Cobalt	mg/L	0.00738***	0.006	<0.00200	0.00031 J	0.00018 J	NA	0.000152 J	0.00249	<0.00200
B	Lead	mg/L	0.005	0.015	0.00124 B J	0.000568 B J	<0.00200	NA	<0.00200	0.00462 B	0.00124 B J
B	Lithium	mg/L	0.0370	0.04	0.00983 J	0.0954	0.0184	NA	0.127	<0.0150	0.013 J
B	Mercury	mg/L	0.0002	0.002	<0.000200	<0.000200	<0.000200	NA	0.000831	<0.000200	0.00114
B	Molybdenum	mg/L	0.005***	0.1	<0.00500	<0.00500	1.75	NA	<0.00500	0.00654	<0.00500
B	Selenium	mg/L	0.002***	0.05	<0.00200	<0.00200	0.00137 J	NA	<0.00200	0.00160 J	<0.00200
B	Thallium	mg/L	0.001***	0.002	<0.00100	<0.00100	<0.00100	NA	<0.00100	0.000310 J	<0.00100
B	Radium Combined	pCi/L	3.838	5	0.227 J	0.283 J	2.65	NA	1.048	2.198	0.711 J

***Due to historical elevated detection limits in MW93-1, background levels are derived from MW22-01.
 Constituents that exceed the GWPS/MCL are in bold.
 Constituents that exceed the Background Concentration derived from MW93-1/MW22-01 are in gray.
 NA - Not Applicable
 B: The same analyte is found in the associated blank.
 J: The identification of the analyte is acceptable; the reported value is an estimate.
 J3: The associated batch QC was outside the established quality control range for precision.
 J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low
 O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
 P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Table 3
 Summary of Semi-Annual Groundwater Monitoring Results - September 11-13, 2023
 Grand River Dam Authority Landfill
 Grand River Energy Center - Mayes County, Oklahoma

Appendix A or B	Analyte	Units	Background	GWPS/MCL	MW23-01	MW23-02	MW23-03	MW23-04	MW23-05	MW23-06
					9/13/2023	9/13/2023	9/13/2023	9/13/2023	9/12/2023	9/13/2023
					Result	Result	Result	Result	Result	Result
A	Alkalinity	mg/L	637	NA	239	250	247	202	520	180
A	Boron	mg/L	0.499	NA	0.0968 J	<0.200	0.0778 J	<0.200	0.44	0.123 J
A	Calcium	mg/L	670	NA	259	175	78.9	73.2	186	124
A	Chloride	mg/L	63	NA	88.1	234	14.1	10.9	10.2	20.1
A	Dissolved Solids	mg/L	1230	NA	1350	998	376	265	754	776
A	pH	su	7.20	NA	6.85	6.43	7.26	7.19	6.7	7.4
A	Sodium	mg/L	130	NA	168	151	18.9	8.99	59.4	136
A	Specific Conductance	umhos/cm	1888	NA	1960	1650	636	466	1270	1170
A	Sulfate	mg/L	880	NA	678	237	60.3 J6	11.5	195	392
A,B	Fluoride	mg/L	0.245	4.0	0.103 J	0.108 J	0.38 P1	0.256 P1	0.098 J	0.269
B	Antimony	mg/L	0.005***	0.01	<0.00500	<0.00500	0.00294 J	<0.00500	<0.00500	<0.00500
B	Arsenic	mg/L	0.0109	0.01	0.00132	<0.00100	0.00191	0.00117	0.000444 J	0.000649 J
B	Barium	mg/L	0.0621	2.0	0.072	0.0867	0.142	0.128	0.138	0.0546
B	Beryllium	mg/L	0.005***	0.004	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
B	Cadmium	mg/L	0.00125	0.00500	0.000381 J	0.000236 J	<0.00100	<0.00100	<0.00100	<0.00100
B	Chromium	mg/L	0.02	0.1	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
B	Cobalt	mg/L	0.00738***	0.006	0.00158 J	0.000287 J	0.000489 J	<0.00200	0.000799 J	0.00081 J
B	Lead	mg/L	0.005	0.015	0.0009 B J	0.00105 B J	0.00061 B J	0.000688 B J	0.00116 B J	0.000571 B J
B	Lithium	mg/L	0.0370	0.04	0.0127 J	0.0178	0.0135 J	0.00826 J	0.0557	0.00812 J
B	Mercury	mg/L	0.0002	0.002	<0.000200	<0.000200	<0.000200	<0.0002 J6 O1	<0.000200	<0.000200
B	Molybdenum	mg/L	0.005***	0.1	<0.00500	<0.00500	0.0565	0.00296 J	0.000987 J	0.00251 J
B	Selenium	mg/L	0.002***	0.05	<0.00200	<0.00200	0.0071	<0.000200	<0.000200	<0.000200
B	Thallium	mg/L	0.001***	0.002	<0.00100	<0.00100	0.000201 J	<0.00100	<0.00100	<0.00100
B	Radium Combined	pCi/L	3.838	5	0.191 J	1.061 J	1.477	1.519	1.421 J	0.851 J

***Due to historical elevated detection limits in MW93-1, background levels are derived from MW22-01.
 Constituents that exceed the GWPS/MCL are in bold.
 Constituents that exceed the Background Concentration derived from MW93-1/MW22-01 are in gray.
 NA - Not Applicable
 B: The same analyte is found in the associated blank.
 J: The identification of the analyte is acceptable; the reported value is an estimate.
 J3: The associated batch QC was outside the established quality control range for precision.
 J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low
 O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
 P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Table 4
 Summary of Semi-Annual Groundwater Monitoring Results - November 30 - December 1-4, 2023
 Grand River Dam Authority Landfill
 Grand River Energy Center - Mayes County, Oklahoma

Appendix A or B	Analyte	Units	Background	GWPS/MCL	MW22-01	MW93-1	MW22-02	MW22-03	MW22-04	MW22-05	MW22-06
					11/30/2023	12/4/2023	11/30/2023	11/30/2023	11/30/2023	12/1/2023	12/1/2023
					Result	Result	Result	Result	Result	Result	Result
A	Alkalinity	mg/L	637	NA	524	416	374	257	118	396	276
A	Boron	mg/L	0.499	NA	0.115 J	0.298	3.02	0.155 J	<0.200	<0.200	<0.200
A	Calcium	mg/L	670	NA	239	196	333	127	60.9	223	198
A	Chloride	mg/L	63	NA	11.1	13.4	269	678	37.1	1010	159
A	Dissolved Solids	mg/L	1230	NA	916	974	5480	1410	367	2000	916
A	pH	su	7.20	NA	6.98	6.6	7.3	7.07	6.8	6.93	6.86
A	Sodium	mg/L	130	NA	23.5	92.4	1430	423	45.2	517	59.8
A	Specific Conductance	umhos/cm	1888	NA	1400	1470	7750	3100	622	4050	1390
A	Sulfate	mg/L	880	NA	282	371	3480	212	106	115	266
A,B	Fluoride	mg/L	0.245	4.0	0.165	0.157	<1.50	<0.150	0.0998 J	0.117 J	<0.150
B	Antimony	mg/L	0.005***	0.01	<0.00500	<0.00500 J4	<0.00500	<0.00500	<0.00500	<0.00500 J4	<0.00500
B	Arsenic	mg/L	0.0109	0.01	0.000311 J	0.000303 J	0.00194	0.000459 J	0.000353 J	0.000271 J	0.00029 J
B	Barium	mg/L	0.0621	2.0	0.0362	0.0124	0.0305	0.156	0.0576	0.295	0.0695
B	Beryllium	mg/L	0.005***	0.004	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
B	Cadmium	mg/L	0.00125	0.00500	0.000755 J	0.00034 J	<0.00100	0.000164 J	<0.00100	<0.00100	<0.00100
B	Chromium	mg/L	0.02	0.1	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
B	Cobalt	mg/L	0.00738***	0.006	0.00283	<0.00200	0.000386 J	0.00433	<0.00200	<0.00200	<0.00200
B	Lead	mg/L	0.005	0.015	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
B	Lithium	mg/L	0.0370	0.04	<0.0150	<0.015	0.0153	0.0906	0.00904 J	0.0103 J	0.00721 J
B	Mercury	mg/L	0.0002	0.002	<0.0002 J6 O1	<0.0002 J6 O1	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
B	Molybdenum	mg/L	0.005***	0.1	<0.00500	0.000871 J	0.0945	<0.00500	<0.00500	<0.00500	<0.00500
B	Selenium	mg/L	0.002***	0.05	<0.00200	<0.00200	0.0565	<0.00200	<0.00200	<0.00200	<0.00200
B	Thallium	mg/L	0.001***	0.002	<0.00100	<0.00100	0.000373 J	<0.00100	<0.00100	<0.00100	<0.00100
B	Radium Combined	pCi/L	3.838	5	1.333	0.362 J	1.468 J	1.931	2.123	2.019	0.143 J

***Due to historical elevated detection limits in MW93-1, background levels are derived from MW22-01.

Constituents that exceed the GWPS/MCL are in bold.

Constituents that exceed the Background Concentration derived from MW93-1/MW22-01 are in gray.

NA - Not Applicable

B: The same analyte is found in the associated blank.

J: The identification of the analyte is acceptable; the reported value is an estimate.

J4: The associated batch QC was outside the established quality control range for accuracy

J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low

O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

Table 4
 Summary of Semi-Annual Groundwater Monitoring Results - November 30 - December 1-4, 2023
 Grand River Dam Authority Landfill
 Grand River Energy Center - Mayes County, Oklahoma

Appendix A or B	Analyte	Units	Background	GWPS/MCL	MW22-07	MW22-08	MW93-2	MW93-3	MW03-2	MW23-01	MW23-02
					12/4/2023	12/1/2023	11/30/2023	11/30/2023	12/1/2023	12/1/2023	12/1/2023
					Result	Result	Result	Result	Result	Result	Result
A	Alkalinity	mg/L	637	NA	314	404	89.2	577	217	241	197
A	Boron	mg/L	0.499	NA	0.103 J	0.194 J	1.8	0.094 J	<0.200	0.104 J	<0.200
A	Calcium	mg/L	670	NA	143	60.4	226	73.4	202	216	146
A	Chloride	mg/L	63	NA	16.5	218	1580	218	277	79.2	239
A	Dissolved Solids	mg/L	1230	NA	812	1030	6140	1170	1160	1300	884
A	pH	su	7.20	NA	7.01	7.31	10	6.98	6.7	6.74	6.22
A	Sodium	mg/L	130	NA	113	307	2680	347	136	138	136
A	Specific Conductance	umhos/cm	1888	NA	1270	1870	13900	2070	1810	1830	1590
A	Sulfate	mg/L	880	NA	345	215	5220	179	292	640	227
A,B	Fluoride	mg/L	0.245	4.0	0.143 J	0.206	<1.50	0.222	<0.150	0.11 J	<0.150
B	Antimony	mg/L	0.005***	0.01	<0.00500 J4	<0.00500 J4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500 J4
B	Arsenic	mg/L	0.0109	0.01	0.000322 J	0.000396 J	0.0387	0.00057 J	<0.00100	0.000467 J	0.000224 J
B	Barium	mg/L	0.0621	2.0	0.0441	0.049	0.124	0.062	0.0292	0.0338	0.0731
B	Beryllium	mg/L	0.005***	0.004	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
B	Cadmium	mg/L	0.00125	0.00500	<0.00100	<0.00100	0.000203 J	<0.00100	<0.00100	<0.00100	<0.00100
B	Chromium	mg/L	0.02	0.1	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
B	Cobalt	mg/L	0.00738***	0.006	<0.00200	<0.00200	0.000174 J	<0.00200	<0.00200	0.000236 J	<0.00200
B	Lead	mg/L	0.005	0.015	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
B	Lithium	mg/L	0.0370	0.04	<0.0150	0.106	0.0111 J	0.133	<0.0150	<0.0150	0.0132 J
B	Mercury	mg/L	0.0002	0.002	<0.000200	<0.000200	<0.000200	0.000933	0.000679	<0.000200	<0.000200
B	Molybdenum	mg/L	0.005***	0.1	<0.00500	<0.00500	1.85	<0.00500	<0.00500	<0.00500	<0.00500
B	Selenium	mg/L	0.002***	0.05	<0.00200	<0.00200	0.00137 J	<0.00200	<0.00200	<0.00200	<0.00200
B	Thallium	mg/L	0.001***	0.002	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
B	Radium Combined	pCi/L	3.838	5	0.101 J	0.866	3.093	0.278	1.117	0.248	1.267

***Due to historical elevated detection limits in MW93-1, background levels are derived from MW22-01.

Constituents that exceed the GWPS/MCL are in bold.

Constituents that exceed the Background Concentration derived from MW93-1/MW22-01 are in gray.

NA - Not Applicable

B: The same analyte is found in the associated blank.

J: The identification of the analyte is acceptable; the reported value is an estimate.

J4: The associated batch QC was outside the established quality control range for accuracy

J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low

O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

Table 4
 Summary of Semi-Annual Groundwater Monitoring Results - November 30 - December 1-4, 2023
 Grand River Dam Authority Landfill
 Grand River Energy Center - Mayes County, Oklahoma

Appendix A or B	Analyte	Units	Background	GWPS/MCL	MW23-03	MW23-04	MW23-05	MW23-06	MW23-06DUP
					12/1/2023	12/4/2023	12/4/2023	12/4/2023	12/4/2023
					Result	Result	Result	Result	Result
A	Alkalinity	mg/L	637	NA	238	266	435	169	168
A	Boron	mg/L	0.499	NA	0.1 J	<0.200	0.509	0.131 J	0.132 J
A	Calcium	mg/L	670	NA	73.5	81.4	145	105	106
A	Chloride	mg/L	63	NA	6.1	8.45	13.1	20.1	20.1
A	Dissolved Solids	mg/L	1230	NA	337	303	632	752	755
A	pH	su	7.20	NA	7.4	7.02	6.61	7.32	6.86
A	Sodium	mg/L	130	NA	15.4	7.92	46.6	114	113
A	Specific Conductance	umhos/cm	1888	NA	573	546	1090	1150	1160
A	Sulfate	mg/L	880	NA	55.5 J6	10.7	158	403	384
A,B	Fluoride	mg/L	0.245	4.0	0.392	0.187	<0.150	0.2	0.198
B	Antimony	mg/L	0.005***	0.01	<0.00500 J4	<0.00500 J4	<0.00500 J4	<0.00500 J4	NA
B	Arsenic	mg/L	0.0109	0.01	0.00373	0.00123	0.000533 J	0.00066 J	NA
B	Barium	mg/L	0.0621	2.0	0.126	0.132	0.0848	0.0488	NA
B	Beryllium	mg/L	0.005***	0.004	<0.00100	<0.00100	<0.00100	<0.00100	NA
B	Cadmium	mg/L	0.00125	0.00500	<0.00100	<0.00100	<0.00100	<0.00100	NA
B	Chromium	mg/L	0.02	0.1	<0.0200	<0.0200	<0.0200	<0.0200	NA
B	Cobalt	mg/L	0.00738***	0.006	0.000387 J	<0.0200	0.000232 J	0.000767 J	NA
B	Lead	mg/L	0.005	0.015	<0.00200	<0.00200	<0.00200	<0.00200	NA
B	Lithium	mg/L	0.0370	0.04	0.00942 J	<0.0150	0.0442	<0.0150	NA
B	Mercury	mg/L	0.0002	0.002	<0.000200	<0.000200	<0.000200	<0.000200	NA
B	Molybdenum	mg/L	0.005***	0.1	0.0441	0.00286 J	<0.00500	0.00141 J	NA
B	Selenium	mg/L	0.002***	0.05	0.00056 J	<0.00200	<0.00200	<0.00200	NA
B	Thallium	mg/L	0.001***	0.002	<0.00100	<0.00100	<0.00100	<0.00100	NA
B	Radium Combined	pCi/L	3.838	5	1.111	1.329	2.867	0.777 J	NA

***Due to historical elevated detection limits in MW93-1, background levels are derived from MW22-01.

Constituents that exceed the GWPS/MCL are in bold.

Constituents that exceed the Background Concentration derived from MW93-1/MW22-01 are in gray.

NA - Not Applicable

B: The same analyte is found in the associated blank.

J: The identification of the analyte is acceptable; the reported value is an estimate.

J4: The associated batch QC was outside the established quality control range for accuracy

J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low

O1: The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

Table 5

Groundwater Seepage Velocity Calculation
 Grand River Dam Authority Landfill
 Grand River Energy Center - Mayes County, Oklahoma

Parameter	Value		Units
Hydraulic Conductivity	Maximum	0.0025	cm/s
	Average	0.0006	cm/s
Hydraulic Gradient (I)	Groundwater Elevation MW93-1	609.91	ft
	Groundwater Elevation MW22-06	584.89	ft
	Distance	2122	ft
Effective Porosity	Average	0.221	unitless

Calculated Seepage Velocity	cm/s	ft/year
Maximum	0.00013	137.8
Average	0.00003	32.7

Table 6
 Summary of Semi-Annual Groundwater Monitoring Statistical Analysis
 May 2023
 Grand River Dam Authority Landfill
 Grand River Energy Center - Mayes County, Oklahoma

Parameter		Units	BG	GWPS/MCL	Inter-Well/Background Exceedance	Intra-Well Exceedance	GWPS/MCL Exceedance
Alkalinity	A	mg/L	637	NA	--	--	--
Boron	A	mg/L	0.499	NA	MW22-02 MW93-2	--	--
Calcium	A	mg/L	670	NA	--	--	--
Chloride	A	mg/L	63	NA	MW22-02 MW22-03 MW22-05 MW22-06 MW22-08 MW93-2 MW93-3 MW03-2	--	--
Total Dissolved Solids	A	mg/L	1230	NA	MW22-02 MW22-03 MW22-05 MW93-2 MW03-2	--	--
pH	A	su	7.20	NA	MW22-08 MW93-2	--	--
Sodium	A	mg/L	130	NA	MW22-02 MW22-03 MW22-05 MW22-08 MW93-2 MW93-3 MW03-2	--	--
Specific Conductance	A	uohms/cm	1888	NA	MW22-02 MW22-03 MW22-05 MW93-2 MW93-3 MW03-2	MW22-02	--
Sulfate	A	mg/L	880	NA	MW22-02 MW93-2	--	--
Fluoride	A,B	mg/L	0.245	4.0	MW22-02 MW22-03 MW22-05 MW22-07 MW22-08 MW93-2 MW93-3	MW22-03 (ND) MW22-05	--
Antimony	B	mg/L	0.005***	0.01	--	--	--
Arsenic	B	mg/L	0.0109	0.01	MW93-2	--	MW93-2
Barium	B	mg/L	0.0621	2.0	MW22-02 MW22-03 MW22-05 MW22-06 MW22-07 MW93-2	--	--
Beryllium	B	mg/L	0.005***	0.004	--	--	--
Cadmium	B	mg/L	0.00125	0.005	--	--	--
Chromium	B	mg/L	0.02	0.1	--	--	--
Cobalt	B	mg/L	0.00738***	0.006	MW22-03	MW22-03	MW22-03
Lead	B	mg/L	0.005	0.015	--	--	--
Lithium	B	mg/L	0.0370	0.04	MW22-03 MW22-08 MW93-3	--	MW22-03 MW22-08 MW93-3
Mercury	B	mg/L	0.0002	0.002	MW93-3 MW03-2	MW93-3	MW03-2
Molybdenum	B	mg/L	0.005***	0.1	MW22-02 MW93-2	--	MW22-02 MW93-2
Selenium	B	mg/L	0.002***	0.05	MW22-02	--	MW22-02
Thallium	B	mg/L	0.001***	0.002	--	--	--
Radium 226/228 Combined	B	pCi/L	3.838	5	--	--	--

***Due to historical elevated detection limits in MW93-1, background levels are derived from MW22-01.

NA - Not Applicable

BG - Background Concentration observed in MW93-1 and MW22-01

A - Appendix A Constituents for Detection Monitoring

B - Appendix B Constituents for Assessment Monitoring

(ND) - Constituent was not detected, but elevated detection limit resulted in an intra-well exceedance.

Summary of Annual Groundwater Monitoring Statistical Analysis
December 2023
Grand River Dam Authority Landfill
Grand River Energy Center - Mayes County, Oklahoma

Parameter		Units	BG	GWPS/MCL	Inter-Well/ Background Exceedance	Intra-Well Exceedance	GWPS/MCL Exceedance
Alkalinity	A	mg/L	637	NA	--	--	--
Boron	A	mg/L	0.499	NA	MW22-02 MW93-2 MW23-05	--	--
Calcium	A	mg/L	670	NA	--	--	--
Chloride	A	mg/L	63	NA	MW22-02 MW22-03 MW22-05 MW22-06 MW22-08 MW93-2 MW93-3 MW03-2 MW23-01 MW23-02	--	--
Total Dissolved Solids	A	mg/L	1230	NA	MW22-02 MW22-03 MW22-05 MW93-2 MW23-1	--	--
pH	A	su	7.20	NA	MW22-02 MW22-08 MW93-2 MW23-3 MW23-6	--	--
Sodium	A	mg/L	130	NA	MW22-02 MW22-03 MW22-05 MW22-08 MW93-2 MW93-3 MW03-2 MW23-01 MW23-02	--	--
Specific Conductance	A	umhos/cm	1888	NA	MW22-02 MW22-03 MW22-05 MW93-2 MW93-3 MW03-2 MW23-01	--	--
Sulfate	A	mg/L	880	NA	MW22-02 MW93-2	--	--
Fluoride	A,B	mg/L	0.245	4.0	MW22-02 MW22-03 MW93-2	--	--
Antimony	B	mg/L	0.005***	0.01	--	--	--
Arsenic	B	mg/L	0.0109	0.01	MW93-2	--	MW93-2
Barium	B	mg/L	0.0621	2.0	MW22-02 MW22-03 MW22-05 MW22-06 MW22-07 MW93-2	--	--
Beryllium	B	mg/L	0.005***	0.004	--	--	--
Cadmium	B	mg/L	0.00125	0.00500	--	--	--
Chromium	B	mg/L	0.02	0.1	--	--	--
Cobalt	B	mg/L	0.00738***	0.006	--	--	--
Lead	B	mg/L	0.005	0.015	--	--	--
Lithium	B	mg/L	0.0370	0.04	MW22-03 MW22-08 MW93-3 MW23-05	MW22-08	MW22-03 MW22-08 MW93-3 MW23-05
Mercury	B	mg/L	0.0002	0.002	MW93-3 MW03-2	--	--
Molybdenum	B	mg/L	0.005***	0.1	MW22-02 MW93-2 MW23-03	--	MW93-2
Selenium	B	mg/L	0.002***	0.05	MW22-02	--	MW22-02
Thallium	B	mg/L	0.001***	0.002	--	--	--
Radium 226/228 Combined	B	pCi/L	3.838	5	--	--	--

***Due to historical elevated detection limits in MW93-1, background levels are derived from MW22-01.

NA - Not Applicable

BG - Background Concentration observed in MW93-1 and MW22-01

A - Appendix A Constituents for Detection Monitoring

B - Appendix B Constituents for Assessment Monitoring

(ND) - Constituent was not detected, but elevated detection limit resulted in an intra-well exceedance.

Figures



**Grand River Dam Authority
Grand River Energy Center
Mayes County, Oklahoma**

Legend:
● Monitor Well

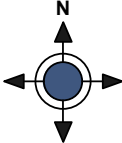
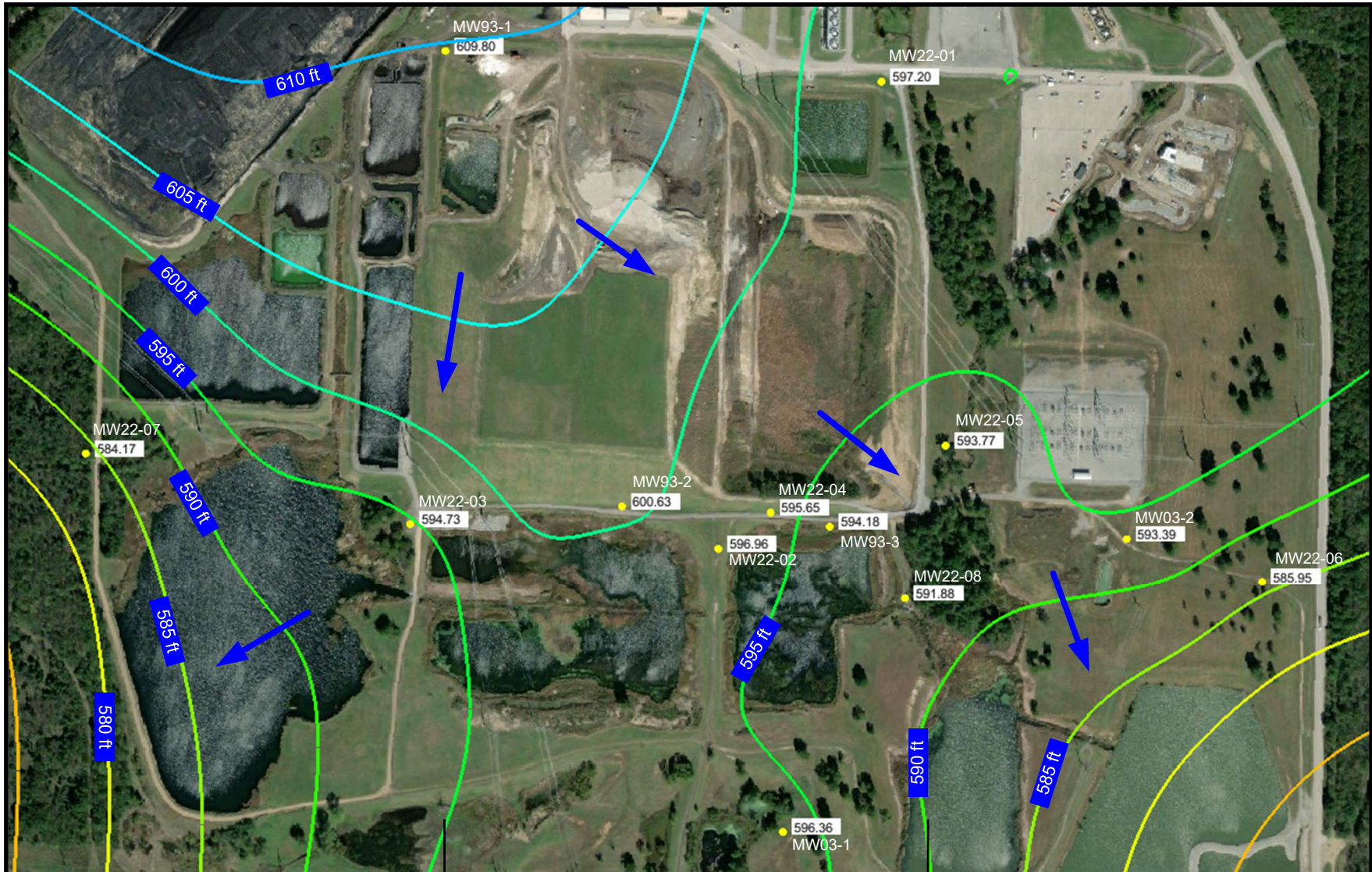


Figure 1
Site Location Map and Monitor Well Locations

Project No: GRDA-00025



**Grand River Dam Authority
Grand River Energy Center
Mayes County, Oklahoma**

Legend:
● Monitor Well

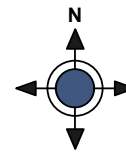
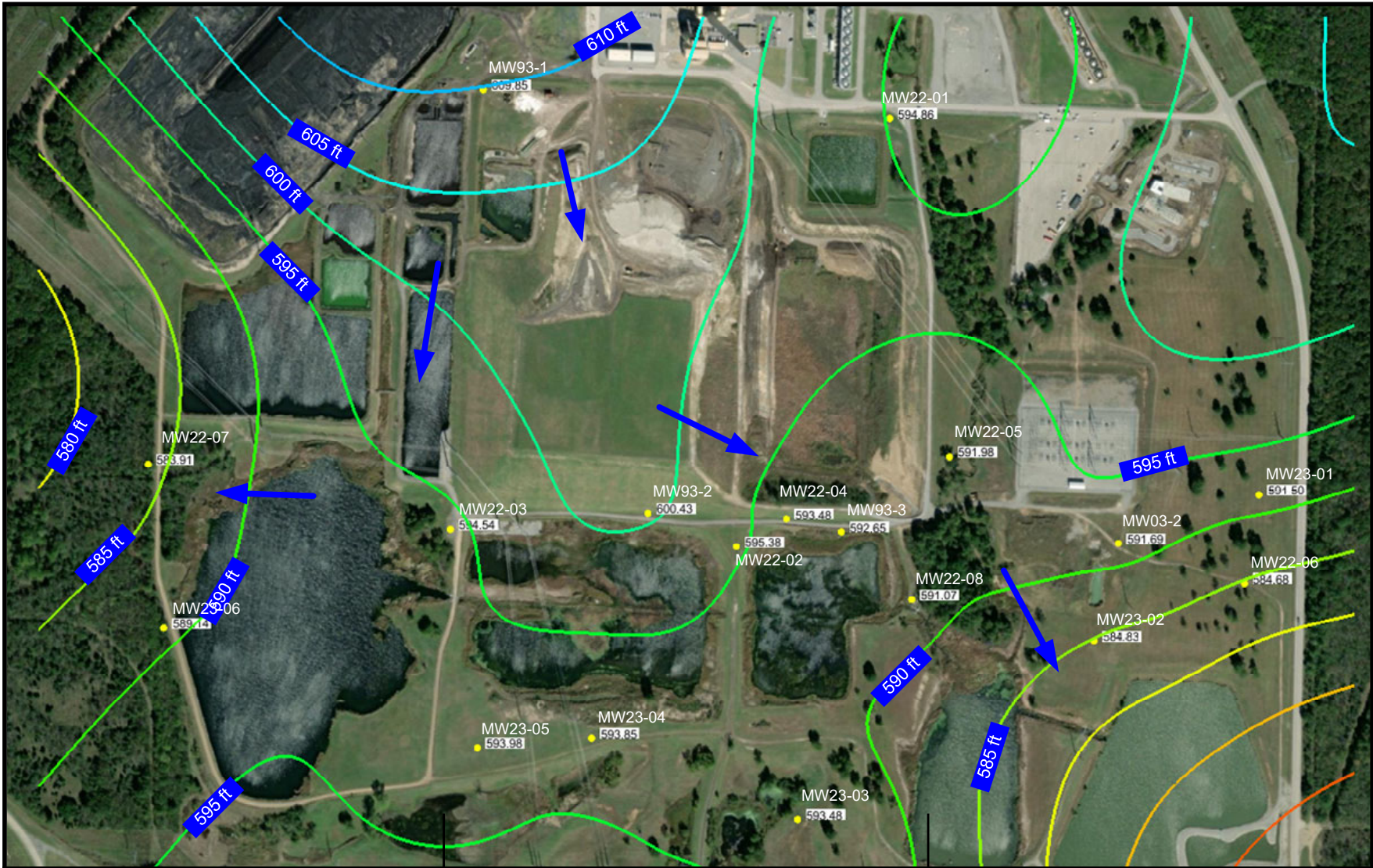


Figure 2
Groundwater Gradient
May 2023

Project No: GRDA-00025



**Grand River Dam Authority
Grand River Energy Center
Mayes County, Oklahoma**

Legend:
● Monitor Well

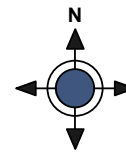


Figure 3
Groundwater Gradient
September 2023

Project No: GRDA-00025



**Grand River Dam Authority
Grand River Energy Center
Mayes County, Oklahoma**

Legend:
● Monitor Well

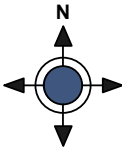


Figure 4
Groundwater Gradient
December 2023

Project No: GRDA-00025

Attachment A
Field Notes

Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK

ENERCON Project #: GRDA-27

Well Number:

mw22-04

Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.

ENERCON Sampling Personnel:

Caleb Cope

Other Personnel:

Latitude/ Longitude:
N E

Depth to Free Product:

Depth to Water:

1642

Total Depth of Well:

28.02

Screened Interval:

13.05-28.02

Date Started: *9-12-23*

Date Finished:

Pump/Tubing Inlet Depth: *22'*

Well Casing Diameter:

Sample Collection Time:

1155-1200

Duplicate Sample Name:

Duplicate Collection Time:

Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
<i>1105</i>	<i>250</i>	—	<i>22.23</i>	<i>6.41</i>	<i>733</i>	<i>4.65</i>	<i>135.6</i>	<i>28.1</i>	<i>16.60</i>	<i>slowed</i>
<i>1110</i>	<i>200</i>	<i>1250</i>	<i>21.87</i>	<i>6.34</i>	<i>738</i>	<i>3.24</i>	<i>152.4</i>	<i>54.51</i>	<i>16.73</i>	<i>7 slowed</i>
<i>1115</i>	<i>150</i>	<i>2250</i>	<i>21.81</i>	<i>6.30</i>	<i>751</i>	<i>3.09</i>	<i>154.0</i>	<i>32.99</i>	<i>16.77</i>	<i>slowed & slowed</i>
<i>1120</i>	<i>150</i>	<i>3000</i>	<i>21.86</i>	<i>6.30</i>	<i>756</i>	<i>3.04</i>	<i>153.7</i>	<i>30.69</i>	<i>16.80</i>	
<i>1125</i>	<i>100</i>	<i>3500</i>	<i>22.06</i>	<i>6.30</i>	<i>769</i>	<i>2.84</i>	<i>152.6</i>	<i>23.33</i>	<i>16.84</i>	
<i>1130</i>	" "	<i>4000</i>	<i>22.30</i>	<i>6.30</i>	<i>769</i>	<i>2.85</i>	<i>151.3</i>	<i>18.86</i>	<i>16.84</i>	
<i>1135</i>	" "	<i>4500</i>	<i>22.35</i>	<i>6.30</i>	<i>774</i>	<i>2.78</i>	<i>150.6</i>	<i>16.6</i>	<i>16.84</i>	
<i>1140</i>	" "	<i>5000</i>	<i>22.09</i>	<i>6.31</i>	<i>780</i>	<i>2.78</i>	<i>150.6</i>	<i>17.7</i>	<i>16.84</i>	
<i>1145</i>	" "	<i>5500</i>	<i>22.04</i>	<i>6.31</i>	<i>785</i>	<i>2.76</i>	<i>152.2</i>	<i>14.9</i>	<i>16.84</i>	
<i>1150</i>	" "	<i>6000</i>	<i>21.76</i>	<i>6.31</i>	<i>786</i>	<i>2.77</i>	<i>151.9</i>	<i>13.8</i>	<i>16.84</i>	
<i>1155</i>	" "	<i>6500</i>	<i>21.56</i>	<i>6.31</i>	<i>786</i>	<i>2.77</i>	<i>152.1</i>	<i>13.9</i>	<i>16.84</i>	

Volume = H x conversion factor
Volume Conversion factors
 2' well - 0.163 gal/ft
 4' well - 0.65 gal/ft
 8' well - 1.47 gal/ft

Water Quality Instrument details

YSI™ Multimeter SN: 13K102703

Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK							ENERCON Project #: GRDA-27					
Well Number: MW22-07		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings<.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.					ENERCON Sampling Personnel: Caleb Cope		Other Personnel:			
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: 19.46		Total Depth of Well: 2502		Screened Interval: 10-25'				
Date Started: 9-12-23		Date Finished:		Pump/Tubing Inlet Depth: 23'		Well Casing Diameter:						
Sample Collection Time: 1640				Duplicate Sample Name:				Duplicate Collection Time:				
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks		
1600	200	—	19.43	6.86	1071	2.04	90.2	5.34	19.55	Slow		
1605	150	1000	19.32	6.74	1089	.85	98.2	6.51	19.57			
1610	100	1750	19.28	6.73	1093	.78	99.0	4.90	19.57			
1615		1500	19.38	6.72	1105	.65	97.1	6.62	19.57			
1620		2250	19.23	6.73	1115	.63	96.3	5.88	19.57			
1625		3000	19.14	6.73	1110	.69	96.8	4.92	19.57			
1630		3750	19.62	6.74	1118	.70	96.3	3.54	19.57			
1635		4500	19.41	6.73	1133	.69	96.4	4.71	19.57			

Volume = H x conversion factor
Volume Conversion factors
2' well - 0.163 gal/ft
4' well - 0.65 gal/ft
6' well - 1.47 gal/ft

Water Quality Instrument details
YSI™ Multimeter SN: 13K102703
Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK							ENERCON Project #: GRDA-27				
Well Number: <i>MW23-05</i>		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.					ENERCON Sampling Personnel: Caleb Cope		Other Personnel:		
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: <i>16.52</i>		Total Depth of Well: <i>21.85</i>		Screened Interval: <i>6-21.85</i>			
Date Started: <i>9-12-13</i>		Date Finished:		Pump/Tubing Inlet Depth: <i>18'</i>		Well Casing Diameter:					
Sample Collection Time: <i>1805</i>			Duplicate Sample Name:			Duplicate Collection Time:					
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks	
<i>1715</i>	<i>200</i>	<i>—</i>	<i>21.47</i>	<i>6.77</i>	<i>1268</i>	<i>4.63</i>	<i>350</i>	<i>30.1</i>	<i>16.63</i>	<i>Slowed</i>	
<i>1720</i>	<i>150</i>	<i>1000</i>	<i>21.7</i>	<i>6.67</i>	<i>1246</i>	<i>2.06</i>	<i>35.0</i>	<i>28.5</i>	<i>16.77</i>	<i>Slowed</i>	
<i>1735</i>	<i>100</i>	<i>1750</i>	<i>19.76</i>	<i>6.67</i>	<i>1250</i>	<i>1.41</i>	<i>18.8</i>	<i>32.6</i>	<i>16.81</i>		
<i>1730</i>	<i>" "</i>	<i>2500</i>	<i>19.62</i>	<i>6.67</i>	<i>1249</i>	<i>1.29</i>	<i>5.9</i>	<i>37.5</i>	<i>16.85</i>		
<i>1735</i>		<i>3250</i>	<i>19.59</i>	<i>6.67</i>	<i>1243</i>	<i>1.20</i>	<i>.1</i>	<i>32.6</i>	<i>16.86</i>		
<i>1740</i>		<i>4000</i>	<i>19.15</i>	<i>6.68</i>	<i>1241</i>	<i>1.09</i>	<i>-29.0</i>	<i>26.9</i>	<i>16.88</i>		
<i>1745</i>		<i>4750</i>	<i>19.22</i>	<i>6.68</i>	<i>1242</i>	<i>1.03</i>	<i>-35.3</i>	<i>23.3</i>	<i>16.89</i>		
<i>1750</i>		<i>5500</i>	<i>19.26</i>	<i>6.69</i>	<i>1242</i>	<i>1.22</i>	<i>-44.3</i>	<i>24.0</i>	<i>16.90</i>		
<i>1755</i>		<i>6250</i>	<i>19.35</i>	<i>6.70</i>	<i>1241</i>	<i>1.00</i>	<i>-53.5</i>	<i>22.9</i>	<i>16.91</i>		
<i>1800</i>		<i>7000</i>	<i>19.31</i>	<i>6.70</i>	<i>1242</i>	<i>1.09</i>	<i>-56.5</i>	<i>22.6</i>	<i>16.91</i>		

Volume = H x conversion factor
Volume Conversion factors
 2" well – 0.163 gal/ft
 4" well – 0.65 gal/ft
 6" well – 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618



ENERCON

Groundwater Well Sampling Record

24

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK

ENERCON Project #: GRDA-27

Well Number:

MW23-04

Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.

ENERCON Sampling Personnel:

Caleb Cope

Other Personnel:

Latitude/ Longitude:
N

E

Depth to Free Product:

N/A

Depth to Water:

16.51

Total Depth of Well:

21.75

Screened Interval:

6.75 - 21.75

Date Started: 9-13-23

Date Finished:

Pump/Tubing Inlet Depth: 19.5

Well Casing Diameter:

Sample Collection Time: 0905

Duplicate Sample Name:

Duplicate Collection Time:

Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
0835	200	—	19.8	7.02	457	3.94	179.7	7.15	16.78	slowed
0840	150	1000	19.96	7.18	444	3.99	152.6	6.41	17.01	slowed
0845	100	1750	20.09	7.17	446	3.62	140	5.87	17.11	
0850	6	2250	20.13	7.19	448	3.50	135	5.28	17.20	
0855	↓	2750	19.98	7.19	448	3.40	130	5.6	17.21	
0900	↓	3250	20.13	7.19	448	3.40	135	5.7	17.39	

Volume = H x conversion factor
Volume Conversion factors
 2" well - 0.163 gal/ft
 4" well - 0.65 gal/ft
 6" well - 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

*Driller TD = 17 Bls
10' screen*

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK						ENERCON Project #: GRDA-27						
Well Number: <i>MW23-06</i>			Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if > 5 NTU, or three readings < 5 NTU. Dissolved Oxygen 10% if > .5mg/l, or 3 readings < .5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.						ENERCON Sampling Personnel: <i>Caleb Cope/Rusty Lynch</i>		Other Personnel:	
Latitude/ Longitude: N E			Depth to Free Product:		Depth to Water: <i>9.64</i>		Total Depth of Well: <i>19.91</i>		Screened Interval: <i>10-20' ±</i>			
Date Started: <i>9-13-23</i>		Date Finished:			Pump/Tubing Inlet Depth: <i>16'</i>		Well Casing Diameter: <i>2"</i>					
Sample Collection Time: <i>1025</i>				Duplicate Sample Name:				Duplicate Collection Time:				
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks		
<i>0950</i>	<i>200</i>	<i>—</i>	<i>20.09</i>	<i>7.41</i>	<i>1133</i>	<i>1.86</i>	<i>25.1</i>	<i>107.4</i>	<i>9.86</i>	<i>Slowed</i>		
<i>0955</i>	<i>150</i>	<i>1000</i>	<i>20.85</i>	<i>7.36</i>	<i>1136</i>	<i>1.28</i>	<i>-32.7</i>	<i>98.36</i>	<i>9.95</i>	<i>Slowed</i>		
<i>1000</i>	<i>100</i>	<i>1750</i>	<i>20.58</i>	<i>7.39</i>	<i>1138</i>	<i>1.25</i>	<i>-50.2</i>	<i>69.26</i>	<i>9.98</i>			
<i>1005</i>	<i>100</i>	<i>2250</i>	<i>20.87</i>	<i>7.40</i>	<i>1140</i>	<i>1.23</i>	<i>-54.8</i>	<i>53.09</i>	<i>9.95</i>			
<i>1010</i>	<i>" "</i>	<i>2750</i>	<i>21.14</i>	<i>7.40</i>	<i>1138</i>	<i>1.33</i>	<i>-55.6</i>	<i>36.27</i>	<i>9.95</i>			
<i>1015</i>	<i>" "</i>	<i>3250</i>	<i>21.19</i>	<i>7.40</i>	<i>1139</i>	<i>1.35</i>	<i>-54.3</i>	<i>34.22</i>	<i>9.95</i>			
<i>1020</i>		<i>3750</i>	<i>21.19</i>	<i>7.40</i>	<i>1138</i>	<i>1.35</i>	<i>-55.5</i>	<i>33.81</i>	<i>9.95</i>			

Volume = H x conversion factor
Volume Conversion factors
 2" well – 0.183 gal/ft
 4" well – 0.65 gal/ft
 6" well – 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

DRILLER TO = 23' BGS
10' screen

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK							ENERCON Project #: GRDA-27				
Well Number: mw23-02		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.					ENERCON Sampling Personnel: Caleb Cope		Other Personnel:		
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: 17.01		Total Depth of Well: 25.11		Screened Interval: 15-25.4			
Date Started: 1-13-23		Date Finished:		Pump/Tubing Inlet Depth: 21'		Well Casing Diameter:					
Sample Collection Time: 1430		Duplicate Sample Name:					Duplicate Collection Time:				
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/ remarks	
1335	200	—	22.16	6.43	1630	2.80	-206.6	483	17.89		
1340	1100	1000	21.19	6.39	1594	1.74	-216	244	17.91		
1345		2000	20.59	6.36	1585	1.23	-214.6	114.2	17.92		
1350		3000	20.77	6.38	1598	1.71	-207	73.08	17.93		
1355		4000	20.55	6.40	1599	1.69	-210	61.45	17.92		
1400		5000	20.43	6.37	1604	1.62	-196	48.67	17.92		
1405		6000	20.01	6.42	1602	1.60	-200	38.79	17.92		
1410		7000	20.15	6.41	1605	1.59	-195	29.20	17.92		
1415		8000	20.18	6.40	1604	1.58	-191.8	20.5	17.92		
1420		9000	20.06	6.38	1605	1.57	-191.9	20.63	17.92		
1425		10000	19.91	6.43	1611	1.51	-191.4	19.7	17.92		

Volume = H x conversion factor
Volume Conversion factors
 2" well - 0.163 gal/ft
 4" well - 0.65 gal/ft
 6" well - 1.47 gal/ft

Water Quality Instrument details

YSI™ Multimeter SN: 13K102703

Scientific™ Turbidimeter SN: 202002618



Groundwater Well Sampling Record

Driller TD= 25' B45
15' screen

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK						ENERCON Project #: GRDA-27					
Well Number: <i>mw 23-01</i>		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 558 MPS groundwater quality probe, and Scientific™ water turbidity meter.				ENERCON Sampling Personnel: Caleb Cope			Other Personnel:		
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: <i>1999</i>		Total Depth of Well: <i>27.22</i>			Screened Interval: <i>12-27</i>		
Date Started: <i>9-13-13</i>		Date Finished:		Pump/Tubing Inlet Depth: <i>23'</i>			Well Casing Diameter:				
Sample Collection Time: <i>1530</i>		Duplicate Sample Name:				Duplicate Collection Time:					
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks	
<i>1500</i>	<i>250</i>	<i>—</i>	<i>19.68</i>	<i>7.01</i>	<i>1912</i>	<i>3.70</i>	<i>-174.7</i>	<i>21.01</i>	<i>20.13</i>	<i>slowed</i>	
<i>1505</i>	<i>200</i>	<i>1250</i>	<i>19.80</i>	<i>6.97</i>	<i>1912</i>	<i>3.30</i>	<i>-187</i>	<i>50.23</i>	<i>20.19</i>		
<i>1510</i>	<i>uⁿ</i>	<i>2250</i>	<i>19.78</i>	<i>6.87</i>	<i>1894</i>	<i>2.20</i>	<i>-208</i>	<i>78.25</i>	<i>20.09</i>		
<i>1515</i>	<i>↓</i>	<i>3250</i>	<i>19.26</i>	<i>6.86</i>	<i>1891</i>	<i>1.90</i>	<i>-207</i>	<i>61.3</i>	<i>20.11</i>		
<i>1520</i>	<i>↓</i>	<i>4250</i>	<i>19.34</i>	<i>6.95</i>	<i>1886</i>	<i>1.74</i>	<i>-216</i>	<i>57.03</i>	<i>20.10</i>		
<i>1525</i>	<i>↓</i>	<i>5250</i>	<i>19.53</i>	<i>6.85</i>	<i>1887</i>	<i>1.73</i>	<i>-221</i>	<i>55.3</i>	<i>20.10</i>		

Volume = H x conversion factor
Volume Conversion factors
2" well - 0.163 gal/ft
4" well - 0.65 gal/ft
6" well - 1.47 gal/ft

Water Quality Instrument details

YSI™ Multimeter SN: 13K102703

Scientific™ Turbidimeter SN: 202002618

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2

ENERCON

Groundwater Well Sampling Record

1,28

Grand River Energy Center, Chouteau, OK

ENERCON Project #: GRDA-27

mw03-1

Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.

ENERCON Sampling Personnel:

Other Personnel:

Caleb Cope / Rusty Lynch

Latitude/ Longitude:

N E

Depth to Free Product:

Depth to Water:

Total Depth of Well:

Screened Interval:

Date Started: 9-13-23

Date Finished: 9-14-23

Pump/Tubing Inlet Depth: 12'

11.14

12.42

?

Sample Collection Time: 1235

Duplicate Sample Name:

Duplicate Collection Time:

Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
1210	150	—	24.9	7.52	419	1.61	61.1	89.89	11.29	slow
1215	100	750	25.31	7.22	388	1.45	74.2	78.65	11.54	
1220	" "	1250	25.21	7.29	384	1.44	78.7	16.35	11.71	
1225	↓	1750	24.95	7.31	382	1.48	79.4	8.16	11.81	sample
1230										dry @ 1315 → w/la filter 14 returned 9-14 ← was able to fill 2 more condensers but not AIK, OK
										CL, 504

Volume = H x conversion factor
 Volume Conversion factors
 2" well - 0.163 gal/ft
 4" well - 0.65 gal/ft
 6" well - 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK						ENERCON Project #: GRDA-				
Well Number: MW22-01		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings<.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.				ENERCON Sampling Personnel: Caleb Cope		Other Personnel: B. Moore		
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: 18.60		Total Depth of Well: 32.37		Screened Interval: 12.45-32.45		
Date Started: 11-30-23		Date Finished:		Pump/Tubing Inlet Depth: 25'		Well Casing Diameter:				
Sample Collection Time: 0925				Duplicate Sample Name:		Duplicate Collection Time:				
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
0845	250	—	16.4	6.97	1351	2.90	203.4	17.49	18.58	Stalled
0850	200	1250	16.51	6.92	1400	2.62	125.9	16.50	18.75	
0855	150	2250	16.90	6.98	1407	2.20	85.2	14.50	18.80	
0900	150	3000	16.91	6.98	1408	2.13	79.1	13.1	18.80	
0905	1" "	3750	16.90	6.96	1405	1.93	67.2	11.08	18.80	
0910	" "	4500	16.86	6.97	1405	1.85	57.3	9.78	18.80	
0915		5250	16.93	6.98	1403	1.73	53.7	9.45	18.80	
0920		6000	16.94	6.98	1403	1.69	52.0	9.02	18.80	

Volume = H x conversion factor
Volume Conversion factors
 2" well - 0.163 gal/ft
 4" well - 0.65 gal/ft
 6" well - 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK						ENERCON Project #: GRDA-					
Well Number: MW93-3		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings<.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.				ENERCON Sampling Personnel: Caleb Cope		Other Personnel: B Moore			
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: 15.09		Total Depth of Well: 27.23		Screened Interval: 17.5-27.23			
Date Started: 11-30-23		Date Finished:		Pump/Tubing Inlet Depth: 221		Well Casing Diameter:					
Sample Collection Time: 1030				Duplicate Sample Name:			Duplicate Collection Time:				
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks	
1005	200	-	16.92	7.01	2043	2.52	99.0		15.19	Stand	
1010	150	1000	17.08	7.00	2074	1.76	97.2	0.07	15.20		
1015		1750	17.12	6.99	2078	1.77	98.8	44	15.20		
1020		2500	17.18	6.99	2080	1.20	100.6	0.53	15.20		
1025		3250	17.31	6.98	2080	1.24	100.7	0.61	15.21		

Volume = H x conversion factor
Volume Conversion factors
 2" well - 0.163 gal/ft
 4" well - 0.65 gal/ft
 6" well - 1.47 gal/ft

Water Quality Instrument details

YSI™ Multimeter SN: 13K102703

Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK					ENERCON Project #: GRDA-						
Well Number: <i>mw22-04</i>		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.					ENERCON Sampling Personnel: <i>Caleb Cope</i>		Other Personnel: <i>B. Moore</i>		
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: <i>15.12</i>		Total Depth of Well: <i>28.02</i>		Screened Interval: <i>13.05-28.02</i>			
Date Started: <i>11-30-23</i>		Date Finished:			Pump/Tubing Inlet Depth: <i>21.6</i>		Well Casing Diameter:				
Sample Collection Time: <i>1120</i>				Duplicate Sample Name:			Duplicate Collection Time:				
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks	
<i>1100</i>	<i>200</i>	<i>-</i>	<i>17.48</i>	<i>6.98</i>	<i>618</i>	<i>4.83</i>	<i>104.7</i>	<i>11.63</i>	<i>15.27</i>	<i>Slow</i>	
<i>1105</i>	<i>150</i>	<i>1000</i>	<i>17.91</i>	<i>6.83</i>	<i>613</i>	<i>4.32</i>	<i>118.9</i>	<i>4.38</i>	<i>15.33</i>	<i>Slowed</i>	
<i>1110</i>	<i>100</i>	<i>1750</i>	<i>17.66</i>	<i>6.81</i>	<i>612</i>	<i>4.24</i>	<i>123.3</i>	<i>2.84</i>	<i>15.35</i>		
<i>1115</i>	<i>100</i>	<i>1500</i>	<i>17.75</i>	<i>6.80</i>	<i>612</i>	<i>4.21</i>	<i>125.7</i>	<i>3.59</i>	<i>15.38</i>		

Volume = H x conversion factor
Volume Conversion factors
 2" well - 0.163 gal/ft
 4" well - 0.65 gal/ft
 6" well - 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK ENERCON Project #: GRDA-

Well Number: mw 93-2	Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.	ENERCON Sampling Personnel: Caleb Cope	Other Personnel: B. MOORE
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Latitude/ Longitude: N E	Depth to Free Product:	Depth to Water: 8.01	Total Depth of Well: 17.74	Screened Interval: ?
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Date Started: 11-30-23	Date Finished:	Pump/Tubing Inlet Depth: 12.88'	Well Casing Diameter: 2"
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Sample Collection Time: 1345	Duplicate Sample Name:	Duplicate Collection Time:
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Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
1310	150	—	18.80	9.95	13,958	1.75	-202	1.33	8.02	
1315	" "	750	18.46	9.98	13,960	1.01	-211.6	.66	8.02	
1320	↓	1500	18.25	9.97	13,960	.63	-220	.54	8.02	
1325		2250	18.13	9.90	13,972	.58	-224.6	.69	8.02	
1330		3000	18.54	9.99	13,979	.49	-229.5	1.0	8.02	
1335		3750	18.64	10.00	13,980	.44	-232.1	.97	8.02	
1340		4500	18.62	10.00	13,970	.40	-257.4	.50	8.02	

Volume = H x conversion factor Volume Conversion factors 2" well - 0.163 gal/ft 4" well - 0.65 gal/ft 6" well - 1.47 gal/ft	Water Quality Instrument details YSI™ Multimeter SN: 13K102703 Scientific™ Turbidimeter SN: 202002618
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Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK ENERCON Project #: GRDA-

Well Number: <i>MW22-02</i>	Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings<.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.	ENERCON Sampling Personnel: <i>Caleb Cope</i>	Other Personnel: <i>B. Moore</i>
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Latitude/ Longitude: N E	Depth to Free Product:	Depth to Water: <i>13.6</i>	Total Depth of Well: <i>26.98</i>	Screened Interval: <i>12.06 - 26.98</i>
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Date Started: <i>11-30-23</i>	Date Finished:	Pump/Tubing Inlet Depth: <i>20</i>	Well Casing Diameter:
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Sample Collection Time: <i>1435</i>		Duplicate Sample Name:			Duplicate Collection Time:				
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Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
<i>1410</i>	<i>200</i>	<i>-</i>	<i>16.01</i>	<i>7.57</i>	<i>7922</i>	<i>5.09</i>	<i>5.7</i>	<i>.84</i>	<i>13.71</i>	<i>Slowed</i>
<i>1415</i>	<i>150</i>	<i>1000</i>	<i>14.54</i>	<i>7.36</i>	<i>7812</i>	<i>4.47</i>	<i>55.1</i>	<i>2.20</i>	<i>13.82</i>	<i>Slowed</i>
<i>1420</i>	<i>100</i>	<i>1750</i>	<i>14.48</i>	<i>7.34</i>	<i>7789</i>	<i>4.33</i>	<i>61.5</i>	<i>2.33</i>	<i>13.84</i>	
<i>1425</i>	<i>"</i>	<i>2250</i>	<i>14.44</i>	<i>7.31</i>	<i>7811</i>	<i>4.46</i>	<i>70.4</i>	<i>2.59</i>	<i>13.85</i>	
<i>1430</i>	<i>" "</i>	<i>2750</i>	<i>14.47</i>	<i>7.30</i>	<i>7806</i>	<i>4.40</i>	<i>72.1</i>	<i>1.96</i>	<i>13.85</i>	

Volume = H x conversion factor
Volume Conversion factors
 2" well – 0.163 gal/ft
 4" well – 0.65 gal/ft
 6" well – 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK							ENERCON Project #: GRDA-				
Well Number: <i>MW 22-03</i>		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.					ENERCON Sampling Personnel: Caleb Cope		Other Personnel: <i>B. Moore</i>		
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: <i>6.60</i>			Total Depth of Well: <i>17.40</i>		Screened Interval: <i>7-17.4</i>		
Date Started: <i>11-30-23</i>		Date Finished:		Pump/Tubing Inlet Depth: <i>12'</i>		Well Casing Diameter:					
Sample Collection Time: <i>1535</i>				Duplicate Sample Name:			Duplicate Collection Time:				
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks	
<i>1505</i>	<i>150</i>	<i>750</i>	<i>14.10</i>	<i>7.08</i>	<i>2904</i>	<i>3.40</i>	<i>89.4</i>	<i>3.95</i>	<i>6.61</i>		
<i>1510</i>	"	<i>1500</i>	<i>13.69</i>	<i>6.89</i>	<i>2887</i>	<i>2.48</i>	<i>130.7</i>	<i>2.52</i>	<i>6.61</i>		
<i>1515</i>		<i>2250</i>	<i>14.12</i>	<i>7.01</i>	<i>3478</i>	<i>1.21</i>	<i>100.4</i>	<i>1.69</i>	<i>6.61</i>		
<i>1520</i>		<i>3000</i>	<i>14.49</i>	<i>7.06</i>	<i>3448</i>	<i>1.13</i>	<i>87.9</i>	<i>1.85</i>	<i>6.61</i>		
<i>1525</i>		<i>3750</i>	<i>14.55</i>	<i>7.06</i>	<i>3426</i>	<i>1.10</i>	<i>85.8</i>	<i>1.79</i>	<i>6.61</i>		
<i>1530</i>	↓	<i>4500</i>	<i>14.67</i>	<i>7.07</i>	<i>3422</i>	<i>1.07</i>	<i>83.7</i>	<i>1.62</i>	<i>6.61</i>		

Volume = H x conversion factor
Volume Conversion factors
 2" well - 0.163 gal/ft
 4" well - 0.65 gal/ft
 6" well - 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK							ENERCON Project #: GRDA-			
Well Number: <i>mw 03-02</i>		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings<.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.					ENERCON Sampling Personnel: Caleb Cope		Other Personnel: <i>B. Moore</i>	
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: <i>16.16</i>		Total Depth of Well: <i>28.80</i>		Screened Interval: <i>16.41-26.80</i>		
Date Started: <i>12-1-23</i>		Date Finished:		Pump/Tubing Inlet Depth: <i>21"</i>		Well Casing Diameter:				
Sample Collection Time: <i>0845</i>			Duplicate Sample Name:			Duplicate Collection Time:				
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
<i>0820</i>	<i>200</i>	<i>—</i>	<i>17.33</i>	<i>6.73</i>	<i>1832</i>	<i>4.75</i>	<i>143</i>	<i>.24</i>	<i>16.30</i>	<i>Spwed</i>
<i>0825</i>	<i>150</i>	<i>1000</i>	<i>16.59</i>	<i>6.70</i>	<i>1815</i>	<i>3.34</i>	<i>125.9</i>	<i>1.08</i>	<i>16.32</i>	
<i>0830</i>	<i>" "</i>	<i>1750</i>	<i>16.5</i>	<i>6.71</i>	<i>1810</i>	<i>3.02</i>	<i>115</i>	<i>1.02</i>	<i>16.32</i>	
<i>0835</i>	<i>↓</i>	<i>2500</i>	<i>15.92</i>	<i>6.70</i>	<i>1813</i>	<i>2.82</i>	<i>109.7</i>	<i>.62</i>	<i>16.32</i>	
<i>0840</i>	<i>↓</i>	<i>3250</i>	<i>16.25</i>	<i>6.70</i>	<i>1813</i>	<i>2.75</i>	<i>107.1</i>	<i>.42</i>	<i>16.32</i>	

Volume = H x conversion factor
Volume Conversion factors
 2" well – 0.163 gal/ft
 4" well – 0.65 gal/ft
 6" well – 1.47 gal/ft

Water Quality Instrument details

YSI™ Multimeter SN: 13K102703

Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK						ENERCON Project #: GRDA-				
Well Number: <i>MW 22-06</i>		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.				ENERCON Sampling Personnel: Caleb Cope		Other Personnel: <i>B. Moore</i>		
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: <i>22.87</i>		Total Depth of Well: <i>28.51</i>		Screened Interval: <i>13.56 - 28.51</i>		
Date Started: <i>12-1-23</i>		Date Finished:		Pump/Tubing Inlet Depth: <i>25'</i>		Well Casing Diameter:				
Sample Collection Time: <i>0945</i>				Duplicate Sample Name:		Duplicate Collection Time:				
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/ remarks
<i>0915</i>	<i>200</i>	<i>—</i>	<i>15.49</i>	<i>6.91</i>	<i>1016</i>	<i>3.02</i>	<i>92.8</i>	<i>.12</i>	<i>22.96</i>	<i>Slowed</i>
<i>0920</i>	<i>150</i>	<i>1000</i>	<i>15.39</i>	<i>6.81</i>	<i>1028</i>	<i>1.80</i>	<i>99.5</i>	<i>0.15</i>	<i>23.0</i>	<i>Slowed</i>
<i>0925</i>	<i>100</i>	<i>1500</i>	<i>15.47</i>	<i>6.83</i>	<i>1110</i>	<i>1.39</i>	<i>97.0</i>	<i>0.07</i>	<i>23.0</i>	
<i>0930</i>	<i>" "</i>	<i>2000</i>	<i>16.15</i>	<i>6.83</i>	<i>1290</i>	<i>1.04</i>	<i>88.6</i>	<i>0.08</i>	<i>23.08</i>	
<i>0935</i>	<i>↓</i>	<i>2500</i>	<i>16.10</i>	<i>6.85</i>	<i>1348</i>	<i>1.07</i>	<i>84.4</i>	<i>0.07</i>	<i>23.09</i>	
<i>0940</i>	<i>↓</i>	<i>3000</i>	<i>16.37</i>	<i>6.86</i>	<i>1383</i>	<i>1.00</i>	<i>81.7</i>	<i>0.09</i>	<i>23.11</i>	

Volume = H x conversion factor
Volume Conversion factors
 2" well – 0.163 gal/ft
 4" well – 0.65 gal/ft
 6" well – 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidity meter SN: 202002618



Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK						ENERCON Project #: GRDA-					
Well Number: <i>MW23-01</i>		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.						ENERCON Sampling Personnel: Caleb Cope		Other Personnel: <i>B. Moore</i>	
Latitude/ Longitude: N E			Depth to Free Product:		Depth to Water: <i>19.97</i>		Total Depth of Well: <i>27.22</i>		Screened Interval: <i>12-27</i>		
Date Started: <i>12-1-23</i>		Date Finished:			Pump/Tubing Inlet Depth: <i>23'</i>		Well Casing Diameter:				
Sample Collection Time: <i>10:40</i>				Duplicate Sample Name:				Duplicate Collection Time:			
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks	
<i>1005</i>	<i>150</i>	—	<i>16.03</i>	<i>6.70</i>	<i>1821</i>	<i>1.80</i>	<i>96.4</i>	<i>14.71</i>	<i>20.00</i>		
<i>1010</i>	<i>" "</i>	<i>750</i>	<i>16.34</i>	<i>6.70</i>	<i>1825</i>	<i>1.01</i>	<i>91.7</i>	<i>14.07</i>	<i>20.00</i>		
<i>1015</i>		<i>1500</i>	<i>16.35</i>	<i>6.71</i>	<i>1832</i>	<i>.94</i>	<i>84.6</i>	<i>14.41</i>	<i>20.0</i>		
<i>1020</i>		<i>2250</i>	<i>16.44</i>	<i>6.72</i>	<i>1840</i>	<i>.79</i>	<i>80.1</i>	<i>15.60</i>	<i>20.0</i>		
<i>1025</i>		<i>3000</i>	<i>16.49</i>	<i>6.73</i>	<i>1840</i>	<i>.73</i>	<i>77.7</i>	<i>15.52</i>	<i>20.0</i>		
<i>1030</i>		<i>3750</i>	<i>16.48</i>	<i>6.74</i>	<i>1843</i>	<i>0.70</i>	<i>75.9</i>	<i>15.57</i>	<i>20.0</i>		
<i>1035</i>		<i>4500</i>	<i>16.49</i>	<i>6.74</i>	<i>1841</i>	<i>0.68</i>	<i>75.0</i>	<i>15.20</i>	<i>20.0</i>		

Volume = H x conversion factor
Volume Conversion factors
 2" well – 0.163 gal/ft
 4" well – 0.65 gal/ft
 6" well – 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK					ENERCON Project #: GRDA-					
Well Number: MW 23-02		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings<.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.					ENERCON Sampling Personnel: Caleb Cope		Other Personnel: B. Moore	
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: 18.32		Total Depth of Well: 25.11		Screened Interval: 15-22 25.11		
Date Started: 12-1-23		Date Finished:		Pump/Tubing Inlet Depth: 21		Well Casing Diameter:				
Sample Collection Time: 1130				Duplicate Sample Name:		Duplicate Collection Time:				
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
1100	250	—	16.51	6.44	1585	3.05	118.9	4.01	18.45	slowed
1105	200	1250	16.15	6.25	1582	2.47	120.4	0.74	18.44	
1110	" "	2250	16.04	6.23	1590	2.35	116.3	0.95	18.44	
1115	↓	3250	16.30	6.23	1585	2.06	112.4	5.30	18.44	
1120	↓	4250	16.20	6.23	1584	1.95	109.8	3.58	18.44	
1125	↓	5250	16.36	6.22	1585	1.97	108.4	2.33	18.44	

Volume = H x conversion factor
Volume Conversion factors
 2" well – 0.163 gal/ft
 4" well – 0.65 gal/ft
 6" well – 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK						ENERCON Project #: GRDA-				
Well Number: <i>MW 22-05</i>		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings<.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.				ENERCON Sampling Personnel: <i>Caleb Cope</i>		Other Personnel: <i>B. MOORE</i>		
Latitude/ Longitude: N <i>12-123E</i>		Depth to Free Product:		Depth to Water: <i>10.14</i>		Total Depth of Well: <i>22.05</i>		Screened Interval: <i>7-22.05</i>		
Date Started: <i>11-20-23</i>		Date Finished:		Pump/Tubing Inlet Depth: <i>16</i>		Well Casing Diameter:				
Sample Collection Time: <i>1335</i>				Duplicate Sample Name:			Duplicate Collection Time:			
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
<i>1305</i>	<i>200</i>		<i>16.52</i>	<i>6.87</i>	<i>4014</i>	<i>3.40</i>	<i>58.0</i>	<i>0.61</i>	<i>10.17</i>	<i>Slowed</i>
<i>1310</i>	<i>150</i>	<i>1000</i>	<i>16.62</i>	<i>6.90</i>	<i>4044</i>	<i>1.42</i>	<i>78.3</i>	<i>0.08</i>	<i>10.19</i>	
<i>1315</i>	<i>"</i>	<i>1750</i>	<i>16.70</i>	<i>6.93</i>	<i>4042</i>	<i>1.13</i>	<i>71.0</i>	<i>0.20</i>	<i>10.19</i>	
<i>1320</i>	<i>"</i>	<i>2500</i>	<i>16.83</i>	<i>6.92</i>	<i>4039</i>	<i>0.99</i>	<i>68.0</i>	<i>0.17</i>	<i>10.21</i>	
<i>1325</i>	<i>"</i>	<i>3250</i>	<i>16.92</i>	<i>6.93</i>	<i>4033</i>	<i>.93</i>	<i>58.9</i>	<i>.29</i>	<i>10.21</i>	
<i>1330</i>	<i>"</i>	<i>4000</i>	<i>16.90</i>	<i>6.93</i>	<i>4035</i>	<i>0.91</i>	<i>58.2</i>	<i>0.34</i>	<i>10.21</i>	

Volume = H x conversion factor
Volume Conversion factors
 2" well – 0.163 gal/ft
 4" well – 0.65 gal/ft
 6" well – 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK						ENERCON Project #: GRDA-					
Well Number: MW22-08		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings<.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.				ENERCON Sampling Personnel: Caleb Cope		Other Personnel: B. Moore			
Latitude/ Longitude: N E		Depth to Free Product:		Depth to Water: 8.07		Total Depth of Well: 19.91		Screened Interval: 9.95-19.91			
Date Started: 12-1-23		Date Finished:		Pump/Tubing Inlet Depth: 15		Well Casing Diameter:					
Sample Collection Time: 1420				Duplicate Sample Name:			Duplicate Collection Time:				
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks	
1355	200	—	17.67	7.38	1886	1.79	76.4	2.78	8.17	slowed	
1400	150	1000	17.30	7.32	1863	1.37	90.6	2.07	8.15		
1405	" "	1750	17.20	7.31	1863	1.26	91.8	2.79	8.16		
1410	" "	1500	17.17	7.31	1864	1.20	89.4	3.01	8.16		
1415	" "	2250	17.45	7.31	1867	1.15	88.6	2.87	8.16		

Volume = H x conversion factor
Volume Conversion factors
 2" well – 0.163 gal/ft
 4" well – 0.65 gal/ft
 6" well – 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK							ENERCON Project #: GRDA-			
Well Number: MW 23-03		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.					ENERCON Sampling Personnel: Caleb Cope		Other Personnel: B. Moore	
Latitude/ Longitude: N E			Depth to Free Product:		Depth to Water: 10.89		Total Depth of Well: 14.29		Screened Interval: 4.29-14.29	
Date Started: 12-1-23		Date Finished:			Pump/Tubing Inlet Depth: 13'		Well Casing Diameter:			
Sample Collection Time: 1530			Duplicate Sample Name:				Duplicate Collection Time:			
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
1450	150	—	15.49	7.43	568	3.39	75.8	10.51	10.99	40.99 - 56.44
1455	100	750	15.49	7.37	546	2.58	78.7	9.95	11.24	
1500	" "	1250	15.15.30	7.37	549	2.59	78.7	9.17	11.40	
1505		1750	16.84	7.38	547	2.21	76.9	5.97	11.61	
1510		2250	16.87	7.40	552	1.91	74.1	4.21	11.85	
1515		2750	16.88	7.40	553	1.75	72.7	3.17	12.01	
1520		3250	16.88	7.40	554	1.72	71.4	2.01	12.10	
1525	" "	3750	16.82	7.40	555	1.65	71.1	2.09	12.21	

11.48 = DTW
MW 03-1 @ 1535

Volume = H x conversion factor
Volume Conversion factors
2" well – 0.163 gal/ft
4" well – 0.65 gal/ft
6" well – 1.47 gal/ft

Water Quality Instrument details
YSI™ Multimeter SN: 13K102703
Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK ENERCON Project #: GRDA-

Well Number: MW23-04	Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.	ENERCON Sampling Personnel: Caleb Cope	Other Personnel: Branden Moore
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Latitude/ Longitude: N E	Depth to Free Product:	Depth to Water: 17.12	Total Depth of Well: 21.75	Screened Interval: 6.75-21.75
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Date Started: 12-4-23	Date Finished:	Pump/Tubing Inlet Depth: 19.5'	Well Casing Diameter:
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Sample Collection Time: 0920	Duplicate Sample Name:	Duplicate Collection Time:
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Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
0845	150	-	13.85	6.77	520	6.35	209	.11	17.22	
0850	150	750	14.70	6.87	503	3.53	189.8	0.49	17.29	Slowed
0855	100	1250	14.85	6.94	507	3.41	170.6	0.32	17.34	
0900	100	1750	14.52	6.97	507	3.77	161.0	0.66	17.36	
-0905	100	2250	14.65	6.99	509	3.46	149.4	0.40	17.40	
0910	100	2750	14.67	7.00	509	3.26	141.5	0.57	17.43	
0915	100	3250	14.61	7.02	512	3.41	135.8	0.25	17.46	

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Volume = H x conversion factor
Volume Conversion factors
 2" well - 0.163 gal/ft
 4" well - 0.65 gal/ft
 6" well - 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK

ENERCON Project #: GRDA-

Well Number:

MW 23-05

Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings<.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.

ENERCON Sampling Personnel:

Caleb Cope

Other Personnel:

B. Moore

Latitude/ Longitude:
N E

Depth to Free Product:

Depth to Water: 1769

Total Depth of Well: 2185

Screened Interval: 6-21.85

Date Started: 12-4-23

Date Finished:

Pump/Tubing Inlet Depth: 20'

Well Casing Diameter:

Sample Collection Time: 1025

Duplicate Sample Name:

Duplicate Collection Time:

Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
1000	150	—	14.08	6.68	685	4.46	116.0	0.24	17.76	
1005	150	750	13.63	6.68	697	3.70	120.2	0.30	17.80	Slowed
1010	100	1250	13.39	6.63	700	3.36	122.1	0.34	17.80	
1015	108	1750	13.14	6.63	702	3.32	121.5	0.36	17.79	
1020	100	2250	11.86	6.61	713	3.34	120.8	0.26	17.80	

Volume = H x conversion factor
Volume Conversion factors
2" well - 0.163 gal/ft
4" well - 0.65 gal/ft
6" well - 1.47 gal/ft

Water Quality Instrument details
YSI™ Multimeter SN: 13K102703
Scientific™ Turbidimeter SN: 202002618

Dup collected @ this well!

Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK

ENERCON Project #: GRDA-

Well Number: MW 23-06

Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.

ENERCON Sampling Personnel: Caleb Cope

Other Personnel: B. Moore

Latitude/ Longitude: N E

Depth to Free Product:

Depth to Water: 9.51

Total Depth of Well: 19.91

Screened Interval: 10 – 20' ±

Date Started: 12-4-23

Date Finished:

Pump/Tubing Inlet Depth: 16'

Well Casing Diameter:

Sample Collection Time: 1145

Duplicate Sample Name: DUP @ 0000

Duplicate Collection Time:

Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
1115	150	—	15.44	7.32	1089	2.02	110.9	3.52	9.65	
1120	" "	750	15.66	7.31	1102	1.26	113.2	3.38	9.66	
1125	↓	1500	15.76	7.30	1104	1.13	114.2	4.18	9.67	
1130		2250	15.86	7.29	1104	0.98	117.0	3.90	9.68	
1135		3000	15.97	7.32	1105	.90	108	2.04	9.69	
1140		3750	16.03	7.32	1104	.90	95.7	2.31	9.70	

Volume = H x conversion factor
Volume Conversion factors
2" well – 0.163 gal/ft
4" well – 0.65 gal/ft
6" well – 1.47 gal/ft

Water Quality Instrument details
YSI™ Multimeter SN: 13K102703
Scientific™ Turbidimeter SN: 202002618

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Groundwater Well Sampling Record

PROJECT: GRDA - Grand River Energy Center, Chouteau, OK						ENERCON Project #: GRDA-					
Well Number: <i>MW2207</i>		Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.						ENERCON Sampling Personnel: Caleb Cope		Other Personnel: <i>B. Moore</i>	
Latitude/ Longitude: N _____ E _____			Depth to Free Product:		Depth to Water: <i>19.50</i>		Total Depth of Well: <i>25.02</i>		Screened Interval: <i>10 - 25'</i>		
Date Started: <i>12-4-13</i>		Date Finished:			Pump/Tubing Inlet Depth: <i>22'</i>		Well Casing Diameter:				
Sample Collection Time: <i>1305</i>				Duplicate Sample Name:				Duplicate Collection Time:			
Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks	
<i>1235</i>	<i>150</i>	—	<i>16.98</i>	<i>7.04</i>	<i>1190</i>	<i>1.44</i>	<i>85.7</i>	<i>4.51</i>	<i>19.56</i>		
<i>1240</i>	<i>" "</i>	<i>750</i>	<i>16.39</i>	<i>7.02</i>	<i>1191</i>	<i>1.01</i>	<i>80.7</i>	<i>2.42</i>	<i>19.56</i>		
<i>1245</i>		<i>1500</i>	<i>15.80</i>	<i>7.01</i>	<i>1191</i>	<i>.90</i>	<i>75.5</i>	<i>1.66</i>	<i>19.56</i>		
<i>1250</i>		<i>2250</i>	<i>16.33</i>	<i>7.00</i>	<i>1185</i>	<i>1.19</i>	<i>74.3</i>	<i>2.03</i>	<i>19.55</i>		
<i>1255</i>		<i>3000</i>	<i>16.68</i>	<i>7.01</i>	<i>1192</i>	<i>1.16</i>	<i>70.5</i>	<i>1.54</i>	<i>19.55</i>		
<i>1300</i>		<i>3750</i>	<i>16.77</i>	<i>7.01</i>	<i>1191</i>	<i>1.10</i>	<i>69.9</i>	<i>1.22</i>	<i>19.55</i>		

Volume = H x conversion factor
Volume Conversion factors
 2" well - 0.163 gal/ft
 4" well - 0.65 gal/ft
 6" well - 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Groundwater Well Sampling Record

PROJECT: GRDA – Grand River Energy Center, Chouteau, OK ENERCON Project #: GRDA-

Well Number: MW 93-1	Purging Methods: Purge to stabilization pH +/- 0.1, conductivity +/- 3%. Turbidity 10% if >5 NTU, or three readings <5 NTU. Dissolved Oxygen 10% if >.5mg/l, or 3 readings <.5mg/l. Well purging, groundwater parameter data collection and sample collection utilizing a Geotech™ peristaltic pump, YSI™ 556 MPS groundwater quality probe, and Scientific™ water turbidity meter.	ENERCON Sampling Personnel: Caleb Cope	Other Personnel: B. Moore
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Latitude/ Longitude: N E	Depth to Free Product:	Depth to Water: 10.66	Total Depth of Well: 15.79	Screened Interval: 10.72-15.79
Date Started: 12-4-23	Date Finished:	Pump/Tubing Inlet Depth: 13'	Well Casing Diameter:	

Sample Collection Time: **1435** Duplicate Sample Name: Duplicate Collection Time:

Parameter Check Time	Discharge Rate (ml/min)	Cumulative Purge Volume (ml)	H ₂ O Temp. (C°)	pH	Specific Conductance (uohm/cm)	DO (mg/L)	ORP	Turbidity (NTU)	DTW (ft)	Pump setting/adjustments/remarks
1345	150	—	16.79	6.97	1404	3.35	159.9	7.40	10.69	
1350	" "	750	16.95	6.61	1350	2.05	370.0	5.85	10.70	
1355	" "	1500	16.88	6.55	1333	1.90	428.4	2.98	10.70	
1400	" "	2250	17.12	6.56	1335	1.70	435.9	1.76	10.70	
1405	" "	3000	17.29	6.56	1340	1.47	433.1	2.25	10.70	
1410	" "	3750	17.31	6.56	1342	1.37	432.7	1.59	10.70	
1415	" "	4500	17.43	6.58	1349	1.14	406.2	1.01	10.70	
1420	" "	5250	17.37	6.60	1351	1.09	396.6	2.71	10.70	
1425	" "	6000	17.52	6.60	1352	1.05	390.1	1.97	10.70	
1430	" "	6750	17.51	6.60	1356	1.04	385.5	1.25	10.70	

Volume = H x conversion factor
Volume Conversion factors
 2" well – 0.163 gal/ft
 4" well – 0.65 gal/ft
 6" well – 1.47 gal/ft

Water Quality Instrument details
 YSI™ Multimeter SN: 13K102703
 Scientific™ Turbidimeter SN: 202002618

Attachment B
Laboratory Analytical Reports

Enercon - Oklahoma City, OK

Sample Delivery Group: L1612964
Samples Received: 05/05/2023
Project Number: GRDA
Description: GREC, Chouteau, OK

Report To: Rusty Lynch
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Entire Report Reviewed By:



Jason Romer
Project Manager

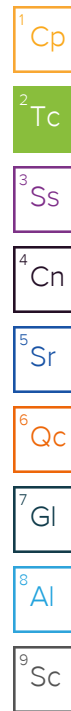
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory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

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

MW22-01 L1612964-01 WW

Collected by: Caleb Cope
 Collected date/time: 05/03/23 10:00
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2056431	1	05/09/23 11:07	05/09/23 15:22	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058766	1	05/12/23 11:25	05/12/23 11:25	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058595	1	05/12/23 01:36	05/12/23 01:36	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058595	5	05/12/23 01:52	05/12/23 01:52	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 10:47	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 12:59	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2055108	1	05/08/23 17:11	05/09/23 16:09	LD	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

MW22-05 L1612964-02 WW

Collected by: Caleb Cope
 Collected date/time: 05/03/23 10:55
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2056431	1	05/09/23 11:07	05/09/23 15:22	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058766	1	05/12/23 11:29	05/12/23 11:29	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058595	1	05/12/23 02:08	05/12/23 02:08	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058595	10	05/12/23 14:02	05/12/23 14:02	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 10:49	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 13:02	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2055108	1	05/08/23 17:11	05/09/23 16:13	LD	Mt. Juliet, TN

6 Qc

7 Gl

8 Al

9 Sc

MW03-2 L1612964-03 WW

Collected by: Caleb Cope
 Collected date/time: 05/03/23 12:50
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2056431	1	05/09/23 11:07	05/09/23 15:22	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058766	1	05/12/23 11:34	05/12/23 11:34	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058595	1	05/12/23 03:11	05/12/23 03:11	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058595	5	05/12/23 03:28	05/12/23 03:28	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 10:51	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 13:05	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2055108	1	05/08/23 17:11	05/09/23 16:16	LD	Mt. Juliet, TN

MW22-06 L1612964-04 WW

Collected by: Caleb Cope
 Collected date/time: 05/03/23 13:40
 Received date/time: 05/05/23 09:30

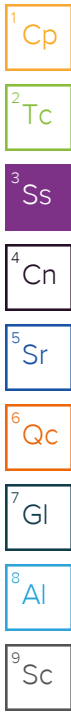
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2056431	1	05/09/23 11:07	05/09/23 15:22	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058770	1	05/12/23 10:41	05/12/23 10:41	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058595	1	05/12/23 03:44	05/12/23 03:44	LBR	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058595	5	05/12/23 04:00	05/12/23 04:00	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 10:53	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 13:08	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2055108	1	05/08/23 17:11	05/09/23 16:19	LD	Mt. Juliet, TN

SAMPLE SUMMARY

MW03-01 L1612964-05 WW

Collected by: Caleb Cope
 Collected date/time: 05/03/23 14:55
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2056431	1	05/09/23 11:07	05/09/23 15:22	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058770	1	05/12/23 10:46	05/12/23 10:46	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058595	1	05/12/23 04:15	05/12/23 04:15	LBR	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 10:55	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 13:11	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2055108	1	05/08/23 17:11	05/09/23 16:22	LD	Mt. Juliet, TN



MW22-08 L1612964-06 WW

Collected by: Caleb Cope
 Collected date/time: 05/03/23 16:05
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2056431	1	05/09/23 11:07	05/09/23 15:22	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058770	1	05/12/23 10:51	05/12/23 10:51	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058849	5	05/13/23 05:50	05/13/23 05:50	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 10:57	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 13:14	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2055108	1	05/08/23 17:11	05/09/23 16:26	LD	Mt. Juliet, TN

MW93-3 L1612964-07 WW

Collected by: Caleb Cope
 Collected date/time: 05/03/23 17:00
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2056431	1	05/09/23 11:07	05/09/23 15:22	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058770	1	05/12/23 10:57	05/12/23 10:57	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058849	5	05/13/23 06:44	05/13/23 06:44	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 10:30	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 13:17	ABL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 11:03	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 12:11	JPD	Mt. Juliet, TN

BLIND DUP L1612964-08 WW

Collected by: Caleb Cope
 Collected date/time: 05/03/23 00:00
 Received date/time: 05/05/23 09:30

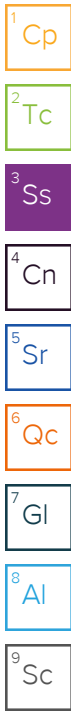
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2056431	1	05/09/23 11:07	05/09/23 15:22	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058770	1	05/12/23 11:01	05/12/23 11:01	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058849	5	05/13/23 07:12	05/13/23 07:12	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 10:59	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 14:50	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 11:06	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 12:14	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	5	05/10/23 16:03	05/11/23 11:52	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

MW22-07 L1612964-09 WW

Collected by: Caleb Cope
 Collected date/time: 05/04/23 08:20
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2057102	1	05/10/23 06:31	05/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058770	1	05/12/23 11:07	05/12/23 11:07	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058849	1	05/13/23 07:39	05/13/23 07:39	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 11:01	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 14:53	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 11:09	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 12:18	JPD	Mt. Juliet, TN



MW22-03 L1612964-10 WW

Collected by: Caleb Cope
 Collected date/time: 05/04/23 09:25
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2057102	1	05/10/23 06:31	05/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058770	1	05/12/23 11:20	05/12/23 11:20	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058849	10	05/13/23 08:21	05/13/23 08:21	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058849	5	05/13/23 08:07	05/13/23 08:07	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 11:03	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 14:57	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 10:30	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 11:52	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	5	05/10/23 16:03	05/11/23 11:48	JPD	Mt. Juliet, TN

MW93-2 L1612964-11 WW

Collected by: Caleb Cope
 Collected date/time: 05/04/23 10:15
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2057102	1	05/10/23 06:31	05/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058770	1	05/12/23 11:25	05/12/23 11:25	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058849	10	05/13/23 08:34	05/13/23 08:34	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2058849	100	05/13/23 09:14	05/13/23 09:14	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 11:09	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 15:00	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 11:12	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 12:21	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	5	05/10/23 16:03	05/11/23 11:55	JPD	Mt. Juliet, TN

MW22-02 L1612964-12 WW

Collected by: Caleb Cope
 Collected date/time: 05/04/23 11:05
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2057102	1	05/10/23 06:31	05/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058770	1	05/12/23 11:31	05/12/23 11:31	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2059059	10	05/12/23 17:43	05/12/23 17:43	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2059059	100	05/12/23 17:57	05/12/23 17:57	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 11:11	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 15:03	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 11:16	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 12:24	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	5	05/10/23 16:03	05/11/23 11:58	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

MW22-04 L1612964-13 WW

Collected by: Caleb Cope
 Collected date/time: 05/04/23 11:55
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2057102	1	05/10/23 06:31	05/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058770	1	05/12/23 11:36	05/12/23 11:36	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2059059	1	05/12/23 18:11	05/12/23 18:11	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2059059	5	05/12/23 18:52	05/12/23 18:52	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 11:13	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 15:06	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 11:19	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 12:27	JPD	Mt. Juliet, TN

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

MW93-1 L1612964-14 WW

Collected by: Caleb Cope
 Collected date/time: 05/04/23 13:25
 Received date/time: 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2057102	1	05/10/23 06:31	05/10/23 15:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2058138	1	05/12/23 15:05	05/12/23 15:05	ARD	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2058770	1	05/12/23 11:41	05/12/23 11:41	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2059059	1	05/12/23 19:06	05/12/23 19:06	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2059059	5	05/12/23 19:19	05/12/23 19:19	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2055701	1	05/08/23 18:17	05/09/23 11:15	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2055090	1	05/11/23 23:43	05/12/23 15:09	SPL	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 11:22	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2057383	1	05/10/23 16:03	05/11/23 12:31	JPD	Mt. Juliet, TN

CASE NARRATIVE

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



Jason Romer
Project Manager

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1010		20.0	1	05/09/2023 15:22	WG2056431

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1440		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-01 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	517		8.45	20.0	1	05/12/2023 11:25	WG2058766

Sample Narrative:

L1612964-01 WG2058766: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	9.35		0.379	1.00	1	05/12/2023 01:36	WG2058595
Fluoride	0.164		0.0640	0.150	1	05/12/2023 01:36	WG2058595
Sulfate	341		2.97	25.0	5	05/12/2023 01:52	WG2058595

Mercury by Method 245.1

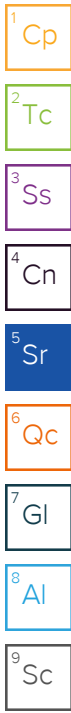
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 10:47	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.154	J	0.0396	0.200	1	05/12/2023 12:59	WG2055090
Lithium	0.00691	J	0.00689	0.0150	1	05/12/2023 12:59	WG2055090

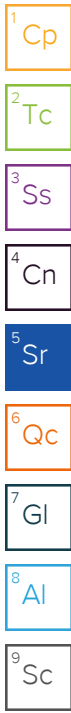
Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/09/2023 16:09	WG2055108
Arsenic	0.000330	J	0.000195	0.00100	1	05/09/2023 16:09	WG2055108
Barium	0.0363		0.000476	0.00500	1	05/09/2023 16:09	WG2055108
Beryllium	U		0.000201	0.00100	1	05/09/2023 16:09	WG2055108
Cadmium	U		0.000160	0.00100	1	05/09/2023 16:09	WG2055108
Calcium	266		0.112	1.00	1	05/09/2023 16:09	WG2055108
Chromium	U		0.00560	0.0200	1	05/09/2023 16:09	WG2055108
Cobalt	0.00293		0.000142	0.00200	1	05/09/2023 16:09	WG2055108
Lead	U		0.000513	0.00200	1	05/09/2023 16:09	WG2055108
Molybdenum	U		0.000841	0.00500	1	05/09/2023 16:09	WG2055108
Selenium	U		0.000437	0.00200	1	05/09/2023 16:09	WG2055108
Sodium	23.5		0.513	2.00	1	05/09/2023 16:09	WG2055108
Thallium	U		0.000176	0.00100	1	05/09/2023 16:09	WG2055108



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	2320		50.0	1	05/09/2023 15:22	WG2056431



Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	3860		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-02 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	294		8.45	20.0	1	05/12/2023 11:29	WG2058766

Sample Narrative:

L1612964-02 WG2058766: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	1040		3.79	10.0	10	05/12/2023 14:02	WG2058595
Fluoride	0.133	J	0.0640	0.150	1	05/12/2023 02:08	WG2058595
Sulfate	86.0		0.594	5.00	1	05/12/2023 02:08	WG2058595

Mercury by Method 245.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 10:49	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	05/12/2023 13:02	WG2055090
Lithium	0.0106	J	0.00689	0.0150	1	05/12/2023 13:02	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/09/2023 16:13	WG2055108
Arsenic	U		0.000195	0.00100	1	05/09/2023 16:13	WG2055108
Barium	0.307		0.000476	0.00500	1	05/09/2023 16:13	WG2055108
Beryllium	U		0.000201	0.00100	1	05/09/2023 16:13	WG2055108
Cadmium	0.000194	J	0.000160	0.00100	1	05/09/2023 16:13	WG2055108
Calcium	202		0.112	1.00	1	05/09/2023 16:13	WG2055108
Chromium	U		0.00560	0.0200	1	05/09/2023 16:13	WG2055108
Cobalt	U		0.000142	0.00200	1	05/09/2023 16:13	WG2055108
Lead	U		0.000513	0.00200	1	05/09/2023 16:13	WG2055108
Molybdenum	U		0.000841	0.00500	1	05/09/2023 16:13	WG2055108
Selenium	U		0.000437	0.00200	1	05/09/2023 16:13	WG2055108
Sodium	434		0.513	2.00	1	05/09/2023 16:13	WG2055108
Thallium	U		0.000176	0.00100	1	05/09/2023 16:13	WG2055108

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1550		25.0	1	05/09/2023 15:22	WG2056431

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	2220		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-03 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	215		8.45	20.0	1	05/12/2023 11:34	WG2058766

Sample Narrative:

L1612964-03 WG2058766: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	389		1.90	5.00	5	05/12/2023 03:28	WG2058595
Fluoride	0.0814	J	0.0640	0.150	1	05/12/2023 03:11	WG2058595
Sulfate	371		2.97	25.0	5	05/12/2023 03:28	WG2058595

Mercury by Method 245.1

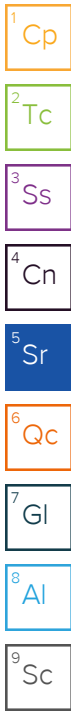
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	0.00212		0.000100	0.000200	1	05/09/2023 10:51	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	05/12/2023 13:05	WG2055090
Lithium	0.0110	J	0.00689	0.0150	1	05/12/2023 13:05	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/09/2023 16:16	WG2055108
Arsenic	U		0.000195	0.00100	1	05/09/2023 16:16	WG2055108
Barium	0.0291		0.000476	0.00500	1	05/09/2023 16:16	WG2055108
Beryllium	U		0.000201	0.00100	1	05/09/2023 16:16	WG2055108
Cadmium	U		0.000160	0.00100	1	05/09/2023 16:16	WG2055108
Calcium	256		0.112	1.00	1	05/09/2023 16:16	WG2055108
Chromium	U		0.00560	0.0200	1	05/09/2023 16:16	WG2055108
Cobalt	U		0.000142	0.00200	1	05/09/2023 16:16	WG2055108
Lead	U		0.000513	0.00200	1	05/09/2023 16:16	WG2055108
Molybdenum	U		0.000841	0.00500	1	05/09/2023 16:16	WG2055108
Selenium	U		0.000437	0.00200	1	05/09/2023 16:16	WG2055108
Sodium	153		0.513	2.00	1	05/09/2023 16:16	WG2055108
Thallium	U		0.000176	0.00100	1	05/09/2023 16:16	WG2055108



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1020		20.0	1	05/09/2023 15:22	WG2056431

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1450		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-04 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	273		8.45	20.0	1	05/12/2023 10:41	WG2058770

Sample Narrative:

L1612964-04 WG2058770: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	161		0.379	1.00	1	05/12/2023 03:44	WG2058595
Fluoride	0.0844	J	0.0640	0.150	1	05/12/2023 03:44	WG2058595
Sulfate	297		2.97	25.0	5	05/12/2023 04:00	WG2058595

Mercury by Method 245.1

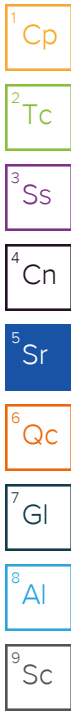
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 10:53	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	05/12/2023 13:08	WG2055090
Lithium	0.00809	J	0.00689	0.0150	1	05/12/2023 13:08	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/09/2023 16:19	WG2055108
Arsenic	0.000455	J	0.000195	0.00100	1	05/09/2023 16:19	WG2055108
Barium	0.0727		0.000476	0.00500	1	05/09/2023 16:19	WG2055108
Beryllium	U		0.000201	0.00100	1	05/09/2023 16:19	WG2055108
Cadmium	0.000338	J	0.000160	0.00100	1	05/09/2023 16:19	WG2055108
Calcium	221		0.112	1.00	1	05/09/2023 16:19	WG2055108
Chromium	U		0.00560	0.0200	1	05/09/2023 16:19	WG2055108
Cobalt	U		0.000142	0.00200	1	05/09/2023 16:19	WG2055108
Lead	U		0.000513	0.00200	1	05/09/2023 16:19	WG2055108
Molybdenum	U		0.000841	0.00500	1	05/09/2023 16:19	WG2055108
Selenium	0.00180	J	0.000437	0.00200	1	05/09/2023 16:19	WG2055108
Sodium	64.8		0.513	2.00	1	05/09/2023 16:19	WG2055108
Thallium	U		0.000176	0.00100	1	05/09/2023 16:19	WG2055108



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	101		10.0	1	05/09/2023 15:22	WG2056431

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	178		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-05 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	77.6		8.45	20.0	1	05/12/2023 10:46	WG2058770

Sample Narrative:

L1612964-05 WG2058770: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	1.65		0.379	1.00	1	05/12/2023 04:15	WG2058595
Fluoride	0.0937	J	0.0640	0.150	1	05/12/2023 04:15	WG2058595
Sulfate	9.79		0.594	5.00	1	05/12/2023 04:15	WG2058595

Mercury by Method 245.1

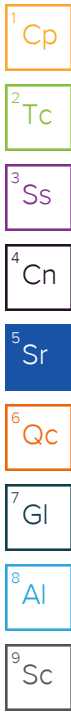
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 10:55	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	05/12/2023 13:11	WG2055090
Lithium	U		0.00689	0.0150	1	05/12/2023 13:11	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/09/2023 16:22	WG2055108
Arsenic	0.000483	J	0.000195	0.00100	1	05/09/2023 16:22	WG2055108
Barium	0.0403		0.000476	0.00500	1	05/09/2023 16:22	WG2055108
Beryllium	U		0.000201	0.00100	1	05/09/2023 16:22	WG2055108
Cadmium	U		0.000160	0.00100	1	05/09/2023 16:22	WG2055108
Calcium	20.5		0.112	1.00	1	05/09/2023 16:22	WG2055108
Chromium	U		0.00560	0.0200	1	05/09/2023 16:22	WG2055108
Cobalt	U		0.000142	0.00200	1	05/09/2023 16:22	WG2055108
Lead	U		0.000513	0.00200	1	05/09/2023 16:22	WG2055108
Molybdenum	0.000984	J	0.000841	0.00500	1	05/09/2023 16:22	WG2055108
Selenium	U		0.000437	0.00200	1	05/09/2023 16:22	WG2055108
Sodium	12.8		0.513	2.00	1	05/09/2023 16:22	WG2055108
Thallium	U		0.000176	0.00100	1	05/09/2023 16:22	WG2055108



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1090		20.0	1	05/09/2023 15:22	WG2056431

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1850		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-06 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	415		8.45	20.0	1	05/12/2023 10:51	WG2058770

Sample Narrative:

L1612964-06 WG2058770: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	207		1.90	5.00	5	05/13/2023 05:50	WG2058849
Fluoride	0.551	J	0.320	0.750	5	05/13/2023 05:50	WG2058849
Sulfate	316		2.97	25.0	5	05/13/2023 05:50	WG2058849

Mercury by Method 245.1

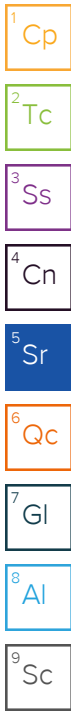
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 10:57	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.174	J	0.0396	0.200	1	05/12/2023 13:14	WG2055090
Lithium	0.0869		0.00689	0.0150	1	05/12/2023 13:14	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/09/2023 16:26	WG2055108
Arsenic	0.000393	J	0.000195	0.00100	1	05/09/2023 16:26	WG2055108
Barium	0.0552		0.000476	0.00500	1	05/09/2023 16:26	WG2055108
Beryllium	U		0.000201	0.00100	1	05/09/2023 16:26	WG2055108
Cadmium	U		0.000160	0.00100	1	05/09/2023 16:26	WG2055108
Calcium	65.5		0.112	1.00	1	05/09/2023 16:26	WG2055108
Chromium	U		0.00560	0.0200	1	05/09/2023 16:26	WG2055108
Cobalt	0.000183	J	0.000142	0.00200	1	05/09/2023 16:26	WG2055108
Lead	U		0.000513	0.00200	1	05/09/2023 16:26	WG2055108
Molybdenum	U		0.000841	0.00500	1	05/09/2023 16:26	WG2055108
Selenium	U		0.000437	0.00200	1	05/09/2023 16:26	WG2055108
Sodium	308		0.513	2.00	1	05/09/2023 16:26	WG2055108
Thallium	U		0.000176	0.00100	1	05/09/2023 16:26	WG2055108



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1150		25.0	1	05/09/2023 15:22	WG2056431

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1990		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-07 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	585		8.45	20.0	1	05/12/2023 10:57	WG2058770

Sample Narrative:

L1612964-07 WG2058770: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	202		1.90	5.00	5	05/13/2023 06:44	WG2058849
Fluoride	0.325	J	0.320	0.750	5	05/13/2023 06:44	WG2058849
Sulfate	176		2.97	25.0	5	05/13/2023 06:44	WG2058849

Mercury by Method 245.1

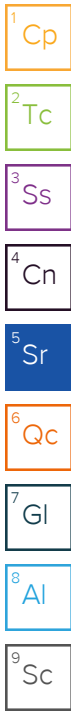
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	0.00165		0.000100	0.000200	1	05/09/2023 10:30	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.0751	J	0.0396	0.200	1	05/12/2023 13:17	WG2055090
Lithium	0.125		0.00689	0.0150	1	05/12/2023 13:17	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/11/2023 11:03	WG2057383
Arsenic	0.000506	J	0.000195	0.00100	1	05/11/2023 11:03	WG2057383
Barium	0.0572		0.000476	0.00500	1	05/11/2023 11:03	WG2057383
Beryllium	U		0.000201	0.00100	1	05/11/2023 11:03	WG2057383
Cadmium	U		0.000160	0.00100	1	05/11/2023 11:03	WG2057383
Calcium	70.8		0.112	1.00	1	05/11/2023 11:03	WG2057383
Chromium	U		0.00560	0.0200	1	05/11/2023 11:03	WG2057383
Cobalt	U		0.000142	0.00200	1	05/11/2023 11:03	WG2057383
Lead	U		0.000513	0.00200	1	05/11/2023 11:03	WG2057383
Molybdenum	U		0.000841	0.00500	1	05/11/2023 11:03	WG2057383
Selenium	U		0.000437	0.00200	1	05/11/2023 11:03	WG2057383
Sodium	326		0.513	2.00	1	05/11/2023 11:03	WG2057383
Thallium	U		0.000176	0.00100	1	05/11/2023 12:11	WG2057383



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	2310		50.0	1	05/09/2023 15:22	WG2056431

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	3780		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-08 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	311		8.45	20.0	1	05/12/2023 11:01	WG2058770

Sample Narrative:

L1612964-08 WG2058770: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	972		1.90	5.00	5	05/13/2023 07:12	WG2058849
Fluoride	U		0.320	0.750	5	05/13/2023 07:12	WG2058849
Sulfate	84.0		2.97	25.0	5	05/13/2023 07:12	WG2058849

Mercury by Method 245.1

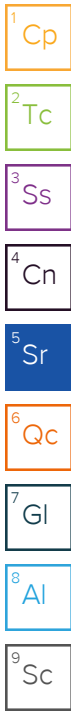
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 10:59	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	05/12/2023 14:50	WG2055090
Lithium	0.0109	J	0.00689	0.0150	1	05/12/2023 14:50	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/11/2023 11:06	WG2057383
Arsenic	U		0.000195	0.00100	1	05/11/2023 11:06	WG2057383
Barium	0.335		0.00238	0.0250	5	05/11/2023 11:52	WG2057383
Beryllium	U		0.000201	0.00100	1	05/11/2023 11:06	WG2057383
Cadmium	0.000197	J	0.000160	0.00100	1	05/11/2023 11:06	WG2057383
Calcium	222		0.112	1.00	1	05/11/2023 11:06	WG2057383
Chromium	U		0.00560	0.0200	1	05/11/2023 11:06	WG2057383
Cobalt	U		0.000142	0.00200	1	05/11/2023 11:06	WG2057383
Lead	U		0.000513	0.00200	1	05/11/2023 11:06	WG2057383
Molybdenum	U		0.000841	0.00500	1	05/11/2023 11:06	WG2057383
Selenium	U		0.000437	0.00200	1	05/11/2023 11:06	WG2057383
Sodium	478		0.513	2.00	1	05/11/2023 11:06	WG2057383
Thallium	U		0.000176	0.00100	1	05/11/2023 12:14	WG2057383



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	459	J3	10.0	1	05/10/2023 15:39	WG2057102

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	761		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-09 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	282		8.45	20.0	1	05/12/2023 11:07	WG2058770

Sample Narrative:

L1612964-09 WG2058770: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	4.64		0.379	1.00	1	05/13/2023 07:39	WG2058849
Fluoride	0.253		0.0640	0.150	1	05/13/2023 07:39	WG2058849
Sulfate	131		0.594	5.00	1	05/13/2023 07:39	WG2058849

Mercury by Method 245.1

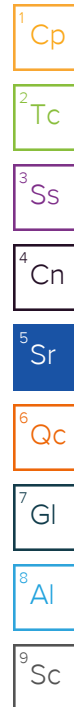
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 11:01	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.0888	J	0.0396	0.200	1	05/12/2023 14:53	WG2055090
Lithium	U		0.00689	0.0150	1	05/12/2023 14:53	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/11/2023 11:09	WG2057383
Arsenic	0.000508	J	0.000195	0.00100	1	05/11/2023 11:09	WG2057383
Barium	0.106		0.000476	0.00500	1	05/11/2023 11:09	WG2057383
Beryllium	U		0.000201	0.00100	1	05/11/2023 11:09	WG2057383
Cadmium	U		0.000160	0.00100	1	05/11/2023 11:09	WG2057383
Calcium	70.4		0.112	1.00	1	05/11/2023 11:09	WG2057383
Chromium	U		0.00560	0.0200	1	05/11/2023 11:09	WG2057383
Cobalt	U		0.000142	0.00200	1	05/11/2023 11:09	WG2057383
Lead	U		0.000513	0.00200	1	05/11/2023 11:09	WG2057383
Molybdenum	U		0.000841	0.00500	1	05/11/2023 11:09	WG2057383
Selenium	0.00266		0.000437	0.00200	1	05/11/2023 11:09	WG2057383
Sodium	86.5		0.513	2.00	1	05/11/2023 11:09	WG2057383
Thallium	U		0.000176	0.00100	1	05/11/2023 12:18	WG2057383



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	3380		100	1	05/10/2023 15:39	WG2057102

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	5910		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-10 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	289		8.45	20.0	1	05/12/2023 11:20	WG2058770

Sample Narrative:

L1612964-10 WG2058770: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	1650		3.79	10.0	10	05/13/2023 08:21	WG2058849
Fluoride	U		0.320	0.750	5	05/13/2023 08:07	WG2058849
Sulfate	116		2.97	25.0	5	05/13/2023 08:07	WG2058849

Mercury by Method 245.1

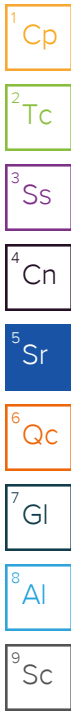
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 11:03	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.110	J	0.0396	0.200	1	05/12/2023 14:57	WG2055090
Lithium	0.247		0.00689	0.0150	1	05/12/2023 14:57	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/11/2023 10:30	WG2057383
Arsenic	0.00235		0.000195	0.00100	1	05/11/2023 10:30	WG2057383
Barium	0.231		0.00238	0.0250	5	05/11/2023 11:48	WG2057383
Beryllium	U		0.000201	0.00100	1	05/11/2023 10:30	WG2057383
Cadmium	U		0.000160	0.00100	1	05/11/2023 10:30	WG2057383
Calcium	246	J5 O1	0.112	1.00	1	05/11/2023 10:30	WG2057383
Chromium	U		0.00560	0.0200	1	05/11/2023 10:30	WG2057383
Cobalt	0.00987		0.000142	0.00200	1	05/11/2023 10:30	WG2057383
Lead	0.000561	J	0.000513	0.00200	1	05/11/2023 10:30	WG2057383
Molybdenum	0.00103	B J	0.000841	0.00500	1	05/11/2023 10:30	WG2057383
Selenium	U		0.000437	0.00200	1	05/11/2023 10:30	WG2057383
Sodium	825	O1 V	0.513	2.00	1	05/11/2023 10:30	WG2057383
Thallium	U		0.000176	0.00100	1	05/11/2023 11:52	WG2057383



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	9020		200	1	05/10/2023 15:39	WG2057102

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	12500		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-11 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	268		8.45	20.0	1	05/12/2023 11:25	WG2058770

Sample Narrative:

L1612964-11 WG2058770: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	1410		3.79	10.0	10	05/13/2023 08:34	WG2058849
Fluoride	0.878	J	0.640	1.50	10	05/13/2023 08:34	WG2058849
Sulfate	4180		59.4	500	100	05/13/2023 09:14	WG2058849

Mercury by Method 245.1

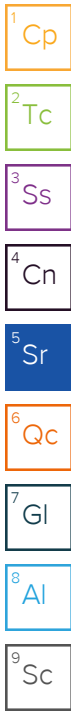
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 11:09	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	1.68		0.0396	0.200	1	05/12/2023 15:00	WG2055090
Lithium	0.00993	J	0.00689	0.0150	1	05/12/2023 15:00	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/11/2023 11:12	WG2057383
Arsenic	0.0244		0.000195	0.00100	1	05/11/2023 11:12	WG2057383
Barium	0.117		0.000476	0.00500	1	05/11/2023 11:12	WG2057383
Beryllium	U		0.000201	0.00100	1	05/11/2023 11:12	WG2057383
Cadmium	U		0.000160	0.00100	1	05/11/2023 11:12	WG2057383
Calcium	196		0.112	1.00	1	05/11/2023 11:12	WG2057383
Chromium	U		0.00560	0.0200	1	05/11/2023 11:12	WG2057383
Cobalt	0.000234	J	0.000142	0.00200	1	05/11/2023 11:12	WG2057383
Lead	U		0.000513	0.00200	1	05/11/2023 11:12	WG2057383
Molybdenum	0.764		0.000841	0.00500	1	05/11/2023 11:12	WG2057383
Selenium	0.00110	J	0.000437	0.00200	1	05/11/2023 11:12	WG2057383
Sodium	2680		2.56	10.0	5	05/11/2023 11:55	WG2057383
Thallium	U		0.000176	0.00100	1	05/11/2023 12:21	WG2057383



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	6900		100	1	05/10/2023 15:39	WG2057102

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	8520		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-12 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	183		8.45	20.0	1	05/12/2023 11:31	WG2058770

Sample Narrative:

L1612964-12 WG2058770: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	234		3.79	10.0	10	05/12/2023 17:43	WG2059059
Fluoride	U		0.640	1.50	10	05/12/2023 17:43	WG2059059
Sulfate	4280		59.4	500	100	05/12/2023 17:57	WG2059059

Mercury by Method 245.1

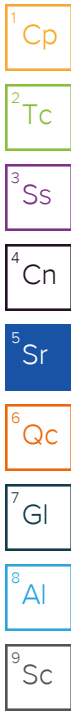
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 11:11	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	2.84		0.0396	0.200	1	05/12/2023 15:03	WG2055090
Lithium	0.0202		0.00689	0.0150	1	05/12/2023 15:03	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/11/2023 11:16	WG2057383
Arsenic	0.00249		0.000195	0.00100	1	05/11/2023 11:16	WG2057383
Barium	0.0667		0.000476	0.00500	1	05/11/2023 11:16	WG2057383
Beryllium	U		0.000201	0.00100	1	05/11/2023 11:16	WG2057383
Cadmium	U		0.000160	0.00100	1	05/11/2023 11:16	WG2057383
Calcium	457		0.112	1.00	1	05/11/2023 11:16	WG2057383
Chromium	U		0.00560	0.0200	1	05/11/2023 11:16	WG2057383
Cobalt	0.000434	J	0.000142	0.00200	1	05/11/2023 11:16	WG2057383
Lead	U		0.000513	0.00200	1	05/11/2023 11:16	WG2057383
Molybdenum	0.573		0.000841	0.00500	1	05/11/2023 11:16	WG2057383
Selenium	0.0511		0.000437	0.00200	1	05/11/2023 11:16	WG2057383
Sodium	1770		2.56	10.0	5	05/11/2023 11:58	WG2057383
Thallium	0.000413	J	0.000176	0.00100	1	05/11/2023 12:24	WG2057383



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	608		10.0	1	05/10/2023 15:39	WG2057102

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	946		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-13 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	200		8.45	20.0	1	05/12/2023 11:36	WG2058770

Sample Narrative:

L1612964-13 WG2058770: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	18.4		0.379	1.00	1	05/12/2023 18:11	WG2059059
Fluoride	0.140	J	0.0640	0.150	1	05/12/2023 18:11	WG2059059
Sulfate	246		2.97	25.0	5	05/12/2023 18:52	WG2059059

Mercury by Method 245.1

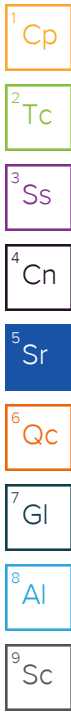
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 11:13	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.0623	J	0.0396	0.200	1	05/12/2023 15:06	WG2055090
Lithium	0.00857	J	0.00689	0.0150	1	05/12/2023 15:06	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/11/2023 11:19	WG2057383
Arsenic	0.000395	J	0.000195	0.00100	1	05/11/2023 11:19	WG2057383
Barium	0.0426		0.000476	0.00500	1	05/11/2023 11:19	WG2057383
Beryllium	U		0.000201	0.00100	1	05/11/2023 11:19	WG2057383
Cadmium	U		0.000160	0.00100	1	05/11/2023 11:19	WG2057383
Calcium	90.2		0.112	1.00	1	05/11/2023 11:19	WG2057383
Chromium	U		0.00560	0.0200	1	05/11/2023 11:19	WG2057383
Cobalt	U		0.000142	0.00200	1	05/11/2023 11:19	WG2057383
Lead	U		0.000513	0.00200	1	05/11/2023 11:19	WG2057383
Molybdenum	0.00186	B J	0.000841	0.00500	1	05/11/2023 11:19	WG2057383
Selenium	U		0.000437	0.00200	1	05/11/2023 11:19	WG2057383
Sodium	98.6		0.513	2.00	1	05/11/2023 11:19	WG2057383
Thallium	U		0.000176	0.00100	1	05/11/2023 12:27	WG2057383



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	968		20.0	1	05/10/2023 15:39	WG2057102

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1400		10.0	1	05/12/2023 15:05	WG2058138

Sample Narrative:

L1612964-14 WG2058138: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	374		8.45	20.0	1	05/12/2023 11:41	WG2058770

Sample Narrative:

L1612964-14 WG2058770: Endpoint pH 4.5

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	10.3		0.379	1.00	1	05/12/2023 19:06	WG2059059
Fluoride	0.239		0.0640	0.150	1	05/12/2023 19:06	WG2059059
Sulfate	438		2.97	25.0	5	05/12/2023 19:19	WG2059059

Mercury by Method 245.1

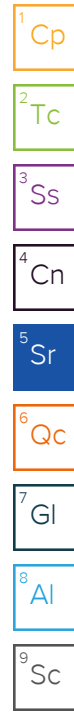
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	05/09/2023 11:15	WG2055701

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.291		0.0396	0.200	1	05/12/2023 15:09	WG2055090
Lithium	U		0.00689	0.0150	1	05/12/2023 15:09	WG2055090

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	05/11/2023 11:22	WG2057383
Arsenic	0.000270	J	0.000195	0.00100	1	05/11/2023 11:22	WG2057383
Barium	0.0225		0.000476	0.00500	1	05/11/2023 11:22	WG2057383
Beryllium	U		0.000201	0.00100	1	05/11/2023 11:22	WG2057383
Cadmium	U		0.000160	0.00100	1	05/11/2023 11:22	WG2057383
Calcium	213		0.112	1.00	1	05/11/2023 11:22	WG2057383
Chromium	U		0.00560	0.0200	1	05/11/2023 11:22	WG2057383
Cobalt	U		0.000142	0.00200	1	05/11/2023 11:22	WG2057383
Lead	U		0.000513	0.00200	1	05/11/2023 11:22	WG2057383
Molybdenum	0.00107	B J	0.000841	0.00500	1	05/11/2023 11:22	WG2057383
Selenium	U		0.000437	0.00200	1	05/11/2023 11:22	WG2057383
Sodium	104		0.513	2.00	1	05/11/2023 11:22	WG2057383
Thallium	U		0.000176	0.00100	1	05/11/2023 12:31	WG2057383



Method Blank (MB)

(MB) R3923235-1 05/09/23 15:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

L1612802-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1612802-01 05/09/23 15:22 • (DUP) R3923235-3 05/09/23 15:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	603	621	1	3.05		5

4 Cn

5 Sr

L1613369-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1613369-03 05/09/23 15:22 • (DUP) R3923235-4 05/09/23 15:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	351	364	1	3.64		5

6 Qc

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R3923235-2 05/09/23 15:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8640	98.2	77.3-123	

9 Sc

Method Blank (MB)

(MB) R3923784-1 05/10/23 15:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

L1612964-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1612964-09 05/10/23 15:39 • (DUP) R3923784-3 05/10/23 15:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	459	491	1	6.74	J3	5

4 Cn

5 Sr

6 Qc

L1613369-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1613369-08 05/10/23 15:39 • (DUP) R3923784-4 05/10/23 15:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	369	375	1	1.61		5

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3923784-2 05/10/23 15:39

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8290	94.2	77.3-123	

Method Blank (MB)

(MB) R3924249-1 05/12/23 15:05

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1612802-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1612802-01 05/12/23 15:05 • (DUP) R3924249-3 05/12/23 15:05

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	1010	1000	1	0.0996		20

Sample Narrative:

OS: at 25C
DUP: at 25C

L1612980-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1612980-02 05/12/23 15:05 • (DUP) R3924249-4 05/12/23 15:05

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	19400	19400	1	0.206		20

Sample Narrative:

OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3924249-2 05/12/23 15:05

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	1120	1070	95.5	85.0-115	

Sample Narrative:

LCS: at 25C

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3924177-2 05/12/23 10:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1612957-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1612957-11 05/12/23 10:33 • (DUP) R3924177-3 05/12/23 10:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	U	U	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1612959-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1612959-09 05/12/23 11:17 • (DUP) R3924177-4 05/12/23 11:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	520	527	1	1.23		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3924177-1 05/12/23 09:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100	99.9	99.9	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3924182-2 05/12/23 10:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1613815-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1613815-01 05/12/23 10:30 • (DUP) R3924182-3 05/12/23 10:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	194	192	1	0.738		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1613764-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1613764-02 05/12/23 12:17 • (DUP) R3924182-4 05/12/23 12:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	197	199	1	0.685		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3924182-1 05/12/23 10:14

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100	97.0	97.0	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5



Method Blank (MB)

(MB) R3924115-1 05/11/23 16:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1612951-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1612951-01 05/11/23 22:57 • (DUP) R3924115-3 05/11/23 23:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	11.1	11.2	1	0.0493		20
Fluoride	0.236	0.233	1	1.28		20
Sulfate	17.2	17.1	1	0.785		20

L1612964-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1612964-05 05/12/23 04:15 • (DUP) R3924115-6 05/12/23 04:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	1.65	1.64	1	0.990		20
Fluoride	0.0937	0.0908	1	3.14	↓	20
Sulfate	9.79	9.80	1	0.0888		20

Laboratory Control Sample (LCS)

(LCS) R3924115-2 05/11/23 16:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	40.5	101	90.0-110	
Fluoride	8.00	8.07	101	90.0-110	
Sulfate	40.0	40.0	100	90.0-110	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1612951-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1612951-01 05/11/23 22:57 • (MS) R3924115-4 05/12/23 00:01 • (MSD) R3924115-5 05/12/23 00:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	11.1	58.4	58.5	94.4	94.7	1	80.0-120			0.253	20
Fluoride	5.00	0.236	4.69	4.67	89.0	88.7	1	80.0-120			0.395	20
Sulfate	50.0	17.2	63.0	63.1	91.6	91.8	1	80.0-120			0.0852	20

L1612964-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1612964-05 05/12/23 04:15 • (MS) R3924115-7 05/12/23 04:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	1.65	52.8	102	1	80.0-120	
Fluoride	5.00	0.0937	5.34	105	1	80.0-120	
Sulfate	50.0	9.79	59.7	99.9	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3925093-1 05/13/23 01:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1612936-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1612936-01 05/13/23 01:29 • (DUP) R3925093-3 05/13/23 01:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	2.29	2.31	1	0.556		20
Sulfate	19.6	19.5	1	0.420		20

L1612957-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1612957-11 05/13/23 09:28 • (DUP) R3925093-6 05/13/23 09:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	2.21	2.22	1	0.420		20

Laboratory Control Sample (LCS)

(LCS) R3925093-2 05/13/23 01:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	38.4	95.9	90.0-110	
Fluoride	8.00	7.95	99.3	90.0-110	
Sulfate	40.0	37.9	94.7	90.0-110	

L1612936-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1612936-01 05/13/23 01:29 • (MS) R3925093-4 05/13/23 01:56 • (MSD) R3925093-5 05/13/23 02:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	2.29	50.4	51.3	96.1	98.0	1	80.0-120			1.83	20
Sulfate	50.0	19.6	66.3	67.9	93.5	96.6	1	80.0-120			2.32	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1612957-11 Original Sample (OS) • Matrix Spike (MS)

(OS) L1612957-11 05/13/23 09:28 • (MS) R3925093-7 05/13/23 09:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	2.21	51.1	97.8	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3925056-1 05/12/23 15:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1612368-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1612368-03 05/12/23 16:48 • (DUP) R3925056-3 05/12/23 17:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	5.77	6.71	1	15.1		20
Fluoride	0.222	0.213	1	3.86		20
Sulfate	46.4	45.3	1	2.43		20

L1613099-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1613099-01 05/12/23 22:58 • (DUP) R3925056-6 05/12/23 23:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	7.35	7.46	1	1.39		20
Fluoride	0.0781	0.0705	1	10.2	↓	20
Sulfate	18.4	18.5	1	0.821		20

Laboratory Control Sample (LCS)

(LCS) R3925056-2 05/12/23 15:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	38.0	95.0	90.0-110	
Fluoride	8.00	7.89	98.6	90.0-110	
Sulfate	40.0	37.4	93.5	90.0-110	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1612368-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1612368-03 05/12/23 16:48 • (MS) R3925056-4 05/12/23 17:16 • (MSD) R3925056-5 05/12/23 17:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	5.77	54.1	54.8	96.6	98.1	1	80.0-120			1.36	20
Fluoride	5.00	0.222	5.21	5.29	99.7	101	1	80.0-120			1.61	20
Sulfate	50.0	46.4	91.0	103	89.1	113	1	80.0-120			12.4	20

L1613099-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1613099-01 05/12/23 22:58 • (MS) R3925056-7 05/12/23 23:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	7.35	55.8	96.8	1	80.0-120	
Fluoride	5.00	0.0781	5.04	99.2	1	80.0-120	
Sulfate	50.0	18.4	66.0	95.3	1	80.0-120	

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

Method Blank (MB)

(MB) R3922585-1 05/09/23 10:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Mercury	U		0.000100	0.000200

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R3922585-2 05/09/23 10:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Mercury	0.00300	0.00332	111	85.0-115	

4 Cn

5 Sr

6 Qc

L1612720-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1612720-01 05/09/23 10:24 • (MS) R3922585-3 05/09/23 10:26 • (MSD) R3922585-4 05/09/23 10:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.00300	U	0.00325	0.00325	108	108	1	70.0-130			0.268	20

7 Gl

8 Al

9 Sc

L1612964-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1612964-07 05/09/23 10:30 • (MS) R3922585-5 05/09/23 10:32 • (MSD) R3922585-6 05/09/23 10:34

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.00300	0.00165	0.00441	0.00424	92.1	86.6	1	70.0-130			3.82	20

Method Blank (MB)

(MB) R3924118-1 05/12/23 09:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron	U		0.0396	0.200
Lithium	U		0.00689	0.0150

Laboratory Control Sample (LCS)

(LCS) R3924118-2 05/12/23 09:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Boron	1.00	1.06	106	85.0-115	
Lithium	1.00	1.04	104	85.0-115	

L1610952-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1610952-02 05/12/23 09:59 • (MS) R3924118-4 05/12/23 10:04 • (MSD) R3924118-5 05/12/23 10:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	1.00	0.233	1.31	1.32	108	109	1	70.0-130			0.917	20
Lithium	1.00	0.0279	1.10	1.10	107	107	1	70.0-130			0.664	20

L1612288-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1612288-01 05/12/23 10:09 • (MS) R3924118-6 05/12/23 10:12 • (MSD) R3924118-7 05/12/23 10:14

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	1.00	U	1.09	1.08	109	108	1	70.0-130			0.950	20
Lithium	1.00	U	1.07	1.06	107	106	1	70.0-130			0.802	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3922732-1 05/09/23 15:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.00172	0.00500
Arsenic	U		0.000195	0.00100
Barium	U		0.000476	0.00500
Beryllium	U		0.000201	0.00100
Cadmium	U		0.000160	0.00100
Calcium	U		0.112	1.00
Chromium	U		0.00560	0.0200
Cobalt	U		0.000142	0.00200
Lead	U		0.000513	0.00200
Molybdenum	U		0.000841	0.00500
Selenium	U		0.000437	0.00200
Sodium	U		0.513	2.00
Thallium	U		0.000176	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3922732-2 05/09/23 15:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0465	93.0	85.0-115	
Arsenic	0.0500	0.0488	97.6	85.0-115	
Barium	0.0500	0.0472	94.4	85.0-115	
Beryllium	0.0500	0.0481	96.2	85.0-115	
Cadmium	0.0500	0.0507	101	85.0-115	
Calcium	5.00	4.94	98.7	85.0-115	
Chromium	0.0500	0.0508	102	85.0-115	
Cobalt	0.0500	0.0506	101	85.0-115	
Lead	0.0500	0.0493	98.5	85.0-115	
Molybdenum	0.0500	0.0497	99.5	85.0-115	
Selenium	0.0500	0.0535	107	85.0-115	
Sodium	5.00	4.94	98.7	85.0-115	
Thallium	0.0500	0.0485	97.0	85.0-115	

L1610990-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1610990-01 05/09/23 15:29 • (MS) R3922732-4 05/09/23 15:36 • (MSD) R3922732-5 05/09/23 15:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	U	0.0482	0.0462	96.5	92.4	1	70.0-130			4.34	20
Arsenic	0.0500	U	0.0466	0.0439	93.2	87.7	1	70.0-130			6.05	20
Barium	0.0500	0.278	0.320	0.328	84.6	100	1	70.0-130			2.42	20
Beryllium	0.0500	U	0.0448	0.0419	89.6	83.9	1	70.0-130			6.59	20
Cadmium	0.0500	U	0.0500	0.0477	100	95.5	1	70.0-130			4.69	20
Calcium	5.00	982	957	968	0.000	0.000	1	70.0-130	EV	EV	1.14	20
Chromium	0.0500	U	0.0486	0.0451	97.3	90.2	1	70.0-130			7.57	20
Cobalt	0.0500	0.00226	0.0498	0.0472	95.2	90.0	1	70.0-130			5.36	20
Lead	0.0500	U	0.0485	0.0462	97.0	92.4	1	70.0-130			4.78	20
Molybdenum	0.0500	0.00264	0.0536	0.0514	102	97.5	1	70.0-130			4.31	20
Selenium	0.0500	U	0.0556	0.0520	111	104	1	70.0-130			6.77	20
Sodium	5.00	350	343	352	0.000	32.2	1	70.0-130	V	V	2.57	20
Thallium	0.0500	U	0.0485	0.0456	96.9	91.2	1	70.0-130			6.06	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3923572-1 05/11/23 11:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Thallium	U		0.000176	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3923564-1 05/11/23 10:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Antimony	U		0.00172	0.00500
Arsenic	U		0.000195	0.00100
Barium	U		0.000476	0.00500
Beryllium	U		0.000201	0.00100
Cadmium	U		0.000160	0.00100
Calcium	U		0.112	1.00
Chromium	U		0.00560	0.0200
Cobalt	U		0.000142	0.00200
Lead	U		0.000513	0.00200
Molybdenum	0.000948	J	0.000841	0.00500
Selenium	U		0.000437	0.00200
Sodium	U		0.513	2.00

Laboratory Control Sample (LCS)

(LCS) R3923572-2 05/11/23 11:35

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Thallium	0.0500	0.0496	99.3	85.0-115	

Laboratory Control Sample (LCS)

(LCS) R3923564-2 05/11/23 10:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Antimony	0.0500	0.0477	95.5	85.0-115	
Arsenic	0.0500	0.0509	102	85.0-115	
Barium	0.0500	0.0501	100	85.0-115	
Beryllium	0.0500	0.0503	101	85.0-115	
Cadmium	0.0500	0.0516	103	85.0-115	
Calcium	5.00	4.96	99.2	85.0-115	
Chromium	0.0500	0.0513	103	85.0-115	

Laboratory Control Sample (LCS)

(LCS) R3923564-2 05/11/23 10:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Cobalt	0.0500	0.0522	104	85.0-115	
Lead	0.0500	0.0518	104	85.0-115	
Molybdenum	0.0500	0.0491	98.2	85.0-115	
Selenium	0.0500	0.0536	107	85.0-115	
Sodium	5.00	5.08	102	85.0-115	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1613891-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1613891-01 05/11/23 11:38 • (MS) R3923572-4 05/11/23 11:45 • (MSD) R3923572-5 05/11/23 11:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Thallium	0.0500	U	0.0483	0.0491	96.6	98.1	1	70.0-130			1.55	20

L1612964-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1612964-10 05/11/23 11:52 • (MS) R3923572-6 05/11/23 11:55 • (MSD) R3923572-7 05/11/23 11:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Thallium	1.25	U	1.20	1.29	95.8	103	25	70.0-130			7.74	20

L1612964-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1612964-10 05/11/23 10:30 • (MS) R3923564-6 05/11/23 10:33 • (MSD) R3923564-7 05/11/23 10:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Antimony	1.25	U	1.35	1.41	108	113	25	70.0-130			4.77	20
Arsenic	1.25	0.00235	1.37	1.41	109	113	25	70.0-130			3.12	20
Barium	1.25	0.227	6.89	6.94	533	537	25	70.0-130	<u>E J5</u>	<u>E J5</u>	0.721	20
Beryllium	1.25	U	1.28	1.31	102	105	25	70.0-130			2.61	20
Cadmium	1.25	U	1.28	1.34	103	107	25	70.0-130			4.16	20
Calcium	125	246	6290	6220	4830	4780	25	70.0-130	<u>J5</u>	<u>J5</u>	1.02	20
Chromium	1.25	U	1.24	1.29	99.4	103	25	70.0-130			3.84	20
Cobalt	1.25	0.00987	1.51	1.52	120	120	25	70.0-130			0.420	20
Lead	1.25	0.000561	1.28	1.32	103	105	25	70.0-130			2.67	20
Molybdenum	1.25	0.00103	1.43	1.47	114	117	25	70.0-130			2.80	20
Selenium	1.25	U	1.44	1.48	115	119	25	70.0-130			2.98	20
Sodium	125	825	20900	20600	16100	15800	25	70.0-130	<u>V</u>	<u>V</u>	1.61	20

L1613891-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1613891-01 05/11/23 10:17 • (MS) R3923564-4 05/11/23 10:23 • (MSD) R3923564-5 05/11/23 10:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	U	0.0537	0.0530	107	106	1	70.0-130			1.41	20
Arsenic	0.0500	0.00204	0.0505	0.0520	97.0	100	1	70.0-130			2.95	20
Barium	0.0500	0.0677	0.121	0.123	106	111	1	70.0-130			2.30	20
Beryllium	0.0500	U	0.0494	0.0498	98.8	99.6	1	70.0-130			0.798	20
Cadmium	0.0500	U	0.0488	0.0506	97.7	101	1	70.0-130			3.52	20
Calcium	5.00	88.9	95.6	97.2	134	166	1	70.0-130	V	V	1.67	20
Chromium	0.0500	U	0.0486	0.0496	97.2	99.1	1	70.0-130			2.00	20
Cobalt	0.0500	0.000252	0.0471	0.0489	93.7	97.3	1	70.0-130			3.75	20
Lead	0.0500	0.0123	0.0619	0.0628	99.1	101	1	70.0-130			1.41	20
Molybdenum	0.0500	0.0114	0.0662	0.0653	109	108	1	70.0-130			1.24	20
Selenium	0.0500	0.000923	0.0555	0.0564	109	111	1	70.0-130			1.61	20
Sodium	5.00	1540	1540	1580	0.000	754	1	70.0-130	EV	EV	2.48	20

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

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl


⁸ Al

⁹ Sc

Company Name/Address:
Enercon - Oklahoma City, OK
 2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Billing Information:
 Accounts Payable - Lisa Hedrick
 2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Analysis / Container / Preservative
 Pres Chk
 ALK 125mlHDPE-NoPres
 CI, F, SO4 125mlHDPE-NoPres
 RA-226, 1L-HDPE-Add HNO3 Plus RA-228 L2
 SPCON, TDS 250mlHDPE-NoPres
 Tot. Rec. Metals 250mlHDPE-HNO3

Chain of Custody Page ___ of ___

 PEOPLE ADVANCING SCIENCE

Report to:
Rusty Lynch

Email To:
 rlynch@enercon.com; ccurrent@enercon.com

Project Description:
GREC, Chouteau, OK

City/State
 Collected: **Chouteau/OK**
 Please Circle:
 PT MT **(C)** ET

Phone: **405-722-7693**

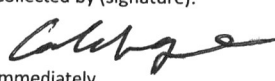
Client Project #
GRDA - 00025

Lab Project #
ENERCOOK-GRDA

Collected by (print):
Caleb Cope

Site/Facility ID #
GRDA-GREC

P.O. #
PALE 14-500200

Collected by (signature):

 Immediately
 Packed on Ice N ___ Y **X**

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Quote #
 Date Results Needed
STO TAT

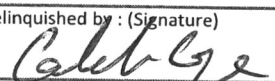
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
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Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	CI, F, SO4 125mlHDPE-NoPres	RA-226, 1L-HDPE-Add HNO3 Plus RA-228 L2	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW22-01	G	DW		5-3-23	1000	5	X	X	X	X	X		01
MW22-05	G	DW		5-3-23	1055	5	X	X	X	X	X		02
MW03-2	G	DW		5-3-23	1250	5	X	X	X	X	X		03
MW22-06	G	DW		5-3-23	1340	5	X	X	X	X	X		04
MW03-01	G	DW		5-3-23	1455	5	X	X	X	X	X		05
MW22-08	G	DW		5-3-23	1605	5	X	X	X	X	X		06
MW93-3	G	DW		5-3-23	1700	5	X	X	X	X	X		07
Blind Dup	G	DW		5-3-23	0000	5	X	X	X	X	X		08
MW22-07	G	DW		5-4-23	0820	5	X	X	X	X	X		09
MW22-03	G	DW		5-4-23	0925	5	X	X	X	X	X		10

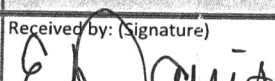
* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
*** Please run both RA-226 and RA228**
 pH ___ Temp ___
 Flow ___ Other ___

Sample Receipt Checklist
 COC Seal Present/Intact: NP N
 COC Signed/Accurate: N
 Bottles arrive intact: N
 Correct bottles used: N
 Sufficient volume sent: N
 If Applicable
 VOA Zero Headspace: N
 Preservation Correct/Checked: N
 RAD Screen <0.5 mR/hr: N

Relinquished by: (Signature)


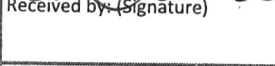
Date: **5-4-23**
 Time: **16:13**

Received by: (Signature)


Trip Blank Received: Yes No
 HCL/MeOH
 TBR

Relinquished by: (Signature)


Date: **5/4/23**
 Time: **17:00**

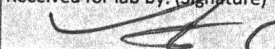
Received for lab by: (Signature)


Temp: **18.46** °C
3.40=3.1 Bottles Received: **70**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: **5/5/23**
 Time: **0930**

Received for lab by: (Signature)


Date: **5/5/23**
 Time: **0930**

Hold: Condition: **NCF / (OK)**

Company Name/Address: **Enercon - Oklahoma City, OK**
 2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Billing Information:
 Accounts Payable - Lisa Hedrick
 2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Chain of Custody Page ___ of ___

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

Report to: **Rusty Lynch**
 Email To: **rlynch@enercon.com; ccurrent@enercon.com**

Project Description: **GREC, Chouteau, OK**
 City/State Collected: **Chouteau/OK**
 Please Circle: PT MT **Q** ET

Phone: **405-722-7693**
 Client Project #: **GRDA - 00025**
 Lab Project #: **ENERCOOK-GRDA**

Collected by (print): **Caleb Cope**
 Site/Facility ID #: **GRDA-GRECC**
 P.O. #: **PACE-E002-00**

Collected by (signature): *Caleb Cope*
 Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Immediately
 Packed on Ice N ___ Y **X**

Date Results Needed: **STD. TAT**
 No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	Cl, F, SO4 125mlHDPE-NoPres	RA-226, 1L-HDPE-Add HNO3 Plus RA-228 L2	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3 L2							
MW93-2	G	DW		5-4-23	1015	5	X	X	X	X	X							11
MW 22-02	G	DW		5-4-23	1105	5	X	X	X	X	X							12
MW 22-04	G	DW		5-4-23	1155	5	X	X	X	X	X							13
MW93-1	G	DW		5-4-23	1325	5	X	X	X	X	X							14
		DW				5	X	X	X	X	X							
		DW				5	X	X	X	X	X							

* Matrix: SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **Please run both RA-226 and RA-228**

Sample Receipt Checklist
 COC Seal Present/Intact: ___ NP ___ Y ___ N
 COC Signed/Accurate: ___ Y ___ N
 Bottles arrive intact: ___ Y ___ N
 Correct bottles used: ___ Y ___ N
 Sufficient volume sent: ___ Y ___ N
 If Applicable
 VOA Zero HeadSpace: ___ Y ___ N
 Preservation Correct/Checked: ___ Y ___ N
 RAD Screen <0.5 mR/hr: ___ Y ___ N

Samples returned via: ___ UPS ___ FedEx ___ Courier
 Tracking #

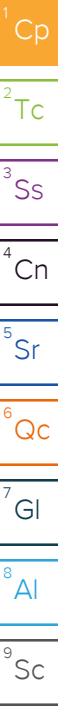
Relinquished by: (Signature) *Caleb Cope* Date: **5-4-23** Time: **16:13**
 Received by: (Signature) *E. Davis*
 Trip Blank Received: Yes/No **HCL/MeOH TBR**

Relinquished by: (Signature) *E. Davis* Date: **5/4/23** Time: **17:00**
 Received by: (Signature) *E. Davis* Temp: **10.26 °C** Bottles Received: **70**
3.140±3.1

Relinquished by: (Signature) Date: **5/5/23** Time: **0930**
 Received for lab by: (Signature) *E. Davis* Hold: Condition: **NCF** **OK**

L16129104

<u>Tracking Numbers</u>	<u>USMC Temperature</u>
	$3.1+0=3.1$
	$.1+0=.1$
	$3.8+0=3.8$



Enercon - Oklahoma City, OK

Sample Delivery Group: L1612967
Samples Received: 05/05/2023
Project Number: GRDA
Description: GREC, Chouteau, OK

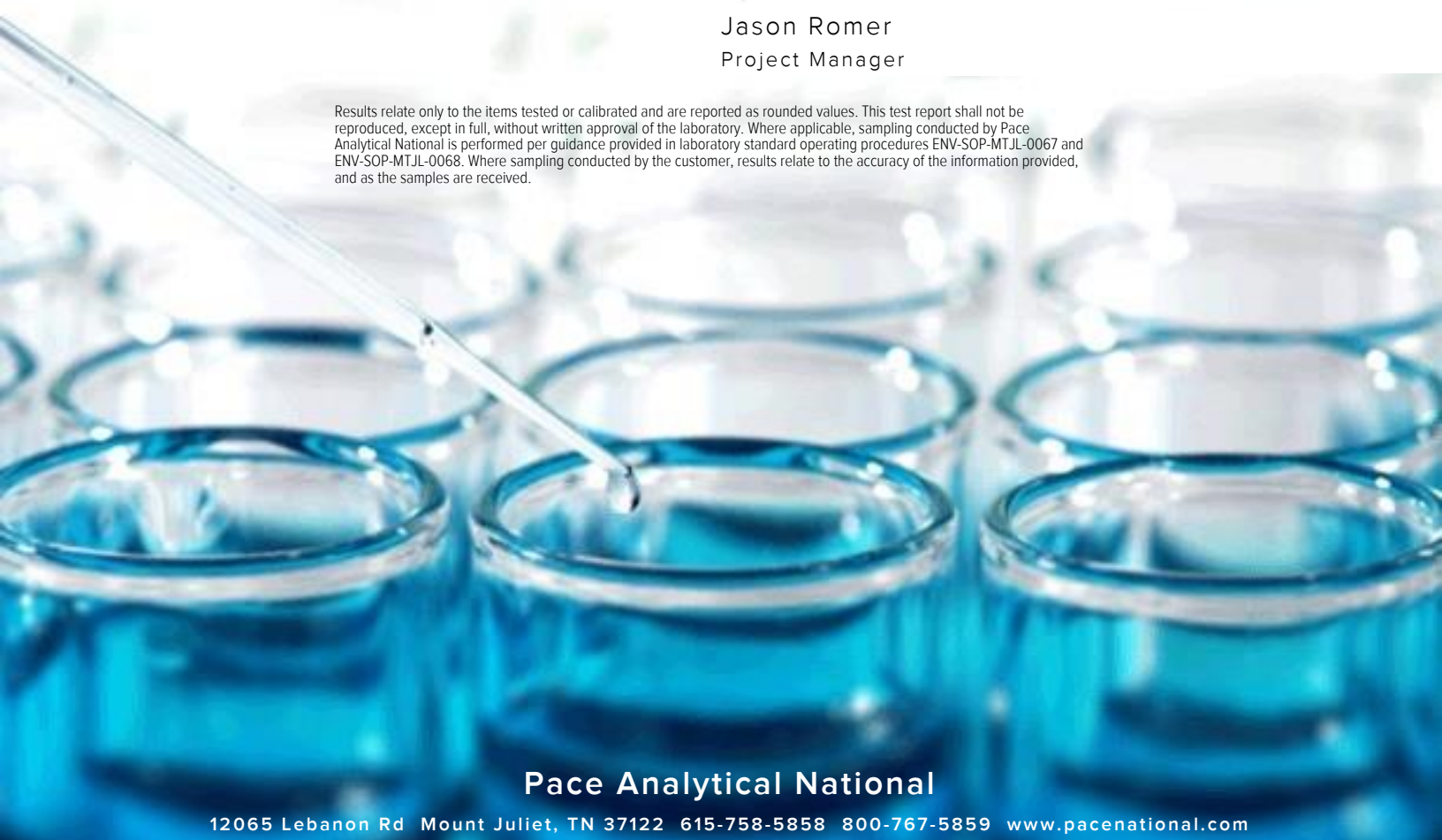
Report To: Rusty Lynch
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Entire Report Reviewed By:



Jason Romer
Project Manager

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

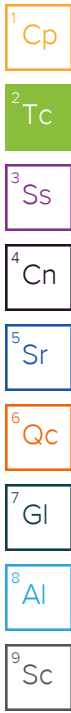


Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

MW22-01 L1612967-01 DW

Collected by
Collected date/time
Received date/time

05/03/23 10:00
05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2072546	1	06/06/23 18:13	06/12/23 21:00	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2065190	1	05/26/23 12:12	06/13/23 04:11	SNR	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW22-05 L1612967-02 DW

Collected by
Collected date/time
Received date/time

05/03/23 10:55
05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2072546	1	06/06/23 18:13	06/12/23 21:00	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2065190	1	05/26/23 12:12	06/13/23 04:11	SNR	Mt. Juliet, TN

MW03-2 L1612967-03 DW

Collected by
Collected date/time
Received date/time

05/03/23 12:50
05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2072546	1	06/06/23 18:13	06/12/23 21:00	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2065190	1	05/26/23 12:12	06/13/23 05:11	SNR	Mt. Juliet, TN

MW22-06 L1612967-04 DW

Collected by
Collected date/time
Received date/time

05/03/23 13:40
05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2072546	1	06/06/23 18:13	06/12/23 21:00	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2065190	1	05/26/23 12:12	06/13/23 05:11	SNR	Mt. Juliet, TN

MW03-01 L1612967-05 DW

Collected by
Collected date/time
Received date/time

05/03/23 14:55
05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2072546	1	06/06/23 18:13	06/12/23 21:00	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2065190	1	05/26/23 12:12	06/13/23 05:11	SNR	Mt. Juliet, TN

MW22-08 L1612967-06 DW

Collected by
Collected date/time
Received date/time

05/03/23 16:05
05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2072546	1	06/06/23 18:13	06/12/23 21:00	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2065190	1	05/26/23 12:12	06/13/23 05:11	SNR	Mt. Juliet, TN

MW93-3 L1612967-07 DW

Collected by
Collected date/time
Received date/time

05/03/23 17:00
05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2072546	1	06/06/23 18:13	06/12/23 21:00	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2065190	1	05/26/23 12:12	06/13/23 06:11	SNR	Mt. Juliet, TN

SAMPLE SUMMARY

BLIND DUP L1612967-08 DW

Collected by
Collected date/time
Received date/time

05/03/23 00:00 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2072546	1	06/06/23 18:13	06/12/23 21:00	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2065190	1	05/26/23 12:12	06/13/23 06:11	SNR	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW22-07 L1612967-09 DW

Collected by
Collected date/time
Received date/time

05/04/23 08:20 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2073190	1	06/07/23 18:53	06/14/23 09:10	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2065190	1	05/26/23 12:12	06/13/23 06:11	SNR	Mt. Juliet, TN

MW22-03 L1612967-10 DW

Collected by
Collected date/time
Received date/time

05/04/23 09:25 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2073190	1	06/07/23 18:53	06/14/23 09:10	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2065190	1	05/26/23 12:12	06/13/23 06:11	SNR	Mt. Juliet, TN

MW93-2 L1612967-11 DW

Collected by
Collected date/time
Received date/time

05/04/23 10:15 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2073190	1	06/07/23 18:53	06/14/23 09:10	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2072640	1	06/06/23 16:53	06/21/23 01:15	SNR	Mt. Juliet, TN

MW22-02 L1612967-12 DW

Collected by
Collected date/time
Received date/time

05/04/23 11:05 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2073190	1	06/07/23 18:53	06/14/23 09:10	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2072640	1	06/06/23 16:53	06/21/23 01:15	SNR	Mt. Juliet, TN

MW22-04 L1612967-13 DW

Collected by
Collected date/time
Received date/time

05/04/23 11:55 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2073190	1	06/07/23 18:53	06/14/23 09:10	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2072640	1	06/06/23 16:53	06/21/23 01:15	SNR	Mt. Juliet, TN

MW93-1 L1612967-14 DW

Collected by
Collected date/time
Received date/time

05/04/23 13:25 05/05/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2073190	1	06/07/23 18:53	06/14/23 09:10	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2072640	1	06/06/23 16:53	06/21/23 02:16	SNR	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jason Romer
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.10		0.256	0.426	06/12/2023 21:00	WG2072546
(T) Barium	96.8			25.0-150	06/12/2023 21:00	WG2072546
(T) Yttrium	116			25.0-150	06/12/2023 21:00	WG2072546

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.140	J	0.162	0.258	06/13/2023 04:11	WG2065190
(T) Barium	92.1			63.0-143	06/13/2023 04:11	WG2065190

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.739		0.248	0.423	06/12/2023 21:00	WG2072546
(T) Barium	116			25.0-150	06/12/2023 21:00	WG2072546
(T) Yttrium	107			25.0-150	06/12/2023 21:00	WG2072546

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.256		0.160	0.174	06/13/2023 04:11	WG2065190
(T) Barium	118			63.0-143	06/13/2023 04:11	WG2065190

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.482		0.237	0.412	06/12/2023 21:00	WG2072546
(T) Barium	95.1			25.0-150	06/12/2023 21:00	WG2072546
(T) Yttrium	108			25.0-150	06/12/2023 21:00	WG2072546

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	-0.0642	<u>U</u>	0.111	0.272	06/13/2023 05:11	WG2065190
(T) Barium	85.7			63.0-143	06/13/2023 05:11	WG2065190

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.883		0.278	0.472	06/12/2023 21:00	WG2072546
(T) Barium	98.7			25.0-150	06/12/2023 21:00	WG2072546
(T) Yttrium	111			25.0-150	06/12/2023 21:00	WG2072546

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0931	J	0.110	0.170	06/13/2023 05:11	WG2065190
(T) Barium	102			63.0-143	06/13/2023 05:11	WG2065190

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.304	J	0.307	0.546	06/12/2023 21:00	WG2072546
(T) Barium	114			25.0-150	06/12/2023 21:00	WG2072546
(T) Yttrium	86.0			25.0-150	06/12/2023 21:00	WG2072546

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0706	U	0.166	0.295	06/13/2023 05:11	WG2065190
(T) Barium	78.1			63.0-143	06/13/2023 05:11	WG2065190

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.654		0.258	0.445	06/12/2023 21:00	WG2072546
(T) Barium	95.6			25.0-150	06/12/2023 21:00	WG2072546
(T) Yttrium	90.7			25.0-150	06/12/2023 21:00	WG2072546

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.134	J	0.135	0.204	06/13/2023 05:11	WG2065190
(T) Barium	95.5			63.0-143	06/13/2023 05:11	WG2065190

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.0461	<u>U</u>	0.271	0.486	06/12/2023 21:00	WG2072546
(T) Barium	109			25.0-150	06/12/2023 21:00	WG2072546
(T) Yttrium	106			25.0-150	06/12/2023 21:00	WG2072546

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.146	<u>J</u>	0.152	0.204	06/13/2023 06:11	WG2065190
(T) Barium	123			63.0-143	06/13/2023 06:11	WG2065190

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.06		0.294	0.494	06/12/2023 21:00	WG2072546
(T) Barium	90.6			25.0-150	06/12/2023 21:00	WG2072546
(T) Yttrium	84.8			25.0-150	06/12/2023 21:00	WG2072546

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.668		0.246	0.187	06/13/2023 06:11	WG2065190
(T) Barium	89.0			63.0-143	06/13/2023 06:11	WG2065190

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.291	J	0.283	0.497	06/14/2023 09:10	WG2073190
(T) Barium	94.0			25.0-150	06/14/2023 09:10	WG2073190
(T) Yttrium	111			25.0-150	06/14/2023 09:10	WG2073190

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.120	J	0.157	0.259	06/13/2023 06:11	WG2065190
(T) Barium	91.3			63.0-143	06/13/2023 06:11	WG2065190

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.37		0.306	0.512	06/14/2023 09:10	WG2073190
(T) Barium	101			25.0-150	06/14/2023 09:10	WG2073190
(T) Yttrium	106			25.0-150	06/14/2023 09:10	WG2073190

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.35		0.319	0.171	06/13/2023 06:11	WG2065190
(T) Barium	121			63.0-143	06/13/2023 06:11	WG2065190

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.83		0.319	0.523	06/14/2023 09:10	WG2073190
(T) Barium	113			25.0-150	06/14/2023 09:10	WG2073190
(T) Yttrium	94.8			25.0-150	06/14/2023 09:10	WG2073190

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.459		0.183	0.132	06/21/2023 01:15	WG2072640
(T) Barium	92.1			63.0-143	06/21/2023 01:15	WG2072640

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.481	J	0.297	0.518	06/14/2023 09:10	WG2073190
(T) Barium	112			25.0-150	06/14/2023 09:10	WG2073190
(T) Yttrium	106			25.0-150	06/14/2023 09:10	WG2073190

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.103	J	0.125	0.149	06/21/2023 01:15	WG2072640
(T) Barium	160	C1		63.0-143	06/21/2023 01:15	WG2072640

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.201	<u>U</u>	0.348	0.617	06/14/2023 09:10	WG2073190
(T) Barium	83.8			25.0-150	06/14/2023 09:10	WG2073190
(T) Yttrium	90.1			25.0-150	06/14/2023 09:10	WG2073190

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.408		0.190	0.178	06/21/2023 01:15	WG2072640
(T) Barium	90.1			63.0-143	06/21/2023 01:15	WG2072640

Radiochemistry by Method 904

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.146	<u>U</u>	0.288	0.511	06/14/2023 09:10	WG2073190
(T) Barium	95.3			25.0-150	06/14/2023 09:10	WG2073190
(T) Yttrium	92.1			25.0-150	06/14/2023 09:10	WG2073190

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.336		0.154	0.119	06/21/2023 02:16	WG2072640
(T) Barium	113			63.0-143	06/21/2023 02:16	WG2072640

Method Blank (MB)

(MB) R3937278-1 06/12/23 21:00

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.0278	<u>U</u>	0.142	0.260
(T) Barium	110		110	
(T) Yttrium	113		113	

L1612960-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1612960-04 06/12/23 21:00 • (DUP) R3937278-5 06/12/23 21:00

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.633	0.238	0.414	0.535	0.362	0.414	1	16.8	0.226	<u>J</u>	20	2
(T) Barium	107			98.4	98.4							
(T) Yttrium	107			101	101							

Laboratory Control Sample (LCS)

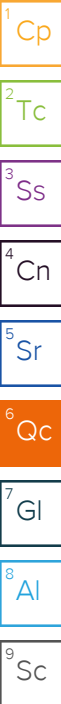
(LCS) R3937278-2 06/12/23 21:00

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.06	81.2	80.0-120	
(T) Barium			104		
(T) Yttrium			119		

L1612958-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1612958-04 06/12/23 21:00 • (MS) R3937278-3 06/12/23 21:00 • (MSD) R3937278-4 06/12/23 21:00

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	-0.0205	8.62	9.65	86.2	96.5	1	70.0-130			11.3		20
(T) Barium		124			110	110							
(T) Yttrium		108			119	106							



Method Blank (MB)

(MB) R3937303-1 06/14/23 09:10

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.412		0.156	0.271
(T) Barium	88.3		88.3	
(T) Yttrium	101		101	

L1614542-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1614542-01 06/14/23 09:10 • (DUP) R3937303-5 06/14/23 09:10

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.675	0.298	0.515	0.958	0.339	0.515	1	34.7	0.628		20	2
(T) Barium	113			101	101							
(T) Yttrium	83.7			119	119							

Laboratory Control Sample (LCS)

(LCS) R3937303-2 06/14/23 09:10

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.42	88.5	80.0-120	
(T) Barium			99.1		
(T) Yttrium			103		

L1613350-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1613350-01 06/14/23 09:10 • (MS) R3937303-3 06/14/23 09:10 • (MSD) R3937303-4 06/14/23 09:10

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.46	12.2	11.5	107	100	1	70.0-130			5.57		20
(T) Barium		95.3			90.6	96.8							
(T) Yttrium		128			108	117							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3936767-1 06/13/23 01:10

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.00740	<u>U</u>	0.0481	0.123
(T) Barium	106		106	

L1611974-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611974-01 06/13/23 04:11 • (DUP) R3936767-5 06/13/23 02:10

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.0597	0.0828	0.142	0.148	0.129	0.142	1	84.7	0.573	<u>J</u>	20	2
(T) Barium	107			129	129							

Laboratory Control Sample (LCS)

(LCS) R3936767-2 06/13/23 01:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.66	92.9	90.0-110	
(T) Barium			105		

L1611833-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1611833-01 06/13/23 02:10 • (MS) R3936767-3 06/13/23 01:10 • (MSD) R3936767-4 06/13/23 01:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	10.0	0.225	9.58	9.12	93.6	88.9	1	80.0-120			4.93		20
(T) Barium		103			113	112							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3940799-1 06/21/23 00:15

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.0472	↓	0.0396	0.0793
(T) Barium	107		107	

L1613350-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1613350-01 06/21/23 02:16 • (DUP) R3940799-5 06/21/23 01:15

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	3.15	0.408	0.105	3.79	0.665	0.105	1	18.5	0.823		20	2
(T) Barium	115			90.1	90.1							

Laboratory Control Sample (LCS)

(LCS) R3940799-2 06/21/23 00:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.60	91.8	90.0-110	
(T) Barium			104		

L1615523-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1615523-02 06/21/23 05:17 • (MS) R3940799-3 06/21/23 00:15 • (MSD) R3940799-4 06/21/23 00:15

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.195	17.6	17.8	86.9	87.8	1	80.0-120			1.02		20
(T) Barium		97.5			102	100							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

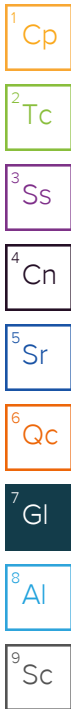
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

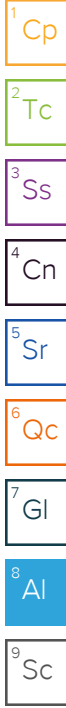
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

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

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

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



Company Name/Address: **Enercon - Oklahoma City, OK**
 2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Billing Information: Accounts Payable - Lisa Hedrick
 2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Report to: **Rusty Lynch**
 Email To: **rlynch@enercon.com; ccurrent@enercon.com**

Project Description: **GREC, Chouteau, OK** City/State: **OK** Please Circle: **CT**

Chain of Custody Page ___ of ___

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd. Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **F046**

Acctnum: **ENERCOOK**
 Template: **T206542**
 Prelogin: **P996562**
 PM: **104 - Jason Romer**
 PB: **BF 4/28/23**
 Shipped Via: **FedEX Ground**

Phone: **405-722-7693** Client Project #: **GRDA, 00025** Lab Project #: **ENERCOOK-GRDA**

Collected by (print): **Caleb Cope** Site/Facility ID #: **GRDA-GRDC** P.O. #: **PALE14-E00200**

Collected by (signature): *Caleb Cope* **Rush?** (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #: **STO TAT** Date Results Needed: **STO TAT** No. of Cntrs: **5**

Packed on Ice N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	Cl, F, SO4 125mlHDPE-NoPres	RA-226, 1L-HDPE-Add HNO3 Plus RA-228	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3							
MW22-01	G	DW		5-3-23	1000	5	X	X	X	X	X							-01
MW22-05	G	DW		5-3-23	1055	5	X	X	X	X	X							-02
MW03-2	G	DW		5-3-23	1250	5	X	X	X	X	X							-03
MW22-06	G	DW		5-3-23	1340	5	X	X	X	X	X							-04
MW03-01	G	DW		5-3-23	1455	5	X	X	X	X	X							-05
MW22-08	G	DW		5-3-23	1605	5	X	X	X	X	X							-06
MW03-3	G	DW		5-3-23	1700	5	X	X	X	X	X							-07
Blind Dup	G	DW		5-3-23	0000	5	X	X	X	X	X							-08
MW22-07	G	DW		5-4-23	0820	5	X	X	X	X	X							-09
MW22-03	G	DW		5-4-23	0925	5	X	X	X	X	X							-10

* Matrix: **SS - Soil AIR - Air F - Filter**
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: **Please run both RA-226 and RA228**

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via: UPS FedEx Courier Tracking # _____

Sample Receipt Checklist

COC Seal Present/Intact: NP N

COC Signed/Accurate: Y N

Bottles arrive intact: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

If Applicable

VOA Zero Headspace: Y N



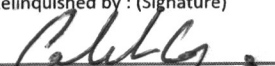
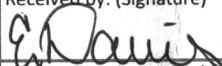
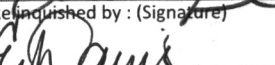
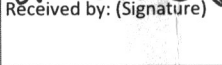
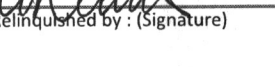
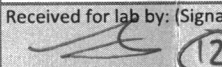
Preservation Correct/Checked: Y N

RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature) *Caleb Cope* Date: **5-4-23** Time: **16:13** Received by: (Signature) *E. Davis* Trip Blank Received: Yes No
 HCL/MeOH TBR

Relinquished by: (Signature) *E. Davis* Date: **5/4/23** Time: **17:00** Received by: (Signature) _____ Temp: **18.46 °C** Bottles Received: **3. Ho=3.1 70** If preservation required by Login: Date/Time

Relinquished by: (Signature) _____ Date: _____ Time: _____ Received for lab by: (Signature) *[Signature]* Date: **5/5/23** Time: **0930** Hold: _____ Condition: **NCF / OK**

Company Name/Address: Enercon - Oklahoma City, OK 2302 S. Prospect Ave. Oklahoma City, OK 73129			Billing Information: Accounts Payable - Lisa Hedrick 2302 S. Prospect Ave. Oklahoma City, OK 73129			Pres Chk	Analysis / Container / Preservative										Chain of Custody Page ___ of ___				
Report to: Rusty Lynch			Email To: rlynch@enercon.com; ccurrent@enercon.com														 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf				
Project Description: GREC, Chouteau, OK		City/State Collected: Chouteau/OK		Please Circle: PT MT <input checked="" type="radio"/> ET																	
Phone: 405-722-7693		Client Project # GRDA - 00025		Lab Project # ENERCOOK-GRDA													SDG # L/16/29109				
Collected by (print): Caleb Cope		Site/Facility ID # GRDA-GREC		P.O. # PACE-E002-00													Table #				
Collected by (signature): 		Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day		Quote #													Acctnum: ENERCOOK				
Immediately Packed on Ice N ___ Y <input checked="" type="checkbox"/>				Date Results Needed STD. TAT													Template: T206542				
																	Prelogin: P996562				
																	PM: 104 - Jason Romer				
																	PB: BF 40803				
																	Shipped Via: FedEX Ground				
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	ALK 125mlHDPE-NoPres	Cl, F, SO4 125mlHDPE-NoPres	RA-226, 1L-HDPE-Add HNO3 Plus RA-228 L2	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3 L2					Remarks	Sample # (lab only)			
MW93-2		G	DW		5-4-23	1015	5	X	X	X	X	X						-11			
MW 22-02		G	DW		5-4-23	1105	5	X	X	X	X	X						-12			
MW 22-04		G	DW		5-4-23	1155	5	X	X	X	X	X						-13			
MW93-1		G	DW		5-4-23	1325	5	X	X	X	X	X						-14			
			DW				5	X	X	X	X	X									
			DW				5	X	X	X	X	X									
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Please run both RA-226 and RA-228			pH _____ Temp _____		Flow _____ Other _____												Sample Receipt Checklist COC Seal Present/Intact: ___ NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: ___ Y <input checked="" type="checkbox"/> N Bottles arrive intact: ___ Y <input checked="" type="checkbox"/> N Correct bottles used: ___ Y <input checked="" type="checkbox"/> N Sufficient volume sent: ___ Y <input checked="" type="checkbox"/> N If Applicable VOA Zero Headspace: ___ Y <input checked="" type="checkbox"/> N Preservation Correct/Checked: ___ Y <input checked="" type="checkbox"/> N RAD Screen <0.5 mR/hr: ___ Y <input checked="" type="checkbox"/> N		
Relinquished by: (Signature) 		Date: 5-4-23	Time: 16:13	Received by: (Signature) 		Trip Blank Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> HCL / MeOH TBR												If preservation required by Login: Date/Time			
Relinquished by: (Signature) 		Date: 5/4/23	Time: 17:00	Received by: (Signature) 		Temp: 12.26 °C 3.1 to 3.1		Bottles Received: 70													
Relinquished by: (Signature) 		Date:	Time:	Received for lab by: (Signature) 		Date: 5/5/23		Time: 0930												Hold: Condition: NCF / <input checked="" type="checkbox"/> OK	

L16/29/67

<u>Tracking Numbers</u>	<u>USAC Temperature</u>
	3.1+0=3.1
	.1+0=.1
	3.8+0=3.8

Enercon - Oklahoma City, OK

Sample Delivery Group: L1656198
Samples Received: 09/15/2023
Project Number: GRDA-00027
Description: GREC, Chouteau, OK
Site: GRDA-GREC
Report To: Rusty Lynch
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Entire Report Reviewed By:



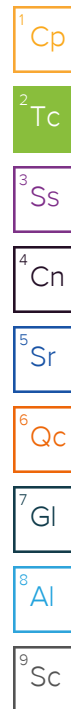
Jason Romer
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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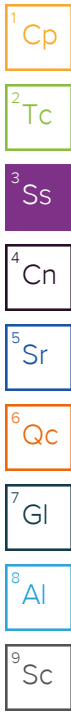


SAMPLE SUMMARY

MW93-1 L1656198-01 WW

Collected by: Caleb Cope
 Collected date/time: 09/11/23 11:10
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2133952	1	09/17/23 17:44	09/17/23 22:21	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2134966	1	09/20/23 12:46	09/20/23 12:46	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 07:39	09/20/23 07:39	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	5	09/20/23 07:53	09/20/23 07:53	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 14:22	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 16:32	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:16	JPD	Mt. Juliet, TN



MW22-01 L1656198-02 WW

Collected by: Caleb Cope
 Collected date/time: 09/11/23 12:15
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2133959	1	09/17/23 18:18	09/17/23 22:52	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2134966	1	09/20/23 12:51	09/20/23 12:51	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 08:06	09/20/23 08:06	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	5	09/20/23 08:20	09/20/23 08:20	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 14:45	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 16:41	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:06	JPD	Mt. Juliet, TN

MW22-05 L1656198-03 WW

Collected by: Caleb Cope
 Collected date/time: 09/11/23 13:45
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2133959	1	09/17/23 18:18	09/17/23 22:52	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2134966	1	09/20/23 12:55	09/20/23 12:55	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 08:34	09/20/23 08:34	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	10	09/20/23 08:47	09/20/23 08:47	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 14:53	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 16:50	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:28	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	5	09/21/23 07:58	09/27/23 20:49	JPD	Mt. Juliet, TN

MW03-2 L1656198-04 WW

Collected by: Caleb Cope
 Collected date/time: 09/11/23 15:20
 Received date/time: 09/15/23 08:00

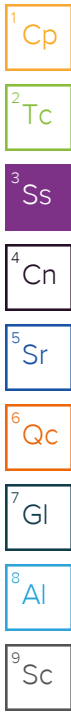
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2133959	1	09/17/23 18:18	09/17/23 22:52	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2134966	1	09/20/23 13:12	09/20/23 13:12	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 09:01	09/20/23 09:01	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	10	09/20/23 09:15	09/20/23 09:15	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 14:55	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 16:53	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:31	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

MW22-06 L1656198-05 WW

Collected by: Caleb Cope
 Collected date/time: 09/11/23 16:30
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2133959	1	09/17/23 18:18	09/17/23 22:52	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2134966	1	09/20/23 13:16	09/20/23 13:16	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 09:56	09/20/23 09:56	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	5	09/20/23 10:10	09/20/23 10:10	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 14:58	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 16:56	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:34	JPD	Mt. Juliet, TN



MW22-08 L1656198-06 WW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 09:45
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134176	1	09/18/23 09:39	09/18/23 16:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2134966	1	09/20/23 14:38	09/20/23 14:38	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 10:23	09/20/23 10:23	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	5	09/20/23 10:37	09/20/23 10:37	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 15:01	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 16:59	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:38	JPD	Mt. Juliet, TN

MW93-3 L1656198-07 WW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 10:40
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134176	1	09/18/23 09:39	09/18/23 16:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135967	1	09/21/23 09:10	09/21/23 09:10	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 10:51	09/20/23 10:51	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	5	09/20/23 11:05	09/20/23 11:05	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 15:03	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:02	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:41	JPD	Mt. Juliet, TN

MW22-04 L1656198-08 WW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 12:00
 Received date/time: 09/15/23 08:00

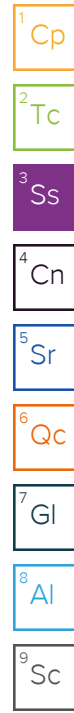
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134176	1	09/18/23 09:39	09/18/23 16:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 12:36	09/20/23 12:36	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 11:18	09/20/23 11:18	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	5	09/20/23 11:32	09/20/23 11:32	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 15:06	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:05	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:44	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

MW22-02 L1656198-09 WW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 13:05
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134176	1	09/18/23 09:39	09/18/23 16:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 13:08	09/20/23 13:08	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	10	09/20/23 11:46	09/20/23 11:46	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	100	09/20/23 11:59	09/20/23 11:59	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 15:08	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:08	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:47	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	5	09/21/23 07:58	09/27/23 20:46	JPD	Mt. Juliet, TN



MW93-2 L1656198-10 WW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 14:05
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134176	1	09/18/23 09:39	09/18/23 16:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 13:28	09/20/23 13:28	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	10	09/20/23 12:41	09/20/23 12:41	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	100	09/20/23 12:54	09/20/23 12:54	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 15:11	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:11	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:51	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	10	09/21/23 07:58	09/27/23 20:52	JPD	Mt. Juliet, TN

MW22-03 L1656198-11 WW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 15:45
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134176	1	09/18/23 09:39	09/18/23 16:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 13:34	09/20/23 13:34	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 13:08	09/20/23 13:08	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	10	09/20/23 13:22	09/20/23 13:22	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 15:13	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:14	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:54	JPD	Mt. Juliet, TN

MW22-07 L1656198-12 WW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 16:40
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134176	1	09/18/23 09:39	09/18/23 16:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 13:40	09/20/23 13:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 13:35	09/20/23 13:35	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	5	09/20/23 13:49	09/20/23 13:49	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 15:16	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:34	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 19:57	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

MW23-05 L1656198-13 WW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 18:05
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134176	1	09/18/23 09:39	09/18/23 16:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 13:45	09/20/23 13:45	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 14:03	09/20/23 14:03	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	5	09/20/23 14:17	09/20/23 14:17	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 15:24	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:37	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 20:23	JPD	Mt. Juliet, TN



MW23-04 L1656198-14 WW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 09:05
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134228	1	09/18/23 09:44	09/18/23 22:55	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 13:51	09/20/23 13:51	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 14:30	09/20/23 14:30	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 14:30	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:17	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 20:26	JPD	Mt. Juliet, TN



MW23-06 L1656198-15 WW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 10:25
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134228	1	09/18/23 09:44	09/18/23 22:55	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133338	1	09/17/23 15:30	09/17/23 15:30	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 13:56	09/20/23 13:56	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 19:41	09/20/23 19:41	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	5	09/20/23 19:54	09/20/23 19:54	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 15:26	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:25	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 20:29	JPD	Mt. Juliet, TN

MW23-03 L1656198-16 WW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 11:50
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134228	1	09/18/23 09:44	09/18/23 22:55	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133943	1	09/17/23 17:00	09/17/23 17:00	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 14:02	09/20/23 14:02	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 20:08	09/20/23 20:08	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 15:29	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:28	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 20:32	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

MW23-02 L1656198-17 WW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 14:30
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134228	1	09/18/23 09:44	09/18/23 22:55	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133943	1	09/17/23 17:00	09/17/23 17:00	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 14:07	09/20/23 14:07	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 20:49	09/20/23 20:49	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	5	09/20/23 21:03	09/20/23 21:03	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2135843	1	09/21/23 18:42	09/23/23 15:46	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:31	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 20:36	JPD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW23-01 L1656198-18 WW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 15:30
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134228	1	09/18/23 09:44	09/18/23 22:55	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133943	1	09/17/23 17:00	09/17/23 17:00	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 14:13	09/20/23 14:13	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	1	09/20/23 21:17	09/20/23 21:17	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	5	09/20/23 21:58	09/20/23 21:58	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2138395	1	09/24/23 08:56	09/25/23 11:53	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:40	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 20:39	JPD	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

DUPLICATE L1656198-19 WW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 00:00
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134176	1	09/18/23 09:39	09/18/23 16:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133943	1	09/17/23 17:00	09/17/23 17:00	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2135598	1	09/20/23 14:27	09/20/23 14:27	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	10	09/20/23 22:12	09/20/23 22:12	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2135217	100	09/20/23 22:25	09/20/23 22:25	GEB	Mt. Juliet, TN
Mercury by Method 245.1	WG2138395	1	09/24/23 08:56	09/25/23 12:00	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134607	1	09/21/23 07:56	09/22/23 17:43	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	1	09/21/23 07:58	09/27/23 20:42	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134618	10	09/21/23 07:58	09/27/23 21:08	LD	Mt. Juliet, TN

CASE NARRATIVE

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



Jason Romer
Project Manager

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1010		20.0	1	09/17/2023 22:21	WG2133952

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1480		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-01 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	387		8.45	20.0	1	09/20/2023 12:46	WG2134966

Sample Narrative:

L1656198-01 WG2134966: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	14.0		0.379	1.00	1	09/20/2023 07:39	WG2135217
Fluoride	0.145	J	0.0640	0.150	1	09/20/2023 07:39	WG2135217
Sulfate	512		2.97	25.0	5	09/20/2023 07:53	WG2135217

Mercury by Method 245.1

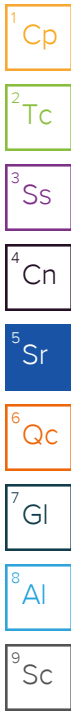
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U	J3 J6 O1	0.000100	0.000200	1	09/23/2023 14:22	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.356		0.0396	0.200	1	09/22/2023 16:32	WG2134607
Lithium	0.00834	J	0.00689	0.0150	1	09/22/2023 16:32	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:16	WG2134618
Arsenic	0.000317	J	0.000195	0.00100	1	09/27/2023 19:16	WG2134618
Barium	0.0184		0.000476	0.00500	1	09/27/2023 19:16	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:16	WG2134618
Cadmium	0.000573	J	0.000160	0.00100	1	09/27/2023 19:16	WG2134618
Calcium	217		0.112	1.00	1	09/27/2023 19:16	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:16	WG2134618
Cobalt	0.000171	J	0.000142	0.00200	1	09/27/2023 19:16	WG2134618
Lead	0.00101	B J	0.000513	0.00200	1	09/27/2023 19:16	WG2134618
Molybdenum	0.000948	J	0.000841	0.00500	1	09/27/2023 19:16	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 19:16	WG2134618
Sodium	97.4		0.513	2.00	1	09/27/2023 19:16	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 19:16	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1000		20.0	1	09/17/2023 22:52	WG2133959

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1470		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-02 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	515		8.45	20.0	1	09/20/2023 12:51	WG2134966

Sample Narrative:

L1656198-02 WG2134966: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	10.7		0.379	1.00	1	09/20/2023 08:06	WG2135217
Fluoride	0.179		0.0640	0.150	1	09/20/2023 08:06	WG2135217
Sulfate	305		2.97	25.0	5	09/20/2023 08:20	WG2135217

Mercury by Method 245.1

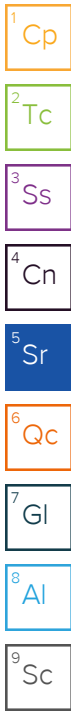
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 14:45	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.121	J	0.0396	0.200	1	09/22/2023 16:41	WG2134607
Lithium	0.00987	J	0.00689	0.0150	1	09/22/2023 16:41	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:06	WG2134618
Arsenic	0.000374	J	0.000195	0.00100	1	09/27/2023 19:06	WG2134618
Barium	0.0405		0.000476	0.00500	1	09/27/2023 19:06	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:06	WG2134618
Cadmium	0.000204	J	0.000160	0.00100	1	09/27/2023 19:06	WG2134618
Calcium	286		0.112	1.00	1	09/27/2023 19:06	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:06	WG2134618
Cobalt	0.00331		0.000142	0.00200	1	09/27/2023 19:06	WG2134618
Lead	U		0.000513	0.00200	1	09/27/2023 19:06	WG2134618
Molybdenum	U		0.000841	0.00500	1	09/27/2023 19:06	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 19:06	WG2134618
Sodium	26.6		0.513	2.00	1	09/27/2023 19:06	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 19:06	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	2040		50.0	1	09/17/2023 22:52	WG2133959

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	4000		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-03 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	395		8.45	20.0	1	09/20/2023 12:55	WG2134966

Sample Narrative:

L1656198-03 WG2134966: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	986		3.79	10.0	10	09/20/2023 08:47	WG2135217
Fluoride	0.152		0.0640	0.150	1	09/20/2023 08:34	WG2135217
Sulfate	123		0.594	5.00	1	09/20/2023 08:34	WG2135217

Mercury by Method 245.1

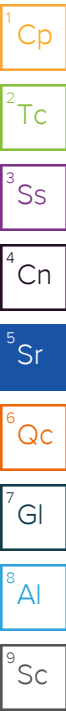
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 14:53	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	09/22/2023 16:50	WG2134607
Lithium	0.0145	J	0.00689	0.0150	1	09/22/2023 16:50	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:28	WG2134618
Arsenic	0.000229	J	0.000195	0.00100	1	09/27/2023 19:28	WG2134618
Barium	0.286		0.00238	0.0250	5	09/27/2023 20:49	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:28	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 19:28	WG2134618
Calcium	228		0.112	1.00	1	09/27/2023 19:28	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:28	WG2134618
Cobalt	U		0.000142	0.00200	1	09/27/2023 19:28	WG2134618
Lead	0.000713	B J	0.000513	0.00200	1	09/27/2023 19:28	WG2134618
Molybdenum	U		0.000841	0.00500	1	09/27/2023 19:28	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 19:28	WG2134618
Sodium	548		0.513	2.00	1	09/27/2023 19:28	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 19:28	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1320		20.0	1	09/17/2023 22:52	WG2133959

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1990		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-04 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	221		8.45	20.0	1	09/20/2023 13:12	WG2134966

Sample Narrative:

L1656198-04 WG2134966: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	320		3.79	10.0	10	09/20/2023 09:15	WG2135217
Fluoride	0.0895	J	0.0640	0.150	1	09/20/2023 09:01	WG2135217
Sulfate	325		5.94	50.0	10	09/20/2023 09:15	WG2135217

Mercury by Method 245.1

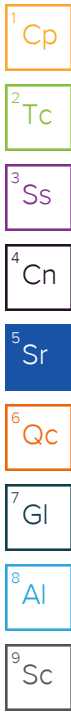
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	0.00114		0.000100	0.000200	1	09/23/2023 14:55	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	09/22/2023 16:53	WG2134607
Lithium	0.0130	J	0.00689	0.0150	1	09/22/2023 16:53	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:31	WG2134618
Arsenic	U		0.000195	0.00100	1	09/27/2023 19:31	WG2134618
Barium	0.0285		0.000476	0.00500	1	09/27/2023 19:31	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:31	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 19:31	WG2134618
Calcium	246		0.112	1.00	1	09/27/2023 19:31	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:31	WG2134618
Cobalt	U		0.000142	0.00200	1	09/27/2023 19:31	WG2134618
Lead	0.00124	B J	0.000513	0.00200	1	09/27/2023 19:31	WG2134618
Molybdenum	U		0.000841	0.00500	1	09/27/2023 19:31	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 19:31	WG2134618
Sodium	165		0.513	2.00	1	09/27/2023 19:31	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 19:31	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	880		20.0	1	09/17/2023 22:52	WG2133959

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1420		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-05 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	288		8.45	20.0	1	09/20/2023 13:16	WG2134966

Sample Narrative:

L1656198-05 WG2134966: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	141		0.379	1.00	1	09/20/2023 09:56	WG2135217
Fluoride	0.0946	J	0.0640	0.150	1	09/20/2023 09:56	WG2135217
Sulfate	237		2.97	25.0	5	09/20/2023 10:10	WG2135217

Mercury by Method 245.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 14:58	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	09/22/2023 16:56	WG2134607
Lithium	0.0114	J	0.00689	0.0150	1	09/22/2023 16:56	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:34	WG2134618
Arsenic	0.000416	J	0.000195	0.00100	1	09/27/2023 19:34	WG2134618
Barium	0.0781		0.000476	0.00500	1	09/27/2023 19:34	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:34	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 19:34	WG2134618
Calcium	203		0.112	1.00	1	09/27/2023 19:34	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:34	WG2134618
Cobalt	0.000161	J	0.000142	0.00200	1	09/27/2023 19:34	WG2134618
Lead	U		0.000513	0.00200	1	09/27/2023 19:34	WG2134618
Molybdenum	U		0.000841	0.00500	1	09/27/2023 19:34	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 19:34	WG2134618
Sodium	64.2		0.513	2.00	1	09/27/2023 19:34	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 19:34	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1060		20.0	1	09/18/2023 16:13	WG2134176

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1930		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-06 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	404		8.45	20.0	1	09/20/2023 14:38	WG2134966

Sample Narrative:

L1656198-06 WG2134966: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	212		1.90	5.00	5	09/20/2023 10:37	WG2135217
Fluoride	0.190		0.0640	0.150	1	09/20/2023 10:23	WG2135217
Sulfate	266		2.97	25.0	5	09/20/2023 10:37	WG2135217

Mercury by Method 245.1

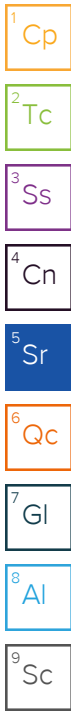
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 15:01	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.200	J	0.0396	0.200	1	09/22/2023 16:59	WG2134607
Lithium	0.0954		0.00689	0.0150	1	09/22/2023 16:59	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:38	WG2134618
Arsenic	0.000529	J	0.000195	0.00100	1	09/27/2023 19:38	WG2134618
Barium	0.0560		0.000476	0.00500	1	09/27/2023 19:38	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:38	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 19:38	WG2134618
Calcium	69.6		0.112	1.00	1	09/27/2023 19:38	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:38	WG2134618
Cobalt	0.000310	J	0.000142	0.00200	1	09/27/2023 19:38	WG2134618
Lead	0.000568	B J	0.000513	0.00200	1	09/27/2023 19:38	WG2134618
Molybdenum	U		0.000841	0.00500	1	09/27/2023 19:38	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 19:38	WG2134618
Sodium	337		0.513	2.00	1	09/27/2023 19:38	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 19:38	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1180		25.0	1	09/18/2023 16:13	WG2134176

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	2100		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-07 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	598		8.45	20.0	1	09/21/2023 09:10	WG2135967

Sample Narrative:

L1656198-07 WG2135967: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	240		1.90	5.00	5	09/20/2023 11:05	WG2135217
Fluoride	0.211		0.0640	0.150	1	09/20/2023 10:51	WG2135217
Sulfate	175		0.594	5.00	1	09/20/2023 10:51	WG2135217

Mercury by Method 245.1

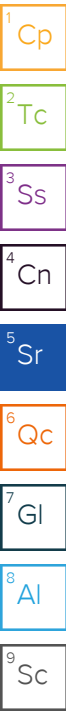
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	0.000831		0.000100	0.000200	1	09/23/2023 15:03	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.0803	J	0.0396	0.200	1	09/22/2023 17:02	WG2134607
Lithium	0.127		0.00689	0.0150	1	09/22/2023 17:02	WG2134607

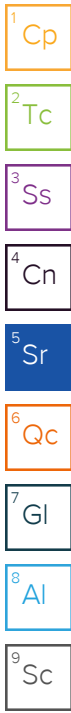
Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:41	WG2134618
Arsenic	0.000515	J	0.000195	0.00100	1	09/27/2023 19:41	WG2134618
Barium	0.0589		0.000476	0.00500	1	09/27/2023 19:41	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:41	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 19:41	WG2134618
Calcium	75.8		0.112	1.00	1	09/27/2023 19:41	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:41	WG2134618
Cobalt	0.000152	J	0.000142	0.00200	1	09/27/2023 19:41	WG2134618
Lead	U		0.000513	0.00200	1	09/27/2023 19:41	WG2134618
Molybdenum	U		0.000841	0.00500	1	09/27/2023 19:41	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 19:41	WG2134618
Sodium	369		0.513	2.00	1	09/27/2023 19:41	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 19:41	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	508		10.0	1	09/18/2023 16:13	WG2134176



Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	831		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-08 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	144		8.45	20.0	1	09/20/2023 12:36	WG2135598

Sample Narrative:

L1656198-08 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	31.6		0.379	1.00	1	09/20/2023 11:18	WG2135217
Fluoride	0.106	J	0.0640	0.150	1	09/20/2023 11:18	WG2135217
Sulfate	201		2.97	25.0	5	09/20/2023 11:32	WG2135217

Mercury by Method 245.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 15:06	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.0450	J	0.0396	0.200	1	09/22/2023 17:05	WG2134607
Lithium	0.0114	J	0.00689	0.0150	1	09/22/2023 17:05	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:44	WG2134618
Arsenic	0.000643	J	0.000195	0.00100	1	09/27/2023 19:44	WG2134618
Barium	0.0466		0.000476	0.00500	1	09/27/2023 19:44	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:44	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 19:44	WG2134618
Calcium	79.3		0.112	1.00	1	09/27/2023 19:44	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:44	WG2134618
Cobalt	0.000177	J	0.000142	0.00200	1	09/27/2023 19:44	WG2134618
Lead	U		0.000513	0.00200	1	09/27/2023 19:44	WG2134618
Molybdenum	U		0.000841	0.00500	1	09/27/2023 19:44	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 19:44	WG2134618
Sodium	81.0		0.513	2.00	1	09/27/2023 19:44	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 19:44	WG2134618

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	3980		100	1	09/18/2023 16:13	WG2134176

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

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	7690		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-09 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	423		8.45	20.0	1	09/20/2023 13:08	WG2135598

Sample Narrative:

L1656198-09 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	271		3.79	10.0	10	09/20/2023 11:46	WG2135217
Fluoride	U		0.640	1.50	10	09/20/2023 11:46	WG2135217
Sulfate	3350		59.4	500	100	09/20/2023 11:59	WG2135217

Sample Narrative:

L1656198-09 WG2135217: Dilution due to matrix.

Mercury by Method 245.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 15:08	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	3.12		0.0396	0.200	1	09/22/2023 17:08	WG2134607
Lithium	0.0266		0.00689	0.0150	1	09/22/2023 17:08	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:47	WG2134618
Arsenic	0.00204		0.000195	0.00100	1	09/27/2023 19:47	WG2134618
Barium	0.0482		0.000476	0.00500	1	09/27/2023 19:47	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:47	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 19:47	WG2134618
Calcium	396		0.112	1.00	1	09/27/2023 19:47	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:47	WG2134618
Cobalt	0.000436	J	0.000142	0.00200	1	09/27/2023 19:47	WG2134618
Lead	U		0.000513	0.00200	1	09/27/2023 19:47	WG2134618
Molybdenum	0.321		0.000841	0.00500	1	09/27/2023 19:47	WG2134618
Selenium	0.0544		0.000437	0.00200	1	09/27/2023 19:47	WG2134618

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	1580		2.56	10.0	5	09/27/2023 20:46	WG2134618
Thallium	0.000521	↓	0.000176	0.00100	1	09/27/2023 19:47	WG2134618

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	8100		200	1	09/18/2023 16:13	WG2134176

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	14200		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-10 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	83.0		8.45	20.0	1	09/20/2023 13:28	WG2135598

Sample Narrative:

L1656198-10 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	1600		3.79	10.0	10	09/20/2023 12:41	WG2135217
Fluoride	0.676	J	0.640	1.50	10	09/20/2023 12:41	WG2135217
Sulfate	5270		59.4	500	100	09/20/2023 12:54	WG2135217

Sample Narrative:

L1656198-10 WG2135217: Dilution due to matrix.

Mercury by Method 245.1

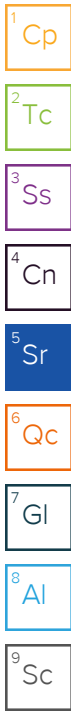
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 15:11	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	1.59		0.0396	0.200	1	09/22/2023 17:11	WG2134607
Lithium	0.0184		0.00689	0.0150	1	09/22/2023 17:11	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:51	WG2134618
Arsenic	0.0433		0.000195	0.00100	1	09/27/2023 19:51	WG2134618
Barium	0.128		0.000476	0.00500	1	09/27/2023 19:51	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:51	WG2134618
Cadmium	0.000164	J	0.000160	0.00100	1	09/27/2023 19:51	WG2134618
Calcium	226		0.112	1.00	1	09/27/2023 19:51	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:51	WG2134618
Cobalt	0.000180	J	0.000142	0.00200	1	09/27/2023 19:51	WG2134618
Lead	U		0.000513	0.00200	1	09/27/2023 19:51	WG2134618
Molybdenum	1.75		0.000841	0.00500	1	09/27/2023 19:51	WG2134618
Selenium	0.00137	J	0.000437	0.00200	1	09/27/2023 19:51	WG2134618



Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	2810		5.13	20.0	10	09/27/2023 20:52	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 19:51	WG2134618

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1440		50.0	1	09/18/2023 16:13	WG2134176

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	3500		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-11 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	258		8.45	20.0	1	09/20/2023 13:34	WG2135598

Sample Narrative:

L1656198-11 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	808		3.79	10.0	10	09/20/2023 13:22	WG2135217
Fluoride	U		0.0640	0.150	1	09/20/2023 13:08	WG2135217
Sulfate	196		5.94	50.0	10	09/20/2023 13:22	WG2135217

Mercury by Method 245.1

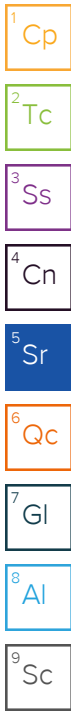
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 15:13	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.175	J	0.0396	0.200	1	09/22/2023 17:14	WG2134607
Lithium	0.113		0.00689	0.0150	1	09/22/2023 17:14	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:54	WG2134618
Arsenic	0.00942		0.000195	0.00100	1	09/27/2023 19:54	WG2134618
Barium	0.164		0.000476	0.00500	1	09/27/2023 19:54	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:54	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 19:54	WG2134618
Calcium	128		0.112	1.00	1	09/27/2023 19:54	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:54	WG2134618
Cobalt	0.00649		0.000142	0.00200	1	09/27/2023 19:54	WG2134618
Lead	U		0.000513	0.00200	1	09/27/2023 19:54	WG2134618
Molybdenum	0.00176	J	0.000841	0.00500	1	09/27/2023 19:54	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 19:54	WG2134618
Sodium	478		0.513	2.00	1	09/27/2023 19:54	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 19:54	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	716		13.3	1	09/18/2023 16:13	WG2134176

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1150		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-12 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	306		8.45	20.0	1	09/20/2023 13:40	WG2135598

Sample Narrative:

L1656198-12 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	13.5		0.379	1.00	1	09/20/2023 13:35	WG2135217
Fluoride	0.124	J	0.0640	0.150	1	09/20/2023 13:35	WG2135217
Sulfate	285		2.97	25.0	5	09/20/2023 13:49	WG2135217

Mercury by Method 245.1

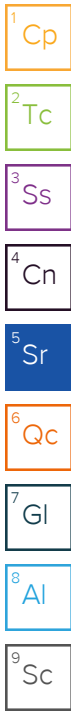
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 15:16	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.0829	J	0.0396	0.200	1	09/22/2023 17:34	WG2134607
Lithium	0.00983	J	0.00689	0.0150	1	09/22/2023 17:34	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 19:57	WG2134618
Arsenic	0.000242	J	0.000195	0.00100	1	09/27/2023 19:57	WG2134618
Barium	0.0520		0.000476	0.00500	1	09/27/2023 19:57	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 19:57	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 19:57	WG2134618
Calcium	143		0.112	1.00	1	09/27/2023 19:57	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 19:57	WG2134618
Cobalt	U		0.000142	0.00200	1	09/27/2023 19:57	WG2134618
Lead	0.00124	B J	0.000513	0.00200	1	09/27/2023 19:57	WG2134618
Molybdenum	U		0.000841	0.00500	1	09/27/2023 19:57	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 19:57	WG2134618
Sodium	117		0.513	2.00	1	09/27/2023 19:57	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 19:57	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	754		20.0	1	09/18/2023 16:13	WG2134176

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1270		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-13 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	520		8.45	20.0	1	09/20/2023 13:45	WG2135598

Sample Narrative:

L1656198-13 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	10.2		0.379	1.00	1	09/20/2023 14:03	WG2135217
Fluoride	0.0980	J	0.0640	0.150	1	09/20/2023 14:03	WG2135217
Sulfate	195		2.97	25.0	5	09/20/2023 14:17	WG2135217

Mercury by Method 245.1

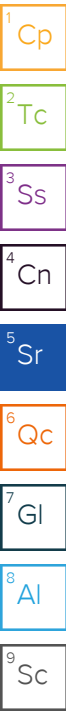
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 15:24	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.440		0.0396	0.200	1	09/22/2023 17:37	WG2134607
Lithium	0.0557		0.00689	0.0150	1	09/22/2023 17:37	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 20:23	WG2134618
Arsenic	0.000444	J	0.000195	0.00100	1	09/27/2023 20:23	WG2134618
Barium	0.138		0.000476	0.00500	1	09/27/2023 20:23	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 20:23	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 20:23	WG2134618
Calcium	186		0.112	1.00	1	09/27/2023 20:23	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 20:23	WG2134618
Cobalt	0.000799	J	0.000142	0.00200	1	09/27/2023 20:23	WG2134618
Lead	0.00116	B J	0.000513	0.00200	1	09/27/2023 20:23	WG2134618
Molybdenum	0.000987	J	0.000841	0.00500	1	09/27/2023 20:23	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 20:23	WG2134618
Sodium	59.4		0.513	2.00	1	09/27/2023 20:23	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 20:23	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	265		10.0	1	09/18/2023 22:55	WG2134228

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	466		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-14 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	202		8.45	20.0	1	09/20/2023 13:51	WG2135598

Sample Narrative:

L1656198-14 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	10.9		0.379	1.00	1	09/20/2023 14:30	WG2135217
Fluoride	0.256	P1	0.0640	0.150	1	09/20/2023 14:30	WG2135217
Sulfate	11.5		0.594	5.00	1	09/20/2023 14:30	WG2135217

Mercury by Method 245.1

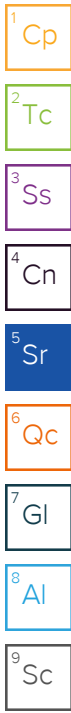
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U	J6 O1	0.000100	0.000200	1	09/23/2023 14:30	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	09/22/2023 17:17	WG2134607
Lithium	0.00826	J	0.00689	0.0150	1	09/22/2023 17:17	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 20:26	WG2134618
Arsenic	0.00117		0.000195	0.00100	1	09/27/2023 20:26	WG2134618
Barium	0.128		0.000476	0.00500	1	09/27/2023 20:26	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 20:26	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 20:26	WG2134618
Calcium	73.2		0.112	1.00	1	09/27/2023 20:26	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 20:26	WG2134618
Cobalt	U		0.000142	0.00200	1	09/27/2023 20:26	WG2134618
Lead	0.000688	B J	0.000513	0.00200	1	09/27/2023 20:26	WG2134618
Molybdenum	0.00296	J	0.000841	0.00500	1	09/27/2023 20:26	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 20:26	WG2134618
Sodium	8.99		0.513	2.00	1	09/27/2023 20:26	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 20:26	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	776		20.0	1	09/18/2023 22:55	WG2134228

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1170		10.0	1	09/17/2023 15:30	WG2133338

Sample Narrative:

L1656198-15 WG2133338: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	180		8.45	20.0	1	09/20/2023 13:56	WG2135598

Sample Narrative:

L1656198-15 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	20.1		0.379	1.00	1	09/20/2023 19:41	WG2135217
Fluoride	0.269		0.0640	0.150	1	09/20/2023 19:41	WG2135217
Sulfate	392		2.97	25.0	5	09/20/2023 19:54	WG2135217

Mercury by Method 245.1

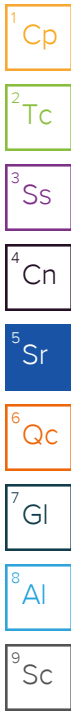
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 15:26	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.123	J	0.0396	0.200	1	09/22/2023 17:25	WG2134607
Lithium	0.00812	J	0.00689	0.0150	1	09/22/2023 17:25	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 20:29	WG2134618
Arsenic	0.000649	J	0.000195	0.00100	1	09/27/2023 20:29	WG2134618
Barium	0.0546		0.000476	0.00500	1	09/27/2023 20:29	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 20:29	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 20:29	WG2134618
Calcium	124		0.112	1.00	1	09/27/2023 20:29	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 20:29	WG2134618
Cobalt	0.000810	J	0.000142	0.00200	1	09/27/2023 20:29	WG2134618
Lead	0.000571	B J	0.000513	0.00200	1	09/27/2023 20:29	WG2134618
Molybdenum	0.00251	J	0.000841	0.00500	1	09/27/2023 20:29	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 20:29	WG2134618
Sodium	136		0.513	2.00	1	09/27/2023 20:29	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 20:29	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	376		10.0	1	09/18/2023 22:55	WG2134228

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	636		10.0	1	09/17/2023 17:00	WG2133943

Sample Narrative:

L1656198-16 WG2133943: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	247		8.45	20.0	1	09/20/2023 14:02	WG2135598

Sample Narrative:

L1656198-16 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	14.1		0.379	1.00	1	09/20/2023 20:08	WG2135217
Fluoride	0.380	P1	0.0640	0.150	1	09/20/2023 20:08	WG2135217
Sulfate	60.3	J6	0.594	5.00	1	09/20/2023 20:08	WG2135217

Mercury by Method 245.1

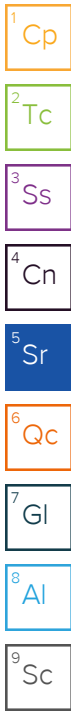
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 15:29	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.0778	J	0.0396	0.200	1	09/22/2023 17:28	WG2134607
Lithium	0.0135	J	0.00689	0.0150	1	09/22/2023 17:28	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	0.00294	J	0.00172	0.00500	1	09/27/2023 20:32	WG2134618
Arsenic	0.00191		0.000195	0.00100	1	09/27/2023 20:32	WG2134618
Barium	0.142		0.000476	0.00500	1	09/27/2023 20:32	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 20:32	WG2134618
Cadmium	U		0.000160	0.00100	1	09/27/2023 20:32	WG2134618
Calcium	78.9		0.112	1.00	1	09/27/2023 20:32	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 20:32	WG2134618
Cobalt	0.000489	J	0.000142	0.00200	1	09/27/2023 20:32	WG2134618
Lead	0.000610	B J	0.000513	0.00200	1	09/27/2023 20:32	WG2134618
Molybdenum	0.0565		0.000841	0.00500	1	09/27/2023 20:32	WG2134618
Selenium	0.00710		0.000437	0.00200	1	09/27/2023 20:32	WG2134618
Sodium	18.9		0.513	2.00	1	09/27/2023 20:32	WG2134618
Thallium	0.000201	J	0.000176	0.00100	1	09/27/2023 20:32	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	998		20.0	1	09/18/2023 22:55	WG2134228

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1650		10.0	1	09/17/2023 17:00	WG2133943

Sample Narrative:

L1656198-17 WG2133943: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	250		8.45	20.0	1	09/20/2023 14:07	WG2135598

Sample Narrative:

L1656198-17 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	234		1.90	5.00	5	09/20/2023 21:03	WG2135217
Fluoride	0.108	J	0.0640	0.150	1	09/20/2023 20:49	WG2135217
Sulfate	237		2.97	25.0	5	09/20/2023 21:03	WG2135217

Mercury by Method 245.1

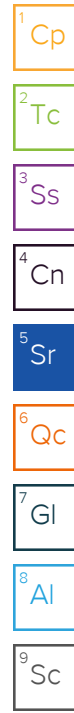
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/23/2023 15:46	WG2135843

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	09/22/2023 17:31	WG2134607
Lithium	0.0178		0.00689	0.0150	1	09/22/2023 17:31	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 20:36	WG2134618
Arsenic	U		0.000195	0.00100	1	09/27/2023 20:36	WG2134618
Barium	0.0867		0.000476	0.00500	1	09/27/2023 20:36	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 20:36	WG2134618
Cadmium	0.000236	J	0.000160	0.00100	1	09/27/2023 20:36	WG2134618
Calcium	175		0.112	1.00	1	09/27/2023 20:36	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 20:36	WG2134618
Cobalt	0.000287	J	0.000142	0.00200	1	09/27/2023 20:36	WG2134618
Lead	0.00105	B J	0.000513	0.00200	1	09/27/2023 20:36	WG2134618
Molybdenum	U		0.000841	0.00500	1	09/27/2023 20:36	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 20:36	WG2134618
Sodium	151		0.513	2.00	1	09/27/2023 20:36	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 20:36	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1350		25.0	1	09/18/2023 22:55	WG2134228

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1960		10.0	1	09/17/2023 17:00	WG2133943

Sample Narrative:

L1656198-18 WG2133943: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	239		8.45	20.0	1	09/20/2023 14:13	WG2135598

Sample Narrative:

L1656198-18 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	88.1		0.379	1.00	1	09/20/2023 21:17	WG2135217
Fluoride	0.103	J	0.0640	0.150	1	09/20/2023 21:17	WG2135217
Sulfate	678		2.97	25.0	5	09/20/2023 21:58	WG2135217

Mercury by Method 245.1

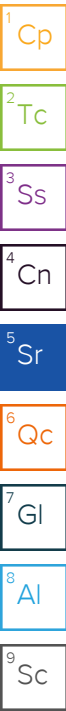
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/25/2023 11:53	WG2138395

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.0968	J	0.0396	0.200	1	09/22/2023 17:40	WG2134607
Lithium	0.0127	J	0.00689	0.0150	1	09/22/2023 17:40	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 20:39	WG2134618
Arsenic	0.00132		0.000195	0.00100	1	09/27/2023 20:39	WG2134618
Barium	0.0720		0.000476	0.00500	1	09/27/2023 20:39	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 20:39	WG2134618
Cadmium	0.000381	J	0.000160	0.00100	1	09/27/2023 20:39	WG2134618
Calcium	259		0.112	1.00	1	09/27/2023 20:39	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 20:39	WG2134618
Cobalt	0.00158	J	0.000142	0.00200	1	09/27/2023 20:39	WG2134618
Lead	0.000900	B J	0.000513	0.00200	1	09/27/2023 20:39	WG2134618
Molybdenum	U		0.000841	0.00500	1	09/27/2023 20:39	WG2134618
Selenium	U		0.000437	0.00200	1	09/27/2023 20:39	WG2134618
Sodium	168		0.513	2.00	1	09/27/2023 20:39	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 20:39	WG2134618



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	7180		200	1	09/18/2023 16:13	WG2134176

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	14100		10.0	1	09/17/2023 17:00	WG2133943

Sample Narrative:

L1656198-19 WG2133943: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	84.4		8.45	20.0	1	09/20/2023 14:27	WG2135598

Sample Narrative:

L1656198-19 WG2135598: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	1550		3.79	10.0	10	09/20/2023 22:12	WG2135217
Fluoride	0.762	J	0.640	1.50	10	09/20/2023 22:12	WG2135217
Sulfate	5180		59.4	500	100	09/20/2023 22:25	WG2135217

Sample Narrative:

L1656198-19 WG2135217: Dilution due to matrix.

Mercury by Method 245.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	09/25/2023 12:00	WG2138395

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	1.78		0.0396	0.200	1	09/22/2023 17:43	WG2134607
Lithium	0.0203		0.00689	0.0150	1	09/22/2023 17:43	WG2134607

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	09/27/2023 20:42	WG2134618
Arsenic	0.0440		0.000195	0.00100	1	09/27/2023 20:42	WG2134618
Barium	0.138		0.000476	0.00500	1	09/27/2023 20:42	WG2134618
Beryllium	U		0.000201	0.00100	1	09/27/2023 20:42	WG2134618
Cadmium	0.000160	J	0.000160	0.00100	1	09/27/2023 20:42	WG2134618
Calcium	239		0.112	1.00	1	09/27/2023 20:42	WG2134618
Chromium	U		0.00560	0.0200	1	09/27/2023 20:42	WG2134618
Cobalt	0.000215	J	0.000142	0.00200	1	09/27/2023 20:42	WG2134618
Lead	0.000648	B J	0.000513	0.00200	1	09/27/2023 20:42	WG2134618
Molybdenum	1.57		0.00841	0.0500	10	09/27/2023 21:08	WG2134618
Selenium	0.00189	J	0.000437	0.00200	1	09/27/2023 20:42	WG2134618



DUPLICATE

SAMPLE RESULTS - 19

Collected date/time: 09/12/23 00:00

L1656198

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Sodium	2710		5.13	20.0	10	09/27/2023 21:08	WG2134618
Thallium	U		0.000176	0.00100	1	09/27/2023 20:42	WG2134618

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

Method Blank (MB)

(MB) R3974907-1 09/17/23 22:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1655684-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1655684-03 09/17/23 22:21 • (DUP) R3974907-3 09/17/23 22:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	221	237	1	6.99	J3	5

⁴Cn

⁵Sr

L1655684-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1655684-05 09/17/23 22:21 • (DUP) R3974907-4 09/17/23 22:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	270	282	1	4.35		5

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3974907-2 09/17/23 22:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8360	95.0	77.3-123	

⁹Sc

Method Blank (MB)

(MB) R3975546-1 09/17/23 22:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

L1655773-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1655773-09 09/17/23 22:52 • (DUP) R3975546-3 09/17/23 22:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	179	185	1	3.30		5

4 Cn

5 Sr

6 Qc

L1655773-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1655773-10 09/17/23 22:52 • (DUP) R3975546-4 09/17/23 22:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	181	188	1	3.79		5

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3975546-2 09/17/23 22:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8290	94.2	77.3-123	

Method Blank (MB)

(MB) R3975542-1 09/18/23 16:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1656198-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1656198-06 09/18/23 16:13 • (DUP) R3975542-3 09/18/23 16:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1060	1110	1	4.99		5

L1656198-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1656198-07 09/18/23 16:13 • (DUP) R3975542-4 09/18/23 16:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1180	1210	1	1.88		5

Laboratory Control Sample (LCS)

(LCS) R3975542-2 09/18/23 16:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8450	96.0	77.3-123	

Method Blank (MB)

(MB) R3975713-1 09/18/23 22:55

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

1 Cp

2 Tc

3 Ss

L1656631-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1656631-10 09/18/23 22:55 • (DUP) R3975713-3 09/18/23 22:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Dissolved Solids	186	191	1	2.65		5

4 Cn

5 Sr

L1656631-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1656631-11 09/18/23 22:55 • (DUP) R3975713-4 09/18/23 22:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Dissolved Solids	552	555	1	0.483		5

6 Qc

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R3975713-2 09/18/23 22:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8530	96.9	77.3-123	

9 Sc

Method Blank (MB)

(MB) R3974155-1 09/17/23 15:30

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1656150-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1656150-01 09/17/23 15:30 • (DUP) R3974155-3 09/17/23 15:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	3180	3260	1	2.48		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1656198-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1656198-15 09/17/23 15:30 • (DUP) R3974155-4 09/17/23 15:30

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	1170	1170	1	0.0858		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3974155-2 09/17/23 15:30

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	732	750	102	85.0-115	

Sample Narrative:

LCS: at 25C

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3974163-1 09/17/23 17:00

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1656050-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1656050-01 09/17/23 17:00 • (DUP) R3974163-3 09/17/23 17:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	447	452	1	1.11		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1656762-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1656762-01 09/17/23 17:00 • (DUP) R3974163-4 09/17/23 17:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	534	538	1	0.746		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3974163-2 09/17/23 17:00

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	732	740	101	85.0-115	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R3975482-2 09/20/23 11:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1656141-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1656141-02 09/20/23 12:27 • (DUP) R3975482-4 09/20/23 12:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	33.4	33.8	1	0.905		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1656272-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1656272-02 09/20/23 14:21 • (DUP) R3975482-6 09/20/23 14:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	82.7	83.9	1	1.40		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3975482-1 09/20/23 11:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100	99.8	99.8	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3975477-2 09/20/23 12:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1656198-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1656198-08 09/20/23 12:36 • (DUP) R3975477-3 09/20/23 12:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	144	148	1	2.44		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1656198-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1656198-19 09/20/23 14:27 • (DUP) R3975477-4 09/20/23 14:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	84.4	85.5	1	1.25		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3975477-1 09/20/23 12:04

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100	99.3	99.3	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5



Method Blank (MB)

(MB) R3975995-2 09/21/23 08:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1656148-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1656148-01 09/21/23 10:31 • (DUP) R3975995-3 09/21/23 08:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	428	431	1	0.811		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1656258-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1656258-08 09/21/23 10:38 • (DUP) R3975995-4 09/21/23 10:44

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	184	184	1	0.171		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3975995-1 09/21/23 08:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100	107	107	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5



Method Blank (MB)

(MB) R3975738-1 09/20/23 07:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1656198-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1656198-14 09/20/23 14:30 • (DUP) R3975738-3 09/20/23 14:44

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	10.9	10.4	1	4.29		15
Fluoride	0.256	0.301	1	16.0	P1	15
Sulfate	11.5	10.9	1	5.20		15

L1656198-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1656198-16 09/20/23 20:08 • (DUP) R3975738-14 09/20/23 20:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	14.1	14.1	1	0.0355		15
Fluoride	0.380	0.478	1	22.8	P1	15
Sulfate	60.3	60.4	1	0.225		15

Laboratory Control Sample (LCS)

(LCS) R3975738-2 09/20/23 07:25

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	39.8	99.5	90.0-110	
Fluoride	8.00	7.91	98.9	90.0-110	
Sulfate	40.0	39.5	98.9	90.0-110	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1656198-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656198-14 09/20/23 14:30 • (MS) R3975738-12 09/20/23 19:13 • (MSD) R3975738-13 09/20/23 19:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	10.9	48.7	48.6	94.4	94.4	1	80.0-120			0.0491	15
Fluoride	8.00	0.256	8.38	8.52	102	103	1	80.0-120			1.68	15
Sulfate	40.0	11.5	47.3	47.2	89.6	89.3	1	80.0-120			0.187	15

L1656198-16 Original Sample (OS) • Matrix Spike (MS)

(OS) L1656198-16 09/20/23 20:08 • (MS) R3975738-15 09/20/23 20:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	14.1	51.0	92.2	1	80.0-120	
Fluoride	8.00	0.380	8.27	98.7	1	80.0-120	
Sulfate	40.0	60.3	86.0	64.3	1	80.0-120	<u>J6</u>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3976946-1 09/23/23 14:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Mercury	U		0.000100	0.000200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3976946-7 09/23/23 15:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Mercury	0.00300	0.00341	114	85.0-115	

L1656198-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656198-01 09/23/23 14:22 • (MS) R3976946-3 09/23/23 14:25 • (MSD) R3976946-4 09/23/23 14:27

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.00300	U	0.000106	U	3.54	0.000	1	70.0-130	J6	J3 J6	200	20

7 Gl

8 Al

9 Sc

L1656198-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656198-14 09/23/23 14:30 • (MS) R3976946-5 09/23/23 14:33 • (MSD) R3976946-6 09/23/23 14:35

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.00300	U	0.000402	0.000401	13.4	13.4	1	70.0-130	J6	J6	0.116	20

Method Blank (MB)

(MB) R3977574-1 09/25/23 11:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000100	0.000200

Laboratory Control Sample (LCS)

(LCS) R3977574-2 09/25/23 11:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00326	109	85.0-115	

L1656848-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656848-01 09/25/23 11:35 • (MS) R3977574-3 09/25/23 11:37 • (MSD) R3977574-4 09/25/23 11:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00331	0.00326	110	109	1	70.0-130			1.62	20

L1656849-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656849-01 09/25/23 11:42 • (MS) R3977574-5 09/25/23 11:45 • (MSD) R3977574-6 09/25/23 11:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00306	0.00308	102	103	1	70.0-130			0.650	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3976857-1 09/22/23 16:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron	U		0.0396	0.200
Lithium	U		0.00689	0.0150

Laboratory Control Sample (LCS)

(LCS) R3976857-2 09/22/23 16:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Boron	1.00	1.02	102	85.0-115	
Lithium	1.00	1.01	101	85.0-115	

L1656174-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656174-01 09/22/23 16:20 • (MS) R3976857-4 09/22/23 16:26 • (MSD) R3976857-5 09/22/23 16:29

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	1.00	7.53	8.61	8.41	108	88.1	1	70.0-130			2.33	20
Lithium	1.00	0.122	1.16	1.12	104	100	1	70.0-130			3.14	20

L1656198-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656198-01 09/22/23 16:32 • (MS) R3976857-6 09/22/23 16:35 • (MSD) R3976857-7 09/22/23 16:38

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	1.00	0.356	1.34	1.34	98.5	98.5	1	70.0-130			0.0217	20
Lithium	1.00	0.00834	1.01	1.01	100	100	1	70.0-130			0.153	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3978588-1 09/27/23 18:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.00172	0.00500
Arsenic	U		0.000195	0.00100
Barium	U		0.000476	0.00500
Beryllium	U		0.000201	0.00100
Cadmium	U		0.000160	0.00100
Calcium	U		0.112	1.00
Chromium	U		0.00560	0.0200
Cobalt	U		0.000142	0.00200
Lead	0.00108	U	0.000513	0.00200
Molybdenum	U		0.000841	0.00500
Selenium	U		0.000437	0.00200
Sodium	U		0.513	2.00
Thallium	U		0.000176	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3978588-2 09/27/23 18:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0523	105	85.0-115	
Arsenic	0.0500	0.0521	104	85.0-115	
Barium	0.0500	0.0519	104	85.0-115	
Beryllium	0.0500	0.0520	104	85.0-115	
Cadmium	0.0500	0.0513	103	85.0-115	
Calcium	5.00	5.65	113	85.0-115	
Chromium	0.0500	0.0518	104	85.0-115	
Cobalt	0.0500	0.0523	105	85.0-115	
Lead	0.0500	0.0516	103	85.0-115	
Molybdenum	0.0500	0.0519	104	85.0-115	
Selenium	0.0500	0.0568	114	85.0-115	
Sodium	5.00	5.18	104	85.0-115	
Thallium	0.0500	0.0485	96.9	85.0-115	

L1656072-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656072-01 09/27/23 18:52 • (MS) R3978588-4 09/27/23 18:59 • (MSD) R3978588-5 09/27/23 19:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	U	0.0560	0.0546	112	109	1	70.0-130			2.43	20
Arsenic	0.0500	0.000249	0.0525	0.0538	105	107	1	70.0-130			2.35	20
Barium	0.0500	0.0113	0.0634	0.0647	104	107	1	70.0-130			2.10	20
Beryllium	0.0500	U	0.0518	0.0520	104	104	1	70.0-130			0.297	20
Cadmium	0.0500	U	0.0513	0.0533	103	107	1	70.0-130			3.81	20
Calcium	5.00	58.4	63.8	65.3	109	139	1	70.0-130		∇	2.28	20
Chromium	0.0500	U	0.0505	0.0518	101	104	1	70.0-130			2.57	20
Cobalt	0.0500	0.000284	0.0516	0.0512	103	102	1	70.0-130			0.808	20
Lead	0.0500	0.00101	0.0520	0.0533	102	104	1	70.0-130			2.43	20
Molybdenum	0.0500	0.00490	0.0578	0.0586	106	107	1	70.0-130			1.25	20
Selenium	0.0500	U	0.0558	0.0594	112	119	1	70.0-130			6.28	20
Sodium	5.00	62.1	73.1	75.0	221	259	1	70.0-130	∇	∇	2.57	20
Thallium	0.0500	U	0.0486	0.0505	97.3	101	1	70.0-130			3.71	20

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

L1656198-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656198-02 09/27/23 19:06 • (MS) R3978588-6 09/27/23 19:09 • (MSD) R3978588-7 09/27/23 19:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	U	0.0526	0.0507	105	101	1	70.0-130			3.63	20
Arsenic	0.0500	0.000374	0.0514	0.0500	102	99.3	1	70.0-130			2.64	20
Barium	0.0500	0.0405	0.0885	0.0855	95.9	90.0	1	70.0-130			3.38	20
Beryllium	0.0500	U	0.0499	0.0497	99.9	99.5	1	70.0-130			0.398	20
Cadmium	0.0500	0.000204	0.0507	0.0489	101	97.4	1	70.0-130			3.62	20
Calcium	5.00	286	281	265	0.000	0.000	1	70.0-130	∇	∇	5.81	20
Chromium	0.0500	U	0.0488	0.0486	97.6	97.3	1	70.0-130			0.313	20
Cobalt	0.0500	0.00331	0.0517	0.0518	96.7	96.9	1	70.0-130			0.215	20
Lead	0.0500	U	0.0506	0.0498	101	99.5	1	70.0-130			1.62	20
Molybdenum	0.0500	U	0.0532	0.0510	106	102	1	70.0-130			4.16	20
Selenium	0.0500	U	0.0534	0.0546	107	109	1	70.0-130			2.18	20
Sodium	5.00	26.6	30.7	29.4	80.9	56.6	1	70.0-130		∇	4.05	20
Thallium	0.0500	U	0.0471	0.0475	94.3	94.9	1	70.0-130			0.678	20

GLOSSARY OF TERMS

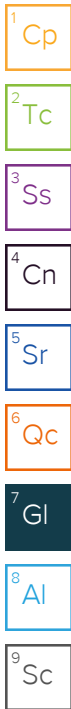
Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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



Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

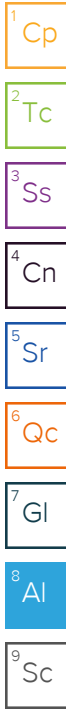
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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



Company Name/Address:
Enercon - Oklahoma City, OK

2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Billing Information:
Accounts Payable - Lisa Hedrick
 2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___



MT JULIET, TN

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 Submitting a sample via this chain of custody
 constitutes acknowledgment and acceptance of the
 Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **U65692**

Table **C108**

Acctnum: **ENERCOOK**

Template: **T206542**

Prelogin: **P1022460**

PM: **104 - Jason Romer**

PB: **9/11/23 TUS**

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

Report to:
Rusty Lynch

Email To:
 rlynch@enercon.com;ccurrent@enercon.com

Project Description:
GREC, Chouteau, OK

City/State Collected: **Chouteau/OK**

Please Circle:
 PT MT **CT** ET

Phone: **405-722-7693**

Client Project #
GRDA - 00027

Lab Project #
ENERCOOK-GRDA

Collected by (print):
Caleb Cope

Site/Facility ID #
GRDA-GREC

P.O. #
PACE/4-E002-00

Collected by (signature):

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Quote #

Date Results Needed
STD TAT

No. of Cntrs

Immediately Packed on Ice N ___ Y **X**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	Cl, F, SO4 125mlHDPE-NoPres	RA-226, 1L-HDPE-Add HNO3, Plus RA-228	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3							
MW93-1	G	DW		9-11-23	1110	5	X	X	X	X	X							01
MW22-01	G	DW		9-11-23	1215	5	X	X	X	X	X							02
MW22-05	G	DW		9-11-23	1345	5	X	X	X	X	X							03
MW22-03	G	DW		9-11-23	1520	5	X	X	X	X	X							04
MW22-06	G	DW		9-11-23	1630	5	X	X	X	X	X							05
MW22-08	G	DW		9-12-23	0945	5	X	X	X	X	X							06
MW93-3	G	DW		9-12-23	1040	5	X	X	X	X	X							07
MW22-04	G	DW		9-12-23	1200	5	X	X	X	X	X							08
MW22-02	G	DW		9-12-23	1305	5	X	X	X	X	X							09
MW93-2	G	DW		9-12-23	1405	5	X	X	X	X	X							10

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
please run both RA-226 and RA-228

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
 ___ UPS ___ FedEx ___ Courier

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y	N
COC Signed/Accurate:		Y	N
Bottles arrive intact:		Y	N
Correct bottles used:		Y	N
Sufficient volume sent:		Y	N
If Applicable			
VOA Zero Headspace:		Y	N
Preservation Correct/Checked:		Y	N
RAD Screen <0.5 mR/hr:		Y	N

Relinquished by: (Signature)

Date: **9-13-23**

Time: **1730**

Received by: (Signature)

Trip Blank Received: Yes / **NO**
 HCL/MeOH
 TBR

Relinquished by: (Signature)

Date: **9-14-23**

Time: **1645**

Received by: (Signature)

Temp: _____ °C Bottles Received: **95**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: **9-15-23** Time: **0800**

Hold:

Condition:
 NCF / **OK**

Company Name/Address: **Enercon - Oklahoma City, OK**
 2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Billing Information:
 Accounts Payable - Lisa Hedrick
 2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Analysis / Container / Preservative
 Pres Chk:

Chain of Custody Page **2** of **2**

Report to: **Rusty Lynch**
 Email To: **rlynch@enercon.com;current@enercon.com**

Project Description: **GREC, Chouteau, OK**
 City/State Collected: **Chouteau/OK**
 Please Circle: PT MT ET

Phone: **405-722-7693**
 Client Project #: **GRDA - 00027**
 Lab Project #: **ENERCOOK-GRDA**

Collected by (print): **Caleb Cope**
 Site/Facility ID #
 P.O. #: **PACE14-E002-00**

Collected by (signature): *Caleb Cope*
 Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day
 Date Results Needed: **STD. TAT**
 No. of Cntrs: **5**

Sample ID / Comp/Grab / Matrix * / Depth / Date / Time / Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	ALK 125mlHDPE-NoPres	Cl, F, S04 125mlHDPE-NoPres	RA-226, 1L-HDPE-Add HNO3 Plus RA-228	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3							
MW22-03	G	DW	-	9-12-23	1545	5	X	X	X	X	X							
MW22-07	G	DW	-	9-12-23	1640	5	X	X	X	X	X							11
MW23-05	G	DW	-	9-12-23	1805	5	X	X	X	X	X							12
MW23-04	G	DW	-	9-13-23	0905	5	X	X	X	X	X							13
MW23-06	G	DW	-	9-13-23	1025	5	X	X	X	X	X							14
MW23-03	G	DW	-	9-13-23	1150	5	X	X	X	X	X							15
MW23-02	G	DW	-	9-13-23	1430	5	X	X	X	X	X							16
MW23-01	G	DW	-	9-13-23	1530	5	X	X	X	X	X							17
Duplicate	G	DW	-	9-12-23	0000	5	X	X	X	X	X							18
		DW	-			5	X	X	X	X	X							19

* Matrix: SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **please run both RA-226 and RA-228**

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via: UPS FedEx Courier
 Tracking # _____

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N

If Applicable

VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature) *Caleb Cope* Date: **9-13-23** Time: **1730** Received by: (Signature) *[Signature]* Trip Blank Received: Yes / No
 HCL / MeOH
 TBR

Relinquished by: (Signature) *[Signature]* Date: **9-14-23** Time: **1645** Received by: (Signature) *[Signature]* Temp: _____ °C Bottles Received: **95** If preservation required by Login: Date/Time

Relinquished by: (Signature) _____ Date: _____ Time: _____ Received for lab by: (Signature) *[Signature]* Date: **9-15-23** Time: **0820** Hold: _____ Condition: **NCF / OK**



MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

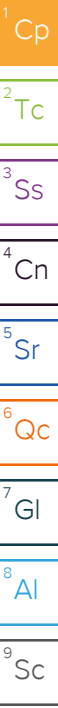
SDG #: **U656198**

Table #

Acctnum: **ENERCOOK**
 Template: **T206542**
 Prelogin: **P1022460**
 PM: **104 - Jason Romer**
 PB: **9/1/23 TJS**
 Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

Tracking Numbers		Temperature
SWA		CL 18 $2.1 \times 0 = 2.1$
SWA		$1.5 \times 0 = 1.5$ CL 18
SWA		$2.3 \times 0 = 2.3$ CL 19
SWA		$3.0 \times 0 = 3.0$



Enercon - Oklahoma City, OK

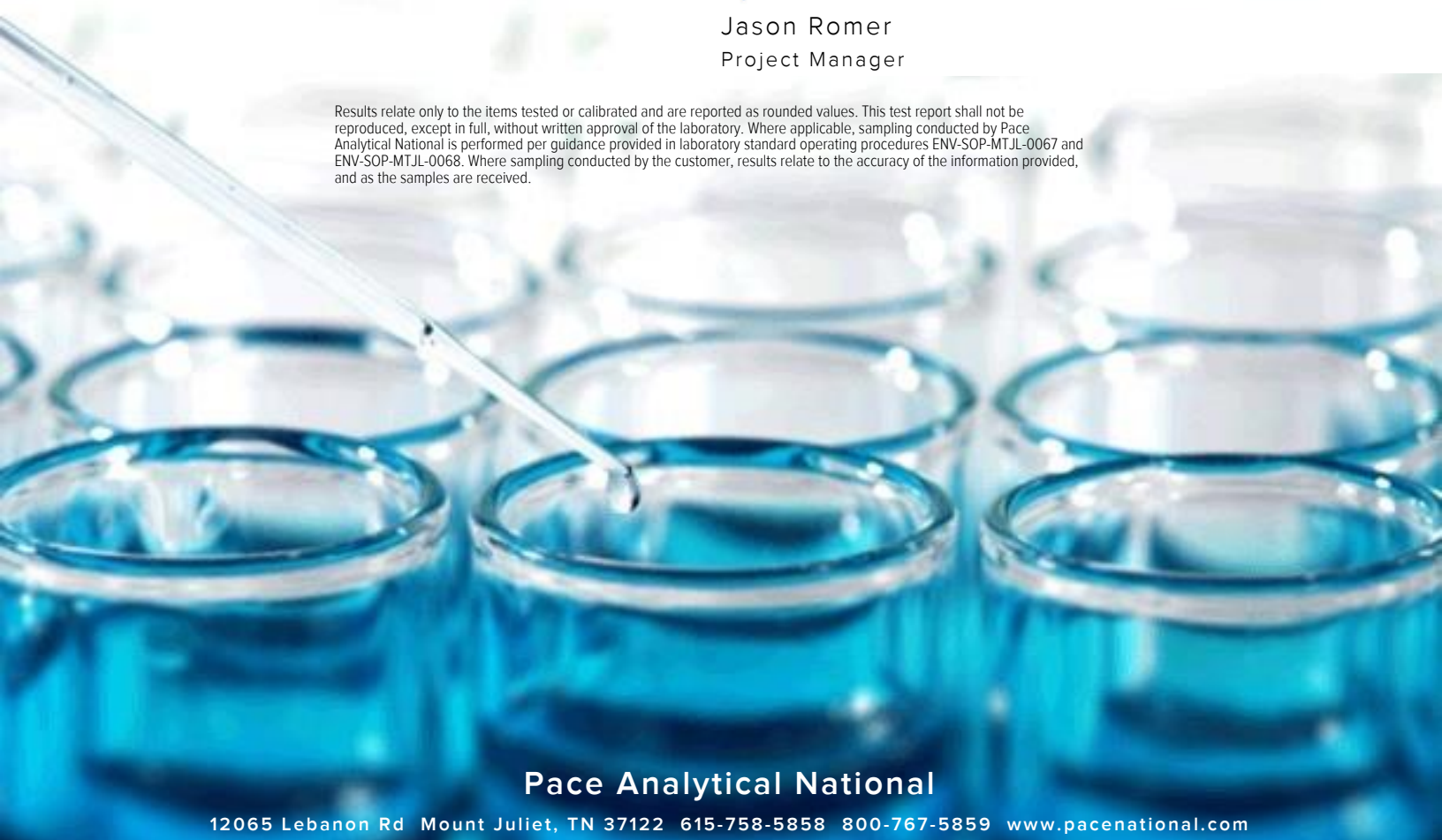
Sample Delivery Group: L1656201
Samples Received: 09/15/2023
Project Number: GRDA-00027
Description: GREC, Chouteau, OK
Site: GRDA-GREC
Report To: Rusty Lynch
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Entire Report Reviewed By:



Jason Romer
Project Manager

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

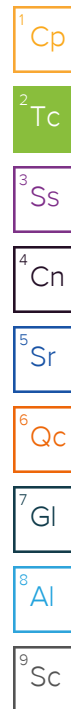


Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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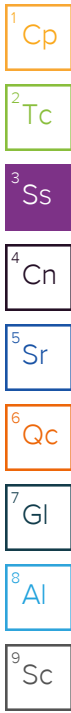


SAMPLE SUMMARY

MW93-1 L1656201-01 DW

Collected by: Caleb Cope
 Collected date/time: 09/11/23 11:10
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 20:17	SNR	Mt. Juliet, TN



MW22-01 L1656201-02 DW

Collected by: Caleb Cope
 Collected date/time: 09/11/23 12:15
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 20:17	SNR	Mt. Juliet, TN

MW22-05 L1656201-03 DW

Collected by: Caleb Cope
 Collected date/time: 09/11/23 13:45
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 20:17	SNR	Mt. Juliet, TN

MW03-2 L1656201-04 DW

Collected by: Caleb Cope
 Collected date/time: 09/11/23 15:20
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 21:17	SNR	Mt. Juliet, TN

MW22-06 L1656201-05 DW

Collected by: Caleb Cope
 Collected date/time: 09/11/23 16:30
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 21:17	SNR	Mt. Juliet, TN

MW22-08 L1656201-06 DW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 09:45
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 21:17	SNR	Mt. Juliet, TN

MW93-3 L1656201-07 DW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 10:40
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 21:17	SNR	Mt. Juliet, TN

SAMPLE SUMMARY

MW22-04 L1656201-08 DW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 12:00
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 22:17	SNR	Mt. Juliet, TN

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

MW22-02 L1656201-09 DW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 13:05
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 22:17	SNR	Mt. Juliet, TN

MW93-2 L1656201-10 DW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 14:05
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 22:17	SNR	Mt. Juliet, TN

MW22-03 L1656201-11 DW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 15:45
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 22:17	SNR	Mt. Juliet, TN

MW22-07 L1656201-12 DW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 16:40
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 23:17	SNR	Mt. Juliet, TN

MW23-05 L1656201-13 DW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 18:05
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 23:17	SNR	Mt. Juliet, TN

MW23-04 L1656201-14 DW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 09:05
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 23:17	SNR	Mt. Juliet, TN

SAMPLE SUMMARY

MW23-06 L1656201-15 DW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 10:25
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/27/23 23:17	SNR	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

MW23-03 L1656201-16 DW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 11:50
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/28/23 00:18	SNR	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

MW23-02 L1656201-17 DW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 14:30
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2143259	1	10/02/23 14:02	10/05/23 12:46	SNR	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/28/23 00:18	SNR	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

MW23-01 L1656201-18 DW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 15:30
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2157228	1	10/12/23 19:47	10/18/23 15:11	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/28/23 00:18	SNR	Mt. Juliet, TN

DUPLICATE L1656201-19 DW

Collected by: Caleb Cope
 Collected date/time: 09/12/23 00:00
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2157228	1	10/12/23 19:47	10/18/23 15:11	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2137602	1	09/22/23 13:26	09/28/23 00:18	SNR	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jason Romer
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.428	J	0.306		0.542		10/05/2023 12:46	WG2143259
(T) Barium	94.5					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	78.9					25.0-150	10/05/2023 12:46	WG2143259

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.136	J	0.188		0.246		09/27/2023 20:17	WG2137602
(T) Barium	114					63.0-143	09/27/2023 20:17	WG2137602

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.560		0.262		0.457		10/05/2023 12:46	WG2143259
(T) Barium	106					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	95.6					25.0-150	10/05/2023 12:46	WG2143259

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.397		0.259		0.252		09/27/2023 20:17	WG2137602
(T) Barium	108					63.0-143	09/27/2023 20:17	WG2137602

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.61		0.292		0.474		10/05/2023 12:46	WG2143259
(T) Barium	101					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	86.5					25.0-150	10/05/2023 12:46	WG2143259

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.802		0.359		0.294		09/27/2023 20:17	WG2137602
(T) Barium	110					63.0-143	09/27/2023 20:17	WG2137602

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.503		0.220		0.384		10/05/2023 12:46	WG2143259
(T) Barium	102					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	96.9					25.0-150	10/05/2023 12:46	WG2143259

1 Cp

2 Tc

3 Ss

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.208	J	0.255		0.373		09/27/2023 21:17	WG2137602
(T) Barium	95.1					63.0-143	09/27/2023 21:17	WG2137602

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.365	J	0.231		0.408		10/05/2023 12:46	WG2143259
(T) Barium	103					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	114					25.0-150	10/05/2023 12:46	WG2143259

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.402		0.263		0.258		09/27/2023 21:17	WG2137602
(T) Barium	106					63.0-143	09/27/2023 21:17	WG2137602

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.283	J	0.231		0.411		10/05/2023 12:46	WG2143259
(T) Barium	105					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	120					25.0-150	10/05/2023 12:46	WG2143259

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0655	U	0.157		0.259		09/27/2023 21:17	WG2137602
(T) Barium	103					63.0-143	09/27/2023 21:17	WG2137602

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.552		0.236		0.410		10/05/2023 12:46	WG2143259
(T) Barium	113					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	104					25.0-150	10/05/2023 12:46	WG2143259

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.496		0.297		0.301		09/27/2023 21:17	WG2137602
(T) Barium	106					63.0-143	09/27/2023 21:17	WG2137602

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.696		0.341		0.594		10/05/2023 12:46	WG2143259
(T) Barium	99.4					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	90.8					25.0-150	10/05/2023 12:46	WG2143259

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.331	J	0.275		0.358		09/27/2023 22:17	WG2137602
(T) Barium	98.7					63.0-143	09/27/2023 22:17	WG2137602

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.186	<u>U</u>	0.268		0.480		10/05/2023 12:46	WG2143259
(T) Barium	117					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	126					25.0-150	10/05/2023 12:46	WG2143259

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.266		0.225		0.234		09/27/2023 22:17	WG2137602
(T) Barium	119					63.0-143	09/27/2023 22:17	WG2137602

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.45		0.279		0.463		10/05/2023 12:46	WG2143259
(T) Barium	125					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	120					25.0-150	10/05/2023 12:46	WG2143259

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.20		0.407		0.207		09/27/2023 22:17	WG2137602
(T) Barium	136					63.0-143	09/27/2023 22:17	WG2137602

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.669		0.316		0.551		10/05/2023 12:46	WG2143259
(T) Barium	108					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	96.2					25.0-150	10/05/2023 12:46	WG2143259

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.41		0.590		0.435		09/27/2023 22:17	WG2137602
(T) Barium	109					63.0-143	09/27/2023 22:17	WG2137602

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.0462	<u>U</u>	0.373		0.672		10/05/2023 12:46	WG2143259
(T) Barium	97.4					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	79.5					25.0-150	10/05/2023 12:46	WG2143259

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.227	<u>J</u>	0.246		0.336		09/27/2023 23:17	WG2137602
(T) Barium	105					63.0-143	09/27/2023 23:17	WG2137602

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.29		0.330		0.558		10/05/2023 12:46	WG2143259
(T) Barium	106					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	97.4					25.0-150	10/05/2023 12:46	WG2143259

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.131	J	0.182		0.258		09/27/2023 23:17	WG2137602
(T) Barium	104					63.0-143	09/27/2023 23:17	WG2137602

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.04		0.331		0.566		10/05/2023 12:46	WG2143259
(T) Barium	111					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	126					25.0-150	10/05/2023 12:46	WG2143259

1 Cp

2 Tc

3 Ss

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.479		0.285		0.275		09/27/2023 23:17	WG2137602
(T) Barium	93.7					63.0-143	09/27/2023 23:17	WG2137602

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.608		0.312		0.545		10/05/2023 12:46	WG2143259
(T) Barium	102					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	109					25.0-150	10/05/2023 12:46	WG2143259

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.243	J	0.245		0.329		09/27/2023 23:17	WG2137602
(T) Barium	93.5					63.0-143	09/27/2023 23:17	WG2137602

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.644		0.317		0.553		10/05/2023 12:46	WG2143259
(T) Barium	115					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	144					25.0-150	10/05/2023 12:46	WG2143259

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.833		0.366		0.344		09/28/2023 00:18	WG2137602
(T) Barium	101					63.0-143	09/28/2023 00:18	WG2137602

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.824		0.387		0.674		10/05/2023 12:46	WG2143259
(T) Barium	105					25.0-150	10/05/2023 12:46	WG2143259
(T) Yttrium	72.4					25.0-150	10/05/2023 12:46	WG2143259

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.237	J	0.220		0.272		09/28/2023 00:18	WG2137602
(T) Barium	96.2					63.0-143	09/28/2023 00:18	WG2137602

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.157	<u>U</u>	0.276		0.510		10/18/2023 15:11	WG2157228
(T) Barium	113					25.0-150	10/18/2023 15:11	WG2157228
(T) Yttrium	105					25.0-150	10/18/2023 15:11	WG2157228

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.191	<u>J</u>	0.197		0.240		09/28/2023 00:18	WG2137602
(T) Barium	110					63.0-143	09/28/2023 00:18	WG2137602

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	4.25		0.587		0.911		10/18/2023 15:11	WG2157228
(T) Barium	65.7					25.0-150	10/18/2023 15:11	WG2157228
(T) Yttrium	81.6					25.0-150	10/18/2023 15:11	WG2157228

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.16		0.408		0.247		09/28/2023 00:18	WG2137602
(T) Barium	131					63.0-143	09/28/2023 00:18	WG2137602

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

Method Blank (MB)

(MB) R3984476-1 10/05/23 12:46

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.0759	<u>U</u>	0.172	0.315	
(T) Barium	123		123		
(T) Yttrium	106		106		

L1655818-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1655818-01 10/05/23 12:46 • (DUP) R3984476-3 10/05/23 12:46

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.26	0.386	0.659		1.53	0.321	0.532		19.5	0.542		20	2
(T) Barium	113				110	110							
(T) Yttrium	90.3				98.4	98.4							

Laboratory Control Sample (LCS)

(LCS) R3984476-2 10/05/23 12:46

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.22	104	80.0-120	
(T) Barium			114		
(T) Yttrium			98.4		

L1655491-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1655491-01 10/05/23 12:46 • (MS) R3984476-8 10/16/23 13:50 • (MSD) R3984476-9 10/16/23 13:50

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	33.3	0.251	24.7	23.7	73.4	70.4	1	70.0-130			4.14		20
(T) Barium		117			121	129							
(T) Yttrium		91.3			86.3	89.2							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3993605-1 10/27/23 19:56

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.189	↓	0.183	0.227	
(T) Barium	112		112		
(T) Yttrium	113		113		

L1662321-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1662321-01 10/27/23 19:56 • (DUP) R3993605-5 10/27/23 19:56

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.611	0.233	0.401		1.46	0.399	0.676		81.7	1.83		20	2
(T) Barium	114				97.4	97.4							
(T) Yttrium	104				107	107							

Laboratory Control Sample (LCS)

(LCS) R3993605-2 10/27/23 19:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.68	93.5	80.0-120	
(T) Barium			108		
(T) Yttrium			106		

L1665889-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1665889-01 10/27/23 19:56 • (MS) R3993605-3 10/27/23 19:56 • (MSD) R3993605-4 10/27/23 19:56

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	2.16	12.3	12.3	101	101	1	70.0-130			0.0815		20
(T) Barium		113			137	116							
(T) Yttrium		105			115	102							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3984616-1 09/27/23 18:16

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.000	<u>U</u>	0.0688	0.165	
(T) Barium	95.3		95.3		

L1656201-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1656201-11 09/27/23 22:17 • (DUP) R3984616-5 09/27/23 19:16

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	1.41	0.590	0.435		1.59	0.637	0.493		12.0	0.207		20	2
(T) Barium	109				98.3	98.3							

Laboratory Control Sample (LCS)

(LCS) R3984616-2 09/27/23 19:16

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.26	105	90.0-110	
(T) Barium			98.0		

L1655818-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1655818-01 09/27/23 20:17 • (MS) R3984616-6 10/10/23 12:21 • (MSD) R3984616-7 10/10/23 12:21

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0267	19.1	17.5	95.2	87.3	1	80.0-120			8.59		20
(T) Barium		128			100	93.6							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Enercon - Oklahoma City, OK

2302 S. Prospect Ave.
Oklahoma City, OK 73129

Accounts Payable - Lisa Hedrick
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to:
Rusty Lynch

Email To:
rlynch@enercon.com; ccurrent@enercon.com

Project Description:
GREC, Chouteau, OK

City/State Collected: **Chouteau/OK**

Please Circle:
PT MT **CT** ET

Phone: 405-722-7693

Client Project #
GRDA - 00027

Lab Project #
ENERCOOK-GRDA

Collected by (print):
Caleb Cope

Site/Facility ID #
GRDA-GREC

P.O. #
PACE/14-E002-00

Collected by (signature):

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
Date Results Needed
STD. TAT

Immediately Packed on Ice N ___ Y **X**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	Cl, F, SO4 125mlHDPE-NoPres	RA-226, 1L-HDPE-Add HNO3, Plus RA-228	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3								
MW93-1	G	DW		9-11-23	1110	5	X	X	X	X	X								
MW22-01	G	DW		9-11-23	1215	5	X	X	X	X	X								01
MW22-05	G	DW		9-11-23	1345	5	X	X	X	X	X								02
MW03-2	G	DW		9-11-23	1520	5	X	X	X	X	X								03
MW22-06	G	DW		9-11-23	1630	5	X	X	X	X	X								04
MW22-08	G	DW		9-12-23	0945	5	X	X	X	X	X								05
MW93-3	G	DW		9-12-23	1040	5	X	X	X	X	X								06
MW22-04	G	DW		9-12-23	1200	5	X	X	X	X	X								07
MW22-02	G	DW		9-12-23	1305	5	X	X	X	X	X								08
MW93-2	G	DW		9-12-23	1405	5	X	X	X	X	X								09

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
please run both RA-226 and RA-228

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact:	NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Bottles arrive intact:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Correct bottles used:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Sufficient volume sent:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Preservation Correct/Checked:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Samples returned via:
 UPS FedEx Courier

Tracking # _____

Relinquished by: (Signature)

Date: 9-13-23 Time: 1730

Received by: (Signature)

Trip Blank Received: Yes / **NO**
HCL / MeOH TBR

Relinquished by: (Signature)

Date: 9-14-23 Time: 1645

Received by: (Signature)

Temp: _____ °C Bottles Received: **95**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____ Time: _____

Received for lab by: (Signature)

Date: 9-15-23 Time: 0800

Hold: _____ Condition: NCF / **OK**

Enercon - Oklahoma City, OK

2302 S. Prospect Ave.
Oklahoma City, OK 73129

Accounts Payable - Lisa Hedrick
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page **2** of **2**



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to: **Rusty Lynch**
Email To: **rlynch@enercon.com; ccurrent@enercon.com**

Project Description: **GREC, Chouteau, OK**
City/State Collected: **Chouteau/OK**
Please Circle: PT MT ET

Phone: **405-722-7693**
Client Project # **GRDA - 00027**
Lab Project # **ENERCOOK-GRDA**

Collected by (print): **Caleb Cope**
Site/Facility ID #
P.O. # **PACE 14-E002-00**

Collected by (signature): *Caleb Cope*
Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day
Date Results Needed **STD. TAT**
No. of Cntrs

Immediately Packed on Ice N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK 125mlHDPE-NoPres	Cl, F, SO4 125mlHDPE-NoPres	RA-226, 1L-HDPE-Add HNO3 Plus RA-228	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3
MW22-03	G	DW	-	9-12-23	1545	5	X	X	X	X	X
MW22-07	G	DW	-	9-12-23	1640	5	X	X	X	X	X
MW23-05	G	DW	-	9-12-23	1805	5	X	X	X	X	X
MW23-04	G	DW	-	9-13-23	0905	5	X	X	X	X	X
MW23-06	G	DW	-	9-13-23	1025	5	X	X	X	X	X
MW23-03	G	DW	-	9-13-23	1150	5	X	X	X	X	X
MW23-02	G	DW	-	9-13-23	1430	5	X	X	X	X	X
MW23-01	G	DW	-	9-13-23	1530	5	X	X	X	X	X
Duplicate	G	DW	-	9-12-23	0000	5	X	X	X	X	X
		DW				5	X	X	X	X	X

ALK 125mlHDPE-NoPres
 Cl, F, SO4 125mlHDPE-NoPres
 RA-226, 1L-HDPE-Add HNO3 Plus RA-228
 SPCON, TDS 250mlHDPE-NoPres
 Tot. Rec. Metals 250mlHDPE-HNO3

SDG # **U656201**

Table #

Acctnum: **ENERCOOK**

Template: **T206542**

Prelogin: **P1022460**

PM: 104 - Jason Romer

PB: **9/1/23 TJS**

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: **Please run both RA-226 and RA-228**

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Samples returned via:
 UPS FedEx Courier

Tracking # _____

Relinquished by: (Signature) <i>Caleb Cope</i>	Date: 9-13-23	Time: 1730	Received by: (Signature) <i>[Signature]</i>	Trip Blank Received: Yes / No HCL / MeOH TBR
Relinquished by: (Signature) <i>[Signature]</i>	Date: 9-14-23	Time: 1645	Received by: (Signature) <i>[Signature]</i>	Temp: _____ °C Bottles Received: 95
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 9-15-23 Time: 0800

If preservation required by Login: Date/Time

Hold: _____ Condition: **NCF / OK**

Tracking Numbers		Temperature
SWA		CC 118 $2.1 \times 0 = 2.1$
SWA		$1.5 \times 0 = 1.5$ CC 118
SWA		$2.3 \times 0 = 2.3$ CC 117
SWA		$3.0 \times 0 = 3.0$

Enercon - Oklahoma City, OK

Sample Delivery Group: L1656762
Samples Received: 09/15/2023
Project Number: GRDA-00027
Description: GREC, Chouteau, OK
Site: GRDA-GREC
Report To: Rusty Lynch
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Entire Report Reviewed By:



Jason Romer
Project Manager

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

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Metals (ICPMS) by Method 200.8	10	7 Gl
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Al: Accreditations & Locations	13	
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SAMPLE SUMMARY

MW03-1 L1656762-01 WW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 12:35
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2134766	1	09/19/23 13:59	09/19/23 17:02	NTG	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2133943	1	09/17/23 17:00	09/17/23 17:00	EPW	Mt. Juliet, TN
Mercury by Method 245.1	WG2138395	1	09/24/23 08:56	09/25/23 12:31	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2134608	1	09/20/23 23:47	09/21/23 12:34	JDG	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2134620	1	09/22/23 00:57	09/26/23 20:35	LD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

CASE NARRATIVE

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



Jason Romer
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	340		33.3	1	09/19/2023 17:02	WG2134766

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	534		10.0	1	09/17/2023 17:00	WG2133943

Sample Narrative:

L1656762-01 WG2133943: at 25C

Mercury by Method 245.1

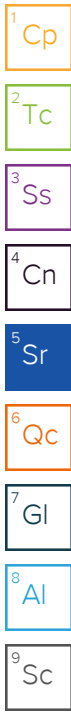
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Mercury	U		0.000100	0.000200	1	09/25/2023 12:31	WG2138395

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Boron	U		0.0396	0.200	1	09/21/2023 12:34	WG2134608
Lithium	U		0.00689	0.0150	1	09/21/2023 12:34	WG2134608

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Antimony	U		0.00172	0.00500	1	09/26/2023 20:35	WG2134620
Arsenic	0.00320		0.000195	0.00100	1	09/26/2023 20:35	WG2134620
Barium	0.106		0.000476	0.00500	1	09/26/2023 20:35	WG2134620
Beryllium	0.000441	J	0.000201	0.00100	1	09/26/2023 20:35	WG2134620
Cadmium	0.000576	J	0.000160	0.00100	1	09/26/2023 20:35	WG2134620
Calcium	70.6		0.112	1.00	1	09/26/2023 20:35	WG2134620
Chromium	0.00656	J	0.00560	0.0200	1	09/26/2023 20:35	WG2134620
Cobalt	0.00249		0.000142	0.00200	1	09/26/2023 20:35	WG2134620
Lead	0.00462	B	0.000513	0.00200	1	09/26/2023 20:35	WG2134620
Molybdenum	0.00654		0.000841	0.00500	1	09/26/2023 20:35	WG2134620
Selenium	0.00160	J	0.000437	0.00200	1	09/26/2023 20:35	WG2134620
Sodium	18.0		0.513	2.00	1	09/26/2023 20:35	WG2134620
Thallium	0.000310	J	0.000176	0.00100	1	09/26/2023 20:35	WG2134620



Method Blank (MB)

(MB) R3976557-1 09/19/23 17:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U	U	10.0	10.0

1 Cp

2 Tc

3 Ss

L1656939-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1656939-01 09/19/23 17:02 • (DUP) R3976557-3 09/19/23 17:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	617	651	1	5.26	J3	5

4 Cn

5 Sr

6 Qc

L1656975-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1656975-01 09/19/23 17:02 • (DUP) R3976557-4 09/19/23 17:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	168	172	1	2.35		5

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3976557-2 09/19/23 17:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8490	96.5	77.3-123	

Method Blank (MB)

(MB) R3974163-1 09/17/23 17:00

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1656050-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1656050-01 09/17/23 17:00 • (DUP) R3974163-3 09/17/23 17:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	447	452	1	1.11		20

Sample Narrative:

OS: at 25C
DUP: at 25C

L1656762-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1656762-01 09/17/23 17:00 • (DUP) R3974163-4 09/17/23 17:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	534	538	1	0.746		20

Sample Narrative:

OS: at 25C
DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3974163-2 09/17/23 17:00

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	732	740	101	85.0-115	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R3977574-1 09/25/23 11:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Mercury	U		0.000100	0.000200

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R3977574-2 09/25/23 11:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Mercury	0.00300	0.00326	109	85.0-115	

4 Cn

5 Sr

6 Qc

L1656848-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656848-01 09/25/23 11:35 • (MS) R3977574-3 09/25/23 11:37 • (MSD) R3977574-4 09/25/23 11:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.00300	U	0.00331	0.00326	110	109	1	70.0-130			1.62	20

7 Gl

8 Al

L1656849-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656849-01 09/25/23 11:42 • (MS) R3977574-5 09/25/23 11:45 • (MSD) R3977574-6 09/25/23 11:48

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.00300	U	0.00306	0.00308	102	103	1	70.0-130			0.650	20

9 Sc

Method Blank (MB)

(MB) R3976259-1 09/21/23 14:45

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron	U		0.0396	0.200
Lithium	U		0.00689	0.0150

Laboratory Control Sample (LCS)

(LCS) R3976259-2 09/21/23 14:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Boron	1.00	1.03	103	85.0-115	
Lithium	1.00	1.02	102	85.0-115	

L1655555-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1655555-01 09/21/23 14:50 • (MS) R3976259-4 09/21/23 14:55 • (MSD) R3976259-5 09/21/23 14:57

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	1.00	U	0.991	1.02	99.1	102	1	70.0-130			2.89	20
Lithium	1.00	U	0.965	0.988	96.5	98.8	1	70.0-130			2.41	20

L1656485-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1656485-05 09/21/23 15:00 • (MS) R3976259-6 09/21/23 15:03 • (MSD) R3976259-7 09/21/23 15:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	1.00	U	0.938	0.999	93.8	99.9	1	70.0-130			6.37	20
Lithium	1.00	U	0.944	0.997	94.4	99.7	1	70.0-130			5.43	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3978048-1 09/26/23 18:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.00172	0.00500
Arsenic	U		0.000195	0.00100
Barium	U		0.000476	0.00500
Beryllium	U		0.000201	0.00100
Cadmium	U		0.000160	0.00100
Calcium	U		0.112	1.00
Chromium	U		0.00560	0.0200
Cobalt	U		0.000142	0.00200
Lead	0.000526	U	0.000513	0.00200
Molybdenum	U		0.000841	0.00500
Selenium	U		0.000437	0.00200
Sodium	U		0.513	2.00
Thallium	U		0.000176	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3978048-2 09/26/23 18:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0515	103	85.0-115	
Arsenic	0.0500	0.0518	104	85.0-115	
Barium	0.0500	0.0484	96.7	85.0-115	
Beryllium	0.0500	0.0466	93.2	85.0-115	
Cadmium	0.0500	0.0515	103	85.0-115	
Calcium	5.00	5.06	101	85.0-115	
Chromium	0.0500	0.0511	102	85.0-115	
Cobalt	0.0500	0.0515	103	85.0-115	
Lead	0.0500	0.0501	100	85.0-115	
Molybdenum	0.0500	0.0524	105	85.0-115	
Selenium	0.0500	0.0550	110	85.0-115	
Sodium	5.00	5.15	103	85.0-115	
Thallium	0.0500	0.0512	102	85.0-115	

L1655152-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1655152-01 09/26/23 18:29 • (MS) R3978048-4 09/26/23 18:36 • (MSD) R3978048-5 09/26/23 18:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	U	0.0553	0.0554	111	111	1	70.0-130			0.180	20
Arsenic	0.0500	0.000359	0.0541	0.0544	107	108	1	70.0-130			0.624	20
Barium	0.0500	0.0249	0.0788	0.0789	108	108	1	70.0-130			0.0680	20
Beryllium	0.0500	U	0.0509	0.0498	102	99.6	1	70.0-130			2.15	20
Cadmium	0.0500	U	0.0546	0.0557	109	111	1	70.0-130			1.99	20
Calcium	5.00	317	337	340	397	452	1	70.0-130	V	V	0.813	20
Chromium	0.0500	U	0.0530	0.0531	106	106	1	70.0-130			0.163	20
Cobalt	0.0500	U	0.0526	0.0533	105	107	1	70.0-130			1.40	20
Lead	0.0500	U	0.0521	0.0539	104	108	1	70.0-130			3.32	20
Molybdenum	0.0500	0.0565	0.115	0.117	117	120	1	70.0-130			1.44	20
Selenium	0.0500	U	0.0602	0.0618	120	124	1	70.0-130			2.74	20
Sodium	5.00	177	186	187	179	186	1	70.0-130	V	V	0.169	20
Thallium	0.0500	U	0.0519	0.0541	104	108	1	70.0-130			4.20	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1655546-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1655546-03 09/26/23 18:42 • (MS) R3978048-6 09/26/23 18:46 • (MSD) R3978048-7 09/26/23 18:49

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	0.102	0.157	0.160	110	116	1	70.0-130			1.97	20
Arsenic	0.0500	0.00108	0.0548	0.0552	107	108	1	70.0-130			0.640	20
Barium	0.0500	0.0337	0.0860	0.0859	105	104	1	70.0-130			0.103	20
Beryllium	0.0500	U	0.0495	0.0518	99.0	104	1	70.0-130			4.54	20
Cadmium	0.0500	U	0.0534	0.0549	107	110	1	70.0-130			2.69	20
Calcium	5.00	40.8	46.3	45.2	112	89.6	1	70.0-130			2.39	20
Chromium	0.0500	U	0.0525	0.0535	105	107	1	70.0-130			1.80	20
Cobalt	0.0500	U	0.0527	0.0533	105	107	1	70.0-130			1.03	20
Lead	0.0500	U	0.0545	0.0539	109	108	1	70.0-130			1.15	20
Molybdenum	0.0500	U	0.0538	0.0574	108	115	1	70.0-130			6.36	20
Selenium	0.0500	0.000999	0.0603	0.0593	119	117	1	70.0-130			1.74	20
Sodium	5.00	167	177	170	196	57.8	1	70.0-130	V	V	3.98	20
Thallium	0.0500	U	0.0542	0.0537	108	107	1	70.0-130			0.810	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

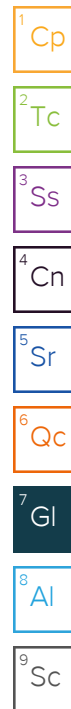
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
Enercon - Oklahoma City, OK

2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Billing Information:

Accounts Payable - Lisa Hedrick
 2302 S. Prospect Ave.
 Oklahoma City, OK 73129

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Report to:

Rusty Lynch

Email To:

rlynch@enercon.com;ccurrent@enercon.com

Project Description:

GREC, Chouteau, OK

City/State

Collected: **Chouteau, OK**

Please Circle:

PT MT ET

Phone: **405-722-7693**

Client Project #

GRDA - 00027

Lab Project #

ENERCOOK-GRDA

Collected by (print):

Carey Slope

Site/Facility ID #

GRDA-GRDC

P.O. #

PACE14-E002-00

Collected by (signature):

White

Rush? (Lab MUST Be Notified)

Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #

Date Results Needed

30 DAT

No. of
 Cntrs

Immediately
 Packed on Ice N Y

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

MW03-1

GR

DW

9-13-23

1235

5

X

X

X

X

X

X

DW

5

X

X

X

X

X

DW

5

X

X

X

X

X

ALK 125mlHDPE-NoPres

GL, F, SO4 125mlHDPE-NoPres

RA-226, 1L-HDPE-Add HNO3, Plus RA-228

SPCON, TDS 250mlHDPE-NoPres

Tot. Rec. Metals 250mlHDPE-HNO3



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG #

U656162

Table

B215

Acctnum: **ENERCOOK**

Template: **T206542**

Prelogin: **P1022460**

PM: **104 - Jason Romer**

PB: **9/123 TS**

Shipped Via: **FedEX Ground**

Remarks

Sample # (lab only)

-01

- * Matrix:
- SS - Soil AIR - Air F - Filter
- GW - Groundwater B - Bioassay
- WW - WasteWater
- DW - Drinking Water
- OT - Other

Remarks:

*This sample is all well would produce over 2 days (9-13-23) pH ^{7.4} Temp _____
 could not fill other containers*

Flow _____ Other _____

Samples returned via:

UPS FedEx Courier

Tracking #

Sample Receipt Checklist

- COC Seal Present/Intact: NP Y N
- COC Signed/Accurate: Y N
- Bottles arrive intact: Y N
- Correct bottles used: Y N
- Sufficient volume sent: Y N
- If Applicable
- VOA Zero Headspace: Y N
- Preservation Correct/Checked: Y N
- RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)

[Signature]

Date:

Time:

Received by: (Signature)

[Signature] **9-14-23**

Trip Blank Received: Yes/No

HCL/MeOH TBR

Relinquished by: (Signature)

[Signature]

Date:

Time:

Received by: (Signature)

[Signature] **9-15-23**

Temp **24.8°C** Bottles Received: **3**

If PH-10BDH4321 TRC-23523 in: Date/Time

CR6-20221V

Relinquished by: (Signature)

[Signature]

Date:

Time:

Received for lab by: (Signature)

[Signature] **9 10**

Date: **9-15-23** Time: **8:00**

Hold:

Condition:

NCF OK

Enercon - Oklahoma City, OK

Sample Delivery Group: L1656764
Samples Received: 09/15/2023
Project Number: GRDA-00027
Description: GREC, Chouteau, OK
Site: GRDA-GREC
Report To: Rusty Lynch
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Entire Report Reviewed By:












Jason Romer
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

MW03-1 L1656764-01 DW

Collected by: Caleb Cope
 Collected date/time: 09/13/23 12:35
 Received date/time: 09/15/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2157228	1	10/12/23 19:47	10/18/23 15:11	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2143136	1	10/03/23 08:19	10/13/23 17:44	SNR	Mt. Juliet, TN

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

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jason Romer
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.87		0.676		1.16		10/18/2023 15:11	WG2157228
(T) Barium	89.5					25.0-150	10/18/2023 15:11	WG2157228
(T) Yttrium	65.0					25.0-150	10/18/2023 15:11	WG2157228

1 Cp

2 Tc

3 Ss

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.328		0.158		0.141		10/13/2023 17:44	WG2143136
(T) Barium	119					63.0-143	10/13/2023 17:44	WG2143136

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3993605-1 10/27/23 19:56

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.189	↓	0.183	0.227	
(T) Barium	112		112		
(T) Yttrium	113		113		

L1662321-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1662321-01 10/27/23 19:56 • (DUP) R3993605-5 10/27/23 19:56

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.611	0.233	0.401		1.46	0.399	0.676		81.7	1.83		20	2
(T) Barium	114				97.4	97.4							
(T) Yttrium	104				107	107							

Laboratory Control Sample (LCS)

(LCS) R3993605-2 10/27/23 19:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.68	93.5	80.0-120	
(T) Barium			108		
(T) Yttrium			106		

L1665889-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1665889-01 10/27/23 19:56 • (MS) R3993605-3 10/27/23 19:56 • (MSD) R3993605-4 10/27/23 19:56

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	2.16	12.3	12.3	101	101	1	70.0-130			0.0815		20
(T) Barium		113			137	116							
(T) Yttrium		105			115	102							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3987085-1 10/13/23 15:44

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0543		0.0420	0.0815	
(T) Barium	97.2		97.2		

L1658368-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1658368-01 10/13/23 17:44 • (DUP) R3987085-5 10/13/23 16:44

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	1.56	0.297	0.203		1.83	0.449	0.179		16.3	0.513		20	2
(T) Barium	99.4				94.9	94.9							

Laboratory Control Sample (LCS)

(LCS) R3987085-2 10/13/23 16:44

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.79	95.6	90.0-110	
(T) Barium			93.1		

L1660439-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1660439-01 10/13/23 17:44 • (MS) R3987085-3 10/13/23 16:44 • (MSD) R3987085-4 10/13/23 16:44

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.274	19.9	19.4	98.2	95.5	1	80.0-120			2.80		20
(T) Barium		102			94.4	92.4							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

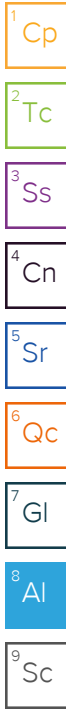
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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



Enercon - Oklahoma City, OK

2302 S. Prospect Ave.
Oklahoma City, OK 73129

Accounts Payable - Lisa Hedrick
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Report to:
Rusty Lynch

Email To:
rlynch@enercon.com;ccurrent@enercon.com

Project Description:
GREC, Chouteau, OK

City/State Collected:
Chouteau, OK

Please Circle:
PT MT **(T)** ET

Phone: 405-722-7693

Client Project #
GRDA -00027

Lab Project #
ENERCOOK-GRDA

Collected by (print):
Caleb Lope

Site/Facility ID #
GRDA-GRWC

P.O. #
PACE14-E002-00

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
Date Results Needed
SD TAT

Immediately Packed on Ice N ___ Y ___

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW03-1	GR	DW		9-13-23	1235	5
		DW				5
		DW				5

Analysis / Container / Preservative	
ALK 125mlHDPE-NoPres	CL 2
Cl, F, SO4 125mlHDPE-NoPres	CL 2
RA-226, 1L-HDPE-Add HNO3, Plus RA-228	
SPCON, TDS 250mlHDPE-NoPres	
Tot. Rec. Metals 250mlHDPE-HNO3	

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **4656764**
Table **B215**

Acctnum: ENERCOOK
Template: T206542
Prelogin: P1022460
PM: 104 Jason Romer
PB: 9/123 TS

Shipped Via: **FedEx Ground**

Remarks | Sample # (lab only)

- * Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
This sample is all well would produce over 2 days (9-13-23) pH Temp Flow Other

Samples returned via:
 UPS FedEx Courier

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature)
[Signature]

Date: Time:

Received by: (Signature)
[Signature] 9-14-23

Trip Blank Received: Yes No
HCL/MeOH TBR

Relinquished by: (Signature)
[Signature]

Date: 9-14-23 Time: 1710

Received by: (Signature)
[Signature]

Temp: 22.8°C Bottles Received: 3
3.4+0=3.4

PH-10BDH4321 TRC-23623; in: Date/Time CR6-20221V

Relinquished by: (Signature)
[Signature]

Date: 9-15-23 Time: 1645

Received for lab by: (Signature)
[Signature] 9 10

Date: 9-15-23 Time: 8:00

Hold: Condition: NCF / **OK**

Enercon - Oklahoma City, OK

Sample Delivery Group: L1684784
Samples Received: 12/06/2023
Project Number: GRDA-00027
Description: GREC, Chouteau, OK
Site: GRDA
Report To: Rusty Lynch
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Entire Report Reviewed By:



Jason Romer
Project Manager

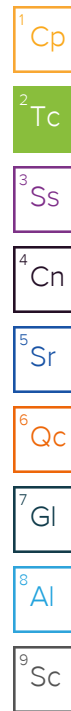
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory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

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

MW22-01 L1684784-01 WW

Collected by C. Cope Collected date/time 11/30/23 09:25 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184726	1	12/07/23 12:55	12/07/23 13:54	DLS	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2185321	1	12/11/23 09:30	12/11/23 09:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186556	1	12/11/23 09:13	12/11/23 09:13	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/17/23 16:33	12/17/23 16:33	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	5	12/17/23 16:49	12/17/23 16:49	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 17:13	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/09/23 23:37	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2184590	1	12/07/23 08:17	12/08/23 00:24	SJM	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

MW93-3 L1684784-02 WW

Collected by C. Cope Collected date/time 11/30/23 10:30 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184726	1	12/07/23 12:55	12/07/23 13:54	DLS	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2185321	1	12/11/23 09:30	12/11/23 09:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186556	1	12/11/23 09:31	12/11/23 09:31	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/17/23 17:05	12/17/23 17:05	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	5	12/17/23 17:21	12/17/23 17:21	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 17:34	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/09/23 23:56	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2184590	1	12/07/23 08:17	12/08/23 00:11	SJM	Mt. Juliet, TN

6 Qc

7 Gl

8 Al

9 Sc

MW22-04 L1684784-03 WW

Collected by C. Cope Collected date/time 11/30/23 11:20 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184726	1	12/07/23 12:55	12/07/23 13:54	DLS	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2185321	1	12/11/23 09:30	12/11/23 09:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186556	1	12/11/23 09:35	12/11/23 09:35	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/17/23 17:37	12/17/23 17:37	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 17:37	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/09/23 23:58	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2184590	1	12/07/23 08:17	12/08/23 00:27	SJM	Mt. Juliet, TN

MW93-2 L1684784-04 WW

Collected by C. Cope Collected date/time 11/30/23 13:45 Received date/time 12/06/23 09:00

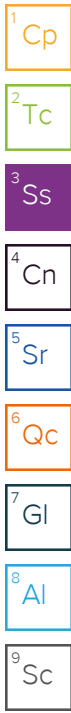
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184726	1	12/07/23 12:55	12/07/23 13:54	DLS	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2185321	1	12/11/23 09:30	12/11/23 09:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186556	1	12/11/23 09:40	12/11/23 09:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	10	12/17/23 18:09	12/17/23 18:09	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	100	12/17/23 18:25	12/17/23 18:25	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 17:39	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:02	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2184590	1	12/07/23 08:17	12/08/23 00:31	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2184590	5	12/07/23 08:17	12/08/23 10:34	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

MW22-02 L1684784-05 WW

Collected by C. Cope Collected date/time 11/30/23 14:35 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184726	1	12/07/23 12:55	12/07/23 13:54	DLS	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2185321	1	12/11/23 09:30	12/11/23 09:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186556	1	12/11/23 09:45	12/11/23 09:45	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	10	12/17/23 18:40	12/17/23 18:40	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	100	12/17/23 18:56	12/17/23 18:56	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 17:41	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:05	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2184590	1	12/07/23 08:17	12/08/23 00:34	SJM	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2184590	5	12/07/23 08:17	12/08/23 10:38	SJM	Mt. Juliet, TN



MW22-03 L1684784-06 WW

Collected by C. Cope Collected date/time 11/30/23 15:35 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184726	1	12/07/23 12:55	12/07/23 13:54	DLS	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2185321	1	12/11/23 09:30	12/11/23 09:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186556	1	12/11/23 09:49	12/11/23 09:49	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/17/23 19:44	12/17/23 19:44	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	10	12/17/23 20:00	12/17/23 20:00	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 17:44	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:08	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2184590	1	12/07/23 08:17	12/08/23 00:47	SJM	Mt. Juliet, TN

MW03-2 L1684784-07 WW

Collected by C. Cope Collected date/time 12/01/23 08:45 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184726	1	12/07/23 12:55	12/07/23 13:54	DLS	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2185321	1	12/11/23 09:30	12/11/23 09:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186556	1	12/11/23 09:53	12/11/23 09:53	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/17/23 20:16	12/17/23 20:16	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	5	12/17/23 20:32	12/17/23 20:32	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 17:46	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:11	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2184590	1	12/07/23 08:17	12/08/23 00:51	SJM	Mt. Juliet, TN

MW22-06 L1684784-08 WW

Collected by C. Cope Collected date/time 12/01/23 09:45 Received date/time 12/06/23 09:00

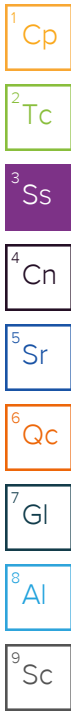
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184726	1	12/07/23 12:55	12/07/23 13:54	DLS	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2185321	1	12/11/23 09:30	12/11/23 09:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186556	1	12/11/23 09:57	12/11/23 09:57	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/17/23 20:48	12/17/23 20:48	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	5	12/17/23 21:04	12/17/23 21:04	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 17:48	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:15	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2184590	1	12/07/23 08:17	12/08/23 00:54	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

MW23-01 L1684784-09 WW

Collected by C. Cope Collected date/time 12/01/23 10:40 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184729	1	12/08/23 10:35	12/08/23 15:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2185321	1	12/11/23 09:30	12/11/23 09:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186556	1	12/11/23 10:01	12/11/23 10:01	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/17/23 21:20	12/17/23 21:20	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	10	12/17/23 21:35	12/17/23 21:35	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 17:51	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:18	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2184590	1	12/07/23 08:17	12/08/23 00:58	SJM	Mt. Juliet, TN



MW23-02 L1684784-10 WW

Collected by C. Cope Collected date/time 12/01/23 11:30 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184729	1	12/08/23 10:35	12/08/23 15:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2185321	1	12/11/23 09:30	12/11/23 09:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186556	1	12/11/23 10:05	12/11/23 10:05	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/17/23 21:51	12/17/23 21:51	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	5	12/17/23 22:07	12/17/23 22:07	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 17:58	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:21	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2185161	1	12/11/23 03:38	12/11/23 18:53	LD	Mt. Juliet, TN

MW22-05 L1684784-11 WW

Collected by C. Cope Collected date/time 12/01/23 13:35 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184729	1	12/08/23 10:35	12/08/23 15:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2187547	1	12/12/23 11:50	12/12/23 11:50	EPW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186556	1	12/11/23 10:48	12/11/23 10:48	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/17/23 22:55	12/17/23 22:55	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	10	12/17/23 23:11	12/17/23 23:11	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 18:00	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:24	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2185161	1	12/11/23 03:38	12/11/23 18:56	LD	Mt. Juliet, TN

MW22-08 L1684784-12 WW

Collected by C. Cope Collected date/time 12/01/23 14:20 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184729	1	12/08/23 10:35	12/08/23 15:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2185321	1	12/11/23 09:30	12/11/23 09:30	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186560	1	12/11/23 12:25	12/11/23 12:25	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/17/23 23:27	12/17/23 23:27	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	5	12/17/23 23:43	12/17/23 23:43	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 18:03	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:33	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2185161	1	12/11/23 03:38	12/11/23 18:59	LD	Mt. Juliet, TN

SAMPLE SUMMARY

MW23-03 L1684784-13 WW

Collected by C. Cope Collected date/time 12/01/23 15:30 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2184729	1	12/08/23 10:35	12/08/23 15:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2186244	1	12/11/23 15:04	12/11/23 15:04	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186560	1	12/11/23 12:30	12/11/23 12:30	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/17/23 23:59	12/17/23 23:59	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 18:05	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:36	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2185161	1	12/11/23 03:38	12/11/23 19:03	LD	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW23-04 L1684784-14 WW

Collected by C. Cope Collected date/time 12/04/23 09:20 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2185621	1	12/08/23 09:14	12/08/23 14:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2186244	1	12/11/23 15:04	12/11/23 15:04	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186560	1	12/11/23 12:35	12/11/23 12:35	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2189231	1	12/18/23 01:02	12/18/23 01:02	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 18:07	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:38	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2185161	1	12/11/23 03:38	12/11/23 19:06	LD	Mt. Juliet, TN

MW23-05 L1684784-15 WW

Collected by C. Cope Collected date/time 12/04/23 10:25 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2185621	1	12/08/23 09:14	12/08/23 14:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2186244	1	12/11/23 15:04	12/11/23 15:04	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186560	1	12/11/23 12:40	12/11/23 12:40	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2190608	1	12/16/23 08:00	12/16/23 08:00	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 18:10	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/09/23 23:17	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2185161	1	12/11/23 03:38	12/11/23 19:22	LD	Mt. Juliet, TN

MW33-06 L1684784-16 WW

Collected by C. Cope Collected date/time 12/04/23 11:45 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2185621	1	12/08/23 09:14	12/08/23 14:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2186244	1	12/11/23 15:04	12/11/23 15:04	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186560	1	12/11/23 12:45	12/11/23 12:45	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2190608	1	12/16/23 08:32	12/16/23 08:32	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2190608	5	12/16/23 08:48	12/16/23 08:48	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 18:12	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:41	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2185161	1	12/11/23 03:38	12/11/23 19:25	LD	Mt. Juliet, TN

DUP L1684784-17 WW

Collected by C. Cope Collected date/time 12/04/23 00:00 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2185621	1	12/08/23 09:14	12/08/23 14:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2186244	1	12/11/23 15:04	12/11/23 15:04	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186560	1	12/11/23 12:51	12/11/23 12:51	BJM	Mt. Juliet, TN

SAMPLE SUMMARY

DUP L1684784-17 WW

Collected by: C. Cope
 Collected date/time: 12/04/23 00:00
 Received date/time: 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2190608	1	12/16/23 09:03	12/16/23 09:03	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2190608	5	12/16/23 09:19	12/16/23 09:19	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 18:14	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:45	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2185161	1	12/11/23 03:38	12/11/23 19:28	LD	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

MW22-07 L1684784-18 WW

Collected by: C. Cope
 Collected date/time: 12/04/23 13:05
 Received date/time: 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2185621	1	12/08/23 09:14	12/08/23 14:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2186244	1	12/11/23 15:04	12/11/23 15:04	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186560	1	12/11/23 12:56	12/11/23 12:56	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2190608	1	12/16/23 09:35	12/16/23 09:35	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2190608	5	12/16/23 10:23	12/16/23 10:23	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 18:49	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/09/23 23:28	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2185161	1	12/11/23 03:38	12/11/23 19:32	LD	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW93-1 L1684784-19 WW

Collected by: C. Cope
 Collected date/time: 12/04/23 14:35
 Received date/time: 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2185621	1	12/08/23 09:14	12/08/23 14:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 120.1	WG2186244	1	12/11/23 15:04	12/11/23 15:04	NTG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2186560	1	12/11/23 13:01	12/11/23 13:01	BJM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2190608	1	12/16/23 10:39	12/16/23 10:39	ASM	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2190608	5	12/16/23 10:55	12/16/23 10:55	ASM	Mt. Juliet, TN
Mercury by Method 245.1	WG2184291	1	12/06/23 20:58	12/09/23 17:20	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2185148	1	12/08/23 07:50	12/10/23 00:48	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG2185161	1	12/11/23 03:38	12/11/23 19:35	LD	Mt. Juliet, TN

CASE NARRATIVE

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



Jason Romer
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	916		20.0	1	12/07/2023 13:54	WG2184726

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1400		10.0	1	12/11/2023 09:30	WG2185321

Sample Narrative:

L1684784-01 WG2185321: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	524		8.45	20.0	1	12/11/2023 09:13	WG2186556

Sample Narrative:

L1684784-01 WG2186556: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	11.1		0.379	1.00	1	12/17/2023 16:33	WG2189231
Fluoride	0.165		0.0640	0.150	1	12/17/2023 16:33	WG2189231
Sulfate	282		2.97	25.0	5	12/17/2023 16:49	WG2189231

Mercury by Method 245.1

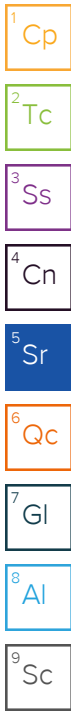
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U	J6 O1	0.000100	0.000200	1	12/09/2023 17:13	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.115	J	0.0396	0.200	1	12/09/2023 23:37	WG2185148
Lithium	U		0.00689	0.0150	1	12/09/2023 23:37	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	12/08/2023 00:24	WG2184590
Arsenic	0.000311	J	0.000195	0.00100	1	12/08/2023 00:24	WG2184590
Barium	0.0362		0.000476	0.00500	1	12/08/2023 00:24	WG2184590
Beryllium	U		0.000201	0.00100	1	12/08/2023 00:24	WG2184590
Cadmium	0.000755	J	0.000160	0.00100	1	12/08/2023 00:24	WG2184590
Calcium	239		0.112	1.00	1	12/08/2023 00:24	WG2184590
Chromium	U		0.00560	0.0200	1	12/08/2023 00:24	WG2184590
Cobalt	0.00283		0.000142	0.00200	1	12/08/2023 00:24	WG2184590
Lead	U		0.000513	0.00200	1	12/08/2023 00:24	WG2184590
Molybdenum	U		0.000841	0.00500	1	12/08/2023 00:24	WG2184590
Selenium	U		0.000437	0.00200	1	12/08/2023 00:24	WG2184590
Sodium	23.5		0.513	2.00	1	12/08/2023 00:24	WG2184590
Thallium	U		0.000176	0.00100	1	12/08/2023 00:24	WG2184590



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1170		25.0	1	12/07/2023 13:54	WG2184726

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	2070		10.0	1	12/11/2023 09:30	WG2185321

Sample Narrative:

L1684784-02 WG2185321: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	577		8.45	20.0	1	12/11/2023 09:31	WG2186556

Sample Narrative:

L1684784-02 WG2186556: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	218		1.90	5.00	5	12/17/2023 17:21	WG2189231
Fluoride	0.222		0.0640	0.150	1	12/17/2023 17:05	WG2189231
Sulfate	179		0.594	5.00	1	12/17/2023 17:05	WG2189231

Mercury by Method 245.1

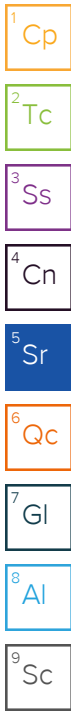
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	0.000933		0.000100	0.000200	1	12/09/2023 17:34	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.0940	J	0.0396	0.200	1	12/09/2023 23:56	WG2185148
Lithium	0.133		0.00689	0.0150	1	12/09/2023 23:56	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	12/08/2023 00:11	WG2184590
Arsenic	0.000570	J	0.000195	0.00100	1	12/08/2023 00:11	WG2184590
Barium	0.0620		0.000476	0.00500	1	12/08/2023 00:11	WG2184590
Beryllium	U		0.000201	0.00100	1	12/08/2023 00:11	WG2184590
Cadmium	U		0.000160	0.00100	1	12/08/2023 00:11	WG2184590
Calcium	73.4		0.112	1.00	1	12/08/2023 00:11	WG2184590
Chromium	U		0.00560	0.0200	1	12/08/2023 00:11	WG2184590
Cobalt	U		0.000142	0.00200	1	12/08/2023 00:11	WG2184590
Lead	U		0.000513	0.00200	1	12/08/2023 00:11	WG2184590
Molybdenum	U		0.000841	0.00500	1	12/08/2023 00:11	WG2184590
Selenium	U		0.000437	0.00200	1	12/08/2023 00:11	WG2184590
Sodium	347		0.513	2.00	1	12/08/2023 00:11	WG2184590
Thallium	U		0.000176	0.00100	1	12/08/2023 00:11	WG2184590



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	367		10.0	1	12/07/2023 13:54	WG2184726

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	622		10.0	1	12/11/2023 09:30	WG2185321

Sample Narrative:

L1684784-03 WG2185321: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	118		8.45	20.0	1	12/11/2023 09:35	WG2186556

Sample Narrative:

L1684784-03 WG2186556: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	37.1		0.379	1.00	1	12/17/2023 17:37	WG2189231
Fluoride	0.0998	J	0.0640	0.150	1	12/17/2023 17:37	WG2189231
Sulfate	106		0.594	5.00	1	12/17/2023 17:37	WG2189231

Mercury by Method 245.1

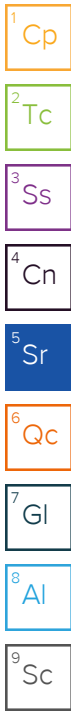
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 17:37	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	12/09/2023 23:58	WG2185148
Lithium	0.00904	J	0.00689	0.0150	1	12/09/2023 23:58	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	12/08/2023 00:27	WG2184590
Arsenic	0.000353	J	0.000195	0.00100	1	12/08/2023 00:27	WG2184590
Barium	0.0576		0.000476	0.00500	1	12/08/2023 00:27	WG2184590
Beryllium	U		0.000201	0.00100	1	12/08/2023 00:27	WG2184590
Cadmium	U		0.000160	0.00100	1	12/08/2023 00:27	WG2184590
Calcium	60.9		0.112	1.00	1	12/08/2023 00:27	WG2184590
Chromium	U		0.00560	0.0200	1	12/08/2023 00:27	WG2184590
Cobalt	U		0.000142	0.00200	1	12/08/2023 00:27	WG2184590
Lead	U		0.000513	0.00200	1	12/08/2023 00:27	WG2184590
Molybdenum	U		0.000841	0.00500	1	12/08/2023 00:27	WG2184590
Selenium	U		0.000437	0.00200	1	12/08/2023 00:27	WG2184590
Sodium	45.2		0.513	2.00	1	12/08/2023 00:27	WG2184590
Thallium	U		0.000176	0.00100	1	12/08/2023 00:27	WG2184590



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	6140		200	1	12/07/2023 13:54	WG2184726

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	13900		10.0	1	12/11/2023 09:30	WG2185321

Sample Narrative:

L1684784-04 WG2185321: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	89.2		8.45	20.0	1	12/11/2023 09:40	WG2186556

Sample Narrative:

L1684784-04 WG2186556: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	1580		3.79	10.0	10	12/17/2023 18:09	WG2189231
Fluoride	U		0.640	1.50	10	12/17/2023 18:09	WG2189231
Sulfate	5220		59.4	500	100	12/17/2023 18:25	WG2189231

Sample Narrative:

L1684784-04 WG2189231: [dilution needed for high SO4 hit coeluding]

Mercury by Method 245.1

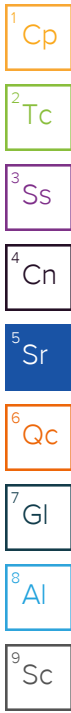
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 17:39	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	1.80		0.0396	0.200	1	12/10/2023 00:02	WG2185148
Lithium	0.0111	J	0.00689	0.0150	1	12/10/2023 00:02	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	12/08/2023 00:31	WG2184590
Arsenic	0.0387		0.000195	0.00100	1	12/08/2023 00:31	WG2184590
Barium	0.124		0.000476	0.00500	1	12/08/2023 00:31	WG2184590
Beryllium	U		0.000201	0.00100	1	12/08/2023 00:31	WG2184590
Cadmium	0.000203	J	0.000160	0.00100	1	12/08/2023 00:31	WG2184590
Calcium	226		0.112	1.00	1	12/08/2023 00:31	WG2184590
Chromium	U		0.00560	0.0200	1	12/08/2023 00:31	WG2184590
Cobalt	0.000174	J	0.000142	0.00200	1	12/08/2023 00:31	WG2184590
Lead	U		0.000513	0.00200	1	12/08/2023 00:31	WG2184590
Molybdenum	1.85		0.00420	0.0250	5	12/08/2023 10:34	WG2184590
Selenium	0.00137	J	0.000437	0.00200	1	12/08/2023 00:31	WG2184590



Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Sodium	2680		2.56	10.0	5	12/08/2023 10:34	WG2184590
Thallium	U		0.000176	0.00100	1	12/08/2023 00:31	WG2184590

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	5480		100	1	12/07/2023 13:54	WG2184726

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	7750		10.0	1	12/11/2023 09:30	WG2185321

Sample Narrative:

L1684784-05 WG2185321: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	374		8.45	20.0	1	12/11/2023 09:45	WG2186556

Sample Narrative:

L1684784-05 WG2186556: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	269		3.79	10.0	10	12/17/2023 18:40	WG2189231
Fluoride	U		0.640	1.50	10	12/17/2023 18:40	WG2189231
Sulfate	3480		59.4	500	100	12/17/2023 18:56	WG2189231

Sample Narrative:

L1684784-05 WG2189231: [dilution needed for high SO4 hit coeluding]

Mercury by Method 245.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 17:41	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	3.02		0.0396	0.200	1	12/10/2023 00:05	WG2185148
Lithium	0.0153		0.00689	0.0150	1	12/10/2023 00:05	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	12/08/2023 00:34	WG2184590
Arsenic	0.00194		0.000195	0.00100	1	12/08/2023 00:34	WG2184590
Barium	0.0305		0.000476	0.00500	1	12/08/2023 00:34	WG2184590
Beryllium	U		0.000201	0.00100	1	12/08/2023 00:34	WG2184590
Cadmium	U		0.000160	0.00100	1	12/08/2023 00:34	WG2184590
Calcium	333		0.112	1.00	1	12/08/2023 00:34	WG2184590
Chromium	U		0.00560	0.0200	1	12/08/2023 00:34	WG2184590
Cobalt	0.000386	J	0.000142	0.00200	1	12/08/2023 00:34	WG2184590
Lead	U		0.000513	0.00200	1	12/08/2023 00:34	WG2184590
Molybdenum	0.0945		0.000841	0.00500	1	12/08/2023 00:34	WG2184590
Selenium	0.0565		0.000437	0.00200	1	12/08/2023 00:34	WG2184590



Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Sodium	1430		2.56	10.0	5	12/08/2023 10:38	WG2184590
Thallium	0.000373	↓	0.000176	0.00100	1	12/08/2023 00:34	WG2184590

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1410		50.0	1	12/07/2023 13:54	WG2184726

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	3100		10.0	1	12/11/2023 09:30	WG2185321

Sample Narrative:

L1684784-06 WG2185321: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	257		8.45	20.0	1	12/11/2023 09:49	WG2186556

Sample Narrative:

L1684784-06 WG2186556: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	678		3.79	10.0	10	12/17/2023 20:00	WG2189231
Fluoride	U		0.0640	0.150	1	12/17/2023 19:44	WG2189231
Sulfate	212		5.94	50.0	10	12/17/2023 20:00	WG2189231

Mercury by Method 245.1

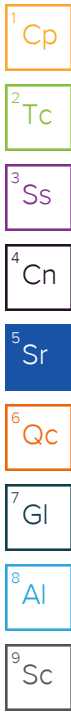
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 17:44	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.155	J	0.0396	0.200	1	12/10/2023 00:08	WG2185148
Lithium	0.0906		0.00689	0.0150	1	12/10/2023 00:08	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	12/08/2023 00:47	WG2184590
Arsenic	0.000459	J	0.000195	0.00100	1	12/08/2023 00:47	WG2184590
Barium	0.156		0.000476	0.00500	1	12/08/2023 00:47	WG2184590
Beryllium	U		0.000201	0.00100	1	12/08/2023 00:47	WG2184590
Cadmium	0.000164	J	0.000160	0.00100	1	12/08/2023 00:47	WG2184590
Calcium	127		0.112	1.00	1	12/08/2023 00:47	WG2184590
Chromium	U		0.00560	0.0200	1	12/08/2023 00:47	WG2184590
Cobalt	0.00433		0.000142	0.00200	1	12/08/2023 00:47	WG2184590
Lead	U		0.000513	0.00200	1	12/08/2023 00:47	WG2184590
Molybdenum	U		0.000841	0.00500	1	12/08/2023 00:47	WG2184590
Selenium	U		0.000437	0.00200	1	12/08/2023 00:47	WG2184590
Sodium	423		0.513	2.00	1	12/08/2023 00:47	WG2184590
Thallium	U		0.000176	0.00100	1	12/08/2023 00:47	WG2184590



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1160		20.0	1	12/07/2023 13:54	WG2184726

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1810		10.0	1	12/11/2023 09:30	WG2185321

Sample Narrative:

L1684784-07 WG2185321: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	217		8.45	20.0	1	12/11/2023 09:53	WG2186556

Sample Narrative:

L1684784-07 WG2186556: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	277		1.90	5.00	5	12/17/2023 20:32	WG2189231
Fluoride	U		0.0640	0.150	1	12/17/2023 20:16	WG2189231
Sulfate	292		2.97	25.0	5	12/17/2023 20:32	WG2189231

Mercury by Method 245.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	0.000679		0.000100	0.000200	1	12/09/2023 17:46	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	12/10/2023 00:11	WG2185148
Lithium	U		0.00689	0.0150	1	12/10/2023 00:11	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	12/08/2023 00:51	WG2184590
Arsenic	U		0.000195	0.00100	1	12/08/2023 00:51	WG2184590
Barium	0.0292		0.000476	0.00500	1	12/08/2023 00:51	WG2184590
Beryllium	U		0.000201	0.00100	1	12/08/2023 00:51	WG2184590
Cadmium	U		0.000160	0.00100	1	12/08/2023 00:51	WG2184590
Calcium	202		0.112	1.00	1	12/08/2023 00:51	WG2184590
Chromium	U		0.00560	0.0200	1	12/08/2023 00:51	WG2184590
Cobalt	U		0.000142	0.00200	1	12/08/2023 00:51	WG2184590
Lead	U		0.000513	0.00200	1	12/08/2023 00:51	WG2184590
Molybdenum	U		0.000841	0.00500	1	12/08/2023 00:51	WG2184590
Selenium	U		0.000437	0.00200	1	12/08/2023 00:51	WG2184590
Sodium	136		0.513	2.00	1	12/08/2023 00:51	WG2184590
Thallium	U		0.000176	0.00100	1	12/08/2023 00:51	WG2184590



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	916		20.0	1	12/07/2023 13:54	WG2184726

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1390		10.0	1	12/11/2023 09:30	WG2185321

Sample Narrative:

L1684784-08 WG2185321: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	276		8.45	20.0	1	12/11/2023 09:57	WG2186556

Sample Narrative:

L1684784-08 WG2186556: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	159		0.379	1.00	1	12/17/2023 20:48	WG2189231
Fluoride	U		0.0640	0.150	1	12/17/2023 20:48	WG2189231
Sulfate	266		2.97	25.0	5	12/17/2023 21:04	WG2189231

Mercury by Method 245.1

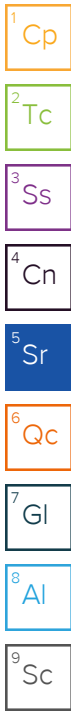
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 17:48	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	12/10/2023 00:15	WG2185148
Lithium	0.00721	J	0.00689	0.0150	1	12/10/2023 00:15	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	12/08/2023 00:54	WG2184590
Arsenic	0.000290	J	0.000195	0.00100	1	12/08/2023 00:54	WG2184590
Barium	0.0695		0.000476	0.00500	1	12/08/2023 00:54	WG2184590
Beryllium	U		0.000201	0.00100	1	12/08/2023 00:54	WG2184590
Cadmium	U		0.000160	0.00100	1	12/08/2023 00:54	WG2184590
Calcium	198		0.112	1.00	1	12/08/2023 00:54	WG2184590
Chromium	U		0.00560	0.0200	1	12/08/2023 00:54	WG2184590
Cobalt	U		0.000142	0.00200	1	12/08/2023 00:54	WG2184590
Lead	U		0.000513	0.00200	1	12/08/2023 00:54	WG2184590
Molybdenum	U		0.000841	0.00500	1	12/08/2023 00:54	WG2184590
Selenium	U		0.000437	0.00200	1	12/08/2023 00:54	WG2184590
Sodium	59.8		0.513	2.00	1	12/08/2023 00:54	WG2184590
Thallium	U		0.000176	0.00100	1	12/08/2023 00:54	WG2184590



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1300		20.0	1	12/08/2023 15:59	WG2184729

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1830		10.0	1	12/11/2023 09:30	WG2185321

Sample Narrative:

L1684784-09 WG2185321: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	241		8.45	20.0	1	12/11/2023 10:01	WG2186556

Sample Narrative:

L1684784-09 WG2186556: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	79.2		0.379	1.00	1	12/17/2023 21:20	WG2189231
Fluoride	0.110	J	0.0640	0.150	1	12/17/2023 21:20	WG2189231
Sulfate	640		5.94	50.0	10	12/17/2023 21:35	WG2189231

Mercury by Method 245.1

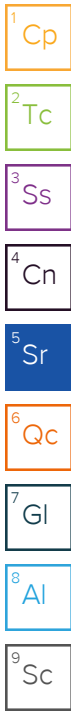
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 17:51	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.104	J	0.0396	0.200	1	12/10/2023 00:18	WG2185148
Lithium	U		0.00689	0.0150	1	12/10/2023 00:18	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U		0.00172	0.00500	1	12/08/2023 00:58	WG2184590
Arsenic	0.000467	J	0.000195	0.00100	1	12/08/2023 00:58	WG2184590
Barium	0.0338		0.000476	0.00500	1	12/08/2023 00:58	WG2184590
Beryllium	U		0.000201	0.00100	1	12/08/2023 00:58	WG2184590
Cadmium	U		0.000160	0.00100	1	12/08/2023 00:58	WG2184590
Calcium	216		0.112	1.00	1	12/08/2023 00:58	WG2184590
Chromium	U		0.00560	0.0200	1	12/08/2023 00:58	WG2184590
Cobalt	0.000236	J	0.000142	0.00200	1	12/08/2023 00:58	WG2184590
Lead	U		0.000513	0.00200	1	12/08/2023 00:58	WG2184590
Molybdenum	U		0.000841	0.00500	1	12/08/2023 00:58	WG2184590
Selenium	U		0.000437	0.00200	1	12/08/2023 00:58	WG2184590
Sodium	138		0.513	2.00	1	12/08/2023 00:58	WG2184590
Thallium	U		0.000176	0.00100	1	12/08/2023 00:58	WG2184590



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	884		20.0	1	12/08/2023 15:59	WG2184729

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1590		10.0	1	12/11/2023 09:30	WG2185321

Sample Narrative:

L1684784-10 WG2185321: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	197		8.45	20.0	1	12/11/2023 10:05	WG2186556

Sample Narrative:

L1684784-10 WG2186556: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	239		1.90	5.00	5	12/17/2023 22:07	WG2189231
Fluoride	U		0.0640	0.150	1	12/17/2023 21:51	WG2189231
Sulfate	227		2.97	25.0	5	12/17/2023 22:07	WG2189231

Mercury by Method 245.1

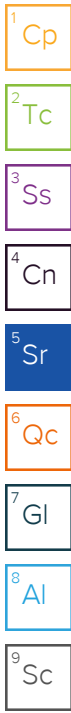
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 17:58	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	12/10/2023 00:21	WG2185148
Lithium	0.0132	J	0.00689	0.0150	1	12/10/2023 00:21	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U	J4	0.00172	0.00500	1	12/11/2023 18:53	WG2185161
Arsenic	0.000224	J	0.000195	0.00100	1	12/11/2023 18:53	WG2185161
Barium	0.0731		0.000476	0.00500	1	12/11/2023 18:53	WG2185161
Beryllium	U		0.000201	0.00100	1	12/11/2023 18:53	WG2185161
Cadmium	U		0.000160	0.00100	1	12/11/2023 18:53	WG2185161
Calcium	146		0.112	1.00	1	12/11/2023 18:53	WG2185161
Chromium	U		0.00560	0.0200	1	12/11/2023 18:53	WG2185161
Cobalt	U		0.000142	0.00200	1	12/11/2023 18:53	WG2185161
Lead	U		0.000513	0.00200	1	12/11/2023 18:53	WG2185161
Molybdenum	U		0.000841	0.00500	1	12/11/2023 18:53	WG2185161
Selenium	U		0.000437	0.00200	1	12/11/2023 18:53	WG2185161
Sodium	136		0.513	2.00	1	12/11/2023 18:53	WG2185161
Thallium	U		0.000176	0.00100	1	12/11/2023 18:53	WG2185161



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	2000		50.0	1	12/08/2023 15:59	WG2184729

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	4050		10.0	1	12/12/2023 11:50	WG2187547

Sample Narrative:

L1684784-11 WG2187547: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	396		8.45	20.0	1	12/11/2023 10:48	WG2186556

Sample Narrative:

L1684784-11 WG2186556: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	1010		3.79	10.0	10	12/17/2023 23:11	WG2189231
Fluoride	0.117	J	0.0640	0.150	1	12/17/2023 22:55	WG2189231
Sulfate	115		0.594	5.00	1	12/17/2023 22:55	WG2189231

Mercury by Method 245.1

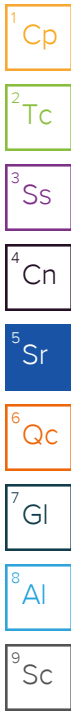
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 18:00	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	12/10/2023 00:24	WG2185148
Lithium	0.0103	J	0.00689	0.0150	1	12/10/2023 00:24	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U	J4	0.00172	0.00500	1	12/11/2023 18:56	WG2185161
Arsenic	0.000271	J	0.000195	0.00100	1	12/11/2023 18:56	WG2185161
Barium	0.295		0.000476	0.00500	1	12/11/2023 18:56	WG2185161
Beryllium	U		0.000201	0.00100	1	12/11/2023 18:56	WG2185161
Cadmium	U		0.000160	0.00100	1	12/11/2023 18:56	WG2185161
Calcium	223		0.112	1.00	1	12/11/2023 18:56	WG2185161
Chromium	U		0.00560	0.0200	1	12/11/2023 18:56	WG2185161
Cobalt	U		0.000142	0.00200	1	12/11/2023 18:56	WG2185161
Lead	U		0.000513	0.00200	1	12/11/2023 18:56	WG2185161
Molybdenum	U		0.000841	0.00500	1	12/11/2023 18:56	WG2185161
Selenium	U		0.000437	0.00200	1	12/11/2023 18:56	WG2185161
Sodium	517		0.513	2.00	1	12/11/2023 18:56	WG2185161
Thallium	U		0.000176	0.00100	1	12/11/2023 18:56	WG2185161



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	1030		20.0	1	12/08/2023 15:59	WG2184729

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1870		10.0	1	12/11/2023 09:30	WG2185321

Sample Narrative:

L1684784-12 WG2185321: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	404		8.45	20.0	1	12/11/2023 12:25	WG2186560

Sample Narrative:

L1684784-12 WG2186560: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	218		1.90	5.00	5	12/17/2023 23:43	WG2189231
Fluoride	0.206		0.0640	0.150	1	12/17/2023 23:27	WG2189231
Sulfate	215		2.97	25.0	5	12/17/2023 23:43	WG2189231

Mercury by Method 245.1

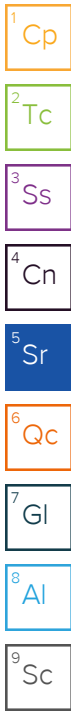
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 18:03	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.194	J	0.0396	0.200	1	12/10/2023 00:33	WG2185148
Lithium	0.106		0.00689	0.0150	1	12/10/2023 00:33	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U	J4	0.00172	0.00500	1	12/11/2023 18:59	WG2185161
Arsenic	0.000396	J	0.000195	0.00100	1	12/11/2023 18:59	WG2185161
Barium	0.0490		0.000476	0.00500	1	12/11/2023 18:59	WG2185161
Beryllium	U		0.000201	0.00100	1	12/11/2023 18:59	WG2185161
Cadmium	U		0.000160	0.00100	1	12/11/2023 18:59	WG2185161
Calcium	60.4		0.112	1.00	1	12/11/2023 18:59	WG2185161
Chromium	U		0.00560	0.0200	1	12/11/2023 18:59	WG2185161
Cobalt	U		0.000142	0.00200	1	12/11/2023 18:59	WG2185161
Lead	U		0.000513	0.00200	1	12/11/2023 18:59	WG2185161
Molybdenum	U		0.000841	0.00500	1	12/11/2023 18:59	WG2185161
Selenium	U		0.000437	0.00200	1	12/11/2023 18:59	WG2185161
Sodium	307		0.513	2.00	1	12/11/2023 18:59	WG2185161
Thallium	U		0.000176	0.00100	1	12/11/2023 18:59	WG2185161



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	337		10.0	1	12/08/2023 15:59	WG2184729

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	573		10.0	1	12/11/2023 15:04	WG2186244

Sample Narrative:

L1684784-13 WG2186244: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	238		8.45	20.0	1	12/11/2023 12:30	WG2186560

Sample Narrative:

L1684784-13 WG2186560: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	6.10		0.379	1.00	1	12/17/2023 23:59	WG2189231
Fluoride	0.392		0.0640	0.150	1	12/17/2023 23:59	WG2189231
Sulfate	55.5	J6	0.594	5.00	1	12/17/2023 23:59	WG2189231

Mercury by Method 245.1

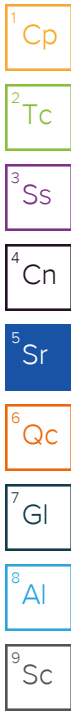
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 18:05	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.100	J	0.0396	0.200	1	12/10/2023 00:36	WG2185148
Lithium	0.00942	J	0.00689	0.0150	1	12/10/2023 00:36	WG2185148

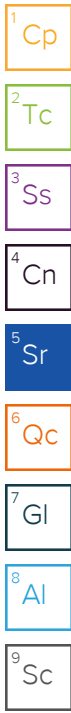
Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U	J4	0.00172	0.00500	1	12/11/2023 19:03	WG2185161
Arsenic	0.00373		0.000195	0.00100	1	12/11/2023 19:03	WG2185161
Barium	0.126		0.000476	0.00500	1	12/11/2023 19:03	WG2185161
Beryllium	U		0.000201	0.00100	1	12/11/2023 19:03	WG2185161
Cadmium	U		0.000160	0.00100	1	12/11/2023 19:03	WG2185161
Calcium	73.5		0.112	1.00	1	12/11/2023 19:03	WG2185161
Chromium	U		0.00560	0.0200	1	12/11/2023 19:03	WG2185161
Cobalt	0.000387	J	0.000142	0.00200	1	12/11/2023 19:03	WG2185161
Lead	U		0.000513	0.00200	1	12/11/2023 19:03	WG2185161
Molybdenum	0.0441		0.000841	0.00500	1	12/11/2023 19:03	WG2185161
Selenium	0.000560	J	0.000437	0.00200	1	12/11/2023 19:03	WG2185161
Sodium	15.4		0.513	2.00	1	12/11/2023 19:03	WG2185161
Thallium	U		0.000176	0.00100	1	12/11/2023 19:03	WG2185161



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	303		10.0	1	12/08/2023 14:28	WG2185621



Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	546		10.0	1	12/11/2023 15:04	WG2186244

Sample Narrative:

L1684784-14 WG2186244: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	266		8.45	20.0	1	12/11/2023 12:35	WG2186560

Sample Narrative:

L1684784-14 WG2186560: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	8.45		0.379	1.00	1	12/18/2023 01:02	WG2189231
Fluoride	0.187		0.0640	0.150	1	12/18/2023 01:02	WG2189231
Sulfate	10.7		0.594	5.00	1	12/18/2023 01:02	WG2189231

Mercury by Method 245.1

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 18:07	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	U		0.0396	0.200	1	12/10/2023 00:38	WG2185148
Lithium	U		0.00689	0.0150	1	12/10/2023 00:38	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U	J4	0.00172	0.00500	1	12/11/2023 19:06	WG2185161
Arsenic	0.00123		0.000195	0.00100	1	12/11/2023 19:06	WG2185161
Barium	0.132		0.000476	0.00500	1	12/11/2023 19:06	WG2185161
Beryllium	U		0.000201	0.00100	1	12/11/2023 19:06	WG2185161
Cadmium	U		0.000160	0.00100	1	12/11/2023 19:06	WG2185161
Calcium	81.4		0.112	1.00	1	12/11/2023 19:06	WG2185161
Chromium	U		0.00560	0.0200	1	12/11/2023 19:06	WG2185161
Cobalt	U		0.000142	0.00200	1	12/11/2023 19:06	WG2185161
Lead	U		0.000513	0.00200	1	12/11/2023 19:06	WG2185161
Molybdenum	0.00286	J	0.000841	0.00500	1	12/11/2023 19:06	WG2185161
Selenium	U		0.000437	0.00200	1	12/11/2023 19:06	WG2185161
Sodium	7.92		0.513	2.00	1	12/11/2023 19:06	WG2185161
Thallium	U		0.000176	0.00100	1	12/11/2023 19:06	WG2185161

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	632		13.3	1	12/08/2023 14:28	WG2185621

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1090		10.0	1	12/11/2023 15:04	WG2186244

Sample Narrative:

L1684784-15 WG2186244: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	435		8.45	20.0	1	12/11/2023 12:40	WG2186560

Sample Narrative:

L1684784-15 WG2186560: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	13.1		0.379	1.00	1	12/16/2023 08:00	WG2190608
Fluoride	U		0.0640	0.150	1	12/16/2023 08:00	WG2190608
Sulfate	158		0.594	5.00	1	12/16/2023 08:00	WG2190608

Mercury by Method 245.1

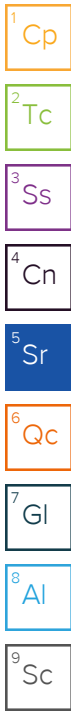
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 18:10	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.509		0.0396	0.200	1	12/09/2023 23:17	WG2185148
Lithium	0.0442		0.00689	0.0150	1	12/09/2023 23:17	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U	J4	0.00172	0.00500	1	12/11/2023 19:22	WG2185161
Arsenic	0.000533	J	0.000195	0.00100	1	12/11/2023 19:22	WG2185161
Barium	0.0848		0.000476	0.00500	1	12/11/2023 19:22	WG2185161
Beryllium	U		0.000201	0.00100	1	12/11/2023 19:22	WG2185161
Cadmium	U		0.000160	0.00100	1	12/11/2023 19:22	WG2185161
Calcium	145		0.112	1.00	1	12/11/2023 19:22	WG2185161
Chromium	U		0.00560	0.0200	1	12/11/2023 19:22	WG2185161
Cobalt	0.000232	J	0.000142	0.00200	1	12/11/2023 19:22	WG2185161
Lead	U		0.000513	0.00200	1	12/11/2023 19:22	WG2185161
Molybdenum	U		0.000841	0.00500	1	12/11/2023 19:22	WG2185161
Selenium	U		0.000437	0.00200	1	12/11/2023 19:22	WG2185161
Sodium	46.6		0.513	2.00	1	12/11/2023 19:22	WG2185161
Thallium	U		0.000176	0.00100	1	12/11/2023 19:22	WG2185161



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	752		13.3	1	12/08/2023 14:28	WG2185621

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1150		10.0	1	12/11/2023 15:04	WG2186244

Sample Narrative:

L1684784-16 WG2186244: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	169		8.45	20.0	1	12/11/2023 12:45	WG2186560

Sample Narrative:

L1684784-16 WG2186560: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	20.1		0.379	1.00	1	12/16/2023 08:32	WG2190608
Fluoride	0.200		0.0640	0.150	1	12/16/2023 08:32	WG2190608
Sulfate	403		2.97	25.0	5	12/16/2023 08:48	WG2190608

Mercury by Method 245.1

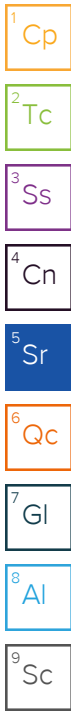
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 18:12	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.131	J	0.0396	0.200	1	12/10/2023 00:41	WG2185148
Lithium	U		0.00689	0.0150	1	12/10/2023 00:41	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U	J4	0.00172	0.00500	1	12/11/2023 19:25	WG2185161
Arsenic	0.000660	J	0.000195	0.00100	1	12/11/2023 19:25	WG2185161
Barium	0.0488		0.000476	0.00500	1	12/11/2023 19:25	WG2185161
Beryllium	U		0.000201	0.00100	1	12/11/2023 19:25	WG2185161
Cadmium	U		0.000160	0.00100	1	12/11/2023 19:25	WG2185161
Calcium	105		0.112	1.00	1	12/11/2023 19:25	WG2185161
Chromium	U		0.00560	0.0200	1	12/11/2023 19:25	WG2185161
Cobalt	0.000767	J	0.000142	0.00200	1	12/11/2023 19:25	WG2185161
Lead	U		0.000513	0.00200	1	12/11/2023 19:25	WG2185161
Molybdenum	0.00141	J	0.000841	0.00500	1	12/11/2023 19:25	WG2185161
Selenium	U		0.000437	0.00200	1	12/11/2023 19:25	WG2185161
Sodium	114		0.513	2.00	1	12/11/2023 19:25	WG2185161
Thallium	U		0.000176	0.00100	1	12/11/2023 19:25	WG2185161



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	755		13.3	1	12/08/2023 14:28	WG2185621

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1160		10.0	1	12/11/2023 15:04	WG2186244

Sample Narrative:

L1684784-17 WG2186244: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	168		8.45	20.0	1	12/11/2023 12:51	WG2186560

Sample Narrative:

L1684784-17 WG2186560: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	20.1		0.379	1.00	1	12/16/2023 09:03	WG2190608
Fluoride	0.198		0.0640	0.150	1	12/16/2023 09:03	WG2190608
Sulfate	384		2.97	25.0	5	12/16/2023 09:19	WG2190608

Mercury by Method 245.1

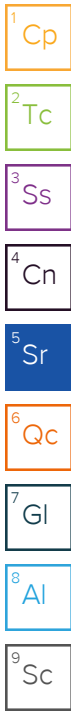
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 18:14	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.132	J	0.0396	0.200	1	12/10/2023 00:45	WG2185148
Lithium	U		0.00689	0.0150	1	12/10/2023 00:45	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U	J4	0.00172	0.00500	1	12/11/2023 19:28	WG2185161
Arsenic	0.000618	J	0.000195	0.00100	1	12/11/2023 19:28	WG2185161
Barium	0.0506		0.000476	0.00500	1	12/11/2023 19:28	WG2185161
Beryllium	U		0.000201	0.00100	1	12/11/2023 19:28	WG2185161
Cadmium	U		0.000160	0.00100	1	12/11/2023 19:28	WG2185161
Calcium	106		0.112	1.00	1	12/11/2023 19:28	WG2185161
Chromium	U		0.00560	0.0200	1	12/11/2023 19:28	WG2185161
Cobalt	0.000765	J	0.000142	0.00200	1	12/11/2023 19:28	WG2185161
Lead	U		0.000513	0.00200	1	12/11/2023 19:28	WG2185161
Molybdenum	0.00132	J	0.000841	0.00500	1	12/11/2023 19:28	WG2185161
Selenium	U		0.000437	0.00200	1	12/11/2023 19:28	WG2185161
Sodium	113		0.513	2.00	1	12/11/2023 19:28	WG2185161
Thallium	U		0.000176	0.00100	1	12/11/2023 19:28	WG2185161



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	812		13.3	1	12/08/2023 14:28	WG2185621

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	1270		10.0	1	12/11/2023 15:04	WG2186244

Sample Narrative:

L1684784-18 WG2186244: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	314		8.45	20.0	1	12/11/2023 12:56	WG2186560

Sample Narrative:

L1684784-18 WG2186560: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	16.5		0.379	1.00	1	12/16/2023 09:35	WG2190608
Fluoride	0.143	J	0.0640	0.150	1	12/16/2023 09:35	WG2190608
Sulfate	345		2.97	25.0	5	12/16/2023 10:23	WG2190608

Mercury by Method 245.1

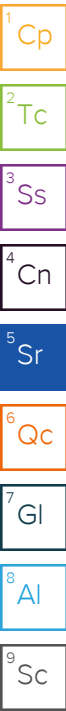
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	U		0.000100	0.000200	1	12/09/2023 18:49	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	0.103	J	0.0396	0.200	1	12/09/2023 23:28	WG2185148
Lithium	U		0.00689	0.0150	1	12/09/2023 23:28	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	U	J4	0.00172	0.00500	1	12/11/2023 19:32	WG2185161
Arsenic	0.000322	J	0.000195	0.00100	1	12/11/2023 19:32	WG2185161
Barium	0.0441		0.000476	0.00500	1	12/11/2023 19:32	WG2185161
Beryllium	U		0.000201	0.00100	1	12/11/2023 19:32	WG2185161
Cadmium	U		0.000160	0.00100	1	12/11/2023 19:32	WG2185161
Calcium	143		0.112	1.00	1	12/11/2023 19:32	WG2185161
Chromium	U		0.00560	0.0200	1	12/11/2023 19:32	WG2185161
Cobalt	U		0.000142	0.00200	1	12/11/2023 19:32	WG2185161
Lead	U		0.000513	0.00200	1	12/11/2023 19:32	WG2185161
Molybdenum	U		0.000841	0.00500	1	12/11/2023 19:32	WG2185161
Selenium	U		0.000437	0.00200	1	12/11/2023 19:32	WG2185161
Sodium	113		0.513	2.00	1	12/11/2023 19:32	WG2185161
Thallium	U		0.000176	0.00100	1	12/11/2023 19:32	WG2185161



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Dissolved Solids	mg/l		mg/l		date / time	
	974		20.0	1	12/08/2023 14:28	WG2185621

Wet Chemistry by Method 120.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
Specific Conductance	umhos/cm		umhos/cm		date / time	
	1470		10.0	1	12/11/2023 15:04	WG2186244

Sample Narrative:

L1684784-19 WG2186244: at 25C

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	mg/l		mg/l	mg/l		date / time	
	416		8.45	20.0	1	12/11/2023 13:01	WG2186560

Sample Narrative:

L1684784-19 WG2186560: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	mg/l		mg/l	mg/l		date / time	
	13.4		0.379	1.00	1	12/16/2023 10:39	WG2190608
Fluoride							
	0.157		0.0640	0.150	1	12/16/2023 10:39	WG2190608
Sulfate							
	371		2.97	25.0	5	12/16/2023 10:55	WG2190608

Mercury by Method 245.1

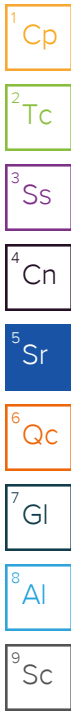
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Mercury	mg/l		mg/l	mg/l		date / time	
	U	J6 O1	0.000100	0.000200	1	12/09/2023 17:20	WG2184291

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Boron	mg/l		mg/l	mg/l		date / time	
	0.298		0.0396	0.200	1	12/10/2023 00:48	WG2185148
Lithium							
	U		0.00689	0.0150	1	12/10/2023 00:48	WG2185148

Metals (ICPMS) by Method 200.8

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Antimony	mg/l		mg/l	mg/l		date / time	
	U	J4	0.00172	0.00500	1	12/11/2023 19:35	WG2185161
Arsenic							
	0.000303	J	0.000195	0.00100	1	12/11/2023 19:35	WG2185161
Barium							
	0.0124		0.000476	0.00500	1	12/11/2023 19:35	WG2185161
Beryllium							
	U		0.000201	0.00100	1	12/11/2023 19:35	WG2185161
Cadmium							
	0.000340	J	0.000160	0.00100	1	12/11/2023 19:35	WG2185161
Calcium							
	196		0.112	1.00	1	12/11/2023 19:35	WG2185161
Chromium							
	U		0.00560	0.0200	1	12/11/2023 19:35	WG2185161
Cobalt							
	U		0.000142	0.00200	1	12/11/2023 19:35	WG2185161
Lead							
	U		0.000513	0.00200	1	12/11/2023 19:35	WG2185161
Molybdenum							
	0.000871	J	0.000841	0.00500	1	12/11/2023 19:35	WG2185161
Selenium							
	U		0.000437	0.00200	1	12/11/2023 19:35	WG2185161
Sodium							
	92.4		0.513	2.00	1	12/11/2023 19:35	WG2185161
Thallium							
	U		0.000176	0.00100	1	12/11/2023 19:35	WG2185161



Method Blank (MB)

(MB) R4010273-1 12/07/23 13:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1682485-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1682485-01 12/07/23 13:54 • (DUP) R4010273-3 12/07/23 13:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1190	1290	1	7.59	J3	5

⁴Cn

⁵Sr

L1682785-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1682785-18 12/07/23 13:54 • (DUP) R4010273-4 12/07/23 13:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1430	1580	1	10.3	J3	5

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4010273-2 12/07/23 13:54

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8500	96.6	85.0-115	

⁹Sc

Method Blank (MB)

(MB) R4010896-1 12/08/23 15:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

L1683968-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1683968-01 12/08/23 15:59 • (DUP) R4010896-3 12/09/23 13:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	2790	2630	1	5.72	J3	5

4 Cn

5 Sr

L1684064-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1684064-01 12/08/23 15:59 • (DUP) R4010896-4 12/09/23 13:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1560	1550	1	0.322		5

6 Qc

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R4010896-2 12/08/23 15:59

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8600	97.7	85.0-115	

9 Sc

Method Blank (MB)

(MB) R4010882-1 12/08/23 14:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

L1684413-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1684413-02 12/08/23 14:28 • (DUP) R4010882-3 12/08/23 14:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	143	144	1	0.697		5

4 Cn

5 Sr

L1684413-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1684413-03 12/08/23 14:28 • (DUP) R4010882-4 12/08/23 14:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	271	269	1	0.741		5

6 Qc

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R4010882-2 12/08/23 14:28

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8620	98.0	85.0-115	

9 Sc

Method Blank (MB)

(MB) R4010533-1 12/11/23 09:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1684262-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1684262-08 12/11/23 09:30 • (DUP) R4010533-3 12/11/23 09:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	1350	1330	1	1.19		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1684784-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1684784-05 12/11/23 09:30 • (DUP) R4010533-4 12/11/23 09:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Specific Conductance	7750	7790	1	0.515		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4010533-2 12/11/23 09:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Specific Conductance	327	326	99.7	85.0-115	

Sample Narrative:

LCS: at 25C

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4010785-1 12/11/23 15:04

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1684005-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1684005-02 12/11/23 15:04 • (DUP) R4010785-3 12/11/23 15:04

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	1620	1600	1	1.68		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1684964-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1684964-01 12/11/23 15:04 • (DUP) R4010785-4 12/11/23 15:04

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	20100	19800	1	1.76		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4010785-2 12/11/23 15:04

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	327	315	96.3	85.0-115	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R4011224-1 12/12/23 11:50

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1684023-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1684023-02 12/12/23 11:50 • (DUP) R4011224-3 12/12/23 11:50

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	3700	3640	1	1.63		20

Sample Narrative:

OS: at 25C
DUP: at 25C

L1685803-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1685803-01 12/12/23 11:50 • (DUP) R4011224-4 12/12/23 11:50

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Specific Conductance	147	147	1	0.0679		20

Sample Narrative:

OS: at 25C
DUP: at 25C

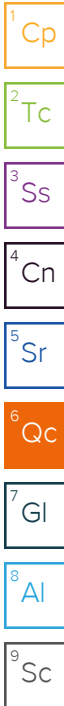
Laboratory Control Sample (LCS)

(LCS) R4011224-2 12/12/23 11:50

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	327	334	102	85.0-115	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R4010782-2 12/11/23 08:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1683632-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1683632-14 12/11/23 08:42 • (DUP) R4010782-4 12/11/23 08:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	729	739	1	1.27		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1685613-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1685613-01 12/11/23 10:35 • (DUP) R4010782-6 12/11/23 10:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	97.5	99.1	1	1.69		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4010782-1 12/11/23 08:28

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100	93.2	93.2	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5



Method Blank (MB)

(MB) R4010783-2 12/11/23 11:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	U		8.45	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1684539-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1684539-01 12/11/23 11:32 • (DUP) R4010783-3 12/11/23 11:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	128	131	1	1.90		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1685120-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1685120-01 12/11/23 13:37 • (DUP) R4010783-4 12/11/23 13:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	66.2	67.3	1	1.65		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4010783-1 12/11/23 11:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100	101	101	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4013999-1 12/17/23 11:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1684784-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1684784-13 12/17/23 23:59 • (DUP) R4013999-3 12/18/23 00:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	6.10	6.16	1	0.928		15
Fluoride	0.392	0.431	1	9.45		15
Sulfate	55.5	55.6	1	0.238		15

L1684784-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1684784-14 12/18/23 01:02 • (DUP) R4013999-6 12/18/23 01:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	8.45	8.44	1	0.121		15
Fluoride	0.187	0.183	1	2.27		15
Sulfate	10.7	10.6	1	0.591		15

Laboratory Control Sample (LCS)

(LCS) R4013999-2 12/17/23 11:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	39.6	99.0	90.0-110	
Fluoride	8.00	8.14	102	90.0-110	
Sulfate	40.0	39.8	99.6	90.0-110	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1684784-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1684784-13 12/17/23 23:59 • (MS) R4013999-4 12/18/23 00:31 • (MSD) R4013999-5 12/18/23 00:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	6.10	45.6	45.3	98.7	98.0	1	80.0-120			0.675	15
Fluoride	8.00	0.392	7.92	7.87	94.1	93.5	1	80.0-120			0.617	15
Sulfate	40.0	55.5	83.3	84.2	69.4	71.8	1	80.0-120	J6	J6	1.13	15

Sample Narrative:

MS: [SO4 spike failed due to matrix]

MSD: [SO4 spike failed due to matrix]

L1684784-14 Original Sample (OS) • Matrix Spike (MS)

(OS) L1684784-14 12/18/23 01:02 • (MS) R4013999-7 12/18/23 02:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	8.45	47.3	97.1	1	80.0-120	
Fluoride	8.00	0.187	7.71	94.0	1	80.0-120	
Sulfate	40.0	10.7	47.8	92.8	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4013435-1 12/15/23 22:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1688432-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1688432-13 12/16/23 05:21 • (DUP) R4013435-3 12/16/23 05:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	5.89	5.91	1	0.364		15
Sulfate	1.41	1.29	1	8.59	U	15

L1685031-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1685031-02 12/16/23 11:43 • (DUP) R4013435-5 12/16/23 11:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	65.4	65.4	1	0.0309		15
Sulfate	45.5	45.5	1	0.0158		15

Laboratory Control Sample (LCS)

(LCS) R4013435-2 12/15/23 22:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	39.6	99.1	90.0-110	
Fluoride	8.00	8.29	104	90.0-110	
Sulfate	40.0	40.7	102	90.0-110	

L1688432-13 Original Sample (OS) • Matrix Spike (MS)

(OS) L1688432-13 12/16/23 05:21 • (MS) R4013435-4 12/16/23 05:53

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	40.0	5.89	44.3	96.0	1	80.0-120	
Sulfate	40.0	1.41	41.6	100	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1685031-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1685031-02 12/16/23 11:43 • (MS) R4013435-6 12/16/23 12:14 • (MSD) R4013435-7 12/16/23 12:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	65.4	92.2	92.1	66.9	66.8	1	80.0-120	<u>J6</u>	<u>J6</u>	0.0197	15
Sulfate	40.0	45.5	77.0	77.0	78.8	78.8	1	80.0-120	<u>J6</u>	<u>J6</u>	0.0129	15

Sample Narrative:

MS: spike failed due to sample matrix

MSD: spike failed due to sample matrix

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4010296-1 12/09/23 17:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Mercury	U		0.000100	0.000200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R4010296-2 12/09/23 17:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Mercury	0.00300	0.00300	100	85.0-115	

L1684784-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1684784-01 12/09/23 17:13 • (MS) R4010296-3 12/09/23 17:15 • (MSD) R4010296-4 12/09/23 17:18

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.00300	U	0.00162	0.00162	53.9	54.0	1	70.0-130	J6	J6	0.206	20

L1684784-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1684784-19 12/09/23 17:20 • (MS) R4010296-5 12/09/23 17:22 • (MSD) R4010296-6 12/09/23 17:30

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.00300	U	0.000874	0.000910	29.1	30.3	1	70.0-130	J6	J6	4.02	20

Method Blank (MB)

(MB) R4010329-1 12/09/23 23:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron	U		0.0396	0.200
Lithium	U		0.00689	0.0150

Laboratory Control Sample (LCS)

(LCS) R4010329-2 12/09/23 23:14

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Boron	1.00	1.05	105	85.0-115	
Lithium	1.00	1.02	102	85.0-115	

L1684784-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1684784-15 12/09/23 23:17 • (MS) R4010329-4 12/09/23 23:22 • (MSD) R4010329-5 12/09/23 23:25

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	1.00	0.509	1.56	1.56	105	105	1	70.0-130			0.00462	20
Lithium	1.00	0.0442	1.07	1.06	102	102	1	70.0-130			0.411	20

L1684784-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1684784-18 12/09/23 23:28 • (MS) R4010329-6 12/09/23 23:31 • (MSD) R4010329-7 12/09/23 23:34

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	1.00	0.103	1.20	1.17	109	106	1	70.0-130			2.39	20
Lithium	1.00	U	1.07	1.05	107	105	1	70.0-130			1.73	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4009789-1 12/08/23 00:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.00172	0.00500
Arsenic	U		0.000195	0.00100
Barium	U		0.000476	0.00500
Beryllium	U		0.000201	0.00100
Cadmium	U		0.000160	0.00100
Calcium	U		0.112	1.00
Chromium	U		0.00560	0.0200
Cobalt	U		0.000142	0.00200
Lead	U		0.000513	0.00200
Molybdenum	U		0.000841	0.00500
Selenium	U		0.000437	0.00200
Sodium	U		0.513	2.00
Thallium	U		0.000176	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4009789-2 12/08/23 00:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0514	103	85.0-115	
Arsenic	0.0500	0.0475	95.0	85.0-115	
Barium	0.0500	0.0489	97.9	85.0-115	
Beryllium	0.0500	0.0486	97.2	85.0-115	
Cadmium	0.0500	0.0468	93.6	85.0-115	
Calcium	5.00	4.82	96.4	85.0-115	
Chromium	0.0500	0.0459	91.8	85.0-115	
Cobalt	0.0500	0.0467	93.4	85.0-115	
Lead	0.0500	0.0474	94.9	85.0-115	
Molybdenum	0.0500	0.0470	94.1	85.0-115	
Selenium	0.0500	0.0450	90.0	85.0-115	
Sodium	5.00	4.76	95.3	85.0-115	
Thallium	0.0500	0.0484	96.8	85.0-115	

L1684784-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1684784-02 12/08/23 00:11 • (MS) R4009789-4 12/08/23 00:17 • (MSD) R4009789-5 12/08/23 00:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	U	0.0536	0.0532	107	106	1	70.0-130			0.712	20
Arsenic	0.0500	0.000570	0.0465	0.0468	91.8	92.6	1	70.0-130			0.837	20
Barium	0.0500	0.0620	0.109	0.109	94.5	94.0	1	70.0-130			0.236	20
Beryllium	0.0500	U	0.0448	0.0450	89.6	90.1	1	70.0-130			0.516	20
Cadmium	0.0500	U	0.0436	0.0434	87.2	86.8	1	70.0-130			0.472	20
Calcium	5.00	73.4	75.3	76.2	38.1	55.9	1	70.0-130	∇	∇	1.17	20
Chromium	0.0500	U	0.0420	0.0423	84.1	84.6	1	70.0-130			0.675	20
Cobalt	0.0500	U	0.0430	0.0433	86.0	86.6	1	70.0-130			0.775	20
Lead	0.0500	U	0.0460	0.0441	92.0	88.2	1	70.0-130			4.21	20
Molybdenum	0.0500	U	0.0475	0.0473	95.0	94.5	1	70.0-130			0.492	20
Selenium	0.0500	U	0.0444	0.0436	88.8	87.3	1	70.0-130			1.69	20
Sodium	5.00	347	333	333	0.000	0.000	1	70.0-130	∇	∇	0.155	20
Thallium	0.0500	U	0.0460	0.0447	91.9	89.4	1	70.0-130			2.82	20

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

Method Blank (MB)

(MB) R4010928-1 12/11/23 17:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.00172	0.00500
Arsenic	U		0.000195	0.00100
Barium	U		0.000476	0.00500
Beryllium	U		0.000201	0.00100
Cadmium	U		0.000160	0.00100
Calcium	U		0.112	1.00
Chromium	U		0.00560	0.0200
Cobalt	U		0.000142	0.00200
Lead	U		0.000513	0.00200
Molybdenum	U		0.000841	0.00500
Selenium	U		0.000437	0.00200
Sodium	U		0.513	2.00
Thallium	U		0.000176	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4010928-2 12/11/23 18:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0592	118	85.0-115	<u>J4</u>
Arsenic	0.0500	0.0454	90.8	85.0-115	
Barium	0.0500	0.0447	89.3	85.0-115	
Beryllium	0.0500	0.0509	102	85.0-115	
Cadmium	0.0500	0.0460	92.0	85.0-115	
Calcium	5.00	4.43	88.7	85.0-115	
Chromium	0.0500	0.0458	91.5	85.0-115	
Cobalt	0.0500	0.0456	91.2	85.0-115	
Lead	0.0500	0.0469	93.9	85.0-115	
Molybdenum	0.0500	0.0499	99.8	85.0-115	
Selenium	0.0500	0.0471	94.1	85.0-115	
Sodium	5.00	4.51	90.2	85.0-115	
Thallium	0.0500	0.0472	94.4	85.0-115	

L1684486-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1684486-01 12/11/23 18:03 • (MS) R4010928-4 12/11/23 18:10 • (MSD) R4010928-5 12/11/23 18:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	U	0.0605	0.0603	121	121	1	70.0-130			0.310	20
Arsenic	0.0500	0.000910	0.0507	0.0514	99.5	101	1	70.0-130			1.51	20
Barium	0.0500	0.0587	0.101	0.105	83.9	92.0	1	70.0-130			3.92	20
Beryllium	0.0500	U	0.0536	0.0556	107	111	1	70.0-130			3.60	20
Cadmium	0.0500	U	0.0494	0.0499	98.9	99.9	1	70.0-130			0.997	20
Calcium	5.00	18.4	23.1	23.0	94.3	92.5	1	70.0-130			0.389	20
Chromium	0.0500	U	0.0510	0.0514	102	103	1	70.0-130			0.660	20
Cobalt	0.0500	0.00132	0.0510	0.0518	99.3	101	1	70.0-130			1.52	20
Lead	0.0500	0.00272	0.0540	0.0539	103	102	1	70.0-130			0.128	20
Molybdenum	0.0500	U	0.0518	0.0509	104	102	1	70.0-130			1.80	20
Selenium	0.0500	U	0.0485	0.0502	97.1	100	1	70.0-130			3.40	20
Sodium	5.00	11.5	17.0	16.1	111	92.0	1	70.0-130			5.83	20
Thallium	0.0500	U	0.0505	0.0514	101	103	1	70.0-130			1.71	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1685248-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1685248-02 12/11/23 18:16 • (MS) R4010928-6 12/11/23 18:20 • (MSD) R4010928-7 12/11/23 18:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	U	0.0596	0.0622	119	124	1	70.0-130			4.33	20
Arsenic	0.0500	0.000274	0.0503	0.0496	100	98.7	1	70.0-130			1.46	20
Barium	0.0500	0.0546	0.106	0.107	103	105	1	70.0-130			0.966	20
Beryllium	0.0500	U	0.0548	0.0538	110	108	1	70.0-130			1.83	20
Cadmium	0.0500	U	0.0513	0.0497	103	99.5	1	70.0-130			3.12	20
Calcium	5.00	87.4	94.1	96.0	134	172	1	70.0-130	V	V	1.98	20
Chromium	0.0500	U	0.0502	0.0495	100	99.0	1	70.0-130			1.43	20
Cobalt	0.0500	U	0.0489	0.0481	97.8	96.3	1	70.0-130			1.64	20
Lead	0.0500	U	0.0505	0.0499	101	99.8	1	70.0-130			1.21	20
Molybdenum	0.0500	0.00211	0.0527	0.0542	101	104	1	70.0-130			2.68	20
Selenium	0.0500	0.00152	0.0543	0.0525	106	102	1	70.0-130			3.49	20
Sodium	5.00	84.0	90.3	91.1	127	144	1	70.0-130		V	0.946	20
Thallium	0.0500	U	0.0502	0.0489	100	97.9	1	70.0-130			2.61	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

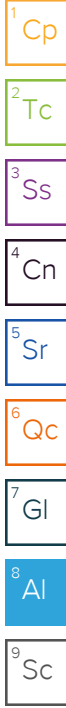
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

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



Company Name/Address:

Enercon - Oklahoma City, OK

2302 S. Prospect Ave.
Oklahoma City, OK 73129

Billing Information:

Accounts Payable - Lisa Hedrick
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to:
Rusty Lynch

Email To:
rlynch@enercon.com;ccurrent@enercon.com

Project Description:
GREC, Chouteau, OK

City/State
Collected: Chouteau, OK

Please Circle:
PT MT CT ET

Phone: 405-722-7693

Client Project #
GRDA - 00027

Lab Project #
ENERCOOK-GRDA
Chouteau

Collected by (print):
C. Cope

Site/Facility ID #
GRDA

P.O. #

Collected by (signature):
C. Cope

Rush? (Lab MUST Be Notified)

Quote #

___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

STD. TAT

Immediately
Packed on Ice N ___ Y X

No.
of
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	5	ALK 125mlHDPE-NoPres	Cl, F, SO4 125mlHDPE-NoPres	RA-226, 1L-HDPE-Add HNO3, RA-228	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3							
MW22-01	G	DW		11-30-23	0925	5	X	X	X	X	X							-01
MW93-3	G	DW		11-30-23	1030	5	X	X	X	X	X							-02
MW22-04	G	DW		11-30-23	1120	5	X	X	X	X	X							-03
MW93-2	G	DW		11-30-23	1345	5	X	X	X	X	X							-04
MW22-02	G	DW		11-30-23	1435	5	X	X	X	X	X							-05
MW22-03	G	DW		11-30-23	1535	5	X	X	X	X	X							-06
MW03-2	G	DW		12-1-23	0845	5	X	X	X	X	X							-07
MW22-06	G	DW		12-1-23	0945	5	X	X	X	X	X							-08
MW23-01	G	DW		12-1-23	1040	5	X	X	X	X	X							-09
MW23-02	G	DW		12-1-23	1130	5	X	X	X	X	X							-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:
Please run RA-226 and RA-228

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: Y N

COC Signed/Accurate: Y N

Bottles arrive intact: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

If Applicable

VOA Zero Headspace: Y N

Preservation Correct/Checked: Y N

RAD Screen <0.5 mR/hr: Y N

Samples returned via:
___ UPS ___ FedEx ___ Courier

Tracking #

Relinquished by: (Signature)

Date: 12-4-23 Time: 1650

Received by: (Signature)

Trip Blank Received: Yes No
HCL / MeOH
TBR

Relinquished by: (Signature)

Date: 12-5-23 Time: 1915

Received by: (Signature)

Temp: _____ °C Bottles Received: 95

PH-10BDH4321 TRC-2352362
CR6-20221V

Relinquished by: (Signature)

Date: _____ Time: _____

Received for lab by: (Signature)

Date: 12-6-23 Time: 0900

Hold: _____ Condition: NCF / OK

PNTOK

Company Name - Oklahoma City, OK

2302 S. Prospect Ave.
Oklahoma City, OK 73129

Billing Information:

Accounts Payable - Lisa Hedrick
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 3 of 2

Report to:
Rusty Lynch

Email To:
rlynch@enercon.com;ccurrent@enercon.com

Project Description:
GREC, Chouteau, OK

City/State
Collected: Chouteau, OK

Please Circle:
PT MT **CT** ET

Phone: 405-722-7693

Client Project #
GRDA - 00027

Lab Project #
ENERCOOK-GRDA

Collected by (print):
C. Cope

Site/Facility ID #
GRDA

P.O. #

Collected by (signature):
C. Cope

Rush? (Lab MUST Be Notified)

Quote #

___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

STD TAT

No.
of
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts
-----------	-----------	----------	-------	------	------	-------------

MW 22-05	G	DW		12-1-23	1335	5
MW 22-08	G	DW		12-1-23	1420	5
MW 23-03	G	DW		12-1-23	1530	5
MW 23-04	G	DW		12-4-23	0920	5
MW 23-05	G	DW		12-4-23	1025	5
MW 33-06	G	DW		12-4-23	1145	5
DUP	G	DW		12-4-23	0000	5
MW 22-07	G	DW		12-4-23	1305	5
MW 93-1	G	DW		12-4-23	1435	5
		DW				5

ALK 125mlHDPE-NoPres

Cl, F, SO4 125mlHDPE-NoPres

RA-226, 1L-HDPE-Add HNO3, RA-228

SPCON, TDS 250mlHDPE-NoPres

Tot. Rec. Metals 250mlHDPE-HNO3



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # 41684784

Table #

Acctnum: ENERCOOK

Template: T206542

Prelogin: P1036869

PM: 104 - Jason Romer

PB: BF 11/13/23

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Please run RA-226 and RA-228

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

___ UPS ___ FedEx ___ Courier

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact: ___ NP Y N
COC Signed/Accurate: ___ Y N
Bottles arrive intact: ___ Y N
Correct bottles used: ___ Y N
Sufficient volume sent: ___ Y N
If Applicable
VOA Zero Headspace: ___ Y N
Preservation Correct/Checked: ___ Y N
RAD Screen <0.5 mR/hr: ___ Y N

Relinquished by: (Signature)

Date:

12-4-23 16:50

Time:

Received by: (Signature)

Trip Blank Received: Yes/No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

12-5-23 18:00

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received: 95

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

12-6-23 09:00

Time:

Received for lab by: (Signature)

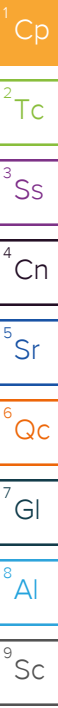
Date: 12-6-23 Time: 09:00

Hold: _____ Condition: NCF / OK

PNTOK

68248917

<u>Tracking Numbers</u>	<u>Temperature</u>
SMA	18/18
SMA	4.7 50 - 4.7 2.0 2.0
SMA	0.9 2.0 > 0.9 2.0 2.0
SMA	2.1 2.0 = 2.1



Enercon - Oklahoma City, OK

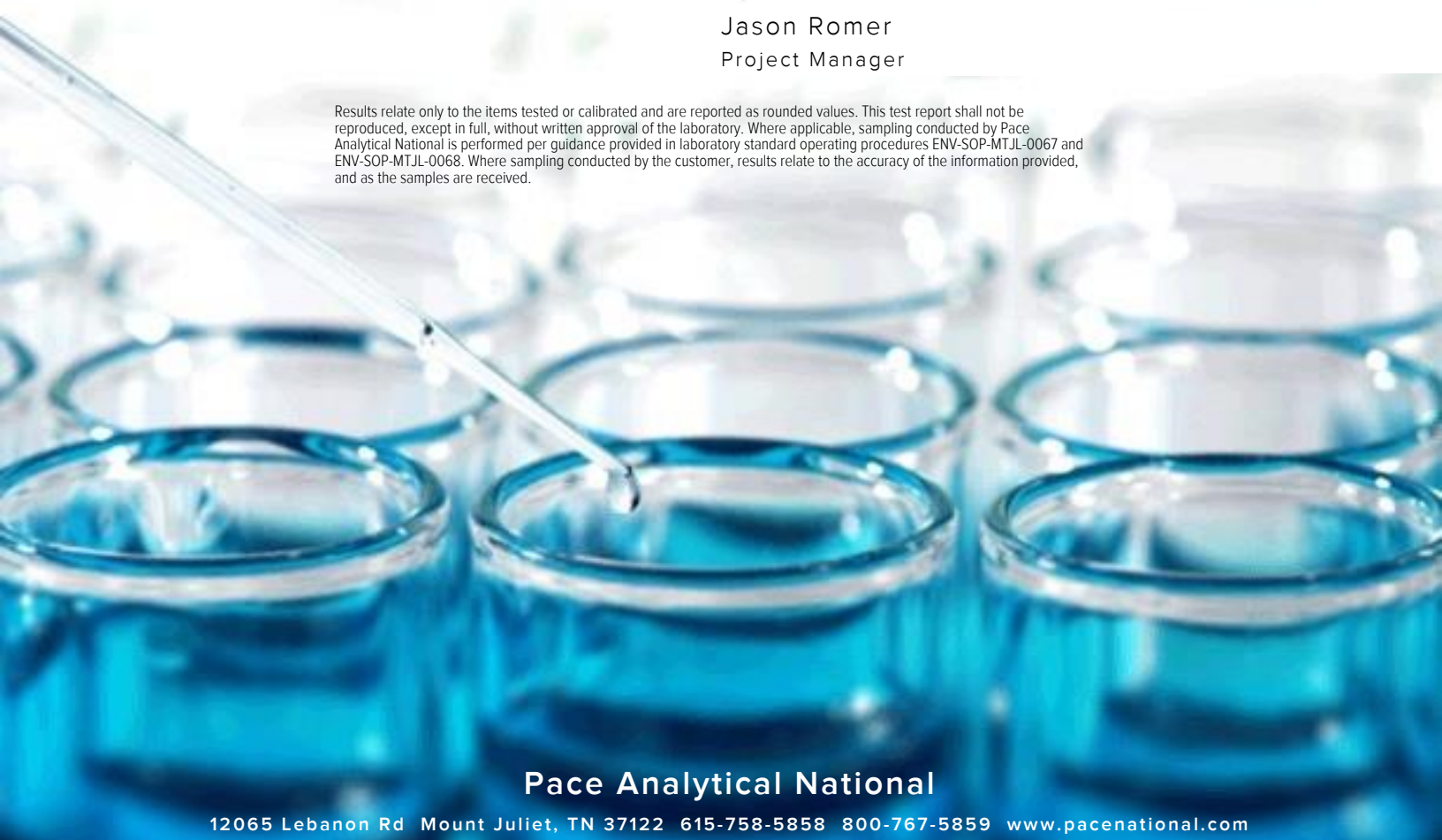
Sample Delivery Group: L1684793
Samples Received: 12/06/2023
Project Number: GRDA-00027
Description: GREC, Chouteau, OK
Site: GRDA
Report To: Rusty Lynch
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Entire Report Reviewed By:



Jason Romer
Project Manager

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

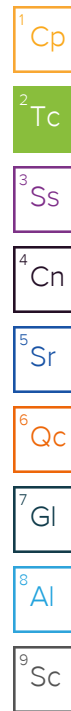


Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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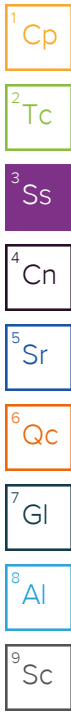


SAMPLE SUMMARY

MW22-01 L1684793-01 DW

Collected by C. Cope Collected date/time 11/30/23 09:25 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2191471	1	12/19/23 14:09	12/28/23 01:25	SNR	Mt. Juliet, TN



MW93-3 L1684793-02 DW

Collected by C. Cope Collected date/time 11/30/23 10:30 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2191471	1	12/19/23 14:09	12/28/23 01:25	SNR	Mt. Juliet, TN

MW22-04 L1684793-03 DW

Collected by C. Cope Collected date/time 11/30/23 11:20 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 03:26	SNR	Mt. Juliet, TN

MW93-2 L1684793-04 DW

Collected by C. Cope Collected date/time 11/30/23 13:45 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2191471	1	12/19/23 14:09	12/28/23 01:25	SNR	Mt. Juliet, TN

MW22-02 L1684793-05 DW

Collected by C. Cope Collected date/time 11/30/23 14:35 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2191471	1	12/19/23 14:09	12/28/23 01:25	SNR	Mt. Juliet, TN

MW22-03 L1684793-06 DW

Collected by C. Cope Collected date/time 11/30/23 15:35 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2191471	1	12/19/23 14:09	12/28/23 02:26	SNR	Mt. Juliet, TN

MW03-2 L1684793-07 DW

Collected by C. Cope Collected date/time 12/01/23 08:45 Received date/time 12/06/23 09:00

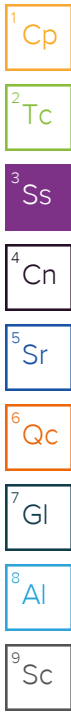
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2191471	1	12/19/23 14:09	12/28/23 02:26	SNR	Mt. Juliet, TN

SAMPLE SUMMARY

MW22-06 L1684793-08 DW

Collected by C. Cope Collected date/time 12/01/23 09:45 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 04:26	SNR	Mt. Juliet, TN



MW23-01 L1684793-09 DW

Collected by C. Cope Collected date/time 12/01/23 10:40 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 04:26	SNR	Mt. Juliet, TN

MW23-02 L1684793-10 DW

Collected by C. Cope Collected date/time 12/01/23 11:30 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 04:26	SNR	Mt. Juliet, TN

MW22-05 L1684793-11 DW

Collected by C. Cope Collected date/time 12/01/23 13:35 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 04:26	SNR	Mt. Juliet, TN

MW22-08 L1684793-12 DW

Collected by C. Cope Collected date/time 12/01/23 14:20 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190641	1	12/16/23 10:47	12/21/23 14:52	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 05:26	SNR	Mt. Juliet, TN

MW23-03 L1684793-13 DW

Collected by C. Cope Collected date/time 12/01/23 15:30 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190774	1	12/18/23 15:12	12/22/23 14:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 05:26	SNR	Mt. Juliet, TN

MW23-04 L1684793-14 DW

Collected by C. Cope Collected date/time 12/04/23 09:20 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190774	1	12/18/23 15:12	12/22/23 14:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 05:26	SNR	Mt. Juliet, TN

SAMPLE SUMMARY

MW23-05 L1684793-15 DW

Collected by C. Cope Collected date/time 12/04/23 10:25 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190774	1	12/18/23 15:12	12/22/23 14:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 05:26	SNR	Mt. Juliet, TN

¹Cp

²Tc

³Ss

MW33-06 L1684793-16 DW

Collected by C. Cope Collected date/time 12/04/23 11:45 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190774	1	12/18/23 15:12	12/22/23 14:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 06:27	SNR	Mt. Juliet, TN

⁴Cn

⁵Sr

⁶Qc

DUP L1684793-17 DW

Collected by C. Cope Collected date/time 12/04/23 00:00 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190774	1	12/18/23 15:12	12/22/23 14:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 06:27	SNR	Mt. Juliet, TN

⁷Gl

⁸Al

⁹Sc

MW22-07 L1684793-18 DW

Collected by C. Cope Collected date/time 12/04/23 13:05 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190774	1	12/18/23 15:12	12/22/23 14:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 06:27	SNR	Mt. Juliet, TN

MW93-1 L1684793-19 DW

Collected by C. Cope Collected date/time 12/04/23 14:35 Received date/time 12/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904	WG2190774	1	12/18/23 15:12	12/22/23 14:53	DDD	Mt. Juliet, TN
Radiochemistry by Method SM 7500 Ra B	WG2192496	1	12/21/23 14:09	12/28/23 06:27	SNR	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jason Romer
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.15		0.289		0.489		12/21/2023 14:52	WG2190641
(T) Barium	106					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	118					25.0-150	12/21/2023 14:52	WG2190641

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.183		0.144		0.160		12/28/2023 01:25	WG2191471
(T) Barium	122					30.0-125	12/28/2023 01:25	WG2191471

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.378	<u>U</u>	0.243		0.449		12/21/2023 14:52	WG2190641
(T) Barium	105					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	108					25.0-150	12/21/2023 14:52	WG2190641

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.278		0.165		0.177		12/28/2023 01:25	WG2191471
(T) Barium	103					30.0-125	12/28/2023 01:25	WG2191471

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.82		0.363		0.602		12/21/2023 14:52	WG2190641
(T) Barium	111					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	125					25.0-150	12/21/2023 14:52	WG2190641

1 Cp

2 Tc

3 Ss

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.303		0.195		0.174		12/28/2023 03:26	WG2192496
(T) Barium	103					30.0-125	12/28/2023 03:26	WG2192496

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.55		0.286		0.444		12/21/2023 14:52	WG2190641
(T) Barium	113					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	114					25.0-150	12/21/2023 14:52	WG2190641

1 Cp

2 Tc

3 Ss

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.543		0.222		0.175		12/28/2023 01:25	WG2191471
(T) Barium	125					30.0-125	12/28/2023 01:25	WG2191471

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.35		0.286		0.477		12/21/2023 14:52	WG2190641
(T) Barium	115					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	126					25.0-150	12/21/2023 14:52	WG2190641

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.118	J	0.109		0.118		12/28/2023 01:25	WG2191471
(T) Barium	133	C1				30.0-125	12/28/2023 01:25	WG2191471

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.19		0.244		0.404		12/21/2023 14:52	WG2190641
(T) Barium	115					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	119					25.0-150	12/21/2023 14:52	WG2190641

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.741		0.244		0.164		12/28/2023 02:26	WG2191471
(T) Barium	110					30.0-125	12/28/2023 02:26	WG2191471

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.921		0.238		0.401		12/21/2023 14:52	WG2190641
(T) Barium	104					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	102					25.0-150	12/21/2023 14:52	WG2190641

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.196		0.143		0.168		12/28/2023 02:26	WG2191471
(T) Barium	109					30.0-125	12/28/2023 02:26	WG2191471

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.121	<u>U</u>	0.200		0.361		12/21/2023 14:52	WG2190641
(T) Barium	107					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	111					25.0-150	12/21/2023 14:52	WG2190641

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.143	<u>J</u>	0.133		0.177		12/28/2023 04:26	WG2192496
(T) Barium	106					30.0-125	12/28/2023 04:26	WG2192496

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0771	<u>U</u>	0.265		0.476		12/21/2023 14:52	WG2190641
(T) Barium	107					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	115					25.0-150	12/21/2023 14:52	WG2190641

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.248		0.162		0.186		12/28/2023 04:26	WG2192496
(T) Barium	97.9					30.0-125	12/28/2023 04:26	WG2192496

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.02		0.213		0.352		12/21/2023 14:52	WG2190641
(T) Barium	106					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	127					25.0-150	12/21/2023 14:52	WG2190641

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.247		0.171		0.208		12/28/2023 04:26	WG2192496
(T) Barium	105					30.0-125	12/28/2023 04:26	WG2192496

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.54		0.251		0.407		12/21/2023 14:52	WG2190641
(T) Barium	109					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	100					25.0-150	12/21/2023 14:52	WG2190641

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.479		0.200		0.141		12/28/2023 04:26	WG2192496
(T) Barium	103					30.0-125	12/28/2023 04:26	WG2192496

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.866		0.250		0.425		12/21/2023 14:52	WG2190641
(T) Barium	118					25.0-150	12/21/2023 14:52	WG2190641
(T) Yttrium	125					25.0-150	12/21/2023 14:52	WG2190641

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0597	<u>U</u>	0.103		0.178		12/28/2023 05:26	WG2192496
(T) Barium	102					30.0-125	12/28/2023 05:26	WG2192496

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.642		0.255		0.441		12/22/2023 14:53	WG2190774
(T) Barium	101					25.0-150	12/22/2023 14:53	WG2190774
(T) Yttrium	110					25.0-150	12/22/2023 14:53	WG2190774

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.469		0.213		0.184		12/28/2023 05:26	WG2192496
(T) Barium	104					30.0-125	12/28/2023 05:26	WG2192496

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.918		0.282		0.482		12/22/2023 14:53	WG2190774
(T) Barium	119					25.0-150	12/22/2023 14:53	WG2190774
(T) Yttrium	119					25.0-150	12/22/2023 14:53	WG2190774

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.411		0.205		0.211		12/28/2023 05:26	WG2192496
(T) Barium	103					30.0-125	12/28/2023 05:26	WG2192496

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.56		0.321		0.515		12/22/2023 14:53	WG2190774
(T) Barium	111					25.0-150	12/22/2023 14:53	WG2190774
(T) Yttrium	101					25.0-150	12/22/2023 14:53	WG2190774

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

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.307		0.165		0.140		12/28/2023 05:26	WG2192496
(T) Barium	106					30.0-125	12/28/2023 05:26	WG2192496

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.624		0.269		0.467		12/22/2023 14:53	WG2190774
(T) Barium	107					25.0-150	12/22/2023 14:53	WG2190774
(T) Yttrium	123					25.0-150	12/22/2023 14:53	WG2190774

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.153	J	0.130		0.166		12/28/2023 06:27	WG2192496
(T) Barium	108					30.0-125	12/28/2023 06:27	WG2192496

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.120	<u>U</u>	0.229		0.412		12/22/2023 14:53	WG2190774
(T) Barium	105					25.0-150	12/22/2023 14:53	WG2190774
(T) Yttrium	113					25.0-150	12/22/2023 14:53	WG2190774

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.118	<u>J</u>	0.122		0.171		12/28/2023 06:27	WG2192496
(T) Barium	107					30.0-125	12/28/2023 06:27	WG2192496

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.118	<u>U</u>	0.260		0.472		12/22/2023 14:53	WG2190774
(T) Barium	101					25.0-150	12/22/2023 14:53	WG2190774
(T) Yttrium	108					25.0-150	12/22/2023 14:53	WG2190774

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.101	<u>J</u>	0.131		0.213		12/28/2023 06:27	WG2192496
(T) Barium	98.5					30.0-125	12/28/2023 06:27	WG2192496

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

Radiochemistry by Method 904

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.259	J	0.222		0.395		12/22/2023 14:53	WG2190774
(T) Barium	104					25.0-150	12/22/2023 14:53	WG2190774
(T) Yttrium	113					25.0-150	12/22/2023 14:53	WG2190774

Radiochemistry by Method SM 7500 Ra B

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.103	J	0.107		0.142		12/28/2023 06:27	WG2192496
(T) Barium	105					30.0-125	12/28/2023 06:27	WG2192496

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

Method Blank (MB)

(MB) R4017343-1 12/21/23 14:52

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.977		0.163	0.264	
(T) Barium	116		116		
(T) Yttrium	114		114		

L1684793-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1684793-03 12/21/23 14:52 • (DUP) R4017343-5 12/21/23 14:52

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.82	0.363	0.602		2.73	0.411	0.667		40.0	1.66		20	2
(T) Barium	111				110	110							
(T) Yttrium	125				122	122							

Laboratory Control Sample (LCS)

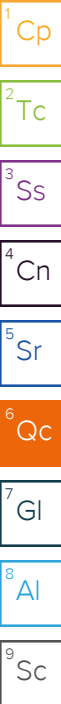
(LCS) R4017343-2 12/21/23 14:52

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.80	116	80.0-120	
(T) Barium			111		
(T) Yttrium			112		

L1684702-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1684702-01 12/21/23 14:52 • (MS) R4017343-3 12/21/23 14:52 • (MSD) R4017343-4 12/21/23 14:52

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	2.51	18.0	19.8	92.7	103	1	70.0-130			9.48		20
(T) Barium		115			109	112							
(T) Yttrium		110			126	120							



Method Blank (MB)

(MB) R4017348-1 12/22/23 14:53

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.000	<u>U</u>	0.141	0.259	
(T) Barium	108		108		
(T) Yttrium	101		101		

L1686153-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1686153-01 12/22/23 14:53 • (DUP) R4017348-5 12/22/23 14:53

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.869	0.293	0.492		0.137	0.384	0.671		146	1.52	<u>U</u>	20	2
(T) Barium	113				112	112							
(T) Yttrium	116				120	120							

Laboratory Control Sample (LCS)

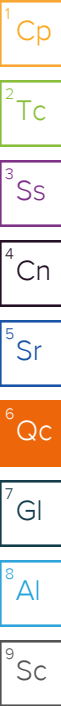
(LCS) R4017348-2 12/22/23 14:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.43	109	80.0-120	
(T) Barium			120		
(T) Yttrium			120		

L1685195-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1685195-01 12/22/23 14:53 • (MS) R4017348-3 12/22/23 14:53 • (MSD) R4017348-4 12/22/23 14:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.194	17.0	15.1	101	89.1	1	70.0-130			12.2		20
(T) Barium		113			110	107							
(T) Yttrium		104			103	104							



Method Blank (MB)

(MB) R4017546-1 12/27/23 20:24

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0301	<u>U</u>	0.0418	0.0994	
(T) Barium	100		100		

L1684713-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1684713-01 12/28/23 00:25 • (DUP) R4017546-5 12/27/23 21:24

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.117	0.107	0.166		0.217	0.201	0.254		60.0	0.439	<u>J</u>	20	2
(T) Barium	102				97.2	97.2							

Laboratory Control Sample (LCS)

(LCS) R4017546-2 12/27/23 20:24

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	4.73	94.7	90.0-110	
(T) Barium			92.2		

L1684696-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1684696-01 12/27/23 22:24 • (MS) R4017546-3 12/27/23 20:24 • (MSD) R4017546-4 12/27/23 21:24

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	1.71	20.7	17.9	95.1	80.8	1	80.0-120			14.8		20
(T) Barium		99.3			101	105							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4017554-1 12/28/23 02:26

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0306	<u>U</u>	0.0475	0.111	
(T) Barium	100		100		

L1686151-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1686151-01 12/28/23 07:27 • (DUP) R4017554-5 12/28/23 03:26

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	1.48	0.300	0.147		1.48	0.448	0.303		0.203	0.00556		20	2
(T) Barium	103				97.4	97.4							

Laboratory Control Sample (LCS)

(LCS) R4017554-2 12/28/23 02:26

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	4.76	95.2	90.0-110	
(T) Barium			96.2		

L1686152-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1686152-01 12/28/23 07:27 • (MS) R4017554-3 12/28/23 03:26 • (MSD) R4017554-4 12/28/23 03:26

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	1.78	18.0	18.2	80.9	82.0	1	80.0-120			1.22		20
(T) Barium		101			91.0	94.2							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

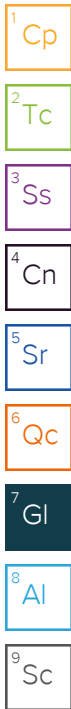
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
Enercon - Oklahoma City, OK

2302 S. Prospect Ave.
Oklahoma City, OK 73129

Billing Information:
Accounts Payable - Lisa Hedrick
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 4

Report to:
Rusty Lynch

Email To:
rlynch@enercon.com; ccurrent@enercon.com

Project Description:
GREC, Chouteau, OK

City/State
Collected: **Chouteau, OK**

Please Circle:
PT MT **CT** ET

Phone: 405-722-7693

Client Project #
GRDA - 00027

Lab Project #
**ENERCOOK-GRDA
Chouteau**

Collected by (print):
C. Cope

Site/Facility ID #
GRDA

P.O. #

Collected by (signature):
C. Cope

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #

Date Results Needed
STD. TAT

No.
of
Cnts

Immediately
Packed on Ice N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts	ALK 125mlHDPE-NoPres	Cl, F, SO4 125mlHDPE-NoPres	RA-226, 1L-HDPE-Add HNO3, RA-228	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3							
MW22-01	G	DW		11-30-23	0925	5	X	X	X	X	X							-01
MW93-3	G	DW		11-30-23	1030	5	X	X	X	X	X							-02
MW22-04	G	DW		11-30-23	1120	5	X	X	X	X	X							-03
MW93-2	G	DW		11-30-23	1345	5	X	X	X	X	X							-04
MW22-02	G	DW		11-30-23	1435	5	X	X	X	X	X							-05
MW22-03	G	DW		11-30-23	1535	5	X	X	X	X	X							-06
MW03-2	G	DW		12-1-23	0845	5	X	X	X	X	X							-07
MW22-06	G	DW		12-1-23	0945	5	X	X	X	X	X							-08
MW23-01	G	DW		12-1-23	1040	5	X	X	X	X	X							-09
MW23-02	G	DW		12-1-23	1130	5	X	X	X	X	X							-10



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **4684793**
 Table #
 Acctnum: **ENERCOOK**
 Template: **T206542**
 Prelogin: **P1036869**
 PM: **104 - Jason Romer**
 PB: **BF 11/13/23**
 Shipped Via: **FedEX Ground**
 Remarks | Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
Please run RA-226 and RA-228

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist
 COC Seal Present/Intact: NP Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If Applicable
 VOA Zero Headpace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Samples returned via:
 UPS FedEx Courier Tracking # _____

Relinquished by: (Signature) <i>C. Cope</i>	Date: 12-4-23	Time: 1650	Received by: (Signature) <i>[Signature]</i>	Trip Blank Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> HCL/MeOH TBR
Relinquished by: (Signature) <i>[Signature]</i>	Date: 12-4-23	Time: 1915	Received by: (Signature) SWA	Temp: _____ °C Bottles Received: 95
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 12-6-23 Time: 0900 Hold: _____ Condition: NCF / OK

PH-10BDH4321 TRC-2352362
CR6-20221V

Enercon - Oklahoma City, OK

2302 S. Prospect Ave.
Oklahoma City, OK 73129

Accounts Payable - Lisa Hedrick
2302 S. Prospect Ave.
Oklahoma City, OK 73129

Pres
Chk

Report to:
Rusty Lynch

Email To:
rlynch@enercon.com; ccurrent@enercon.com

Project Description:
GREC, Chouteau, OK

City/State Collected: **Chouteau, OK**

Please Circle:
PT MT **CT** ET

Phone: 405-722-7693

Client Project #
GRDA - 00027

Lab Project #
ENERCOOK-GRDA

Collected by (print):
C. Cape

Site/Facility ID #
GRDA

P.O. #

Collected by (signature):
C. Cape

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

STD TAT

No. of
Cntrs

Packed on Ice N Y X

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	5	ALK 125mlHDPE-NoPres	Cl, F, S04 125mlHDPE-NoPres	RA-226, 1L-HDPE-Add HNO3, RA-228	SPCON, TDS 250mlHDPE-NoPres	Tot. Rec. Metals 250mlHDPE-HNO3							
MW22-05	G	DW		12-1-23	1335	5	X	X	X	X	X							-11
MW22-08	G	DW		12-1-23	1420	5	X	X	X	X	X							-12
MW23-03	G	DW		12-1-23	1530	5	X	X	X	X	X							-13
MW23-04	G	DW		12-4-23	0920	5	X	X	X	X	X							-14
MW23-05	G	DW		12-4-23	1025	5	X	X	X	X	X							-15
MW33-06	G	DW		12-4-23	1145	5	X	X	X	X	X							-16
DUP	G	DW		12-4-23	0000	5	X	X	X	X	X							-17
MW22-07	G	DW		12-4-23	1305	5	X	X	X	X	X							-18
MW93-1	G	DW		12-4-23	1435	5	X	X	X	X	X							-19
		DW				5	X	X	X	X	X							



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
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SDG # **L1684793**
Table #
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* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Please run RA-226 and RA-228

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero HeadSpace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Samples returned via:
 UPS FedEx Courier

Tracking #

Relinquished by: (Signature)
[Signature]

Date: **12-4-23**
Time: **1650**

Received by: (Signature)
[Signature]

Trip Blank Received: Yes/No
HCL / MeOH
TBR

Relinquished by: (Signature)
[Signature]

Date: **12-5-23**
Time: **18:00**

Received by: (Signature)
SWA

Temp: _____ °C
Bottles Received: **95**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____
Time: _____

Received for lab by: (Signature)
[Signature]

Date: **12-6-23**
Time: **0900**

Hold: _____ Condition: NCF / **OK**

L1684793

Tracking Numbers		Temperature
SMA		11/21/78 4.7 20 - 4.7
SMA		11/21/78 0.9 20 > 0.9
SMA		11/21/78 2.1 110 = 2.1

Attachment C
Statistical Output

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Alkalinity

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 88

Maximum Background Value = 637

Confidence Level = 91.7%

False Positive Rate = 8.3%

Location	Date	Count	Mean	Significant
MW93-2	5/4/2023	1	268	FALSE
MW93-3	5/3/2023	1	585	FALSE
MW03-1	5/3/2023	1	77.6	FALSE
MW03-2	5/3/2023	1	215	FALSE
MW22-02	5/4/2023	1	183	FALSE
MW22-03	5/4/2023	1	289	FALSE
MW22-04	5/4/2023	1	200	FALSE
MW22-05	5/3/2023	2	302.5	FALSE
MW22-06	5/3/2023	1	273	FALSE
MW22-07	5/4/2023	1	282	FALSE
MW22-08	5/3/2023	1	415	FALSE

Shapiro-Francia Test of Normality

Parameter: Alkalinity

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 399

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	30.2	-2.87815	8.28375	-86.9201
2	40.8	-2.57583	14.9187	-192.014
3	40.8	-2.45727	20.9569	-292.271
4	55	-2.32634	26.3687	-420.22
5	55	-2.25713	31.4634	-544.362
6	56	-2.17009	36.1727	-665.887
7	72	-2.12007	40.6673	-818.532
8	76	-2.05375	44.8852	-974.617
9	77.6	-2.01409	48.9418	-1130.91
10	83.4	-1.95996	52.7833	-1294.37
11	83.4	-1.92684	56.496	-1455.07
12	83.8	-1.88079	60.0333	-1612.68
13	83.8	-1.85218	63.4639	-1767.89
14	88.5	-1.81191	66.7469	-1928.25
15	92	-1.78661	69.9389	-2092.61
16	96.2	-1.75069	73.0038	-2261.03
17	97.1	-1.72793	75.9895	-2428.81
18	103	-1.6954	78.8639	-2603.44
19	108	-1.67466	81.6684	-2784.3
20	115	-1.64485	84.3739	-2973.46
21	123	-1.62576	87.0171	-3173.43
22	126	-1.59819	89.5713	-3374.8
23	130	-1.58047	92.0691	-3580.26
24	134	-1.55477	94.4865	-3788.6
25	140	-1.5382	96.8525	-4003.95
26	144	-1.5141	99.145	-4221.98
27	144	-1.49852	101.391	-4437.77
28	144	-1.47579	103.569	-4650.28
29	149	-1.46106	105.703	-4867.98
30	150	-1.43953	107.775	-5083.91
31	154	-1.42554	109.808	-5303.44
32	160	-1.40507	111.782	-5528.25
33	162.2	-1.39175	113.719	-5753.99
34	170	-1.3722	115.602	-5987.27
35	175	-1.35946	117.45	-6225.18
36	176	-1.34075	119.248	-6461.15
37	180	-1.32854	121.013	-6700.28
38	183	-1.31058	122.73	-6940.12
39	184	-1.29884	124.417	-7179.11
40	184	-1.28155	126.06	-7414.91
41	185	-1.27024	127.673	-7649.91
42	190	-1.25357	129.244	-7888.08
43	191	-1.24264	130.789	-8125.43
44	192	-1.22653	132.293	-8360.92
45	192	-1.21596	133.772	-8594.39
46	194	-1.20036	135.212	-8827.26
47	196	-1.19012	136.629	-9060.52

48	196	-1.17499	138.009	-9290.82
49	199.4	-1.16505	139.367	-9523.13
50	200	-1.15035	140.69	-9753.2
51	200	-1.14069	141.991	-9981.33
52	200	-1.12639	143.26	-10206.6
53	200	-1.11699	144.508	-10430
54	200	-1.10306	145.724	-10650.6
55	200	-1.0939	146.921	-10869.4
56	200	-1.08032	148.088	-11085.5
57	200	-1.07138	149.236	-11299.7
58	200	-1.05812	150.356	-11511.4
59	200	-1.04939	151.457	-11721.2
60	200	-1.03643	152.531	-11928.5
61	200	-1.02789	153.588	-12134.1
62	201	-1.01522	154.618	-12338.2
63	204	-1.00687	155.632	-12543.6
64	204	-0.994457	156.621	-12746.4
65	204	-0.986272	157.594	-12947.6
66	206	-0.974114	158.543	-13148.3
67	206	-0.966088	159.476	-13347.3
68	208	-0.954165	160.386	-13545.8
69	208	-0.946291	161.282	-13742.6
70	208	-0.93459	162.155	-13937
71	208	-0.926859	163.014	-14129.8
72	208	-0.919183	163.859	-14321
73	209	-0.907769	164.683	-14510.7
74	209	-0.896473	165.487	-14698.1
75	210	-0.889006	166.277	-14884.8
76	210	-0.877897	167.048	-15069.1
77	210	-0.87055	167.806	-15251.9
78	210	-0.859618	168.545	-15432.5
79	210	-0.852385	169.271	-15611.5
80	211.6	-0.841621	169.98	-15789.5
81	212	-0.834498	170.676	-15966.5
82	212	-0.823893	171.355	-16141.1
83	212	-0.816874	172.022	-16314.3
84	214	-0.806422	172.672	-16486.9
85	214	-0.7995	173.312	-16658
86	214	-0.789191	173.934	-16826.9
87	215	-0.782366	174.547	-16995.1
88	215	-0.772193	175.143	-17161.1
89	216	-0.765456	175.729	-17326.4
90	216	-0.755415	176.299	-17489.6
91	216	-0.748762	176.86	-17651.3
92	216	-0.738846	177.406	-17810.9
93	216	-0.732275	177.942	-17969.1
94	216	-0.722479	178.464	-18125.1
95	217	-0.715986	178.977	-18280.5
96	219	-0.706302	179.476	-18435.2
97	219	-0.699883	179.965	-18588.5
98	220	-0.690309	180.442	-18740.3
99	220	-0.68396	180.91	-18890.8
100	220	-0.67449	181.365	-19039.2
101	220	-0.668209	181.811	-19186.2
102	220	-0.658838	182.245	-19331.1
103	220	-0.652622	182.671	-19474.7
104	220	-0.643345	183.085	-19616.3

105	220	-0.637192	183.491	-19756.4
106	220	-0.628006	183.885	-19894.6
107	220	-0.621911	184.272	-20031.4
108	220	-0.612813	184.648	-20166.2
109	222	-0.606775	185.016	-20300.9
110	222	-0.597761	185.373	-20433.6
111	222	-0.591776	185.724	-20565
112	222	-0.582841	186.063	-20694.4
113	223	-0.576911	186.396	-20823.1
114	224	-0.570999	186.722	-20951
115	224	-0.56217	187.038	-21076.9
116	224	-0.553384	187.344	-21200.9
117	224	-0.547551	187.644	-21323.5
118	225	-0.541736	187.938	-21445.4
119	225	-0.533048	188.222	-21565.3
120	225	-0.524401	188.497	-21683.3
121	226	-0.518658	188.766	-21800.5
122	226	-0.51293	189.029	-21916.5
123	226	-0.504372	189.283	-22030.4
124	226	-0.49585	189.529	-22142.5
125	226	-0.490189	189.769	-22253.3
126	226	-0.481728	190.001	-22362.2
127	227	-0.476105	190.228	-22470.2
128	228	-0.467699	190.447	-22576.9
129	228	-0.462114	190.66	-22682.2
130	228	-0.453763	190.866	-22785.7
131	228	-0.448213	191.067	-22887.9
132	230	-0.439913	191.261	-22989.1
133	230	-0.434397	191.449	-23089
134	230	-0.426148	191.631	-23187
135	230	-0.420664	191.808	-23283.7
136	230	-0.412463	191.978	-23378.6
137	230	-0.40701	192.144	-23472.2
138	230	-0.398855	192.303	-23564
139	230	-0.393433	192.458	-23654.4
140	232	-0.385321	192.606	-23743.8
141	232	-0.379927	192.751	-23832
142	232	-0.371856	192.889	-23918.3
143	234	-0.36649	193.023	-24004
144	234	-0.358459	193.152	-24087.9
145	235	-0.353118	193.276	-24170.9
146	235	-0.345126	193.395	-24252
147	236	-0.33981	193.511	-24332.2
148	236	-0.331854	193.621	-24410.5
149	236	-0.326561	193.728	-24487.6
150	236	-0.318639	193.829	-24562.8
151	240	-0.31337	193.927	-24638
152	240	-0.305481	194.021	-24711.3
153	240	-0.300232	194.111	-24783.3
154	240	-0.292375	194.196	-24853.5
155	240	-0.287147	194.279	-24922.4
156	240	-0.279319	194.357	-24989.5
157	240	-0.27411	194.432	-25055.2
158	240	-0.266311	194.503	-25119.2
159	240	-0.26112	194.571	-25181.8
160	240	-0.253347	194.635	-25242.6
161	240	-0.248174	194.697	-25302.2

162	242	-0.240426	194.755	-25360.4
163	244	-0.235269	194.81	-25417.8
164	244	-0.230118	194.863	-25473.9
165	244	-0.222403	194.912	-25528.2
166	244	-0.214702	194.958	-25580.6
167	245	-0.209575	195.002	-25631.9
168	245	-0.204452	195.044	-25682
169	246	-0.196779	195.083	-25730.4
170	246	-0.189118	195.119	-25777
171	246	-0.184017	195.153	-25822.2
172	246	-0.17892	195.185	-25866.2
173	247	-0.171285	195.214	-25908.5
174	248	-0.163659	195.241	-25949.1
175	249	-0.158579	195.266	-25988.6
176	249	-0.150969	195.289	-26026.2
177	250	-0.1459	195.31	-26062.7
178	250	-0.138305	195.329	-26097.3
179	250	-0.133244	195.347	-26130.6
180	250	-0.125661	195.363	-26162
181	250	-0.12061	195.377	-26192.1
182	250	-0.113039	195.39	-26220.4
183	252	-0.107995	195.402	-26247.6
184	252	-0.100433	195.412	-26272.9
185	252	-0.0953969	195.421	-26297
186	252	-0.0878447	195.428	-26319.1
187	253	-0.0828129	195.435	-26340.1
188	254	-0.0752698	195.441	-26359.2
189	254	-0.0702426	195.446	-26377
190	255	-0.0627062	195.45	-26393
191	255	-0.0576847	195.453	-26407.7
192	255	-0.0501541	195.456	-26420.5
193	256	-0.0451348	195.458	-26432.1
194	256	-0.0376076	195.459	-26441.7
195	256	-0.0325917	195.46	-26450
196	260	-0.0250691	195.461	-26456.5
197	261	-0.0200544	195.461	-26461.8
198	262	-0.0125328	195.461	-26465.1
199	262	-0.00751925	195.461	-26467
200	262	0	195.461	-26467
201	263	0.00751925	195.462	-26465.1
202	264	0.0125328	195.462	-26461.7
203	264	0.0200544	195.462	-26456.5
204	264	0.0250691	195.463	-26449.8
205	264	0.0325917	195.464	-26441.2
206	264	0.0376076	195.465	-26431.3
207	266	0.0451348	195.467	-26419.3
208	266	0.0501541	195.47	-26406
209	266	0.0576847	195.473	-26390.6
210	268	0.0627062	195.477	-26373.8
211	268	0.0702426	195.482	-26355
212	268	0.0752698	195.488	-26334.8
213	268	0.0828129	195.494	-26312.6
214	269	0.0878447	195.502	-26289
215	269	0.0953969	195.511	-26263.3
216	270	0.100433	195.521	-26236.2
217	270	0.107995	195.533	-26207
218	271	0.113039	195.546	-26176.4

219	271	0.12061	195.56	-26143.7
220	272	0.125661	195.576	-26109.5
221	273	0.133244	195.594	-26073.2
222	274	0.138305	195.613	-26035.3
223	276	0.1459	195.634	-25995
224	277	0.150969	195.657	-25953.2
225	278	0.158579	195.682	-25909.1
226	280	0.163659	195.709	-25863.3
227	280	0.171285	195.738	-25815.3
228	280	0.176374	195.769	-25765.9
229	281	0.184017	195.803	-25714.2
230	282	0.189118	195.839	-25660.9
231	282	0.196779	195.878	-25605.4
232	284	0.201894	195.919	-25548.1
233	288	0.209575	195.962	-25487.7
234	288	0.214702	196.009	-25425.9
235	288	0.222403	196.058	-25361.8
236	288	0.227545	196.11	-25296.3
237	289	0.235269	196.165	-25228.3
238	290	0.240426	196.223	-25158.6
239	290	0.248174	196.285	-25086.6
240	290	0.253347	196.349	-25013.1
241	290	0.26112	196.417	-24937.4
242	293	0.266311	196.488	-24859.4
243	294	0.27411	196.563	-24778.8
244	296	0.279319	196.641	-24696.1
245	296	0.287147	196.723	-24611.1
246	297	0.292375	196.809	-24524.3
247	299	0.300232	196.899	-24434.5
248	300	0.305481	196.992	-24342.9
249	300	0.31337	197.091	-24248.9
250	300	0.318639	197.192	-24153.3
251	301	0.326561	197.299	-24055
252	303	0.331854	197.409	-23954.4
253	304	0.33981	197.524	-23851.1
254	308	0.345126	197.644	-23744.8
255	308	0.353118	197.768	-23636.1
256	309	0.358459	197.897	-23525.3
257	310	0.36649	198.031	-23411.7
258	311	0.371856	198.169	-23296
259	312	0.379927	198.314	-23177.5
260	314	0.385321	198.462	-23056.5
261	316	0.393433	198.617	-22932.2
262	318	0.398855	198.776	-22805.3
263	320	0.40701	198.942	-22675.1
264	320	0.412463	199.112	-22543.1
265	320	0.420664	199.289	-22408.5
266	320	0.426148	199.47	-22272.1
267	324	0.434397	199.659	-22131.4
268	326	0.439913	199.853	-21988
269	326	0.448213	200.053	-21841.9
270	327	0.453763	200.259	-21693.5
271	328	0.462114	200.473	-21541.9
272	329	0.467699	200.692	-21388
273	329	0.476105	200.918	-21231.4
274	330	0.481728	201.15	-21072.4
275	330	0.490189	201.391	-20910.7

276	330	0.49585	201.637	-20747
277	330	0.504372	201.891	-20580.6
278	330	0.510074	202.151	-20412.3
279	330	0.518658	202.42	-20241.1
280	330.4	0.524401	202.695	-20067.8
281	332	0.533048	202.979	-19890.9
282	332	0.538836	203.27	-19712
283	334	0.547551	203.569	-19529.1
284	336	0.553384	203.876	-19343.2
285	338	0.56217	204.192	-19153.1
286	340	0.568052	204.514	-18960
287	340	0.576911	204.847	-18763.9
288	340	0.582841	205.187	-18565.7
289	340	0.591776	205.537	-18364.5
290	340	0.597761	205.894	-18161.3
291	340	0.606775	206.263	-17954.9
292	340	0.612813	206.638	-17746.6
293	342	0.621911	207.025	-17533.9
294	342	0.628006	207.419	-17319.1
295	344	0.637192	207.825	-17099.9
296	344	0.643345	208.239	-16878.6
297	346	0.652622	208.665	-16652.8
298	347	0.658838	209.099	-16424.2
299	348	0.668209	209.546	-16191.7
300	350	0.67449	210.001	-15955.6
301	350	0.68396	210.468	-15716.2
302	350	0.690309	210.945	-15474.6
303	353	0.699883	211.435	-15227.5
304	356	0.706302	211.934	-14976.1
305	358	0.715986	212.446	-14719.8
306	360	0.722479	212.968	-14459.7
307	360	0.732275	213.504	-14196.1
308	360	0.738846	214.05	-13930.1
309	360	0.748762	214.611	-13660.5
310	360	0.755415	215.182	-13388.6
311	360	0.765456	215.768	-13113
312	360	0.772193	216.364	-12835
313	362	0.782366	216.976	-12551.8
314	363	0.789191	217.599	-12265.3
315	364	0.7995	218.238	-11974.3
316	364	0.806422	218.888	-11680.8
317	365	0.816874	219.556	-11382.6
318	365	0.823893	220.234	-11081.9
319	366	0.834498	220.931	-10776.5
320	367	0.841621	221.639	-10467.6
321	367	0.852385	222.366	-10154.8
322	368	0.859618	223.105	-9838.42
323	368	0.87055	223.862	-9518.05
324	370	0.877897	224.633	-9193.23
325	370	0.889006	225.423	-8864.3
326	370	0.896473	226.227	-8532.6
327	370	0.907769	227.051	-8196.73
328	371	0.915365	227.889	-7857.13
329	373	0.926859	228.748	-7511.41
330	374	0.93459	229.622	-7161.87
331	375	0.946291	230.517	-6807.02
332	376	0.954165	231.428	-6448.25

333	377	0.966088	232.361	-6084.03
334	380	0.974114	233.31	-5713.87
335	380	0.986272	234.282	-5339.09
336	380	0.994457	235.271	-4961.19
337	381	1.00687	236.285	-4577.58
338	382	1.01522	237.316	-4189.76
339	383	1.02789	238.372	-3796.08
340	384	1.03643	239.447	-3398.09
341	384	1.04939	240.548	-2995.13
342	384	1.05812	241.667	-2588.81
343	384	1.07138	242.815	-2177.4
344	384	1.08032	243.982	-1762.55
345	388	1.0939	245.179	-1338.12
346	389	1.10306	246.396	-909.032
347	390	1.11699	247.643	-473.407
348	390	1.12639	248.912	-34.1142
349	391	1.14069	250.213	411.895
350	393	1.15035	251.537	863.982
351	393	1.16505	252.894	1321.85
352	393	1.17499	254.275	1783.62
353	394	1.19012	255.691	2252.52
354	395	1.20036	257.132	2726.66
355	395.4	1.21596	258.61	3207.46
356	397	1.22653	260.115	3694.39
357	398	1.24264	261.659	4188.96
358	400	1.25357	263.23	4690.39
359	400	1.27024	264.844	5198.48
360	404	1.28155	266.486	5716.23
361	405	1.29884	268.173	6242.26
362	405	1.31058	269.891	6773.04
363	406	1.32854	271.656	7312.43
364	406	1.34075	273.453	7856.77
365	409	1.35946	275.302	8412.79
366	412	1.3722	277.185	8978.14
367	414	1.39175	279.121	9554.32
368	415	1.40507	281.096	10137.4
369	422	1.42554	283.128	10739
370	424	1.43953	285.2	11349.4
371	430	1.46106	287.335	11977.6
372	437	1.47579	289.513	12622.5
373	440	1.49852	291.758	13281.9
374	441	1.5141	294.051	13949.6
375	450	1.5382	296.417	14641.8
376	473	1.55477	298.834	15377.2
377	480	1.58047	301.332	16135.8
378	514	1.59819	303.886	16957.3
379	514	1.62576	306.529	17792.9
380	517	1.64485	309.235	18643.3
381	517	1.67466	312.039	19509.1
382	525	1.6954	314.914	20399.2
383	527	1.72793	317.9	21309.8
384	532	1.75069	320.964	22241.2
385	542	1.78661	324.156	23209.5
386	549	1.81191	327.439	24204.3
387	550	1.85218	330.87	25223
388	552	1.88079	334.407	26261.2
389	555	1.92684	338.12	27330.6

390	576	1.95996	341.962	28459.5
391	581	2.01409	346.018	29629.7
392	581	2.05375	350.236	30822.9
393	585	2.12007	354.731	32063.2
394	585	2.17009	359.44	33332.7
395	590	2.25713	364.535	34664.4
396	590	2.32634	369.947	36036.9
397	619	2.45727	375.985	37558
398	631	2.57583	382.62	39183.3
399	637	2.87815	390.903	41016.7

Data Set Standard Deviation = 106.585

Numerator = 1.68237e+009

Denominator = 1.76743e+009

W Statistic = 0.951873 = 1.68237e+009 / 1.76743e+009

5% Critical value of 0.976 exceeds 0.951873

Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.951873

Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Alkalinity

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 48.2959

Overall Std Dev = 52.7941

Overall Total = 19270.1

SS Groups = 251138

SS Total = 1.10931e+006

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	251138	12	20928.1	9.4133
Error (within groups)	858176	386	2223.25	
Totals	1.10931e+006	398		

95% F-Statistic = 1.75

9.4133 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	84.8889
5/9/2022	78.8889
5/31/2022	2.88889
6/20/2022	20.1111
7/18/2022	38.1111
8/18/2022	0.111111
9/13/2022	38.1111
10/3/2022	35.1111
5/3/2023	35.1111

Group: MW93-1

Sample	Residual
12/15/1994	1.94177
12/14/1995	34.9418
3/6/1996	15.0582
4/25/1996	5.94177
10/2/1996	3.94177
12/10/1996	22.9418
3/11/1997	18.9418
4/15/1997	38.9418
8/14/1997	31.0582
12/4/1997	11.0582
3/31/1998	8.94177
6/23/1998	21.0582
8/11/1998	20.0582
12/8/1998	7.05823
3/9/1999	28.9418
6/8/1999	26.0582
8/19/1999	31.0582
12/14/1999	8.94177
3/7/2000	15.0582

6/23/2000	4.94177
12/12/2000	81.0582
3/27/2001	6.94177
6/28/2001	28.9418
9/10/2001	42.9418
12/18/2001	42.9418
3/19/2002	38.9418
6/26/2002	18.9418
9/18/2002	15.9418
12/11/2002	24.9418
3/13/2003	48.9418
6/25/2003	32.9418
9/26/2003	48.9418
12/10/2003	44.9418
3/9/2004	39.9418
6/24/2004	20.9418
9/15/2004	36.9418
12/15/2004	41.9418
3/16/2005	28.9418
6/15/2005	38.9418
9/21/2005	21.9418
12/21/2005	28.9418
3/15/2006	48.9418
6/21/2006	54.9418
12/20/2006	68.9418
6/12/2007	58.9418
12/17/2007	38.9418
6/11/2008	1.05823
12/3/2008	24.9418
6/17/2009	18.9418
12/9/2009	1.05823
6/17/2010	11.0582
12/22/2010	1.05823
6/29/2011	2.94177
12/7/2011	1.05823
6/6/2012	15.0582
12/12/2012	38.9418
6/19/2013	8.94177
12/11/2013	10.9418
6/11/2014	26.9418
12/3/2014	0.941772
6/17/2015	11.0582
12/1/2015	14.0582
6/22/2016	21.0582
12/20/2016	26.4582
6/6/2017	29.0582
11/7/2017	25.0582
2/27/2018	15.0582
9/27/2018	8.94177
5/7/2019	181.058
11/21/2019	111.058
6/25/2020	173.058
11/17/2020	104.058
5/26/2021	72.0582
11/17/2021	24.0582
4/8/2022	37.0582
4/8/2022	37.0582

10/4/2022	36.0582
10/4/2022	36.0582
5/4/2023	5.05823

Group: MW93-2

Date	Residual
12/15/1994	76.861
12/14/1995	55.861
3/6/1996	61.139
4/25/1996	93.139
10/2/1996	93.139
12/10/1996	23.139
3/11/1997	36.861
4/15/1997	26.861
8/14/1997	6.86098
12/4/1997	46.861
3/31/1998	62.861
6/23/1998	3.13902
8/11/1998	38.861
12/8/1998	46.861
3/9/1999	22.861
6/8/1999	26.861
8/19/1999	20.861
12/14/1999	6.86098
3/7/2000	2.86098
6/23/2000	17.139
12/12/2000	26.861
3/27/2001	31.861
6/28/2001	6.86098
9/10/2001	38.861
12/18/2001	11.861
3/19/2002	16.139
6/26/2002	43.139
9/18/2002	9.13902
12/11/2002	2.13902
3/13/2003	6.86098
6/25/2003	0.860976
9/26/2003	3.13902
12/10/2003	46.861
3/9/2004	33.139
6/24/2004	82.139
9/15/2004	25.139
12/15/2004	41.139
3/16/2005	6.86098
6/15/2005	0.860976
9/21/2005	18.861
12/21/2005	14.861
3/15/2006	3.13902
6/21/2006	43.139
12/20/2006	109.139
2/21/2007	93.139
6/12/2007	65.139
12/17/2007	36.861
6/11/2008	6.86098
12/3/2008	33.139
6/17/2009	3.13902
12/9/2009	10.861
6/17/2010	5.13902

12/22/2010	6.86098
6/29/2011	19.139
12/7/2011	41.139
6/6/2012	9.13902
12/12/2012	1.13902
6/19/2013	117.139
12/11/2013	81.139
6/11/2014	95.139
12/3/2014	49.139
6/17/2015	137.139
12/1/2015	20.861
6/22/2016	70.861
12/20/2016	84.661
6/6/2017	0.860976
11/7/2017	183.139
2/27/2018	35.139
9/27/2018	23.139
5/7/2019	113.139
11/21/2019	113.139
6/25/2020	14.139
11/16/2020	19.139
5/26/2021	45.861
11/17/2021	138.861
4/8/2022	102.861
4/8/2022	102.861
10/4/2022	163.461
10/4/2022	163.061
10/4/2022	163.061
10/4/2022	163.461
5/4/2023	21.139

Group: MW93-3

Date	Residual
12/15/1994	69.9544
12/14/1995	103.954
3/6/1996	83.9544
4/25/1996	81.9544
10/2/1996	69.9544
12/10/1996	84.9544
3/11/1997	99.9544
4/15/1997	109.954
8/14/1997	54.9544
12/4/1997	169.954
3/31/1998	69.9544
6/23/1998	84.9544
8/11/1998	85.9544
12/8/1998	95.9544
3/9/1999	75.9544
6/8/1999	73.9544
8/19/1999	49.9544
12/14/1999	9.95443
3/7/2000	45.9544
6/23/2000	65.9544
12/12/2000	10.0456
3/27/2001	55.9544
6/28/2001	54.9544
9/10/2001	22.0456
12/18/2001	79.9544

3/19/2002	54.9544
6/26/2002	59.9544
9/18/2002	41.9544
12/11/2002	41.9544
3/13/2003	62.9544
6/25/2003	57.9544
9/26/2003	65.9544
12/10/2003	38.9544
3/9/2004	25.9544
6/24/2004	0.95443
9/15/2004	45.9544
12/15/2004	55.9544
3/16/2005	19.9544
6/15/2005	41.9544
9/21/2005	45.9544
12/21/2005	63.9544
3/15/2006	82.9544
6/21/2006	56.9544
12/20/2006	59.9544
6/12/2007	29.9544
12/17/2007	19.9544
6/11/2008	9.95443
12/3/2008	83.9544
6/17/2009	69.9544
12/9/2009	95.9544
6/17/2010	13.9544
12/22/2010	79.9544
6/29/2011	53.9544
12/7/2011	65.9544
6/6/2012	21.9544
12/12/2012	83.9544
6/19/2013	6.04557
12/11/2013	47.9544
6/11/2014	28.0456
12/3/2014	47.9544
6/17/2015	78.0456
5/25/2016	130.046
6/22/2016	20.0456
12/20/2016	20.4456
6/6/2017	5.95443
11/7/2017	99.0456
2/27/2018	58.0456
9/27/2018	65.0456
5/7/2019	275.046
11/21/2019	215.046
6/25/2020	309.046
11/16/2020	239.046
5/26/2021	266.046
11/17/2021	217.046
4/8/2022	280.046
4/8/2022	280.046
10/4/2022	271.046
10/4/2022	271.046
5/3/2023	275.046

Group: MW03-1

Date	Residual
6/24/2004	45.1579

9/15/2004	56.1579
12/15/2004	20.1579
3/16/2005	3.84211
6/15/2005	88.1579
9/21/2005	16.1579
12/20/2006	40.1579
6/12/2007	36.1579
12/17/2007	26.1579
6/11/2008	36.1579
12/3/2008	42.1579
6/17/2009	40.1579
12/9/2009	52.1579
6/17/2010	68.1579
12/22/2010	52.1579
6/29/2011	46.1579
12/7/2011	58.1579
6/6/2012	52.1579
6/19/2013	19.8421
12/11/2013	48.1579
6/11/2014	58.1579
12/3/2014	30.1579
6/17/2015	29.8421
12/1/2015	13.8421
6/22/2016	33.8421
12/20/2016	47.7579
6/6/2017	107.842
11/7/2017	53.1579
2/27/2018	91.8421
5/7/2019	108.842
11/21/2019	108.842
6/25/2020	37.8421
11/17/2020	70.1579
5/26/2021	133.642
11/16/2021	60.8421
4/8/2022	123.042
4/8/2022	123.042
5/3/2023	86.2421

Group: MW03-2

Date	Residual
6/24/2004	23.4356
9/15/2004	11.5644
12/15/2004	10.4356
3/16/2005	8.43556
6/15/2005	40.4356
9/21/2005	12.4356
12/21/2005	18.4356
3/15/2006	8.43556
6/21/2006	16.4356
12/20/2006	8.43556
6/12/2007	16.4356
12/17/2007	11.5644
6/11/2008	11.5644
12/3/2008	1.56444
6/17/2009	11.5644
12/9/2009	3.56444
6/17/2010	4.43556
12/22/2010	18.4356

6/29/2011	12.4356
12/7/2011	24.4356
6/6/2012	18.4356
12/12/2012	30.4356
6/19/2013	20.4356
12/11/2013	18.4356
6/11/2014	119.564
12/3/2014	135.564
6/17/2015	8.43556
12/1/2015	2.43556
6/22/2016	7.56444
12/20/2016	12.1644
6/6/2017	19.5644
11/7/2017	19.5644
2/27/2018	15.5644
9/27/2018	26.5644
5/7/2019	8.43556
11/21/2019	8.43556
6/25/2020	11.4356
11/17/2020	2.56444
5/26/2021	8.43556
11/17/2021	3.56444
4/8/2022	18.4356
4/8/2022	18.4356
10/3/2022	7.43556
10/3/2022	7.43556
5/3/2023	3.43556

Group: MW22-02

Date	Residual
4/7/2022	33
5/9/2022	57
5/31/2022	85
6/20/2022	98
7/19/2022	50
8/18/2022	104
9/13/2022	71
10/3/2022	61
5/4/2023	127

Group: MW22-03

Date	Residual
4/7/2022	23.6667
5/9/2022	23.6667
5/31/2022	5.33333
6/20/2022	5.33333
7/19/2022	9.33333
8/18/2022	31.3333
9/13/2022	13.6667
10/4/2022	39.6667
5/4/2023	49.3333

Group: MW22-04

Date	Residual
4/7/2022	74.48
5/9/2022	211.32
5/31/2022	4.32
6/20/2022	51.32
6/20/2022	37.32
7/18/2022	47.68

8/18/2022	55.68
9/13/2022	73.58
10/4/2022	82.18
5/4/2023	29.32

Group: MW22-05

Date	Residual
4/7/2022	54.7
5/9/2022	112.7
5/31/2022	117.7
6/20/2022	70.7
7/18/2022	30.7
8/18/2022	106.3
9/13/2022	98.3
10/3/2022	110.3
5/3/2023	44.3
5/3/2023	27.3

Group: MW22-06

Date	Residual
4/8/2022	2.6
5/9/2022	0.6
5/31/2022	4.4
6/20/2022	9.4
7/18/2022	11.4
8/18/2022	19.6
8/18/2022	14.6
9/13/2022	4.4
10/3/2022	7.4
5/3/2023	0.4

Group: MW22-07

Date	Residual
4/8/2022	0.666667
5/9/2022	11.6667
5/31/2022	2.66667
6/20/2022	15.3333
7/19/2022	18.3333
8/18/2022	21.6667
9/13/2022	4.66667
10/4/2022	6.66667
5/4/2023	14.3333

Group: MW22-08

Date	Residual
4/8/2022	28.2
5/9/2022	13.2
5/31/2022	4.8
5/31/2022	3.2
6/20/2022	11.8
7/18/2022	15.8
8/18/2022	15.2
9/13/2022	17.8
10/4/2022	15.8
5/3/2023	6.2

Concentrations (ppb)

Parameter: Alkalinity

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 389

Total Non-Detect: 0

Percent Non-Detects: 0%

Total Background Measurements: 86

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	77	0 (0%)	12/15/1994	367	367
			12/14/1995	334	334
			3/6/1996	384	384
			4/25/1996	363	363
			10/2/1996	365	365
			12/10/1996	346	346
			3/11/1997	350	350
			4/15/1997	330	330
			8/14/1997	400	400
			12/4/1997	380	380
			3/31/1998	360	360
			6/23/1998	390	390
			8/11/1998	389	389
			12/8/1998	376	376
			3/9/1999	340	340
			6/8/1999	395	395
			8/19/1999	400	400
			12/14/1999	360	360
			3/7/2000	384	384
			6/23/2000	364	364
			12/12/2000	450	450
			3/27/2001	362	362
			6/28/2001	340	340
			9/10/2001	326	326
			12/18/2001	326	326
			3/19/2002	330	330
			6/26/2002	350	350
			9/18/2002	353	353
			12/11/2002	344	344
			3/13/2003	320	320
			6/25/2003	336	336
			9/26/2003	320	320
			12/10/2003	324	324
			3/9/2004	329	329
			6/24/2004	348	348
			9/15/2004	332	332
			12/15/2004	327	327
			3/16/2005	340	340
			6/15/2005	330	330
			9/21/2005	347	347
			12/21/2005	340	340
			3/15/2006	320	320
			6/21/2006	314	314
			12/20/2006	300	300
			6/12/2007	310	310

12/17/2007	330	330
6/11/2008	370	370
12/3/2008	344	344
6/17/2009	350	350
12/9/2009	370	370
6/17/2010	380	380
12/22/2010	370	370
6/29/2011	366	366
12/7/2011	370	370
6/6/2012	384	384
12/12/2012	330	330
6/19/2013	360	360
12/11/2013	358	358
6/11/2014	342	342
12/3/2014	368	368
6/17/2015	380	380
12/1/2015	383	383
6/22/2016	390	390
12/20/2016	395.4	395.4
6/6/2017	398	398
11/7/2017	394	394
2/27/2018	384	384
9/27/2018	360	360
5/7/2019	550	550
11/21/2019	480	480
6/25/2020	542	542
11/17/2020	473	473
5/26/2021	441	441
11/17/2021	393	393
4/8/2022	406	406
10/4/2022	405	405
5/4/2023	374	374

MW22-01	9	0 (0%)	4/7/2022	637	637
			5/9/2022	631	631
			5/31/2022	555	555
			6/20/2022	532	532
			7/18/2022	514	514
			8/18/2022	552	552
			9/13/2022	514	514
			10/3/2022	517	517
			5/3/2023	517	517

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	79	0 (0%)	12/15/1994	170	170
			12/14/1995	191	191
			3/6/1996	308	308
			4/25/1996	340	340
			10/2/1996	340	340
			12/10/1996	270	270
			3/11/1997	210	210
			4/15/1997	220	220
			8/14/1997	240	240
			12/4/1997	200	200

3/31/1998	184	184
6/23/1998	250	250
8/11/1998	208	208
12/8/1998	200	200
3/9/1999	224	224
6/8/1999	220	220
8/19/1999	226	226
12/14/1999	240	240
3/7/2000	244	244
6/23/2000	264	264
12/12/2000	220	220
3/27/2001	215	215
6/28/2001	240	240
9/10/2001	208	208
12/18/2001	235	235
3/19/2002	263	263
6/26/2002	290	290
9/18/2002	256	256
12/11/2002	249	249
3/13/2003	240	240
6/25/2003	246	246
9/26/2003	250	250
12/10/2003	200	200
3/9/2004	280	280
6/24/2004	329	329
9/15/2004	272	272
12/15/2004	288	288
3/16/2005	240	240
6/15/2005	246	246
9/21/2005	228	228
12/21/2005	232	232
3/15/2006	250	250
6/21/2006	290	290
12/20/2006	356	356
2/21/2007	340	340
6/12/2007	312	312
12/17/2007	210	210
6/11/2008	240	240
12/3/2008	280	280
6/17/2009	250	250
12/9/2009	236	236
6/17/2010	252	252
12/22/2010	240	240
6/29/2011	266	266
12/7/2011	288	288
6/6/2012	256	256
12/12/2012	248	248
6/19/2013	364	364
12/11/2013	328	328
6/11/2014	342	342
12/3/2014	296	296
6/17/2015	384	384
12/1/2015	226	226
6/22/2016	176	176
12/20/2016	162.2	162.2
6/6/2017	246	246
11/7/2017	430	430

			2/27/2018	282	282
			9/27/2018	270	270
			5/7/2019	360	360
			11/21/2019	360	360
			6/25/2020	261	261
			11/16/2020	266	266
			5/26/2021	201	201
			11/17/2021	108	108
			4/8/2022	144	144
			10/4/2022	83.4	83.4
			10/4/2022	83.8	83.8
			5/4/2023	268	268
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MW93-3	77	0 (0%)	12/15/1994	240	240
			12/14/1995	206	206
			3/6/1996	226	226
			4/25/1996	228	228
			10/2/1996	240	240
			12/10/1996	225	225
			3/11/1997	210	210
			4/15/1997	200	200
			8/14/1997	255	255
			12/4/1997	140	140
			3/31/1998	240	240
			6/23/1998	225	225
			8/11/1998	224	224
			12/8/1998	214	214
			3/9/1999	234	234
			6/8/1999	236	236
			8/19/1999	260	260
			12/14/1999	300	300
			3/7/2000	264	264
			6/23/2000	244	244
			12/12/2000	320	320
			3/27/2001	254	254
			6/28/2001	255	255
			9/10/2001	332	332
			12/18/2001	230	230
			3/19/2002	255	255
			6/26/2002	250	250
			9/18/2002	268	268
			12/11/2002	268	268
			3/13/2003	247	247
			6/25/2003	252	252
			9/26/2003	244	244
			12/10/2003	271	271
			3/9/2004	284	284
			6/24/2004	309	309
			9/15/2004	264	264
			12/15/2004	254	254
			3/16/2005	290	290
			6/15/2005	268	268
			9/21/2005	264	264
			12/21/2005	246	246
			3/15/2006	227	227
			6/21/2006	253	253
			12/20/2006	250	250

6/12/2007	280	280
12/17/2007	290	290
6/11/2008	300	300
12/3/2008	226	226
6/17/2009	240	240
12/9/2009	214	214
6/17/2010	296	296
12/22/2010	230	230
6/29/2011	256	256
12/7/2011	244	244
6/6/2012	288	288
12/12/2012	226	226
6/19/2013	316	316
12/11/2013	262	262
6/11/2014	338	338
12/3/2014	262	262
6/17/2015	388	388
5/25/2016	440	440
6/22/2016	330	330
12/20/2016	330.4	330.4
6/6/2017	304	304
11/7/2017	409	409
2/27/2018	368	368
9/27/2018	375	375
5/7/2019	585	585
11/21/2019	525	525
6/25/2020	619	619
11/16/2020	549	549
5/26/2021	576	576
11/17/2021	527	527
4/8/2022	590	590
10/4/2022	581	581
5/3/2023	585	585

MW03-1	37	0 (0%)	6/24/2004	209	209
			9/15/2004	220	220
			12/15/2004	184	184
			3/16/2005	160	160
			6/15/2005	252	252
			9/21/2005	180	180
			12/20/2006	204	204
			6/12/2007	200	200
			12/17/2007	190	190
			6/11/2008	200	200
			12/3/2008	206	206
			6/17/2009	204	204
			12/9/2009	216	216
			6/17/2010	232	232
			12/22/2010	216	216
			6/29/2011	210	210
			12/7/2011	222	222
			6/6/2012	216	216
			6/19/2013	144	144
			12/11/2013	212	212
			6/11/2014	222	222
			12/3/2014	194	194
			6/17/2015	134	134

12/1/2015	150	150
6/22/2016	130	130
12/20/2016	211.6	211.6
6/6/2017	56	56
11/7/2017	217	217
2/27/2018	72	72
5/7/2019	55	55
11/21/2019	55	55
6/25/2020	126	126
11/17/2020	234	234
5/26/2021	30.2	30.2
11/16/2021	103	103
4/8/2022	40.8	40.8
5/3/2023	77.6	77.6

MW03-2	43	0 (0%)	6/24/2004	235	235
			9/15/2004	200	200
			12/15/2004	222	222
			3/16/2005	220	220
			6/15/2005	252	252
			9/21/2005	224	224
			12/21/2005	230	230
			3/15/2006	220	220
			6/21/2006	228	228
			12/20/2006	220	220
			6/12/2007	228	228
			12/17/2007	200	200
			6/11/2008	200	200
			12/3/2008	210	210
			6/17/2009	200	200
			12/9/2009	208	208
			6/17/2010	216	216
			12/22/2010	230	230
			6/29/2011	224	224
			12/7/2011	236	236
			6/6/2012	230	230
			12/12/2012	242	242
			6/19/2013	232	232
			12/11/2013	230	230
			6/11/2014	92	92
			12/3/2014	76	76
			6/17/2015	220	220
			12/1/2015	214	214
			6/22/2016	204	204
			12/20/2016	199.4	199.4
			6/6/2017	192	192
			11/7/2017	192	192
			2/27/2018	196	196
			9/27/2018	185	185
			5/7/2019	220	220
			11/21/2019	220	220
			6/25/2020	223	223
			11/17/2020	209	209
			5/26/2021	220	220
			11/17/2021	208	208
			4/8/2022	230	230
			10/3/2022	219	219

			5/3/2023	215	215
MW22-02	9	0 (0%)	4/7/2022	277	277
			5/9/2022	367	367
			5/31/2022	225	225
			6/20/2022	212	212
			7/19/2022	360	360
			8/18/2022	414	414
			9/13/2022	381	381
			10/3/2022	371	371
			5/4/2023	183	183
MW22-03	9	0 (0%)	4/7/2022	216	216
			5/9/2022	216	216
			5/31/2022	245	245
			6/20/2022	245	245
			7/19/2022	249	249
			8/18/2022	271	271
			9/13/2022	226	226
			10/4/2022	200	200
			5/4/2023	289	289
MW22-04	10	0 (0%)	4/7/2022	96.2	96.2
			5/9/2022	382	382
			5/31/2022	175	175
			6/20/2022	222	222
			6/20/2022	208	208
			7/18/2022	123	123
			8/18/2022	115	115
			9/13/2022	97.1	97.1
			10/4/2022	88.5	88.5
			5/4/2023	200	200
MW22-05	10	0 (0%)	4/7/2022	212	212
			5/9/2022	154	154
			5/31/2022	149	149
			6/20/2022	196	196
			7/18/2022	236	236
			8/18/2022	373	373
			9/13/2022	365	365
			10/3/2022	377	377
			5/3/2023	311	311
			5/3/2023	294	294
MW22-06	10	0 (0%)	4/8/2022	276	276
			5/9/2022	274	274
			5/31/2022	269	269
			6/20/2022	264	264
			7/18/2022	262	262
			8/18/2022	293	293
			8/18/2022	288	288
			9/13/2022	269	269
			10/3/2022	266	266
			5/3/2023	273	273
MW22-07	9	0 (0%)	4/8/2022	297	297
			5/9/2022	308	308

5/31/2022	299	299
6/20/2022	281	281
7/19/2022	278	278
8/18/2022	318	318
9/13/2022	301	301
10/4/2022	303	303
5/4/2023	282	282

MW22-08	10	0 (0%)	4/8/2022	437	437
			5/9/2022	422	422
			5/31/2022	404	404
			5/31/2022	412	412
			6/20/2022	397	397
			7/18/2022	393	393
			8/18/2022	424	424
			9/13/2022	391	391
			10/4/2022	393	393
			5/3/2023	415	415

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Concentrations (ppb)

Parameter: Antimony

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 153

Total Non-Detect: 153

Percent Non-Detects: 100%

Total Background Measurements: 25

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.005	ND<0.005
			11/17/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
5/4/2023	ND<0.005	ND<0.005			
MW22-01	9	9 (100%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
5/3/2023	ND<0.005	ND<0.005			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	15	15 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.002	ND<0.002
			6/25/2020	ND<0.005	ND<0.005
			11/17/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/16/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005

			5/3/2023	ND<0.005	ND<0.005
MW03-2	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.002	ND<0.002
			6/25/2020	ND<0.005	ND<0.005
			11/17/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0	ND<0
			5/3/2023	ND<0.005	ND<0.005
MW93-2	17	17 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.002	ND<0.002
			6/25/2020	ND<0.005	ND<0.005
			11/16/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
MW93-3	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.002	ND<0.002
			6/25/2020	ND<0.005	ND<0.005
			11/16/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0	ND<0
			5/3/2023	ND<0.005	ND<0.005
MW22-02	9	9 (100%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005

			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
MW22-03	9	9 (100%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
MW22-04	9	9 (100%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
MW22-05	10	10 (100%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
MW22-06	9	9 (100%)	4/8/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
MW22-07	9	9 (100%)	4/8/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005

MW22-08	9	9 (100%)	4/8/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Concentrations (ppb)

Parameter: Arsenic

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 279

Total Non-Detect: 139

Percent Non-Detects: 49.8208%

Total Background Measurements: 50

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	41	31 (75.6098%)	6/12/2007	0.0109	0.0109
			12/17/2007	ND<0.005	ND<0.005
			6/11/2008	ND<0.005	ND<0.005
			12/3/2008	ND<0.005	ND<0.005
			6/17/2009	ND<0.005	ND<0.005
			12/9/2009	ND<0.005	ND<0.005
			6/17/2010	ND<0.005	ND<0.005
			12/22/2010	ND<0.005	ND<0.005
			6/29/2011	ND<0.005	ND<0.005
			12/7/2011	ND<0.005	ND<0.005
			6/6/2012	ND<0.005	ND<0.005
			12/12/2012	0.0068	0.0068
			6/19/2013	ND<0.005	ND<0.005
			12/11/2013	ND<0.005	ND<0.005
			6/11/2014	ND<0.005	ND<0.005
			12/3/2014	ND<0.005	ND<0.005
			6/17/2015	ND<0.005	ND<0.005
			12/1/2015	ND<0.005	ND<0.005
			6/22/2016	ND<0	ND<0
			12/20/2016	ND<0.0005	ND<0.0005
			6/6/2017	ND<0.005	ND<0.005
			11/7/2017	ND<0.005	ND<0.005
			2/27/2018	0.006	0.006
			5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			9/27/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			5/7/2019	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
6/25/2020	0.000405	0.000405			
11/17/2020	0.000336	0.000336			
5/26/2021	0.000268	0.000268			
11/17/2021	0.000277	0.000277			
4/8/2022	0.000291	0.000291			
10/4/2022	0.000393	0.000393			
5/4/2023	0.00027	0.00027			
MW22-01	9	0 (0%)	4/7/2022	0.000639	0.000639
			5/9/2022	0.000949	0.000949
			5/31/2022	0.000386	0.000386

6/20/2022	0.000436	0.000436
7/18/2022	0.000347	0.000347
8/18/2022	0.000348	0.000348
9/13/2022	0.000382	0.000382
10/3/2022	0.000421	0.000421
5/3/2023	0.00033	0.00033

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	38	29 (76.3158%)	6/12/2007	ND<0.005	ND<0.005
			12/17/2007	ND<0.005	ND<0.005
			6/11/2008	ND<0.005	ND<0.005
			12/3/2008	ND<0.005	ND<0.005
			6/17/2009	ND<0.005	ND<0.005
			12/9/2009	ND<0.005	ND<0.005
			6/17/2010	ND<0.005	ND<0.005
			12/22/2010	ND<0.005	ND<0.005
			6/29/2011	ND<0.005	ND<0.005
			12/7/2011	ND<0.005	ND<0.005
			6/6/2012	ND<0.005	ND<0.005
			6/19/2013	0.008	0.008
			12/11/2013	ND<0.005	ND<0.005
			6/11/2014	ND<0.005	ND<0.005
			12/3/2014	ND<0.005	ND<0.005
			6/17/2015	ND<0.005	ND<0.005
			12/1/2015	ND<0.005	ND<0.005
			6/22/2016	ND<0	ND<0
			12/20/2016	ND<0.0005	ND<0.0005
			6/6/2017	ND<0.005	ND<0.005
			11/7/2017	ND<0.005	ND<0.005
			2/27/2018	ND<0.005	ND<0.005
			5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	0.0445	0.0445
			8/22/2018	0.123	0.123
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			3/26/2019	ND<0.005	ND<0.005
5/7/2019	ND<0.005	ND<0.005			
11/21/2019	ND<0.001	ND<0.001			
6/25/2020	0.000538	0.000538			
11/17/2020	0.000677	0.000677			
5/26/2021	0.000249	0.000249			
11/16/2021	0.00062	0.00062			
4/8/2022	0.000455	0.000455			
5/3/2023	0.000483	0.000483			
MW03-2	41	39 (95.122%)	6/12/2007	ND<0.005	ND<0.005
			12/17/2007	ND<0.005	ND<0.005
			6/11/2008	ND<0.005	ND<0.005
			12/3/2008	ND<0.005	ND<0.005
			6/17/2009	ND<0.005	ND<0.005
			12/9/2009	ND<0.005	ND<0.005
			6/17/2010	ND<0.005	ND<0.005

12/22/2010	ND<0.005	ND<0.005
6/29/2011	ND<0.005	ND<0.005
12/7/2011	ND<0.005	ND<0.005
6/6/2012	ND<0.005	ND<0.005
12/12/2012	ND<0.005	ND<0.005
6/19/2013	ND<0.005	ND<0.005
12/11/2013	ND<0.005	ND<0.005
6/11/2014	ND<0.005	ND<0.005
12/3/2014	ND<0.005	ND<0.005
6/17/2015	ND<0.005	ND<0.005
12/1/2015	ND<0.005	ND<0.005
6/22/2016	ND<0.005	ND<0.005
12/20/2016	ND<0.0005	ND<0.0005
6/6/2017	ND<0.005	ND<0.005
11/7/2017	ND<0.005	ND<0.005
2/27/2018	0.008	0.008
5/24/2018	ND<0.005	ND<0.005
6/19/2018	ND<0.005	ND<0.005
7/19/2018	ND<0.005	ND<0.005
8/22/2018	ND<0.005	ND<0.005
9/19/2018	ND<0.005	ND<0.005
9/27/2018	ND<0.005	ND<0.005
10/18/2018	ND<0.005	ND<0.005
11/20/2018	ND<0.005	ND<0.005
12/20/2018	ND<0.005	ND<0.005
5/7/2019	ND<0.005	ND<0.005
11/21/2019	ND<0.001	ND<0.001
6/25/2020	0.000329	0.000329
11/17/2020	ND<0.001	ND<0.001
5/26/2021	ND<0.001	ND<0.001
11/17/2021	ND<0.001	ND<0.001
4/8/2022	ND<0.001	ND<0.001
10/3/2022	ND<0.001	ND<0.001
5/3/2023	ND<0.001	ND<0.001

MW93-2	42	3 (7.14286%)	6/12/2007	0.0343	0.0343
			12/17/2007	0.0603	0.0603
			6/11/2008	0.051	0.051
			12/3/2008	0.033	0.033
			6/17/2009	0.0525	0.0525
			12/9/2009	0.0635	0.0635
			6/17/2010	0.0179	0.0179
			12/22/2010	0.0215	0.0215
			6/29/2011	0.061	0.061
			12/7/2011	ND<0.005	ND<0.005
			6/6/2012	0.0098	0.0098
			12/12/2012	0.0562	0.0562
			6/19/2013	ND<0.005	ND<0.005
			12/11/2013	0.0353	0.0353
			6/11/2014	0.0197	0.0197
			12/3/2014	0.0274	0.0274
			6/17/2015	ND<0.005	ND<0.005
			12/1/2015	0.03	0.03
			6/22/2016	0.047	0.047
			12/20/2016	0.06	0.06
			6/6/2017	0.038	0.038
			11/7/2017	0.028	0.028

2/27/2018	0.024	0.024
5/24/2018	0.0292	0.0292
6/19/2018	0.0274	0.0274
7/19/2018	0.0367	0.0367
8/22/2018	0.0333	0.0333
9/19/2018	0.0344	0.0344
9/27/2018	0.0389	0.0389
10/18/2018	0.0378	0.0378
11/20/2018	0.0313	0.0313
12/20/2018	0.0285	0.0285
5/7/2019	0.0259	0.0259
11/21/2019	0.0197	0.0197
6/25/2020	0.0176	0.0176
11/16/2020	0.0204	0.0204
5/26/2021	0.0148	0.0148
11/17/2021	0.0266	0.0266
4/8/2022	0.0213	0.0213
10/4/2022	0.0535	0.0535
10/4/2022	0.0556	0.0556
5/4/2023	0.0244	0.0244

MW93-3	41	34 (82.9268%)	6/12/2007	ND<0.005	ND<0.005
			12/17/2007	ND<0.005	ND<0.005
			6/11/2008	ND<0.005	ND<0.005
			12/3/2008	ND<0.005	ND<0.005
			6/17/2009	ND<0.005	ND<0.005
			12/9/2009	ND<0.005	ND<0.005
			6/17/2010	ND<0.005	ND<0.005
			12/22/2010	ND<0.005	ND<0.005
			6/29/2011	ND<0.005	ND<0.005
			12/7/2011	ND<0.005	ND<0.005
			6/6/2012	ND<0.005	ND<0.005
			12/12/2012	ND<0.005	ND<0.005
			6/19/2013	ND<0.005	ND<0.005
			12/11/2013	ND<0.005	ND<0.005
			6/11/2014	ND<0.005	ND<0.005
			12/3/2014	ND<0.005	ND<0.005
			6/17/2015	ND<0.005	ND<0.005
			12/1/2015	ND<0.005	ND<0.005
			6/22/2016	ND<0.005	ND<0.005
			12/20/2016	ND<0.0005	ND<0.0005
			6/6/2017	ND<0.005	ND<0.005
			11/7/2017	ND<0.005	ND<0.005
			2/27/2018	ND<0.005	ND<0.005
			5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			9/27/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			5/7/2019	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	0.000572	0.000572
			11/16/2020	0.00059	0.00059

			5/26/2021	0.000522	0.000522
			11/17/2021	0.00062	0.00062
			4/8/2022	0.000685	0.000685
			10/4/2022	0.000641	0.000641
			5/3/2023	0.000506	0.000506
MW22-05	10	2 (20%)	4/7/2022	0.00115	0.00115
			5/9/2022	0.000327	0.000327
			5/31/2022	0.000227	0.000227
			6/20/2022	0.000324	0.000324
			7/18/2022	0.000234	0.000234
			8/18/2022	0.00022	0.00022
			9/13/2022	0.000266	0.000266
			10/3/2022	0.00028	0.00028
			5/3/2023	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW22-02	9	1 (11.1111%)	4/7/2022	0.000948	0.000948
			5/9/2022	0.00231	0.00231
			5/31/2022	0.00233	0.00233
			6/20/2022	0.00307	0.00307
			7/19/2022	0.00217	0.00217
			8/18/2022	0.00165	0.00165
			9/13/2022	0.00208	0.00208
			10/3/2022	ND<0.01	ND<0.01
			5/4/2023	0.00249	0.00249
MW22-03	9	0 (0%)	4/7/2022	0.00073	0.00073
			5/9/2022	0.00292	0.00292
			5/31/2022	0.00711	0.00711
			6/20/2022	0.0083	0.0083
			7/19/2022	0.00952	0.00952
			8/18/2022	0.0106	0.0106
			9/13/2022	0.00662	0.00662
			10/4/2022	0.00399	0.00399
			5/4/2023	0.00235	0.00235
MW22-04	10	0 (0%)	4/7/2022	0.000632	0.000632
			5/9/2022	0.000787	0.000787
			5/31/2022	0.000355	0.000355
			6/20/2022	0.000569	0.000569
			6/20/2022	0.00044	0.00044
			7/18/2022	0.000399	0.000399
			8/18/2022	0.000352	0.000352
			9/13/2022	0.00068	0.00068
			10/4/2022	0.000606	0.000606
			5/4/2023	0.000395	0.000395
MW22-08	10	0 (0%)	4/8/2022	0.000622	0.000622
			5/9/2022	0.000463	0.000463
			5/31/2022	0.000432	0.000432
			5/31/2022	0.000402	0.000402
			6/20/2022	0.000583	0.000583
			7/18/2022	0.000506	0.000506
			8/18/2022	0.000504	0.000504
			9/13/2022	0.000502	0.000502
			10/4/2022	0.000542	0.000542

			5/3/2023	0.000393	0.000393
MW22-07	9	0 (0%)	4/8/2022	0.000522	0.000522
			5/9/2022	0.000517	0.000517
			5/31/2022	0.000596	0.000596
			6/20/2022	0.000611	0.000611
			7/19/2022	0.000502	0.000502
			8/18/2022	0.000314	0.000314
			9/13/2022	0.00036	0.00036
			10/4/2022	0.000341	0.000341
			5/4/2023	0.000508	0.000508
MW22-06	10	0 (0%)	4/8/2022	0.000247	0.000247
			5/9/2022	0.000381	0.000381
			5/31/2022	0.00028	0.00028
			6/20/2022	0.000435	0.000435
			7/18/2022	0.000317	0.000317
			8/18/2022	0.000344	0.000344
			8/18/2022	0.000269	0.000269
			9/13/2022	0.000288	0.000288
			10/3/2022	0.000357	0.000357
			5/3/2023	0.000455	0.000455

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Arsenic

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 48.7889%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 52

Maximum Background Value = 0.0109

Confidence Level = 86.7%

False Positive Rate = 13.3%

Location	Date	Count	Mean	Significant
MW93-2	5/4/2023	1	0.0244	TRUE
MW93-3	5/3/2023	1	0.000506	FALSE
MW22-05	5/3/2023	2	0.001	FALSE
MW22-03	5/4/2023	1	0.00235	FALSE
MW22-04	5/4/2023	1	0.000395	FALSE
MW22-08	5/3/2023	1	0.000393	FALSE
MW22-07	5/4/2023	1	0.000508	FALSE
MW22-06	5/3/2023	1	0.000455	FALSE
MW03-1	5/3/2023	1	0.000483	FALSE
MW03-2	5/3/2023	1	0.001	FALSE
MW22-02	5/4/2023	1	0.00249	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Arsenic

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 7.31707%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 41

Maximum Baseline Concentration = 0.0635

Confidence Level = 97.6%

False Positive Rate = 2.4%

Baseline Measurements	Date	Value
	6/12/2007	0.0343
	12/17/2007	0.0603
	6/11/2008	0.051
	12/3/2008	0.033
	6/17/2009	0.0525
	12/9/2009	0.0635
	6/17/2010	0.0179
	12/22/2010	0.0215
	6/29/2011	0.061
	12/7/2011	ND<0.005
	6/6/2012	0.0098
	12/12/2012	0.0562
	6/19/2013	ND<0.005
	12/11/2013	0.0353
	6/11/2014	0.0197
	12/3/2014	0.0274
	6/17/2015	ND<0.005
	12/1/2015	0.03
	6/22/2016	0.047
	12/20/2016	0.06
	6/6/2017	0.038
	11/7/2017	0.028
	2/27/2018	0.024
	5/24/2018	0.0292
	6/19/2018	0.0274
	7/19/2018	0.0367
	8/22/2018	0.0333
	9/19/2018	0.0344
	9/27/2018	0.0389
	10/18/2018	0.0378
	11/20/2018	0.0313
	12/20/2018	0.0285
	5/7/2019	0.0259
	11/21/2019	0.0197
	6/25/2020	0.0176
	11/16/2020	0.0204
	5/26/2021	0.0148
	11/17/2021	0.0266
	4/8/2022	0.0213
	10/4/2022	0.0535
	10/4/2022	0.0556

Date	Count	Mean	Significant
5/4/2023	1	0.0244	FALSE

Shapiro-Francia Test of Normality

Parameter: Arsenic

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 289

i	x(i)	m(i)	sum(m²)	sum(mx)
1	0	-2.74777	7.55021	0
2	0	-2.51213	13.861	0
3	0.00022	-2.32634	19.2729	-0.000511795
4	0.000227	-2.22621	24.2289	-0.00101714
5	0.000234	-2.12007	28.7236	-0.00151324
6	0.000247	-2.05375	32.9415	-0.00202052
7	0.000249	-1.97737	36.8515	-0.00251288
8	0.000266	-1.92684	40.5642	-0.00302542
9	0.000268	-1.86629	44.0472	-0.00352559
10	0.000269	-1.82501	47.3778	-0.00401651
11	0.00027	-1.78661	50.5698	-0.0044989
12	0.000277	-1.7392	53.5946	-0.00498066
13	0.00028	-1.70604	56.5052	-0.00545835
14	0.00028	-1.66456	59.276	-0.00592443
15	0.000288	-1.63524	61.95	-0.00639537
16	0.000291	-1.59819	64.5042	-0.00686045
17	0.000291	-1.57179	66.9747	-0.00731784
18	0.000314	-1.5382	69.3408	-0.00780083
19	0.000317	-1.5141	71.6333	-0.0082808
20	0.000324	-1.49085	73.8559	-0.00876384
21	0.000327	-1.46106	75.9906	-0.00924161
22	0.000329	-1.43953	78.0629	-0.00971521
23	0.00033	-1.41183	80.0561	-0.0101811
24	0.000336	-1.39175	81.9931	-0.0106487
25	0.000341	-1.36581	83.8585	-0.0111145
26	0.000344	-1.34694	85.6728	-0.0115778
27	0.000347	-1.32251	87.4218	-0.0120367
28	0.000348	-1.30469	89.124	-0.0124908
29	0.000352	-1.28155	90.7664	-0.0129419
30	0.000355	-1.26464	92.3657	-0.0133908
31	0.000357	-1.24809	93.9234	-0.0138364
32	0.00036	-1.22653	95.4278	-0.0142779
33	0.000381	-1.21073	96.8936	-0.0147392
34	0.000382	-1.19012	98.31	-0.0151939
35	0.000386	-1.17499	99.6906	-0.0156474
36	0.000393	-1.15522	101.025	-0.0161014
37	0.000393	-1.14069	102.326	-0.0165497
38	0.000393	-1.12168	103.584	-0.0169905
39	0.000395	-1.10768	104.811	-0.017428
40	0.000399	-1.0939	106.008	-0.0178645
41	0.000402	-1.07584	107.165	-0.018297
42	0.000405	-1.06252	108.294	-0.0187273
43	0.000421	-1.04505	109.387	-0.0191673
44	0.000432	-1.03215	110.452	-0.0196132
45	0.000435	-1.01522	111.483	-0.0200548
46	0.000436	-1.00271	112.488	-0.020492
47	0.00044	-0.986272	113.461	-0.0209259

48	0.000455	-0.974114	114.41	-0.0213692
49	0.000455	-0.9621	115.335	-0.0218069
50	0.000455	-0.946291	116.231	-0.0222375
51	0.000463	-0.93459	117.104	-0.0226702
52	0.000483	-0.919183	117.949	-0.0231142
53	0.0005	-0.907769	118.773	-0.023568
54	0.0005	-0.892733	119.57	-0.0240144
55	0.0005	-0.881587	120.347	-0.0244552
56	0.0005	-0.866894	121.099	-0.0248886
57	0.000502	-0.855996	121.832	-0.0253184
58	0.000502	-0.841621	122.54	-0.0257408
59	0.000504	-0.830953	123.23	-0.0261597
60	0.000506	-0.820379	123.903	-0.0265748
61	0.000506	-0.806422	124.554	-0.0269828
62	0.000508	-0.796056	125.187	-0.0273872
63	0.000517	-0.782366	125.799	-0.0277917
64	0.000522	-0.772193	126.396	-0.0281948
65	0.000522	-0.758753	126.971	-0.0285908
66	0.000538	-0.748762	127.532	-0.0289937
67	0.000542	-0.735557	128.073	-0.0293924
68	0.000569	-0.725736	128.6	-0.0298053
69	0.000572	-0.715986	129.112	-0.0302148
70	0.000583	-0.703089	129.607	-0.0306247
71	0.00059	-0.693493	130.088	-0.0310339
72	0.000596	-0.680797	130.551	-0.0314397
73	0.000606	-0.671346	131.002	-0.0318465
74	0.000611	-0.658838	131.436	-0.032249
75	0.00062	-0.649522	131.858	-0.0326517
76	0.00062	-0.637192	132.264	-0.0330468
77	0.000622	-0.628006	132.658	-0.0334374
78	0.000632	-0.618872	133.041	-0.0338286
79	0.000639	-0.606775	133.409	-0.0342163
80	0.000641	-0.597761	133.767	-0.0345994
81	0.000641	-0.585815	134.11	-0.034975
82	0.000677	-0.576911	134.443	-0.0353655
83	0.00068	-0.565108	134.762	-0.0357498
84	0.000685	-0.556308	135.072	-0.0361309
85	0.000685	-0.544642	135.368	-0.0365039
86	0.00073	-0.53594	135.655	-0.0368952
87	0.000787	-0.524401	135.93	-0.0373079
88	0.000948	-0.515791	136.197	-0.0377969
89	0.000949	-0.507221	136.454	-0.0382782
90	0.001	-0.49585	136.7	-0.0387741
91	0.001	-0.487364	136.937	-0.0392614
92	0.001	-0.476105	137.164	-0.0397375
93	0.001	-0.467699	137.383	-0.0402052
94	0.001	-0.456542	137.591	-0.0406618
95	0.001	-0.448213	137.792	-0.04111
96	0.001	-0.437153	137.983	-0.0415471
97	0.001	-0.428895	138.167	-0.041976
98	0.001	-0.420664	138.344	-0.0423967
99	0.001	-0.409735	138.512	-0.0428064
100	0.001	-0.401571	138.673	-0.043208
101	0.001	-0.390726	138.826	-0.0435987
102	0.001	-0.382622	138.972	-0.0439813
103	0.001	-0.371856	139.11	-0.0443532
104	0.00115	-0.363809	139.243	-0.0447716

105	0.00165	-0.353118	139.367	-0.0453542
106	0.00208	-0.345126	139.487	-0.0460721
107	0.00217	-0.337155	139.6	-0.0468037
108	0.00231	-0.326561	139.707	-0.0475581
109	0.00233	-0.318639	139.808	-0.0483005
110	0.00235	-0.308108	139.903	-0.0490246
111	0.00249	-0.300232	139.994	-0.0497721
112	0.00292	-0.28976	140.077	-0.0506182
113	0.00307	-0.281926	140.157	-0.0514837
114	0.00399	-0.271509	140.231	-0.0525671
115	0.005	-0.263715	140.3	-0.0538856
116	0.005	-0.253347	140.364	-0.0551524
117	0.005	-0.24559	140.425	-0.0563803
118	0.005	-0.237847	140.481	-0.0575696
119	0.005	-0.227545	140.533	-0.0587073
120	0.005	-0.219834	140.581	-0.0598065
121	0.005	-0.209575	140.625	-0.0608543
122	0.005	-0.201894	140.666	-0.0618638
123	0.005	-0.191671	140.703	-0.0628222
124	0.005	-0.184017	140.737	-0.0637422
125	0.005	-0.173829	140.767	-0.0646114
126	0.005	-0.166199	140.795	-0.0654424
127	0.005	-0.158579	140.82	-0.0662353
128	0.005	-0.148434	140.842	-0.0669775
129	0.005	-0.140835	140.862	-0.0676816
130	0.005	-0.130716	140.879	-0.0683352
131	0.005	-0.123135	140.894	-0.0689509
132	0.005	-0.113039	140.907	-0.0695161
133	0.005	-0.105474	140.918	-0.0700434
134	0.005	-0.0953969	140.927	-0.0705204
135	0.005	-0.0878447	140.934	-0.0709597
136	0.005	-0.0802981	140.941	-0.0713611
137	0.005	-0.0702426	140.946	-0.0717124
138	0.005	-0.0627062	140.95	-0.0720259
139	0.005	-0.0526632	140.953	-0.0722892
140	0.005	-0.0451348	140.955	-0.0725149
141	0.005	-0.0350997	140.956	-0.0726904
142	0.005	-0.0275759	140.957	-0.0728283
143	0.005	-0.0175476	140.957	-0.072916
144	0.005	-0.0100272	140.957	-0.0729661
145	0.005	0	140.957	-0.0729661
146	0.005	0.0100272	140.957	-0.072916
147	0.005	0.0175476	140.957	-0.0728283
148	0.005	0.0275759	140.958	-0.0726904
149	0.005	0.0350997	140.959	-0.0725149
150	0.005	0.0451348	140.961	-0.0722892
151	0.005	0.0526632	140.964	-0.0720259
152	0.005	0.0627062	140.968	-0.0717124
153	0.005	0.0702426	140.973	-0.0713611
154	0.005	0.0802981	140.98	-0.0709597
155	0.005	0.0878447	140.987	-0.0705204
156	0.005	0.0953969	140.996	-0.0700434
157	0.005	0.105474	141.007	-0.0695161
158	0.005	0.113039	141.02	-0.0689509
159	0.005	0.123135	141.035	-0.0683352
160	0.005	0.130716	141.053	-0.0676816
161	0.005	0.140835	141.072	-0.0669775

162	0.005	0.148434	141.094	-0.0662353
163	0.005	0.158579	141.12	-0.0654424
164	0.005	0.166199	141.147	-0.0646114
165	0.005	0.173829	141.177	-0.0637422
166	0.005	0.184017	141.211	-0.0628222
167	0.005	0.191671	141.248	-0.0618638
168	0.005	0.201894	141.289	-0.0608543
169	0.005	0.209575	141.333	-0.0598065
170	0.005	0.219834	141.381	-0.0587073
171	0.005	0.227545	141.433	-0.0575696
172	0.005	0.237847	141.489	-0.0563803
173	0.005	0.24559	141.55	-0.0551524
174	0.005	0.253347	141.614	-0.0538856
175	0.005	0.263715	141.683	-0.0525671
176	0.005	0.271509	141.757	-0.0512095
177	0.005	0.281926	141.837	-0.0497999
178	0.005	0.28976	141.921	-0.0483511
179	0.005	0.300232	142.011	-0.0468499
180	0.005	0.308108	142.106	-0.0453094
181	0.005	0.318639	142.207	-0.0437162
182	0.005	0.326561	142.314	-0.0420834
183	0.005	0.337155	142.427	-0.0403976
184	0.005	0.345126	142.547	-0.038672
185	0.005	0.353118	142.671	-0.0369064
186	0.005	0.363809	142.804	-0.0350873
187	0.005	0.371856	142.942	-0.0332281
188	0.005	0.382622	143.088	-0.031315
189	0.005	0.390726	143.241	-0.0293613
190	0.005	0.401571	143.402	-0.0273535
191	0.005	0.409735	143.57	-0.0253048
192	0.005	0.420664	143.747	-0.0232015
193	0.005	0.428895	143.931	-0.021057
194	0.005	0.437153	144.122	-0.0188712
195	0.005	0.448213	144.323	-0.0166302
196	0.005	0.456542	144.531	-0.0143475
197	0.005	0.467699	144.75	-0.012009
198	0.005	0.476105	144.977	-0.00962844
199	0.005	0.487364	145.214	-0.00719162
200	0.005	0.49585	145.46	-0.00471237
201	0.005	0.507221	145.718	-0.00217627
202	0.005	0.515791	145.984	0.000402692
203	0.005	0.524401	146.259	0.0030247
204	0.005	0.53594	146.546	0.0057044
205	0.005	0.544642	146.842	0.00842761
206	0.005	0.556308	147.152	0.0112091
207	0.005	0.565108	147.471	0.0140347
208	0.005	0.576911	147.804	0.0169192
209	0.005	0.585815	148.147	0.0198483
210	0.005	0.597761	148.505	0.0228371
211	0.005	0.606775	148.873	0.025871
212	0.005	0.618872	149.256	0.0289654
213	0.005	0.628006	149.65	0.0321054
214	0.005	0.637192	150.056	0.0352913
215	0.005	0.649522	150.478	0.038539
216	0.005	0.658838	150.912	0.0418331
217	0.005	0.671346	151.363	0.0451899
218	0.005	0.680797	151.826	0.0485939

219	0.005	0.693493	152.307	0.0520613
220	0.005	0.703089	152.802	0.0555768
221	0.005	0.715986	153.314	0.0591567
222	0.005	0.725736	153.841	0.0627854
223	0.005	0.735557	154.382	0.0664632
224	0.005	0.748762	154.943	0.070207
225	0.005	0.758753	155.518	0.0740007
226	0.005	0.772193	156.115	0.0778617
227	0.005	0.782366	156.727	0.0817735
228	0.005	0.796056	157.36	0.0857538
229	0.005	0.806422	158.011	0.0897859
230	0.005	0.820379	158.684	0.0938878
231	0.005	0.830953	159.374	0.0980426
232	0.005	0.841621	160.083	0.102251
233	0.005	0.855996	160.815	0.106531
234	0.005	0.866894	161.567	0.110865
235	0.006	0.881587	162.344	0.116155
236	0.00662	0.892733	163.141	0.122065
237	0.0068	0.907769	163.965	0.128237
238	0.00711	0.919183	164.81	0.134773
239	0.008	0.93459	165.683	0.142249
240	0.008	0.946291	166.579	0.14982
241	0.0083	0.9621	167.504	0.157805
242	0.00952	0.974114	168.453	0.167079
243	0.0098	0.986272	169.426	0.176744
244	0.01	1.00271	170.431	0.186771
245	0.0106	1.01522	171.462	0.197533
246	0.0109	1.03215	172.527	0.208783
247	0.0148	1.04505	173.62	0.22425
248	0.0176	1.06252	174.749	0.24295
249	0.0179	1.07584	175.906	0.262208
250	0.0197	1.0939	177.103	0.283758
251	0.0197	1.10768	178.33	0.305579
252	0.0204	1.12168	179.588	0.328461
253	0.0213	1.14069	180.889	0.352758
254	0.0213	1.15522	182.223	0.377364
255	0.0215	1.17499	183.604	0.402626
256	0.024	1.19012	185.02	0.431189
257	0.0244	1.21073	186.486	0.460731
258	0.0259	1.22653	187.991	0.492498
259	0.0266	1.24809	189.548	0.525697
260	0.0274	1.26464	191.148	0.560348
261	0.0274	1.28155	192.79	0.595463
262	0.028	1.30469	194.492	0.631994
263	0.0285	1.32251	196.241	0.669685
264	0.0292	1.34694	198.056	0.709016
265	0.03	1.36581	199.921	0.74999
266	0.0313	1.39175	201.858	0.793552
267	0.033	1.41183	203.851	0.840142
268	0.0333	1.43953	205.923	0.888078
269	0.0343	1.46106	208.058	0.938193
270	0.0344	1.49085	210.281	0.989478
271	0.0353	1.5141	212.573	1.04293
272	0.0367	1.5382	214.939	1.09938
273	0.0378	1.57179	217.41	1.15879
274	0.038	1.59819	219.964	1.21952
275	0.0389	1.63524	222.638	1.28313

276	0.0445	1.66456	225.409	1.35721
277	0.047	1.70604	228.319	1.43739
278	0.051	1.7392	231.344	1.52609
279	0.0525	1.78661	234.536	1.61989
280	0.0535	1.82501	237.867	1.71752
281	0.0535	1.86629	241.35	1.81737
282	0.0556	1.92684	245.063	1.9245
283	0.0556	1.97737	248.973	2.03445
284	0.0562	2.05375	253.19	2.14987
285	0.06	2.12007	257.685	2.27707
286	0.0603	2.22621	262.641	2.41131
287	0.061	2.32634	268.053	2.55322
288	0.0635	2.51213	274.364	2.71274
289	0.123	2.74777	281.914	3.05071

Data Set Standard Deviation = 0.0146518
Numerator = 9.30685
Denominator = 17.4298
W Statistic = 0.533962 = 9.30685 / 17.4298

5% Critical value of 0.976 exceeds 0.533962
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.533962
Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Arsenic

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.00403616

Overall Std Dev = 0.00892409

Overall Total = 1.16645

SS Groups = 0.00587263

SS Total = 0.0229361

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	0.00587263	12	0.000489386	7.91575
Error (within groups)	0.0170635	276	6.18243e-005	
Totals	0.0229361	288		

95% F-Statistic = 1.75

7.91575 exceeds 1.75; assumption of equal variance should be rejected

Group: MW93-1	Sample	Residual
	6/12/2007	0.00699014
	12/17/2007	0.00109014
	6/11/2008	0.00109014
	12/3/2008	0.00109014
	6/17/2009	0.00109014
	12/9/2009	0.00109014
	6/17/2010	0.00109014
	12/22/2010	0.00109014
	6/29/2011	0.00109014
	12/7/2011	0.00109014
	6/6/2012	0.00109014
	12/12/2012	0.00289014
	6/19/2013	0.00109014
	12/11/2013	0.00109014
	6/11/2014	0.00109014
	12/3/2014	0.00109014
	6/17/2015	0.00109014
	12/1/2015	0.00109014
	6/22/2016	0.00390986
	12/20/2016	0.00340986
	6/6/2017	0.00109014
	11/7/2017	0.00109014
	2/27/2018	0.00209014
	5/24/2018	0.00109014
	6/19/2018	0.00109014
	7/19/2018	0.00109014
	8/22/2018	0.00109014
	9/19/2018	0.00109014
	9/27/2018	0.00109014
	10/18/2018	0.00109014

11/20/2018	0.00109014
12/20/2018	0.00109014
5/7/2019	0.00109014
11/21/2019	0.00290986
6/25/2020	0.00350486
11/17/2020	0.00357386
5/26/2021	0.00364186
11/17/2021	0.00363286
4/8/2022	0.00361886
4/8/2022	0.00361886
10/4/2022	0.00351686
10/4/2022	0.00351686
5/4/2023	0.00363986

Group: MW22-01

Sample	Residual
4/7/2022	0.000168111
5/9/2022	0.000478111
5/31/2022	8.48889e-005
6/20/2022	3.48889e-005
7/18/2022	0.000123889
8/18/2022	0.000122889
9/13/2022	8.88889e-005
10/3/2022	4.98889e-005
5/3/2023	0.000140889

Group: MW93-2

Date	Residual
6/12/2007	0.00112
12/17/2007	0.02712
6/11/2008	0.01782
12/3/2008	0.00018
6/17/2009	0.01932
12/9/2009	0.03032
6/17/2010	0.01528
12/22/2010	0.01168
6/29/2011	0.02782
12/7/2011	0.02818
6/6/2012	0.02338
12/12/2012	0.02302
6/19/2013	0.02818
12/11/2013	0.00212
6/11/2014	0.01348
12/3/2014	0.00578
6/17/2015	0.02818
12/1/2015	0.00318
6/22/2016	0.01382
12/20/2016	0.02682
6/6/2017	0.00482
11/7/2017	0.00518
2/27/2018	0.00918
5/24/2018	0.00398
6/19/2018	0.00578
7/19/2018	0.00352
8/22/2018	0.00012
9/19/2018	0.00122
9/27/2018	0.00572
10/18/2018	0.00462
11/20/2018	0.00188

12/20/2018	0.00468
5/7/2019	0.00728
11/21/2019	0.01348
6/25/2020	0.01558
11/16/2020	0.01278
5/26/2021	0.01838
11/17/2021	0.00658
4/8/2022	0.01188
4/8/2022	0.01188
10/4/2022	0.02032
10/4/2022	0.02242
10/4/2022	0.02242
10/4/2022	0.02032
5/4/2023	0.00878

Group: MW93-3

Date	Residual
6/12/2007	0.00111716
12/17/2007	0.00111716
6/11/2008	0.00111716
12/3/2008	0.00111716
6/17/2009	0.00111716
12/9/2009	0.00111716
6/17/2010	0.00111716
12/22/2010	0.00111716
6/29/2011	0.00111716
12/7/2011	0.00111716
6/6/2012	0.00111716
12/12/2012	0.00111716
6/19/2013	0.00111716
12/11/2013	0.00111716
6/11/2014	0.00111716
12/3/2014	0.00111716
6/17/2015	0.00111716
12/1/2015	0.00111716
6/22/2016	0.00111716
12/20/2016	0.00338284
6/6/2017	0.00111716
11/7/2017	0.00111716
2/27/2018	0.00111716
5/24/2018	0.00111716
6/19/2018	0.00111716
7/19/2018	0.00111716
8/22/2018	0.00111716
9/19/2018	0.00111716
9/27/2018	0.00111716
10/18/2018	0.00111716
11/20/2018	0.00111716
12/20/2018	0.00111716
5/7/2019	0.00111716
11/21/2019	0.00288284
6/25/2020	0.00331084
11/16/2020	0.00329284
5/26/2021	0.00336084
11/17/2021	0.00326284
4/8/2022	0.00319784
4/8/2022	0.00319784
10/4/2022	0.00324184

10/4/2022	0.00324184
5/3/2023	0.00337684

Group: MW22-05

Date	Residual
4/7/2022	0.0006472
5/9/2022	0.0001758
5/31/2022	0.0002758
6/20/2022	0.0001788
7/18/2022	0.0002688
8/18/2022	0.0002828
9/13/2022	0.0002368
10/3/2022	0.0002228
5/3/2023	0.0004972
5/3/2023	0.0004972

Group: MW22-03

Date	Residual
4/7/2022	0.00506333
5/9/2022	0.00287333
5/31/2022	0.00131667
6/20/2022	0.00250667
7/19/2022	0.00372667
8/18/2022	0.00480667
9/13/2022	0.000826667
10/4/2022	0.00180333
5/4/2023	0.00344333

Group: MW22-04

Date	Residual
4/7/2022	0.0001105
5/9/2022	0.0002655
5/31/2022	0.0001665
6/20/2022	4.75e-005
6/20/2022	8.15e-005
7/18/2022	0.0001225
8/18/2022	0.0001695
9/13/2022	0.0001585
10/4/2022	8.45e-005
5/4/2023	0.0001265

Group: MW22-08

Date	Residual
4/8/2022	0.0001271
5/9/2022	3.19e-005
5/31/2022	6.29e-005
5/31/2022	9.29e-005
6/20/2022	8.81e-005
7/18/2022	1.11e-005
8/18/2022	9.1e-006
9/13/2022	7.1e-006
10/4/2022	4.71e-005
5/3/2023	0.0001019

Group: MW22-07

Date	Residual
4/8/2022	4.74444e-005
5/9/2022	4.24444e-005
5/31/2022	0.000121444
6/20/2022	0.000136444
7/19/2022	2.74444e-005
8/18/2022	0.000160556

9/13/2022	0.000114556
10/4/2022	0.000133556
5/4/2023	3.34444e-005

Group: MW22-06

Date	Residual
4/8/2022	9.03e-005
5/9/2022	4.37e-005
5/31/2022	5.73e-005
6/20/2022	9.77e-005
7/18/2022	2.03e-005
8/18/2022	6.7e-006
8/18/2022	6.83e-005
9/13/2022	4.93e-005
10/3/2022	1.97e-005
5/3/2023	0.0001177

Group: MW03-1

Date	Residual
6/12/2007	0.00296095
12/17/2007	0.00296095
6/11/2008	0.00296095
12/3/2008	0.00296095
6/17/2009	0.00296095
12/9/2009	0.00296095
6/17/2010	0.00296095
12/22/2010	0.00296095
6/29/2011	0.00296095
12/7/2011	0.00296095
6/6/2012	0.00296095
6/19/2013	3.90513e-005
12/11/2013	0.00296095
6/11/2014	0.00296095
12/3/2014	0.00296095
6/17/2015	0.00296095
12/1/2015	0.00296095
6/22/2016	0.00796095
12/20/2016	0.00746095
6/6/2017	0.00296095
11/7/2017	0.00296095
2/27/2018	0.00296095
5/24/2018	0.00296095
6/19/2018	0.00296095
7/19/2018	0.0365391
8/22/2018	0.115039
10/18/2018	0.00296095
11/20/2018	0.00296095
12/20/2018	0.00296095
3/26/2019	0.00296095
5/7/2019	0.00296095
11/21/2019	0.00696095
6/25/2020	0.00742295
11/17/2020	0.00728395
5/26/2021	0.00771195
11/16/2021	0.00734095
4/8/2022	0.00750595
4/8/2022	0.00750595
5/3/2023	0.00747795

Group: MW03-2

Date	Residual
6/12/2007	0.000980721
12/17/2007	0.000980721
6/11/2008	0.000980721
12/3/2008	0.000980721
6/17/2009	0.000980721
12/9/2009	0.000980721
6/17/2010	0.000980721
12/22/2010	0.000980721
6/29/2011	0.000980721
12/7/2011	0.000980721
6/6/2012	0.000980721
12/12/2012	0.000980721
6/19/2013	0.000980721
12/11/2013	0.000980721
6/11/2014	0.000980721
12/3/2014	0.000980721
6/17/2015	0.000980721
12/1/2015	0.000980721
6/22/2016	0.000980721
12/20/2016	0.00351928
6/6/2017	0.000980721
11/7/2017	0.000980721
2/27/2018	0.00398072
5/24/2018	0.000980721
6/19/2018	0.000980721
7/19/2018	0.000980721
8/22/2018	0.000980721
9/19/2018	0.000980721
9/27/2018	0.000980721
10/18/2018	0.000980721
11/20/2018	0.000980721
12/20/2018	0.000980721
5/7/2019	0.000980721
11/21/2019	0.00301928
6/25/2020	0.00369028
11/17/2020	0.00301928
5/26/2021	0.00301928
11/17/2021	0.00301928
4/8/2022	0.00301928
4/8/2022	0.00301928
10/3/2022	0.00301928
10/3/2022	0.00301928
5/3/2023	0.00301928

Group: MW22-02

Date	Residual
4/7/2022	0.00205733
5/9/2022	0.000695333
5/31/2022	0.000675333
6/20/2022	6.46667e-005
7/19/2022	0.000835333
8/18/2022	0.00135533
9/13/2022	0.000925333
10/3/2022	0.00699467
5/4/2023	0.000515333

Concentrations (ppb)

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 156

Total Non-Detect: 2

Percent Non-Detects: 1.28205%

Total Background Measurements: 25

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	16	0 (0%)	5/24/2018	0.0246	0.0246
			6/19/2018	0.0239	0.0239
			7/19/2018	0.0202	0.0202
			8/22/2018	0.0152	0.0152
			9/19/2018	0.0267	0.0267
			10/18/2018	0.0213	0.0213
			11/20/2018	0.0267	0.0267
			12/20/2018	0.0175	0.0175
			11/21/2019	0.0321	0.0321
			6/25/2020	0.0283	0.0283
			11/17/2020	0.0405	0.0405
			5/26/2021	0.0132	0.0132
			11/17/2021	0.0173	0.0173
			4/8/2022	0.0199	0.0199
			10/4/2022	0.0189	0.0189
5/4/2023	0.0225	0.0225			
MW22-01	9	0 (0%)	4/7/2022	0.0621	0.0621
			5/9/2022	0.0554	0.0554
			5/31/2022	0.0431	0.0431
			6/20/2022	0.0399	0.0399
			7/18/2022	0.0365	0.0365
			8/18/2022	0.0373	0.0373
			9/13/2022	0.0349	0.0349
			10/3/2022	0.0347	0.0347
5/3/2023	0.0363	0.0363			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	15	0 (0%)	5/24/2018	0.0519	0.0519
			6/19/2018	0.0752	0.0752
			7/19/2018	0.671	0.671
			8/22/2018	2	2
			10/18/2018	0.184	0.184
			11/20/2018	0.0663	0.0663
			12/20/2018	0.0375	0.0375
			3/26/2019	0.0384	0.0384
			11/21/2019	0.0449	0.0449
			6/25/2020	0.0776	0.0776
			11/17/2020	0.19	0.19
			5/26/2021	0.0293	0.0293
			11/16/2021	0.064	0.064
4/8/2022	0.0301	0.0301			

			5/3/2023	0.0403	0.0403
MW03-2	16	1 (6.25%)	5/24/2018	0.0519	0.0519
			6/19/2018	0.0391	0.0391
			7/19/2018	0.044	0.044
			8/22/2018	0.0409	0.0409
			9/19/2018	0.0447	0.0447
			10/18/2018	0.0463	0.0463
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	0.0443	0.0443
			11/21/2019	0.044	0.044
			6/25/2020	0.0348	0.0348
			11/17/2020	0.0395	0.0395
			5/26/2021	0.0335	0.0335
			11/17/2021	0.0329	0.0329
			4/8/2022	0.0301	0.0301
			10/3/2022	0.0281	0.0281
			5/3/2023	0.0291	0.0291
MW93-2	17	0 (0%)	5/24/2018	0.0604	0.0604
			6/19/2018	0.0538	0.0538
			7/19/2018	0.0583	0.0583
			8/22/2018	0.0612	0.0612
			9/19/2018	0.0641	0.0641
			10/18/2018	0.0669	0.0669
			11/20/2018	0.069	0.069
			12/20/2018	0.0651	0.0651
			11/21/2019	0.1	0.1
			6/25/2020	0.147	0.147
			11/16/2020	0.151	0.151
			5/26/2021	0.126	0.126
			11/17/2021	0.127	0.127
			4/8/2022	0.141	0.141
			10/4/2022	0.127	0.127
			10/4/2022	0.132	0.132
			5/4/2023	0.117	0.117
MW93-3	16	1 (6.25%)	5/24/2018	0.214	0.214
			6/19/2018	0.201	0.201
			7/19/2018	0.259	0.259
			8/22/2018	0.184	0.184
			9/19/2018	0.228	0.228
			10/18/2018	0.241	0.241
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	0.259	0.259
			11/21/2019	0.116	0.116
			6/25/2020	0.0604	0.0604
			11/16/2020	0.0604	0.0604
			5/26/2021	0.0627	0.0627
			11/17/2021	0.0604	0.0604
			4/8/2022	0.064	0.064
			10/4/2022	0.0503	0.0503
			5/3/2023	0.0572	0.0572
MW22-05	10	0 (0%)	4/7/2022	0.484	0.484
			5/9/2022	0.456	0.456
			5/31/2022	0.461	0.461

			6/20/2022	0.515	0.515
			7/18/2022	0.45	0.45
			8/18/2022	0.388	0.388
			9/13/2022	0.357	0.357
			10/3/2022	0.356	0.356
			5/3/2023	0.335	0.335
			5/3/2023	0.307	0.307
MW22-03	9	0 (0%)	4/7/2022	0.269	0.269
			5/9/2022	0.191	0.191
			5/31/2022	0.274	0.274
			6/20/2022	0.382	0.382
			7/19/2022	0.346	0.346
			8/18/2022	0.189	0.189
			9/13/2022	0.245	0.245
			10/4/2022	0.109	0.109
			5/4/2023	0.231	0.231
MW22-04	10	0 (0%)	4/7/2022	0.108	0.108
			5/9/2022	0.0487	0.0487
			5/31/2022	0.0731	0.0731
			6/20/2022	0.0662	0.0662
			6/20/2022	0.0661	0.0661
			7/18/2022	0.0742	0.0742
			8/18/2022	0.0719	0.0719
			9/13/2022	0.0745	0.0745
			10/4/2022	0.0633	0.0633
			5/4/2023	0.0426	0.0426
MW22-02	9	0 (0%)	4/7/2022	0.0435	0.0435
			5/9/2022	0.0691	0.0691
			5/31/2022	0.0635	0.0635
			6/20/2022	0.0687	0.0687
			7/19/2022	0.0562	0.0562
			8/18/2022	0.0444	0.0444
			9/13/2022	0.0381	0.0381
			10/3/2022	0.032	0.032
			5/4/2023	0.0667	0.0667
MW22-06	10	0 (0%)	4/8/2022	0.121	0.121
			5/9/2022	0.0798	0.0798
			5/31/2022	0.0765	0.0765
			6/20/2022	0.079	0.079
			7/18/2022	0.0692	0.0692
			8/18/2022	0.0742	0.0742
			8/18/2022	0.0721	0.0721
			9/13/2022	0.0643	0.0643
			10/3/2022	0.0633	0.0633
			5/3/2023	0.0727	0.0727
MW22-08	10	0 (0%)	4/8/2022	0.104	0.104
			5/9/2022	0.0993	0.0993
			5/31/2022	0.0801	0.0801
			5/31/2022	0.0791	0.0791
			6/20/2022	0.0712	0.0712
			7/18/2022	0.0659	0.0659
			8/18/2022	0.0737	0.0737

9/13/2022	0.0708	0.0708
10/4/2022	0.0747	0.0747
5/3/2023	0.0552	0.0552

MW22-07	9	0 (0%)	4/8/2022	0.0944	0.0944
			5/9/2022	0.0961	0.0961
			5/31/2022	0.106	0.106
			6/20/2022	0.119	0.119
			7/19/2022	0.0742	0.0742
			8/18/2022	0.0719	0.0719
			9/13/2022	0.056	0.056
			10/4/2022	0.0532	0.0532
			5/4/2023	0.106	0.106

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.0691

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	0.0435
	5/9/2022	0.0691
	5/31/2022	0.0635
	6/20/2022	0.0687
	7/19/2022	0.0562
	8/18/2022	0.0444
	9/13/2022	0.0381
	10/3/2022	0.032

Date	Count	Mean	Significant
5/4/2023	1	0.0667	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 1.28205%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 25

Maximum Background Value = 0.0621

Confidence Level = 75.8%

False Positive Rate = 24.2%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	0.0403	FALSE
MW03-2	5/3/2023	1	0.0291	FALSE
MW22-02	5/4/2023	1	0.0667	TRUE
MW22-03	5/4/2023	1	0.231	TRUE
MW22-04	5/4/2023	1	0.0426	FALSE
MW22-05	5/3/2023	2	0.321	TRUE
MW22-06	5/3/2023	1	0.0727	TRUE
MW22-07	5/4/2023	1	0.106	TRUE
MW22-08	5/3/2023	1	0.0552	FALSE
MW93-2	5/4/2023	1	0.117	TRUE
MW93-3	5/3/2023	1	0.0572	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 16

Maximum Baseline Concentration = 0.151

Confidence Level = 94.1%

False Positive Rate = 5.9%

Baseline Measurements	Date	Value
	5/24/2018	0.0604
	6/19/2018	0.0538
	7/19/2018	0.0583
	8/22/2018	0.0612
	9/19/2018	0.0641
	10/18/2018	0.0669
	11/20/2018	0.069
	12/20/2018	0.0651
	11/21/2019	0.1
	6/25/2020	0.147
	11/16/2020	0.151
	5/26/2021	0.126
	11/17/2021	0.127
	4/8/2022	0.141
	10/4/2022	0.127
	10/4/2022	0.132

Date	Count	Mean	Significant
5/4/2023	1	0.117	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.382

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	0.269
	5/9/2022	0.191
	5/31/2022	0.274
	6/20/2022	0.382
	7/19/2022	0.346
	8/18/2022	0.189
	9/13/2022	0.245
	10/4/2022	0.109

Date	Count	Mean	Significant
5/4/2023	1	0.231	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-05

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.515

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	0.484
	5/9/2022	0.456
	5/31/2022	0.461
	6/20/2022	0.515
	7/18/2022	0.45
	8/18/2022	0.388
	9/13/2022	0.357
	10/3/2022	0.356

Date	Count	Mean	Significant
5/3/2023	2	0.321	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-06

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.121

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/8/2022	0.121
	5/9/2022	0.0798
	5/31/2022	0.0765
	6/20/2022	0.079
	7/18/2022	0.0692
	8/18/2022	0.0721
	8/18/2022	0.0742
	9/13/2022	0.0643

Date	Count	Mean	Significant
5/3/2023	1	0.0727	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-07

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.119

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/8/2022	0.0944
	5/9/2022	0.0961
	5/31/2022	0.106
	6/20/2022	0.119
	7/19/2022	0.0742
	8/18/2022	0.0719
	9/13/2022	0.056
	10/4/2022	0.0532

Date	Count	Mean	Significant
5/4/2023	1	0.106	FALSE

Shapiro-Francia Test of Normality

Parameter: Barium

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 166

i	x(i)	m(i)	sum(m²)	sum(mx)
1	0.01	-2.57583	6.63492	-0.0257583
2	0.01	-2.29036	11.8807	-0.048662
3	0.0132	-2.12007	16.3754	-0.0766469
4	0.0152	-1.99539	20.357	-0.106977
5	0.0173	-1.8957	23.9506	-0.139772
6	0.0175	-1.81191	27.2337	-0.171481
7	0.0189	-1.7392	30.2585	-0.204352
8	0.0189	-1.67466	33.063	-0.236003
9	0.0199	-1.61644	35.6758	-0.26817
10	0.0199	-1.56322	38.1195	-0.299278
11	0.0202	-1.5141	40.412	-0.329863
12	0.0213	-1.46838	42.5682	-0.36114
13	0.0225	-1.42554	44.6003	-0.393214
14	0.0239	-1.38517	46.519	-0.42632
15	0.0246	-1.34694	48.3333	-0.459455
16	0.0267	-1.31058	50.0509	-0.494447
17	0.0267	-1.27588	51.6788	-0.528513
18	0.0281	-1.24264	53.2229	-0.563431
19	0.0281	-1.21073	54.6888	-0.597453
20	0.0283	-1.18	56.0812	-0.630847
21	0.0291	-1.15035	57.4045	-0.664322
22	0.0293	-1.12168	58.6627	-0.697187
23	0.0301	-1.0939	59.8593	-0.730113
24	0.0301	-1.06694	60.9976	-0.762228
25	0.0301	-1.04073	62.0807	-0.793554
26	0.0301	-1.01522	63.1114	-0.824112
27	0.032	-0.990356	64.0922	-0.855804
28	0.0321	-0.966088	65.0255	-0.886815
29	0.0329	-0.942375	65.9136	-0.917819
30	0.0335	-0.919183	66.7585	-0.948612
31	0.0347	-0.896473	67.5622	-0.97972
32	0.0348	-0.874218	68.3264	-1.01014
33	0.0349	-0.852385	69.053	-1.03989
34	0.0363	-0.830953	69.7435	-1.07005
35	0.0365	-0.809896	70.3994	-1.09962
36	0.0373	-0.789191	71.0222	-1.12905
37	0.0375	-0.768821	71.6133	-1.15788
38	0.0381	-0.748762	72.174	-1.18641
39	0.0384	-0.729003	72.7054	-1.2144
40	0.0391	-0.709522	73.2088	-1.24215
41	0.0395	-0.690309	73.6854	-1.26941
42	0.0399	-0.671346	74.1361	-1.2962
43	0.0403	-0.652622	74.562	-1.3225
44	0.0405	-0.634124	74.9641	-1.34818
45	0.0409	-0.615839	75.3433	-1.37337
46	0.0426	-0.597761	75.7007	-1.39884
47	0.0431	-0.579873	76.0369	-1.42383

48	0.0435	-0.56217	76.353	-1.44828
49	0.044	-0.544642	76.6496	-1.47225
50	0.044	-0.52728	76.9276	-1.49545
51	0.0443	-0.510074	77.1878	-1.51804
52	0.0444	-0.493018	77.4309	-1.53993
53	0.0447	-0.476105	77.6575	-1.56122
54	0.0449	-0.459327	77.8685	-1.58184
55	0.0463	-0.442676	78.0645	-1.60234
56	0.0487	-0.426148	78.2461	-1.62309
57	0.0503	-0.409735	78.414	-1.6437
58	0.0503	-0.393433	78.5687	-1.66349
59	0.0519	-0.377233	78.7111	-1.68307
60	0.0519	-0.361133	78.8415	-1.70181
61	0.0532	-0.345126	78.9606	-1.72017
62	0.0538	-0.329206	79.069	-1.73788
63	0.0552	-0.31337	79.1672	-1.75518
64	0.0554	-0.297612	79.2557	-1.77167
65	0.056	-0.281926	79.3352	-1.78745
66	0.0562	-0.266311	79.4061	-1.80242
67	0.0572	-0.250759	79.469	-1.81676
68	0.0583	-0.235269	79.5244	-1.83048
69	0.0604	-0.219834	79.5727	-1.84376
70	0.0604	-0.204452	79.6145	-1.85611
71	0.0604	-0.189118	79.6503	-1.86753
72	0.0604	-0.173829	79.6805	-1.87803
73	0.0612	-0.158579	79.7056	-1.88773
74	0.0621	-0.143367	79.7262	-1.89664
75	0.0627	-0.128189	79.7426	-1.90468
76	0.0633	-0.113039	79.7554	-1.91183
77	0.0633	-0.0979139	79.765	-1.91803
78	0.0635	-0.0828129	79.7718	-1.92329
79	0.064	-0.0677301	79.7764	-1.92762
80	0.064	-0.0526632	79.7792	-1.93099
81	0.064	-0.0376076	79.7806	-1.9334
82	0.0641	-0.0225612	79.7811	-1.93485
83	0.0643	-0.00751925	79.7812	-1.93533
84	0.0651	0.00751925	79.7812	-1.93484
85	0.0659	0.0225612	79.7817	-1.93335
86	0.0661	0.0376076	79.7832	-1.93087
87	0.0662	0.0526632	79.7859	-1.92738
88	0.0663	0.0677301	79.7905	-1.92289
89	0.0667	0.0828129	79.7974	-1.91737
90	0.0669	0.0979139	79.807	-1.91082
91	0.0687	0.113039	79.8197	-1.90305
92	0.069	0.128189	79.8362	-1.89421
93	0.0691	0.143367	79.8567	-1.8843
94	0.0692	0.158579	79.8819	-1.87332
95	0.0708	0.173829	79.9121	-1.86102
96	0.0712	0.189118	79.9479	-1.84755
97	0.0719	0.204452	79.9897	-1.83285
98	0.0719	0.219834	80.038	-1.81705
99	0.0721	0.235269	80.0933	-1.80008
100	0.0727	0.250759	80.1562	-1.78185
101	0.0731	0.266311	80.2271	-1.76239
102	0.0737	0.281926	80.3066	-1.74161
103	0.0742	0.297612	80.3952	-1.71953
104	0.0742	0.31337	80.4934	-1.69627

105	0.0742	0.329206	80.6018	-1.67185
106	0.0745	0.345126	80.7209	-1.64613
107	0.0747	0.361133	80.8513	-1.61916
108	0.0752	0.377233	80.9936	-1.59079
109	0.0765	0.393433	81.1484	-1.56069
110	0.0776	0.409735	81.3163	-1.5289
111	0.079	0.426148	81.4979	-1.49523
112	0.0791	0.442676	81.6938	-1.46022
113	0.0798	0.459327	81.9048	-1.42356
114	0.0801	0.476105	82.1315	-1.38542
115	0.0944	0.493018	82.3746	-1.33888
116	0.0961	0.510074	82.6347	-1.28987
117	0.0993	0.52728	82.9128	-1.23751
118	0.1	0.544642	83.2094	-1.18304
119	0.104	0.56217	83.5254	-1.12458
120	0.106	0.579873	83.8617	-1.06311
121	0.106	0.597761	84.219	-0.999748
122	0.108	0.615839	84.5983	-0.933237
123	0.109	0.634124	85.0004	-0.864118
124	0.116	0.652622	85.4263	-0.788414
125	0.117	0.671346	85.877	-0.709866
126	0.119	0.690309	86.3535	-0.62772
127	0.121	0.709522	86.8569	-0.541867
128	0.126	0.729003	87.3884	-0.450013
129	0.127	0.748762	87.949	-0.35492
130	0.127	0.768821	88.5401	-0.25728
131	0.127	0.789191	89.1629	-0.157053
132	0.132	0.809896	89.8189	-0.0501464
133	0.132	0.830953	90.5094	0.0595394
134	0.141	0.852385	91.2359	0.179726
135	0.141	0.874218	92.0002	0.30299
136	0.147	0.896473	92.8038	0.434772
137	0.151	0.919183	93.6487	0.573569
138	0.184	0.942375	94.5368	0.746966
139	0.184	0.966088	95.4701	0.924726
140	0.189	0.990356	96.4509	1.1119
141	0.19	1.01522	97.4816	1.3048
142	0.191	1.04073	98.5647	1.50357
143	0.201	1.06694	99.7031	1.71803
144	0.214	1.0939	100.9	1.95212
145	0.228	1.12168	102.158	2.20787
146	0.231	1.15035	103.481	2.4736
147	0.241	1.18	104.874	2.75798
148	0.245	1.21073	106.339	3.05461
149	0.259	1.24264	107.884	3.37645
150	0.259	1.27588	109.511	3.7069
151	0.269	1.31058	111.229	4.05945
152	0.274	1.34694	113.043	4.42851
153	0.307	1.38517	114.962	4.85376
154	0.335	1.42554	116.994	5.33131
155	0.346	1.46838	119.15	5.83937
156	0.356	1.5141	121.443	6.3784
157	0.357	1.56322	123.887	6.93647
158	0.382	1.61644	126.499	7.55394
159	0.388	1.67466	129.304	8.20371
160	0.45	1.7392	132.329	8.98635
161	0.456	1.81191	135.612	9.81259

162	0.461	1.8957	139.205	10.6865
163	0.484	1.99539	143.187	11.6523
164	0.515	2.12007	147.682	12.7441
165	0.671	2.29036	152.927	14.2809
166	2	2.57583	159.562	19.4326

Data Set Standard Deviation = 0.184952

Numerator = 377.626

Denominator = 900.597

W Statistic = 0.419307 = 377.626 / 900.597

5% Critical value of 0.976 exceeds 0.419307

Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.419307

Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.0518466

Overall Std Dev = 0.146751

Overall Total = 8.60653

SS Groups = 1.0014

SS Total = 3.55342

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	1.0014	12	0.0834498	5.00301
Error (within groups)	2.55202	153	0.0166799	
Totals	3.55342	165		

95% F-Statistic = 1.75

5.00301 exceeds 1.75; assumption of equal variance should be rejected

Group: MW93-1

Sample	Residual
5/24/2018	0.00195556
6/19/2018	0.00125556
7/19/2018	0.00244444
8/22/2018	0.00744444
9/19/2018	0.00405556
10/18/2018	0.00134444
11/20/2018	0.00405556
12/20/2018	0.00514444
11/21/2019	0.00945556
6/25/2020	0.00565556
11/17/2020	0.0178556
5/26/2021	0.00944444
11/17/2021	0.00534444
4/8/2022	0.00274444
4/8/2022	0.00274444
10/4/2022	0.00374444
10/4/2022	0.00374444
5/4/2023	0.000144444

Group: MW22-01

Sample	Residual
4/7/2022	0.0198556
5/9/2022	0.0131556
5/31/2022	0.000855556
6/20/2022	0.00234444
7/18/2022	0.00574444
8/18/2022	0.00494444
9/13/2022	0.00734444
10/3/2022	0.00754444
5/3/2023	0.00594444

Group: MW93-2

Date	Residual
5/24/2018	0.04294
6/19/2018	0.04954
7/19/2018	0.04504
8/22/2018	0.04214
9/19/2018	0.03924
10/18/2018	0.03644
11/20/2018	0.03434
12/20/2018	0.03824
11/21/2019	0.00334
6/25/2020	0.04366
11/16/2020	0.04766
5/26/2021	0.02266
11/17/2021	0.02366
4/8/2022	0.03766
4/8/2022	0.03766
10/4/2022	0.02366
10/4/2022	0.02866
10/4/2022	0.02866
10/4/2022	0.02366
5/4/2023	0.01366

Group: MW93-3

Date	Residual
5/24/2018	0.0894611
6/19/2018	0.0764611
7/19/2018	0.134461
8/22/2018	0.0594611
9/19/2018	0.103461
10/18/2018	0.116461
11/20/2018	0.114539
12/20/2018	0.134461
11/21/2019	0.00853889
6/25/2020	0.0641389
11/16/2020	0.0641389
5/26/2021	0.0618389
11/17/2021	0.0641389
4/8/2022	0.0605389
4/8/2022	0.0605389
10/4/2022	0.0742389
10/4/2022	0.0742389
5/3/2023	0.0673389

Group: MW22-05

Date	Residual
4/7/2022	0.0731
5/9/2022	0.0451
5/31/2022	0.0501
6/20/2022	0.1041
7/18/2022	0.0391
8/18/2022	0.0229
9/13/2022	0.0539
10/3/2022	0.0549
5/3/2023	0.0759
5/3/2023	0.1039

Group: MW22-03

Date	Residual
4/7/2022	0.0205556
5/9/2022	0.0574444

5/31/2022	0.0255556
6/20/2022	0.133556
7/19/2022	0.0975556
8/18/2022	0.0594444
9/13/2022	0.00344444
10/4/2022	0.139444
5/4/2023	0.0174444

Group: MW22-04

Date	Residual
4/7/2022	0.03914
5/9/2022	0.02016
5/31/2022	0.00424
6/20/2022	0.00266
6/20/2022	0.00276
7/18/2022	0.00534
8/18/2022	0.00304
9/13/2022	0.00564
10/4/2022	0.00556
5/4/2023	0.02626

Group: MW22-06

Date	Residual
4/8/2022	0.04379
5/9/2022	0.00259
5/31/2022	0.00071
6/20/2022	0.00179
7/18/2022	0.00801
8/18/2022	0.00301
8/18/2022	0.00511
9/13/2022	0.01291
10/3/2022	0.01391
5/3/2023	0.00451

Group: MW22-08

Date	Residual
4/8/2022	0.0266
5/9/2022	0.0219
5/31/2022	0.0027
5/31/2022	0.0017
6/20/2022	0.0062
7/18/2022	0.0115
8/18/2022	0.0037
9/13/2022	0.0066
10/4/2022	0.0027
5/3/2023	0.0222

Group: MW22-07

Date	Residual
4/8/2022	0.00808889
5/9/2022	0.00978889
5/31/2022	0.0196889
6/20/2022	0.0326889
7/19/2022	0.0121111
8/18/2022	0.0144111
9/13/2022	0.0303111
10/4/2022	0.0331111
5/4/2023	0.0196889

Group: MW03-1

Date	Residual
5/24/2018	0.175013

6/19/2018	0.151713
7/19/2018	0.444088
8/22/2018	1.77309
10/18/2018	0.0429125
11/20/2018	0.160613
12/20/2018	0.189413
3/26/2019	0.188513
11/21/2019	0.182013
6/25/2020	0.149313
11/17/2020	0.0369125
5/26/2021	0.197613
11/16/2021	0.162913
4/8/2022	0.196813
4/8/2022	0.196813
5/3/2023	0.186613

Group: MW03-2

Date	Residual
5/24/2018	0.0157111
6/19/2018	0.00291111
7/19/2018	0.00781111
8/22/2018	0.00471111
9/19/2018	0.00851111
10/18/2018	0.0101111
11/20/2018	0.0261889
12/20/2018	0.00811111
11/21/2019	0.00781111
6/25/2020	0.00138889
11/17/2020	0.00331111
5/26/2021	0.00268889
11/17/2021	0.00328889
4/8/2022	0.00608889
4/8/2022	0.00608889
10/3/2022	0.00808889
10/3/2022	0.00808889
5/3/2023	0.00708889

Group: MW22-02

Date	Residual
4/7/2022	0.0100778
5/9/2022	0.0155222
5/31/2022	0.00992222
6/20/2022	0.0151222
7/19/2022	0.00262222
8/18/2022	0.00917778
9/13/2022	0.0154778
10/3/2022	0.0215778
5/4/2023	0.0131222

Concentrations (ppb)

Parameter: Beryllium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 152

Total Non-Detect: 150

Percent Non-Detects: 98.6842%

Total Background Measurements: 24

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	8	8 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW93-1	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	15	13 (86.6667%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	0.0201	0.0201
			8/22/2018	0.0108	0.0108
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/16/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001

MW03-2	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
5/3/2023	ND<0.001	ND<0.001			
MW22-02	8	8 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW22-03	8	8 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW22-04	8	8 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW22-05	16	16 (100%)	4/8/2022	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001

			10/3/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW22-06	8	8 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW22-07	8	8 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW22-08	8	8 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW93-2	17	17 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/16/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW93-3	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01

12/20/2018	ND<0.01	ND<0.01
11/21/2019	ND<0.001	ND<0.001
6/25/2020	ND<0.001	ND<0.001
11/16/2020	ND<0.001	ND<0.001
5/26/2021	ND<0.001	ND<0.001
11/17/2021	ND<0.001	ND<0.001
4/8/2022	ND<0.001	ND<0.001
10/4/2022	ND<0.001	ND<0.001
5/3/2023	ND<0.001	ND<0.001

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Concentrations (ppb)

Parameter: Boron

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 174

Total Non-Detect: 64

Percent Non-Detects: 36.7816%

Total Background Measurements: 29

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	0 (0%)	4/7/2022	0.247	0.247
			5/9/2022	0.339	0.339
			5/31/2022	0.213	0.213
			6/20/2022	0.139	0.139
			7/18/2022	0.107	0.107
			8/18/2022	0.093	0.093
			9/13/2022	0.106	0.106
			10/3/2022	0.0962	0.0962
			5/3/2023	0.154	0.154
MW93-1	20	0 (0%)	10/11/2016	0.429	0.429
			12/20/2016	0.386	0.386
			2/16/2017	0.341	0.341
			3/8/2017	0.348	0.348
			5/9/2017	0.366	0.366
			6/6/2017	0.371	0.371
			8/22/2017	0.458	0.458
			9/22/2017	0.499	0.499
			11/7/2017	0.46	0.46
			2/27/2018	0.33	0.33
			9/27/2018	0.386	0.386
			5/7/2019	0.178	0.178
			11/21/2019	0.303	0.303
			6/25/2020	0.185	0.185
			11/17/2020	0.211	0.211
			5/26/2021	0.227	0.227
			11/17/2021	0.322	0.322
4/8/2022	0.321	0.321			
10/4/2022	0.338	0.338			
5/4/2023	0.291	0.291			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	18	15 (83.3333%)	10/11/2016	ND<0.025	ND<0.025
			12/20/2016	ND<0.025	ND<0.025
			2/16/2017	ND<0.025	ND<0.025
			3/8/2017	ND<0.025	ND<0.025
			5/9/2017	0.041	0.041
			6/6/2017	ND<0.025	ND<0.025
			8/22/2017	ND<0.025	ND<0.025
			9/22/2017	0.025	0.025
			11/7/2017	ND<0.1	ND<0.1
			2/27/2018	0.05	0.05

			5/7/2019	ND<0.1	ND<0.1
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	ND<0.2	ND<0.2
			11/17/2020	ND<0.2	ND<0.2
			5/26/2021	ND<0.2	ND<0.2
			11/16/2021	ND<0.2	ND<0.2
			4/8/2022	ND<0.2	ND<0.2
			5/3/2023	ND<0.2	ND<0.2
MW03-2	19	18 (94.7368%)	10/11/2016	ND<0.025	ND<0.025
			12/20/2016	ND<0.025	ND<0.025
			2/16/2017	ND<0.025	ND<0.025
			3/8/2017	ND<0.025	ND<0.025
			5/9/2017	0.032	0.032
			6/6/2017	ND<0.025	ND<0.025
			8/22/2017	ND<0.025	ND<0.025
			9/22/2017	ND<0.025	ND<0.025
			11/7/2017	ND<0.1	ND<0.1
			2/27/2018	ND<0.05	ND<0.05
			5/7/2019	ND<0.1	ND<0.1
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	ND<0.2	ND<0.2
			11/17/2020	ND<0.2	ND<0.2
			5/26/2021	ND<0.2	ND<0.2
			11/17/2021	ND<0.2	ND<0.2
			4/8/2022	ND<0.2	ND<0.2
			10/3/2022	ND<0.2	ND<0.2
			5/3/2023	ND<0.2	ND<0.2
MW22-02	9	0 (0%)	4/7/2022	1.87	1.87
			5/9/2022	2.93	2.93
			5/31/2022	3.08	3.08
			6/20/2022	3.08	3.08
			7/19/2022	2.94	2.94
			8/18/2022	3.16	3.16
			9/13/2022	3.03	3.03
			10/3/2022	3.25	3.25
			5/4/2023	2.84	2.84
MW22-03	9	0 (0%)	4/7/2022	0.109	0.109
			5/9/2022	0.126	0.126
			5/31/2022	0.11	0.11
			6/20/2022	0.0975	0.0975
			7/19/2022	0.106	0.106
			8/18/2022	0.177	0.177
			9/13/2022	0.174	0.174
			10/4/2022	0.209	0.209
			5/4/2023	0.11	0.11
MW22-04	10	4 (40%)	4/7/2022	ND<0.2	ND<0.2
			5/9/2022	0.0953	0.0953
			5/31/2022	0.0578	0.0578
			6/20/2022	0.0609	0.0609
			6/20/2022	0.0556	0.0556
			7/18/2022	0.0434	0.0434
			8/18/2022	ND<0.2	ND<0.2
			9/13/2022	ND<0.2	ND<0.2

			10/4/2022	ND<0.2	ND<0.2
			5/4/2023	0.0623	0.0623
MW22-05	10	10 (100%)	4/7/2022	ND<0.2	ND<0.2
			5/9/2022	ND<0.2	ND<0.2
			5/31/2022	ND<0.2	ND<0.2
			6/20/2022	ND<0.2	ND<0.2
			7/18/2022	ND<0.2	ND<0.2
			8/18/2022	ND<0.2	ND<0.2
			9/13/2022	ND<0.2	ND<0.2
			10/3/2022	ND<0.2	ND<0.2
			5/3/2023	ND<0.2	ND<0.2
			5/3/2023	ND<0.2	ND<0.2
MW22-06	10	10 (100%)	4/8/2022	ND<0.2	ND<0.2
			5/9/2022	ND<0.2	ND<0.2
			5/31/2022	ND<0.2	ND<0.2
			6/20/2022	ND<0.2	ND<0.2
			7/18/2022	ND<0.2	ND<0.2
			8/18/2022	ND<0.2	ND<0.2
			8/18/2022	ND<0.2	ND<0.2
			9/13/2022	ND<0.2	ND<0.2
			10/3/2022	ND<0.2	ND<0.2
			5/3/2023	ND<0.2	ND<0.2
MW22-07	9	1 (11.1111%)	4/8/2022	ND<0.2	ND<0.2
			5/9/2022	0.0811	0.0811
			5/31/2022	0.172	0.172
			6/20/2022	0.136	0.136
			7/19/2022	0.0881	0.0881
			8/18/2022	0.0798	0.0798
			9/13/2022	0.0888	0.0888
			10/4/2022	0.0895	0.0895
			5/4/2023	0.0888	0.0888
MW22-08	10	1 (10%)	4/8/2022	0.184	0.184
			5/9/2022	0.171	0.171
			5/31/2022	0.0958	0.0958
			5/31/2022	ND<0.2	ND<0.2
			6/20/2022	0.163	0.163
			7/18/2022	0.168	0.168
			8/18/2022	0.167	0.167
			9/13/2022	0.166	0.166
			10/4/2022	0.19	0.19
			5/3/2023	0.174	0.174
MW93-2	21	0 (0%)	10/11/2016	2.86	2.86
			12/20/2016	2.31	2.31
			2/16/2017	2.09	2.09
			3/8/2017	2.07	2.07
			5/9/2017	1.97	1.97
			6/6/2017	1.83	1.83
			8/22/2017	2.38	2.38
			9/22/2017	2.48	2.48
			11/7/2017	0.46	0.46
			2/27/2018	0.064	0.064
			9/27/2018	2.01	2.01

5/7/2019	1.61	1.61
11/21/2019	1.76	1.76
6/25/2020	1.74	1.74
11/16/2020	1.76	1.76
5/26/2021	1.59	1.59
11/17/2021	1.71	1.71
4/8/2022	1.42	1.42
10/4/2022	1.84	1.84
10/4/2022	1.92	1.92
5/4/2023	1.68	1.68

MW93-3	20	5 (25%)	10/11/2016	0.079	0.079
			12/20/2016	0.08	0.08
			2/16/2017	0.126	0.126
			3/8/2017	0.09	0.09
			5/9/2017	0.139	0.139
			6/6/2017	ND<0.025	ND<0.025
			8/22/2017	0.119	0.119
			9/22/2017	0.118	0.118
			11/7/2017	ND<0.1	ND<0.1
			2/27/2018	0.089	0.089
			9/27/2018	ND<0.1	ND<0.1
			5/7/2019	ND<0.1	ND<0.1
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	0.0726	0.0726
			11/16/2020	0.0762	0.0762
			5/26/2021	0.0889	0.0889
			11/17/2021	0.0912	0.0912
			4/8/2022	0.0765	0.0765
			10/4/2022	0.0927	0.0927
			5/3/2023	0.0751	0.0751

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Boron

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 36.7816%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 29

Maximum Background Value = 0.499

Confidence Level = 78.4%

False Positive Rate = 21.6%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	0.2	FALSE
MW03-2	5/3/2023	1	0.2	FALSE
MW22-02	5/4/2023	1	2.84	TRUE
MW22-03	5/4/2023	1	0.11	FALSE
MW22-04	5/4/2023	1	0.0623	FALSE
MW22-05	5/3/2023	2	0.2	FALSE
MW22-06	5/3/2023	1	0.2	FALSE
MW22-07	5/4/2023	1	0.0888	FALSE
MW22-08	5/3/2023	1	0.174	FALSE
MW93-2	5/4/2023	1	1.68	TRUE
MW93-3	5/3/2023	1	0.0751	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Boron

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 20

Maximum Baseline Concentration = 2.86

Confidence Level = 95.2%

False Positive Rate = 4.8%

Baseline Measurements	Date	Value
	10/11/2016	2.86
	12/20/2016	2.31
	2/16/2017	2.09
	3/8/2017	2.07
	5/9/2017	1.97
	6/6/2017	1.83
	8/22/2017	2.38
	9/22/2017	2.48
	11/7/2017	0.46
	2/27/2018	0.064
	9/27/2018	2.01
	5/7/2019	1.61
	11/21/2019	1.76
	6/25/2020	1.74
	11/16/2020	1.76
	5/26/2021	1.59
	11/17/2021	1.71
	4/8/2022	1.42
	10/4/2022	1.84
	10/4/2022	1.92

Date	Count	Mean	Significant
5/4/2023	1	1.68	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Boron

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 3.25

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	1.87
	5/9/2022	2.93
	5/31/2022	3.08
	6/20/2022	3.08
	7/19/2022	2.94
	8/18/2022	3.16
	9/13/2022	3.03
	10/3/2022	3.25

Date	Count	Mean	Significant
5/4/2023	1	2.84	FALSE

Shapiro-Francia Test of Normality

Parameter: Boron

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 184

i	x(i)	m(i)	sum(m²)	sum(mx)
1	0.025	-2.57583	6.63492	-0.0643959
2	0.025	-2.32634	12.0468	-0.122554
3	0.025	-2.14441	16.6453	-0.176165
4	0.025	-2.03352	20.7805	-0.227003
5	0.025	-1.92684	24.4932	-0.275174
6	0.025	-1.85218	27.9237	-0.321478
7	0.025	-1.78661	31.1157	-0.366143
8	0.025	-1.71688	34.0634	-0.409065
9	0.025	-1.66456	36.8342	-0.450679
10	0.025	-1.60725	39.4174	-0.490861
11	0.025	-1.56322	41.8611	-0.529941
12	0.025	-1.52203	44.1777	-0.567992
13	0.025	-1.47579	46.3556	-0.604887
14	0.025	-1.43953	48.4279	-0.640875
15	0.025	-1.39838	50.3833	-0.675834
16	0.032	-1.36581	52.2488	-0.71954
17	0.041	-1.33462	54.03	-0.77426
18	0.0434	-1.29884	55.717	-0.830629
19	0.05	-1.27024	57.3305	-0.894141
20	0.05	-1.23724	58.8612	-0.956003
21	0.0556	-1.21073	60.3271	-1.02332
22	0.0578	-1.18504	61.7314	-1.09182
23	0.0609	-1.15522	63.066	-1.16217
24	0.0623	-1.13113	64.3454	-1.23264
25	0.064	-1.10306	65.5622	-1.30323
26	0.0726	-1.08032	66.7292	-1.38166
27	0.0751	-1.05812	67.8489	-1.46113
28	0.0762	-1.03215	68.9142	-1.53978
29	0.0765	-1.01104	69.9364	-1.61712
30	0.0765	-0.986272	70.9091	-1.69257
31	0.079	-0.966088	71.8425	-1.76889
32	0.0798	-0.946291	72.7379	-1.84441
33	0.08	-0.923014	73.5899	-1.91825
34	0.0811	-0.903992	74.4071	-1.99156
35	0.0881	-0.881587	75.1843	-2.06923
36	0.0888	-0.863249	75.9295	-2.14589
37	0.0888	-0.841621	76.6378	-2.22062
38	0.0889	-0.823893	77.3166	-2.29387
39	0.089	-0.806422	77.9669	-2.36564
40	0.0895	-0.785774	78.5844	-2.43597
41	0.09	-0.768821	79.1755	-2.50516
42	0.0912	-0.748762	79.7361	-2.57345
43	0.0927	-0.732275	80.2723	-2.64133
44	0.0927	-0.715986	80.785	-2.7077
45	0.093	-0.696684	81.2703	-2.77249
46	0.0953	-0.680797	81.7338	-2.83737
47	0.0958	-0.661955	82.172	-2.90079

48	0.0962	-0.646431	82.5899	-2.96297
49	0.0975	-0.631062	82.9881	-3.0245
50	0.1	-0.612813	83.3636	-3.08578
51	0.1	-0.597761	83.721	-3.14556
52	0.1	-0.579873	84.0572	-3.20355
53	0.1	-0.565108	84.3766	-3.26006
54	0.1	-0.550465	84.6796	-3.31511
55	0.1	-0.533048	84.9637	-3.36841
56	0.1	-0.518658	85.2327	-3.42028
57	0.106	-0.501527	85.4843	-3.47344
58	0.106	-0.487364	85.7218	-3.5251
59	0.107	-0.473299	85.9458	-3.57574
60	0.109	-0.456542	86.1542	-3.6255
61	0.11	-0.442676	86.3502	-3.6742
62	0.11	-0.426148	86.5318	-3.72108
63	0.118	-0.412463	86.7019	-3.76975
64	0.119	-0.398855	86.861	-3.81721
65	0.126	-0.382622	87.0074	-3.86542
66	0.126	-0.369171	87.1437	-3.91194
67	0.136	-0.353118	87.2684	-3.95996
68	0.139	-0.33981	87.3838	-4.00719
69	0.139	-0.326561	87.4905	-4.05259
70	0.154	-0.310738	87.587	-4.10044
71	0.163	-0.297612	87.6756	-4.14895
72	0.166	-0.281926	87.7551	-4.19575
73	0.167	-0.268908	87.8274	-4.24066
74	0.168	-0.253347	87.8916	-4.28322
75	0.171	-0.240426	87.9494	-4.32433
76	0.172	-0.227545	88.0012	-4.36347
77	0.174	-0.212137	88.0462	-4.40038
78	0.174	-0.199336	88.0859	-4.43507
79	0.177	-0.184017	88.1198	-4.46764
80	0.178	-0.171285	88.1491	-4.49813
81	0.184	-0.158579	88.1743	-4.5273
82	0.185	-0.143367	88.1948	-4.55383
83	0.19	-0.130716	88.2119	-4.57866
84	0.2	-0.115562	88.2253	-4.60178
85	0.2	-0.102953	88.2359	-4.62237
86	0.2	-0.0903606	88.244	-4.64044
87	0.2	-0.0752698	88.2497	-4.65549
88	0.2	-0.0627062	88.2536	-4.66803
89	0.2	-0.0476439	88.2559	-4.67756
90	0.2	-0.0350997	88.2571	-4.68458
91	0.2	-0.0225612	88.2576	-4.68909
92	0.2	-0.00751925	88.2577	-4.6906
93	0.2	0.00751925	88.2577	-4.68909
94	0.2	0.0225612	88.2583	-4.68458
95	0.2	0.0350997	88.2595	-4.67756
96	0.2	0.0476439	88.2618	-4.66803
97	0.2	0.0627062	88.2657	-4.65549
98	0.2	0.0752698	88.2714	-4.64044
99	0.2	0.0903606	88.2795	-4.62237
100	0.2	0.102953	88.2901	-4.60178
101	0.2	0.115562	88.3035	-4.57866
102	0.2	0.130716	88.3206	-4.55252
103	0.2	0.143367	88.3411	-4.52385
104	0.2	0.158579	88.3663	-4.49213

105	0.2	0.171285	88.3956	-4.45787
106	0.2	0.184017	88.4295	-4.42107
107	0.2	0.199336	88.4692	-4.3812
108	0.2	0.212137	88.5142	-4.33878
109	0.2	0.227545	88.566	-4.29327
110	0.2	0.240426	88.6238	-4.24518
111	0.2	0.253347	88.688	-4.19451
112	0.2	0.268908	88.7603	-4.14073
113	0.2	0.281926	88.8398	-4.08435
114	0.2	0.297612	88.9283	-4.02482
115	0.2	0.310738	89.0249	-3.96268
116	0.2	0.326561	89.1315	-3.89736
117	0.2	0.33981	89.247	-3.8294
118	0.2	0.353118	89.3717	-3.75878
119	0.2	0.369171	89.508	-3.68494
120	0.2	0.382622	89.6544	-3.60842
121	0.2	0.398855	89.8135	-3.52865
122	0.2	0.412463	89.9836	-3.44616
123	0.2	0.426148	90.1652	-3.36093
124	0.2	0.442676	90.3612	-3.27239
125	0.2	0.456542	90.5696	-3.18108
126	0.2	0.473299	90.7936	-3.08642
127	0.2	0.487364	91.0311	-2.98895
128	0.2	0.501527	91.2827	-2.88864
129	0.209	0.518658	91.5517	-2.78024
130	0.211	0.533048	91.8358	-2.66777
131	0.213	0.550465	92.1388	-2.55052
132	0.227	0.565108	92.4582	-2.42224
133	0.247	0.579873	92.7944	-2.27901
134	0.291	0.597761	93.1517	-2.10507
135	0.303	0.612813	93.5273	-1.91938
136	0.321	0.631062	93.9255	-1.71681
137	0.321	0.646431	94.3434	-1.50931
138	0.322	0.661955	94.7816	-1.29616
139	0.33	0.680797	95.245	-1.0715
140	0.338	0.696684	95.7304	-0.836016
141	0.338	0.715986	96.2431	-0.594013
142	0.339	0.732275	96.7793	-0.345772
143	0.341	0.748762	97.3399	-0.090444
144	0.348	0.768821	97.931	0.177106
145	0.366	0.785774	98.5485	0.464699
146	0.371	0.806422	99.1988	0.763881
147	0.386	0.823893	99.8776	1.0819
148	0.386	0.841621	100.586	1.40677
149	0.429	0.863249	101.331	1.7771
150	0.458	0.881587	102.108	2.18087
151	0.46	0.903992	102.925	2.59671
152	0.46	0.923014	103.777	3.02129
153	0.499	0.946291	104.673	3.49349
154	1.42	0.966088	105.606	4.86534
155	1.42	0.986272	106.579	6.26584
156	1.59	1.01104	107.601	7.87339
157	1.61	1.03215	108.667	9.53516
158	1.68	1.05812	109.786	11.3128
159	1.71	1.08032	110.953	13.1602
160	1.74	1.10306	112.17	15.0795
161	1.76	1.13113	113.449	17.0703

162	1.76	1.15522	114.784	19.1035
163	1.83	1.18504	116.188	21.2721
164	1.84	1.21073	117.654	23.4998
165	1.84	1.23724	119.185	25.7763
166	1.87	1.27024	120.798	28.1517
167	1.92	1.29884	122.485	30.6455
168	1.92	1.33462	124.267	33.2079
169	1.97	1.36581	126.132	35.8986
170	2.01	1.39838	128.087	38.7093
171	2.07	1.43953	130.16	41.6891
172	2.09	1.47579	132.338	44.7735
173	2.31	1.52203	134.654	48.2894
174	2.38	1.56322	137.098	52.0099
175	2.48	1.60725	139.681	55.9959
176	2.84	1.66456	142.452	60.7232
177	2.86	1.71688	145.4	65.6335
178	2.93	1.78661	148.592	70.8683
179	2.94	1.85218	152.022	76.3137
180	3.03	1.92684	155.735	82.152
181	3.08	2.03352	159.87	88.4153
182	3.08	2.14441	164.469	95.02
183	3.16	2.32634	169.88	102.371
184	3.25	2.57583	176.515	110.743

Data Set Standard Deviation = 0.8071
 Numerator = 12264
 Denominator = 21042.1
 W Statistic = 0.58283 = 12264 / 21042.1

5% Critical value of 0.976 exceeds 0.58283
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.58283
Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Boron

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.0976706

Overall Std Dev = 0.206523

Overall Total = 17.9714

SS Groups = 2.42295

SS Total = 7.80527

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	2.42295	12	0.201912	6.41488
Error (within groups)	5.38232	171	0.0314756	
Totals	7.80527	183		

95% F-Statistic = 1.75

6.41488 exceeds 1.75; assumption of equal variance should be rejected

Group: MW93-1

Sample	Residual
10/11/2016	0.0922273
12/20/2016	0.0492273
2/16/2017	0.00422727
3/8/2017	0.0112273
5/9/2017	0.0292273
6/6/2017	0.0342273
8/22/2017	0.121227
9/22/2017	0.162227
11/7/2017	0.123227
2/27/2018	0.00677273
9/27/2018	0.0492273
5/7/2019	0.158773
11/21/2019	0.0337727
6/25/2020	0.151773
11/17/2020	0.125773
5/26/2021	0.109773
11/17/2021	0.0147727
4/8/2022	0.0157727
4/8/2022	0.0157727
10/4/2022	0.00122727
10/4/2022	0.00122727
5/4/2023	0.0457727

Group: MW22-01

Sample	Residual
4/7/2022	0.0809778
5/9/2022	0.172978
5/31/2022	0.0469778
6/20/2022	0.0270222
7/18/2022	0.0590222
8/18/2022	0.0730222

9/13/2022	0.0600222
10/3/2022	0.0698222
5/3/2023	0.0120222

Group: MW93-2

Date	Residual
10/11/2016	1.07942
12/20/2016	0.529417
2/16/2017	0.309417
3/8/2017	0.289417
5/9/2017	0.189417
6/6/2017	0.0494167
8/22/2017	0.599417
9/22/2017	0.699417
11/7/2017	1.32058
2/27/2018	1.71658
9/27/2018	0.229417
5/7/2019	0.170583
11/21/2019	0.0205833
6/25/2020	0.0405833
11/16/2020	0.0205833
5/26/2021	0.190583
11/17/2021	0.0705833
4/8/2022	0.360583
4/8/2022	0.360583
10/4/2022	0.0594167
10/4/2022	0.139417
10/4/2022	0.139417
10/4/2022	0.0594167
5/4/2023	0.100583

Group: MW93-3

Date	Residual
10/11/2016	0.0167909
12/20/2016	0.0157909
2/16/2017	0.0302091
3/8/2017	0.00579091
5/9/2017	0.0432091
6/6/2017	0.0707909
8/22/2017	0.0232091
9/22/2017	0.0222091
11/7/2017	0.00420909
2/27/2018	0.00679091
9/27/2018	0.00420909
5/7/2019	0.00420909
11/21/2019	0.104209
6/25/2020	0.0231909
11/16/2020	0.0195909
5/26/2021	0.00689091
11/17/2021	0.00459091
4/8/2022	0.0192909
4/8/2022	0.0192909
10/4/2022	0.00309091
10/4/2022	0.00309091
5/3/2023	0.0206909

Group: MW22-03

Date	Residual
4/7/2022	0.0263889
5/9/2022	0.00938889

5/31/2022	0.0253889
6/20/2022	0.0378889
7/19/2022	0.0293889
8/18/2022	0.0416111
9/13/2022	0.0386111
10/4/2022	0.0736111
5/4/2023	0.0253889

Group: MW22-04

Date	Residual
4/7/2022	0.08247
5/9/2022	0.02223
5/31/2022	0.05973
6/20/2022	0.05663
6/20/2022	0.06193
7/18/2022	0.07413
8/18/2022	0.08247
9/13/2022	0.08247
10/4/2022	0.08247
5/4/2023	0.05523

Group: MW22-05

Date	Residual
4/7/2022	2.77556e-017
5/9/2022	2.77556e-017
5/31/2022	2.77556e-017
6/20/2022	2.77556e-017
7/18/2022	2.77556e-017
8/18/2022	2.77556e-017
9/13/2022	2.77556e-017
10/3/2022	2.77556e-017
5/3/2023	2.77556e-017
5/3/2023	2.77556e-017

Group: MW22-08

Date	Residual
4/8/2022	0.01612
5/9/2022	0.00312
5/31/2022	0.07208
5/31/2022	0.03212
6/20/2022	0.00488
7/18/2022	0.00012
8/18/2022	0.00088
9/13/2022	0.00188
10/4/2022	0.02212
5/3/2023	0.00612

Group: MW22-06

Date	Residual
4/8/2022	2.77556e-017
5/9/2022	2.77556e-017
5/31/2022	2.77556e-017
6/20/2022	2.77556e-017
7/18/2022	2.77556e-017
8/18/2022	2.77556e-017
8/18/2022	2.77556e-017
9/13/2022	2.77556e-017
10/3/2022	2.77556e-017
5/3/2023	2.77556e-017

Group: MW22-07

Date	Residual
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4/8/2022	0.0862111
5/9/2022	0.0326889
5/31/2022	0.0582111
6/20/2022	0.0222111
7/19/2022	0.0256889
8/18/2022	0.0339889
9/13/2022	0.0249889
10/4/2022	0.0242889
5/4/2023	0.0249889

Group: MW03-1

Date	Residual
10/11/2016	0.0837368
12/20/2016	0.0837368
2/16/2017	0.0837368
3/8/2017	0.0837368
5/9/2017	0.0677368
6/6/2017	0.0837368
8/22/2017	0.0837368
9/22/2017	0.0837368
11/7/2017	0.00873684
2/27/2018	0.0587368
5/7/2019	0.00873684
11/21/2019	0.0912632
6/25/2020	0.0912632
11/17/2020	0.0912632
5/26/2021	0.0912632
11/16/2021	0.0912632
4/8/2022	0.0912632
4/8/2022	0.0912632
5/3/2023	0.0912632

Group: MW03-2

Date	Residual
10/11/2016	0.092
12/20/2016	0.092
2/16/2017	0.092
3/8/2017	0.092
5/9/2017	0.085
6/6/2017	0.092
8/22/2017	0.092
9/22/2017	0.092
11/7/2017	0.017
2/27/2018	0.067
5/7/2019	0.017
11/21/2019	0.083
6/25/2020	0.083
11/17/2020	0.083
5/26/2021	0.083
11/17/2021	0.083
4/8/2022	0.083
4/8/2022	0.083
10/3/2022	0.083
10/3/2022	0.083
5/3/2023	0.083

Group: MW22-02

Date	Residual
4/7/2022	1.03889
5/9/2022	0.0211111

5/31/2022	0.171111
6/20/2022	0.171111
7/19/2022	0.0311111
8/18/2022	0.251111
9/13/2022	0.121111
10/3/2022	0.341111
5/4/2023	0.0688889

Concentrations (ppb)

Parameter: Cadmium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 156

Total Non-Detect: 134

Percent Non-Detects: 85.8974%

Total Background Measurements: 25

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	7 (77.7778%)	4/7/2022	0.000263	0.000263
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	0.000216	0.000216
			5/3/2023	ND<0.001	ND<0.001
MW93-1	16	9 (56.25%)	5/24/2018	ND<0.001	ND<0.001
			6/19/2018	ND<0.001	ND<0.001
			7/19/2018	ND<0.001	ND<0.001
			8/22/2018	ND<0.001	ND<0.001
			9/19/2018	ND<0.00117	ND<0.00117
			10/18/2018	ND<0.001	ND<0.001
			11/20/2018	0.00125	0.00125
			12/20/2018	ND<0.001	ND<0.001
			11/21/2019	0.00112	0.00112
			6/25/2020	0.000369	0.000369
			11/17/2020	0.000541	0.000541
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	0.00043	0.00043
			4/8/2022	0.000376	0.000376
			10/4/2022	0.000631	0.000631
			5/4/2023	ND<0.001	ND<0.001

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	15	13 (86.6667%)	5/24/2018	ND<0.001	ND<0.001
			6/19/2018	ND<0.001	ND<0.001
			7/19/2018	0.00486	0.00486
			8/22/2018	0.0204	0.0204
			10/18/2018	ND<0.001	ND<0.001
			11/20/2018	ND<0.001	ND<0.001
			12/20/2018	ND<0.001	ND<0.001
			3/26/2019	ND<0.001	ND<0.001
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/16/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001

			5/3/2023	ND<0.001	ND<0.001
MW03-2	16	16 (100%)	5/24/2018	ND<0.001	ND<0.001
			6/19/2018	ND<0.001	ND<0.001
			7/19/2018	ND<0.001	ND<0.001
			8/22/2018	ND<0.001	ND<0.001
			9/19/2018	ND<0.001	ND<0.001
			10/18/2018	ND<0.001	ND<0.001
			11/20/2018	ND<0.001	ND<0.001
			12/20/2018	ND<0.001	ND<0.001
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW22-02	9	9 (100%)	4/7/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/19/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.01	ND<0.01
			5/4/2023	ND<0.001	ND<0.001
MW22-03	9	8 (88.8889%)	4/7/2022	0.000341	0.000341
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/19/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW22-04	10	10 (100%)	4/7/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW22-05	10	2 (20%)	4/7/2022	0.000395	0.000395
			5/9/2022	0.000252	0.000252
			5/31/2022	0.000256	0.000256
			6/20/2022	0.000236	0.000236
			7/18/2022	0.000323	0.000323
			8/18/2022	0.000165	0.000165
			9/13/2022	ND<0.001	ND<0.001

			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	0.000197	0.000197
			5/3/2023	0.000194	0.000194
MW22-06	10	9 (90%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	0.000338	0.000338
MW22-07	9	9 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/19/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW22-08	10	10 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW93-2	17	16 (94.1176%)	5/24/2018	ND<0.001	ND<0.001
			6/19/2018	ND<0.001	ND<0.001
			7/19/2018	ND<0.001	ND<0.001
			8/22/2018	ND<0.001	ND<0.001
			9/19/2018	ND<0.001	ND<0.001
			10/18/2018	ND<0.001	ND<0.001
			11/20/2018	ND<0.001	ND<0.001
			12/20/2018	ND<0.001	ND<0.001
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/16/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	0.000207	0.000207
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.01	ND<0.01
			10/4/2022	ND<0.01	ND<0.01
			5/4/2023	ND<0.001	ND<0.001
MW93-3	16	16 (100%)	5/24/2018	ND<0.001	ND<0.001
			6/19/2018	ND<0.001	ND<0.001
			7/19/2018	ND<0.001	ND<0.001

8/22/2018	ND<0.001	ND<0.001
9/19/2018	ND<0.001	ND<0.001
10/18/2018	ND<0.001	ND<0.001
11/20/2018	ND<0.001	ND<0.001
12/20/2018	ND<0.001	ND<0.001
11/21/2019	ND<0.001	ND<0.001
6/25/2020	ND<0.001	ND<0.001
11/16/2020	ND<0.001	ND<0.001
5/26/2021	ND<0.001	ND<0.001
11/17/2021	ND<0.001	ND<0.001
4/8/2022	ND<0.001	ND<0.001
10/4/2022	ND<0.001	ND<0.001
5/3/2023	ND<0.001	ND<0.001

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Cadmium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 85.8974%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 25

Maximum Background Value = 0.00125

Confidence Level = 75.8%

False Positive Rate = 24.2%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	0.001	FALSE
MW03-2	5/3/2023	1	0.001	FALSE
MW22-02	5/4/2023	1	0.001	FALSE
MW22-03	5/4/2023	1	0.001	FALSE
MW22-04	5/4/2023	1	0.001	FALSE
MW22-05	5/3/2023	2	0.0001955	FALSE
MW22-06	5/3/2023	1	0.000338	FALSE
MW22-07	5/4/2023	1	0.001	FALSE
MW22-08	5/3/2023	1	0.001	FALSE
MW93-2	5/4/2023	1	0.001	FALSE
MW93-3	5/3/2023	1	0.001	FALSE

Shapiro-Francia Test of Normality

Parameter: Cadmium

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 156

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	0.000165	-2.51213	6.31081	-0.000414502
2	0.000194	-2.25713	11.4054	-0.000852385
3	0.000197	-2.07485	15.7104	-0.00126113
4	0.000207	-1.95996	19.5519	-0.00166684
5	0.000216	-1.86629	23.0349	-0.00206996
6	0.000236	-1.77438	26.1834	-0.00248871
7	0.000252	-1.70604	29.0939	-0.00291864
8	0.000256	-1.64485	31.7995	-0.00333972
9	0.000263	-1.58047	34.2974	-0.00375538
10	0.000323	-1.53007	36.6385	-0.00424959
11	0.000338	-1.47579	38.8164	-0.00474841
12	0.000341	-1.4325	40.8685	-0.0052369
13	0.000369	-1.39175	42.8054	-0.00575045
14	0.000376	-1.34694	44.6197	-0.0062569
15	0.000395	-1.31058	46.3373	-0.00677458
16	0.00043	-1.27588	47.9652	-0.0073232
17	0.000541	-1.23724	49.4959	-0.00799255
18	0.000631	-1.20553	50.9492	-0.00875324
19	0.001	-1.17	52.3181	-0.00992324
20	0.001	-1.14069	53.6193	-0.0110639
21	0.001	-1.11232	54.8565	-0.0121762
22	0.001	-1.08032	56.0236	-0.0132566
23	0.001	-1.05375	57.134	-0.0143103
24	0.001	-1.02789	58.1906	-0.0153382
25	0.001	-0.998575	59.1877	-0.0163368
26	0.001	-0.974114	60.1366	-0.0173109
27	0.001	-0.950222	61.0395	-0.0182611
28	0.001	-0.923014	61.8915	-0.0191841
29	0.001	-0.900227	62.7019	-0.0200844
30	0.001	-0.874218	63.4662	-0.0209586
31	0.001	-0.852385	64.1927	-0.021811
32	0.001	-0.830953	64.8832	-0.0226419
33	0.001	-0.806422	65.5335	-0.0234483
34	0.001	-0.785774	66.151	-0.0242341
35	0.001	-0.765456	66.7369	-0.0249996
36	0.001	-0.742143	67.2877	-0.0257417
37	0.001	-0.722479	67.8096	-0.0264642
38	0.001	-0.699883	68.2995	-0.0271641
39	0.001	-0.680797	68.763	-0.0278449
40	0.001	-0.661955	69.2011	-0.0285068
41	0.001	-0.640266	69.6111	-0.0291471
42	0.001	-0.621911	69.9979	-0.029769
43	0.001	-0.603765	70.3624	-0.0303728
44	0.001	-0.582841	70.7021	-0.0309556
45	0.001	-0.565108	71.0214	-0.0315207
46	0.001	-0.547551	71.3213	-0.0320683
47	0.001	-0.52728	71.5993	-0.0325955

48	0.001	-0.510074	71.8595	-0.0331056
49	0.001	-0.490189	72.0997	-0.0335958
50	0.001	-0.473299	72.3238	-0.0340691
51	0.001	-0.456542	72.5322	-0.0345256
52	0.001	-0.437153	72.7233	-0.0349628
53	0.001	-0.420664	72.9002	-0.0353835
54	0.001	-0.40429	73.0637	-0.0357878
55	0.001	-0.385321	73.2122	-0.0361731
56	0.001	-0.369171	73.3485	-0.0365422
57	0.001	-0.350451	73.4713	-0.0368927
58	0.001	-0.334503	73.5832	-0.0372272
59	0.001	-0.318639	73.6847	-0.0375458
60	0.001	-0.300232	73.7748	-0.0378461
61	0.001	-0.284535	73.8558	-0.0381306
62	0.001	-0.268908	73.9281	-0.0383995
63	0.001	-0.250759	73.991	-0.0386503
64	0.001	-0.235269	74.0463	-0.0388855
65	0.001	-0.217267	74.0935	-0.0391028
66	0.001	-0.201894	74.1343	-0.0393047
67	0.001	-0.186567	74.1691	-0.0394913
68	0.001	-0.168741	74.1976	-0.03966
69	0.001	-0.153505	74.2211	-0.0398135
70	0.001	-0.138305	74.2403	-0.0399518
71	0.001	-0.12061	74.2548	-0.0400724
72	0.001	-0.105474	74.2659	-0.0401779
73	0.001	-0.0903606	74.2741	-0.0402683
74	0.001	-0.0727562	74.2794	-0.040341
75	0.001	-0.0576847	74.2827	-0.0403987
76	0.001	-0.0401167	74.2843	-0.0404388
77	0.001	-0.0250691	74.285	-0.0404639
78	0.001	-0.0100272	74.2851	-0.0404739
79	0.001	0.0100272	74.2852	-0.0404639
80	0.001	0.0250691	74.2858	-0.0404388
81	0.001	0.0401167	74.2874	-0.0403987
82	0.001	0.0576847	74.2907	-0.040341
83	0.001	0.0727562	74.296	-0.0402683
84	0.001	0.0903606	74.3042	-0.0401779
85	0.001	0.105474	74.3153	-0.0400724
86	0.001	0.12061	74.3299	-0.0399518
87	0.001	0.138305	74.349	-0.0398135
88	0.001	0.153505	74.3726	-0.03966
89	0.001	0.168741	74.401	-0.0394913
90	0.001	0.186567	74.4358	-0.0393047
91	0.001	0.201894	74.4766	-0.0391028
92	0.001	0.217267	74.5238	-0.0388855
93	0.001	0.235269	74.5792	-0.0386503
94	0.001	0.250759	74.642	-0.0383995
95	0.001	0.268908	74.7143	-0.0381306
96	0.001	0.284535	74.7953	-0.0378461
97	0.001	0.300232	74.8854	-0.0375458
98	0.001	0.318639	74.987	-0.0372272
99	0.001	0.334503	75.0989	-0.0368927
100	0.001	0.350451	75.2217	-0.0365422
101	0.001	0.369171	75.358	-0.0361731
102	0.001	0.385321	75.5064	-0.0357878
103	0.001	0.40429	75.6699	-0.0353835
104	0.001	0.420664	75.8469	-0.0349628

105	0.001	0.437153	76.038	-0.0345256
106	0.001	0.456542	76.2464	-0.0340691
107	0.001	0.473299	76.4704	-0.0335958
108	0.001	0.490189	76.7107	-0.0331056
109	0.001	0.510074	76.9709	-0.0325955
110	0.001	0.52728	77.2489	-0.0320683
111	0.001	0.547551	77.5487	-0.0315207
112	0.001	0.565108	77.868	-0.0309556
113	0.001	0.582841	78.2077	-0.0303728
114	0.001	0.603765	78.5723	-0.029769
115	0.001	0.621911	78.9591	-0.0291471
116	0.001	0.640266	79.369	-0.0285068
117	0.001	0.661955	79.8072	-0.0278449
118	0.001	0.680797	80.2707	-0.0271641
119	0.001	0.699883	80.7605	-0.0264642
120	0.001	0.722479	81.2825	-0.0257417
121	0.001	0.742143	81.8332	-0.0249996
122	0.001	0.765456	82.4192	-0.0242341
123	0.001	0.785774	83.0366	-0.0234483
124	0.001	0.806422	83.6869	-0.0226419
125	0.001	0.830953	84.3774	-0.021811
126	0.001	0.852385	85.104	-0.0209586
127	0.001	0.874218	85.8682	-0.0200844
128	0.001	0.900227	86.6786	-0.0191841
129	0.001	0.923014	87.5306	-0.0182611
130	0.001	0.950222	88.4335	-0.0173109
131	0.001	0.974114	89.3824	-0.0163368
132	0.001	0.998575	90.3796	-0.0153382
133	0.001	1.02789	91.4361	-0.0143103
134	0.001	1.05375	92.5465	-0.0132566
135	0.001	1.08032	93.7136	-0.0121762
136	0.001	1.11232	94.9509	-0.0110639
137	0.001	1.14069	96.252	-0.00992324
138	0.001	1.17	97.6209	-0.00875324
139	0.001	1.20553	99.0742	-0.00754771
140	0.001	1.23724	100.605	-0.00631047
141	0.001	1.27588	102.233	-0.0050346
142	0.001	1.31058	103.95	-0.00372402
143	0.001	1.34694	105.765	-0.00237708
144	0.001	1.39175	107.702	-0.000985334
145	0.001	1.4325	109.754	0.00044717
146	0.001	1.47579	111.932	0.00192296
147	0.001	1.53007	114.273	0.00345303
148	0.001	1.58047	116.771	0.00503349
149	0.00112	1.64485	119.476	0.00687573
150	0.00117	1.70604	122.387	0.0088718
151	0.00125	1.77438	125.535	0.0110898
152	0.00486	1.86629	129.018	0.02016
153	0.01	1.95996	132.86	0.0397596
154	0.01	2.07485	137.165	0.060508
155	0.01	2.25713	142.259	0.0830793
156	0.0204	2.51213	148.57	0.134327

Data Set Standard Deviation = 0.00202163
Numerator = 0.0180437
Denominator = 0.0941162

W Statistic = 0.191717 = 0.0180437 / 0.0941162

**5% Critical value of 0.976 exceeds 0.191717
Evidence of non-normality at 95% level of significance**

**1% Critical value of 0.967 exceeds 0.191717
Evidence of non-normality at 99% level of significance**

Levene's Test for Equal of Variance

Parameter: Cadmium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.000637025
Overall Std Dev = 0.00181925
Overall Total = 0.099376
SS Groups = 0.000136039
SS Total = 0.000513

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	0.000136039	12	1.13366e-005	4.30053
Error (within groups)	0.000376961	143	2.63609e-006	
Totals	0.000513	155		

95% F-Statistic = 1.75

4.30053 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01	Sample	Residual
	4/7/2022	0.000568
	5/9/2022	0.000169
	5/31/2022	0.000169
	6/20/2022	0.000169
	7/18/2022	0.000169
	8/18/2022	0.000169
	9/13/2022	0.000169
	10/3/2022	0.000615
	5/3/2023	0.000169

Group: MW93-1	Sample	Residual
	5/24/2018	0.000132063
	6/19/2018	0.000132063
	7/19/2018	0.000132063
	8/22/2018	0.000132063
	9/19/2018	0.000302063
	10/18/2018	0.000132063
	11/20/2018	0.000382063
	12/20/2018	0.000132063
	11/21/2019	0.000252063
	6/25/2020	0.000498937
	11/17/2020	0.000326937
	5/26/2021	0.000132063
	11/17/2021	0.000437937
	4/8/2022	0.000491937
	10/4/2022	0.000236937
	5/4/2023	0.000132063

Group: MW03-1	Date	Residual
	5/24/2018	0.00155067

6/19/2018	0.00155067
7/19/2018	0.00230933
8/22/2018	0.0178493
10/18/2018	0.00155067
11/20/2018	0.00155067
12/20/2018	0.00155067
3/26/2019	0.00155067
11/21/2019	0.00155067
6/25/2020	0.00155067
11/17/2020	0.00155067
5/26/2021	0.00155067
11/16/2021	0.00155067
4/8/2022	0.00155067
5/3/2023	0.00155067

Group: MW03-2

Date	Residual
5/24/2018	4.33681e-019
6/19/2018	4.33681e-019
7/19/2018	4.33681e-019
8/22/2018	4.33681e-019
9/19/2018	4.33681e-019
10/18/2018	4.33681e-019
11/20/2018	4.33681e-019
12/20/2018	4.33681e-019
11/21/2019	4.33681e-019
6/25/2020	4.33681e-019
11/17/2020	4.33681e-019
5/26/2021	4.33681e-019
11/17/2021	4.33681e-019
4/8/2022	4.33681e-019
10/3/2022	4.33681e-019
5/3/2023	4.33681e-019

Group: MW22-02

Date	Residual
4/7/2022	0.001
5/9/2022	0.001
5/31/2022	0.001
6/20/2022	0.001
7/19/2022	0.001
8/18/2022	0.001
9/13/2022	0.001
10/3/2022	0.008
5/4/2023	0.001

Group: MW22-03

Date	Residual
4/7/2022	0.000585778
5/9/2022	7.32222e-005
5/31/2022	7.32222e-005
6/20/2022	7.32222e-005
7/19/2022	7.32222e-005
8/18/2022	7.32222e-005
9/13/2022	7.32222e-005
10/4/2022	7.32222e-005
5/4/2023	7.32222e-005

Group: MW22-04

Date	Residual
4/7/2022	2.1684e-019

5/9/2022	2.1684e-019
5/31/2022	2.1684e-019
6/20/2022	2.1684e-019
6/20/2022	2.1684e-019
7/18/2022	2.1684e-019
8/18/2022	2.1684e-019
9/13/2022	2.1684e-019
10/4/2022	2.1684e-019
5/4/2023	2.1684e-019

Group: MW22-05

Date	Residual
4/7/2022	6.8e-006
5/9/2022	0.0001498
5/31/2022	0.0001458
6/20/2022	0.0001658
7/18/2022	7.88e-005
8/18/2022	0.0002368
9/13/2022	0.0005982
10/3/2022	0.0005982
5/3/2023	0.0002048
5/3/2023	0.0002078

Group: MW22-06

Date	Residual
4/8/2022	6.62e-005
5/9/2022	6.62e-005
5/31/2022	6.62e-005
6/20/2022	6.62e-005
7/18/2022	6.62e-005
8/18/2022	6.62e-005
8/18/2022	6.62e-005
9/13/2022	6.62e-005
10/3/2022	6.62e-005
5/3/2023	0.0005958

Group: MW22-07

Date	Residual
4/8/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/19/2022	0
8/18/2022	0
9/13/2022	0
10/4/2022	0
5/4/2023	0

Group: MW22-08

Date	Residual
4/8/2022	2.1684e-019
5/9/2022	2.1684e-019
5/31/2022	2.1684e-019
5/31/2022	2.1684e-019
6/20/2022	2.1684e-019
7/18/2022	2.1684e-019
8/18/2022	2.1684e-019
9/13/2022	2.1684e-019
10/4/2022	2.1684e-019
5/3/2023	2.1684e-019

Group: MW93-2

Date	Residual
5/24/2018	0.00101218
6/19/2018	0.00101218
7/19/2018	0.00101218
8/22/2018	0.00101218
9/19/2018	0.00101218
10/18/2018	0.00101218
11/20/2018	0.00101218
12/20/2018	0.00101218
11/21/2019	0.00101218
6/25/2020	0.00101218
11/16/2020	0.00101218
5/26/2021	0.00101218
11/17/2021	0.00180518
4/8/2022	0.00101218
10/4/2022	0.00798782
10/4/2022	0.00798782
5/4/2023	0.00101218

Group: MW93-3

Date	Residual
5/24/2018	4.33681e-019
6/19/2018	4.33681e-019
7/19/2018	4.33681e-019
8/22/2018	4.33681e-019
9/19/2018	4.33681e-019
10/18/2018	4.33681e-019
11/20/2018	4.33681e-019
12/20/2018	4.33681e-019
11/21/2019	4.33681e-019
6/25/2020	4.33681e-019
11/16/2020	4.33681e-019
5/26/2021	4.33681e-019
11/17/2021	4.33681e-019
4/8/2022	4.33681e-019
10/4/2022	4.33681e-019
5/3/2023	4.33681e-019

Concentrations (ppb)

Parameter: Calcium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 183

Total Non-Detect: 5

Percent Non-Detects: 2.73224%

Total Background Measurements: 33

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	0 (0%)	4/7/2022	323	323
			5/9/2022	304	304
			5/31/2022	309	309
			6/20/2022	306	306
			7/18/2022	269	269
			8/18/2022	264	264
			9/13/2022	270	270
			10/3/2022	275	275
			5/3/2023	266	266
MW93-1	24	1 (4.16667%)	6/6/2012	484	484
			12/12/2012	560	560
			6/19/2013	670	670
			12/11/2013	549	549
			6/11/2014	192	192
			12/3/2014	213	213
			6/17/2015	184	184
			12/1/2015	199	199
			6/22/2016	205	205
			12/20/2016	202	202
			6/6/2017	206	206
			11/7/2017	212	212
			2/27/2018	211	211
			9/27/2018	240	240
			11/20/2018	ND<0.5	ND<0.5
			5/7/2019	212	212
			11/21/2019	228	228
			6/25/2020	210	210
			11/17/2020	212	212
			5/26/2021	179	179
11/17/2021	210	210			
4/8/2022	227	227			
10/4/2022	223	223			
5/4/2023	213	213			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	16	1 (6.25%)	5/24/2018	22.2	22.2
			6/19/2018	43.6	43.6
			7/19/2018	154	154
			8/22/2018	613	613
			11/20/2018	ND<0.5	ND<0.5
			11/20/2018	35.6	35.6

			12/20/2018	13.3	13.3
			3/26/2019	16.6	16.6
			5/7/2019	15	15
			11/21/2019	16.9	16.9
			6/25/2020	35.6	35.6
			11/17/2020	76.2	76.2
			5/26/2021	8.58	8.58
			11/16/2021	27.4	27.4
			4/8/2022	10.8	10.8
			5/3/2023	20.5	20.5
<hr/>					
MW03-2	18	1 (5.55556%)	5/24/2018	197	197
			6/19/2018	291	291
			7/19/2018	338	338
			8/22/2018	325	325
			9/19/2018	303	303
			9/27/2018	352	352
			11/20/2018	ND<0.5	ND<0.5
			11/20/2018	331	331
			12/20/2018	350	350
			5/7/2019	267	267
			11/21/2019	386	386
			6/25/2020	338	338
			11/17/2020	321	321
			5/26/2021	302	302
			11/17/2021	294	294
			4/8/2022	291	291
			10/3/2022	257	257
			5/3/2023	256	256
<hr/>					
MW22-02	9	0 (0%)	4/7/2022	238	238
			5/9/2022	236	236
			5/31/2022	297	297
			6/20/2022	339	339
			7/19/2022	307	307
			8/18/2022	338	338
			9/13/2022	334	334
			10/3/2022	370	370
			5/4/2023	457	457
<hr/>					
MW22-03	9	0 (0%)	4/7/2022	122	122
			5/9/2022	144	144
			5/31/2022	241	241
			6/20/2022	343	343
			7/19/2022	306	306
			8/18/2022	134	134
			9/13/2022	133	133
			10/4/2022	57.4	57.4
			5/4/2023	246	246
<hr/>					
MW22-04	10	0 (0%)	4/7/2022	59.4	59.4
			5/9/2022	73.9	73.9
			5/31/2022	78.8	78.8
			6/20/2022	89.4	89.4
			6/20/2022	89.5	89.5
			7/18/2022	75.3	75.3
			8/18/2022	72.8	72.8

			9/13/2022	71.4	71.4
			10/4/2022	65.5	65.5
			5/4/2023	90.2	90.2
MW22-05	10	0 (0%)	4/7/2022	269	269
			5/9/2022	251	251
			5/31/2022	249	249
			6/20/2022	280	280
			7/18/2022	247	247
			8/18/2022	240	240
			9/13/2022	230	230
			10/3/2022	251	251
			5/3/2023	222	222
			5/3/2023	202	202
MW22-06	10	0 (0%)	4/8/2022	245	245
			5/9/2022	216	216
			5/31/2022	232	232
			6/20/2022	241	241
			7/18/2022	208	208
			8/18/2022	210	210
			8/18/2022	223	223
			9/13/2022	201	201
			10/3/2022	208	208
			5/3/2023	221	221
MW22-07	9	0 (0%)	4/8/2022	87.6	87.6
			5/9/2022	57	57
			5/31/2022	59.8	59.8
			6/20/2022	68	68
			7/19/2022	110	110
			8/18/2022	137	137
			9/13/2022	134	134
			10/4/2022	152	152
			5/4/2023	70.4	70.4
MW22-08	10	0 (0%)	4/8/2022	73.3	73.3
			5/9/2022	66.9	66.9
			5/31/2022	65.4	65.4
			5/31/2022	64.4	64.4
			6/20/2022	66.6	66.6
			7/18/2022	59.6	59.6
			8/18/2022	59.9	59.9
			9/13/2022	59.5	59.5
			10/4/2022	60.7	60.7
			5/3/2023	65.5	65.5
MW93-2	25	1 (4%)	6/6/2012	78.9	78.9
			12/12/2012	101	101
			6/19/2013	100	100
			12/11/2013	88	88
			6/11/2014	41.8	41.8
			12/3/2014	53.8	53.8
			6/17/2015	2.29	2.29
			12/1/2015	42.8	42.8
			6/22/2016	40	40
			12/20/2016	41.8	41.8

6/6/2017	45.2	45.2
11/7/2017	68.5	68.5
2/27/2018	74.7	74.7
9/27/2018	68.9	68.9
11/20/2018	ND<0.5	ND<0.5
5/7/2019	86.3	86.3
11/21/2019	117	117
6/25/2020	198	198
11/16/2020	225	225
5/26/2021	200	200
11/17/2021	195	195
4/8/2022	228	228
10/4/2022	217	217
10/4/2022	235	235
5/4/2023	196	196

MW93-3	24	1 (4.16667%)	6/6/2012	86.4	86.4
			12/12/2012	97	97
			6/19/2013	163	163
			12/11/2013	102	102
			6/11/2014	49.5	49.5
			12/3/2014	31.7	31.7
			6/17/2015	43.4	43.4
			12/1/2015	58	58
			6/22/2016	95.6	95.6
			12/20/2016	82.1	82.1
			6/6/2017	56	56
			11/7/2017	80.2	80.2
			2/27/2018	91.8	91.8
			9/27/2018	94.8	94.8
			11/20/2018	ND<0.5	ND<0.5
			5/7/2019	110	110
			11/21/2019	107	107
			6/25/2020	92.2	92.2
			11/16/2020	82.8	82.8
			5/26/2021	75.1	75.1
			11/17/2021	80.7	80.7
			4/8/2022	80.2	80.2
			10/4/2022	75.2	75.2
			5/3/2023	70.8	70.8

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Calcium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 2.73224%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 33

Maximum Background Value = 670

Confidence Level = 80.5%

False Positive Rate = 19.5%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	20.5	FALSE
MW03-2	5/3/2023	1	256	FALSE
MW22-02	5/4/2023	1	457	FALSE
MW22-03	5/4/2023	1	246	FALSE
MW22-04	5/4/2023	1	90.2	FALSE
MW22-05	5/3/2023	2	212	FALSE
MW22-06	5/3/2023	1	221	FALSE
MW22-07	5/4/2023	1	70.4	FALSE
MW22-08	5/3/2023	1	65.5	FALSE
MW93-2	5/4/2023	1	196	FALSE
MW93-3	5/3/2023	1	70.8	FALSE

Shapiro-Francia Test of Normality

Parameter: Calcium

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 183

i	x(i)	m(i)	sum(m²)	sum(mx)
1	0.5	-2.57583	6.63492	-1.28792
2	0.5	-2.32634	12.0468	-2.45109
3	0.5	-2.14441	16.6453	-3.52329
4	0.5	-2.03352	20.7805	-4.54005
5	0.5	-1.92684	24.4932	-5.50347
6	2.29	-1.85218	27.9237	-9.74496
7	8.58	-1.77438	31.0722	-24.9691
8	10.8	-1.71688	34.0199	-43.5115
9	13.3	-1.66456	36.7906	-65.6502
10	15	-1.60725	39.3739	-89.7589
11	16.6	-1.56322	41.8175	-115.708
12	16.9	-1.5141	44.11	-141.297
13	20.5	-1.47579	46.288	-171.55
14	22.2	-1.4325	48.3401	-203.352
15	27.4	-1.39838	50.2955	-241.668
16	31.7	-1.36581	52.161	-284.964
17	35.6	-1.32854	53.926	-332.26
18	35.6	-1.29884	55.6129	-378.498
19	40	-1.26464	57.2123	-429.084
20	41.8	-1.23724	58.743	-480.8
21	41.8	-1.20553	60.1963	-531.191
22	42.8	-1.18	61.5887	-581.695
23	43.4	-1.15035	62.912	-631.62
24	43.6	-1.12639	64.1808	-680.731
25	45.2	-1.10306	65.3975	-730.59
26	49.5	-1.07584	66.5549	-783.843
27	53.8	-1.05375	67.6653	-840.535
28	56	-1.02789	68.7219	-898.097
29	57	-1.00687	69.7357	-955.488
30	57.4	-0.982202	70.7004	-1011.87
31	58	-0.9621	71.626	-1067.67
32	59.4	-0.942375	72.5141	-1123.65
33	59.5	-0.919183	73.359	-1178.34
34	59.6	-0.900227	74.1694	-1231.99
35	59.8	-0.877897	74.9401	-1284.49
36	59.9	-0.859618	75.679	-1335.98
37	60.7	-0.838054	76.3814	-1386.85
38	64.4	-0.820379	77.0544	-1439.68
39	65.4	-0.802956	77.6991	-1492.2
40	65.5	-0.782366	78.3112	-1543.44
41	65.5	-0.765456	78.8972	-1593.58
42	66.6	-0.745449	79.4528	-1643.22
43	66.9	-0.729003	79.9843	-1691.99
44	68	-0.709522	80.4877	-1740.24
45	68.5	-0.693493	80.9686	-1787.75
46	68.9	-0.67449	81.4236	-1834.22
47	70.4	-0.658838	81.8577	-1880.6

48	70.8	-0.643345	82.2715	-1926.15
49	71.4	-0.624956	82.6621	-1970.77
50	72.8	-0.609791	83.034	-2015.16
51	73.3	-0.591776	83.3842	-2058.54
52	73.9	-0.576911	83.717	-2101.18
53	74.7	-0.559237	84.0297	-2142.95
54	75.1	-0.544642	84.3264	-2183.85
55	75.2	-0.530162	84.6074	-2223.72
56	75.3	-0.51293	84.8705	-2262.35
57	76.2	-0.498687	85.1192	-2300.34
58	78.8	-0.481728	85.3513	-2338.31
59	78.9	-0.467699	85.57	-2375.21
60	80.2	-0.450985	85.7734	-2411.38
61	80.2	-0.437153	85.9645	-2446.44
62	80.7	-0.423405	86.1438	-2480.6
63	82.1	-0.40701	86.3094	-2514.02
64	82.8	-0.393433	86.4642	-2546.6
65	86.3	-0.377233	86.6065	-2579.15
66	86.4	-0.363809	86.7389	-2610.58
67	87.6	-0.347787	86.8599	-2641.05
68	88	-0.334503	86.9717	-2670.49
69	89.4	-0.318639	87.0733	-2698.97
70	89.5	-0.305481	87.1666	-2726.31
71	90.2	-0.292375	87.2521	-2752.69
72	91.8	-0.276714	87.3287	-2778.09
73	92.2	-0.263715	87.3982	-2802.4
74	94.8	-0.248174	87.4598	-2825.93
75	95.6	-0.235269	87.5151	-2848.42
76	97	-0.219834	87.5635	-2869.75
77	100	-0.207012	87.6063	-2890.45
78	101	-0.194225	87.644	-2910.06
79	102	-0.17892	87.6761	-2928.31
80	107	-0.166199	87.7037	-2946.1
81	110	-0.150969	87.7265	-2962.7
82	110	-0.138305	87.7456	-2977.92
83	117	-0.123135	87.7608	-2992.32
84	122	-0.110516	87.773	-3005.81
85	133	-0.0979139	87.7826	-3018.83
86	134	-0.0828129	87.7894	-3029.93
87	134	-0.0702426	87.7944	-3039.34
88	137	-0.0551734	87.7974	-3046.9
89	144	-0.0426257	87.7992	-3053.03
90	152	-0.0275759	87.8	-3057.23
91	154	-0.0150408	87.8002	-3059.54
92	163	0	87.8002	-3059.54
93	179	0.0150408	87.8004	-3056.85
94	184	0.0275759	87.8012	-3051.78
95	192	0.0426257	87.803	-3043.59
96	195	0.0551734	87.806	-3032.83
97	196	0.0702426	87.811	-3019.07
98	197	0.0828129	87.8178	-3002.75
99	198	0.0979139	87.8274	-2983.36
100	199	0.110516	87.8396	-2961.37
101	200	0.123135	87.8548	-2936.75
102	201	0.138305	87.8739	-2908.95
103	202	0.150969	87.8967	-2878.45
104	202	0.166199	87.9243	-2844.88

105	205	0.17892	87.9564	-2808.2
106	206	0.194225	87.9941	-2768.19
107	208	0.207012	88.0369	-2725.13
108	208	0.219834	88.0853	-2679.4
109	210	0.235269	88.1406	-2630
110	210	0.248174	88.2022	-2577.88
111	210	0.263715	88.2717	-2522.5
112	211	0.276714	88.3483	-2464.12
113	212	0.292375	88.4338	-2402.13
114	212	0.305481	88.5271	-2337.37
115	212	0.318639	88.6287	-2269.82
116	213	0.334503	88.7405	-2198.57
117	213	0.347787	88.8615	-2124.49
118	216	0.363809	88.9939	-2045.91
119	217	0.377233	89.1362	-1964.05
120	221	0.393433	89.291	-1877.1
121	222	0.40701	89.4566	-1786.74
122	223	0.423405	89.6359	-1692.32
123	223	0.437153	89.827	-1594.84
124	225	0.450985	90.0304	-1493.37
125	227	0.467699	90.2491	-1387.2
126	228	0.481728	90.4812	-1277.37
127	228	0.498687	90.7299	-1163.66
128	230	0.51293	90.993	-1045.69
129	232	0.530162	91.274	-922.693
130	235	0.544642	91.5707	-794.702
131	236	0.559237	91.8834	-662.722
132	238	0.576911	92.2162	-525.418
133	240	0.591776	92.5664	-383.391
134	240	0.609791	92.9383	-237.042
135	241	0.624956	93.3289	-86.4272
136	241	0.643345	93.7427	68.6189
137	245	0.658838	94.1768	230.034
138	246	0.67449	94.6318	395.959
139	247	0.693493	95.1127	567.252
140	249	0.709522	95.6161	743.923
141	251	0.729003	96.1476	926.902
142	251	0.745449	96.7032	1114.01
143	256	0.765456	97.2892	1309.97
144	257	0.782366	97.9013	1511.03
145	264	0.802956	98.546	1723.02
146	266	0.820379	99.219	1941.24
147	267	0.838054	99.9214	2165
148	269	0.859618	100.66	2396.23
149	269	0.877897	101.431	2632.39
150	270	0.900227	102.241	2875.45
151	275	0.919183	103.086	3128.22
152	280	0.942375	103.974	3392.09
153	291	0.9621	104.9	3672.06
154	291	0.982202	105.865	3957.88
155	294	1.00687	106.879	4253.9
156	297	1.02789	107.935	4559.18
157	302	1.05375	109.045	4877.41
158	303	1.07584	110.203	5203.39
159	304	1.10306	111.42	5538.72
160	306	1.12639	112.688	5883.4
161	306	1.15035	114.012	6235.41

162	307	1.18	115.404	6597.67
163	309	1.20553	116.857	6970.17
164	321	1.23724	118.388	7367.33
165	323	1.26464	119.987	7775.81
166	325	1.29884	121.674	8197.93
167	331	1.32854	123.439	8637.67
168	334	1.36581	125.305	9093.85
169	338	1.39838	127.26	9566.51
170	338	1.4325	129.312	10050.7
171	338	1.47579	131.49	10549.5
172	339	1.5141	133.783	11062.8
173	343	1.56322	136.227	11599
174	350	1.60725	138.81	12161.5
175	352	1.66456	141.581	12747.4
176	370	1.71688	144.528	13382.7
177	386	1.77438	147.677	14067.6
178	457	1.85218	151.107	14914
179	484	1.92684	154.82	15846.6
180	549	2.03352	158.955	16963
181	560	2.14441	163.554	18163.9
182	613	2.32634	168.965	19589.9
183	670	2.57583	175.6	21315.8

Data Set Standard Deviation = 124.713

Numerator = 4.54362e+008

Denominator = 4.97076e+008

W Statistic = 0.914068 = 4.54362e+008 / 4.97076e+008

5% Critical value of 0.976 exceeds 0.914068

Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.914068

Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Calcium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 48.3641

Overall Std Dev = 67.7644

Overall Total = 8850.64

SS Groups = 188951

SS Total = 835746

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	188951	12	15745.9	4.13857
Error (within groups)	646795	170	3804.68	
Totals	835746	182		

95% F-Statistic = 1.75

4.13857 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	35.6667
5/9/2022	16.6667
5/31/2022	21.6667
6/20/2022	18.6667
7/18/2022	18.3333
8/18/2022	23.3333
9/13/2022	17.3333
10/3/2022	12.3333
5/3/2023	21.3333

Group: MW93-1

Sample	Residual
6/6/2012	223.938
12/12/2012	299.938
6/19/2013	409.938
12/11/2013	288.938
6/11/2014	68.0625
12/3/2014	47.0625
6/17/2015	76.0625
12/1/2015	61.0625
6/22/2016	55.0625
12/20/2016	58.0625
6/6/2017	54.0625
11/7/2017	48.0625
2/27/2018	49.0625
9/27/2018	20.0625
11/20/2018	259.563
5/7/2019	48.0625
11/21/2019	32.0625
6/25/2020	50.0625
11/17/2020	48.0625

5/26/2021	81.0625
11/17/2021	50.0625
4/8/2022	33.0625
10/4/2022	37.0625
5/4/2023	47.0625

Group: MW03-1

Date	Residual
5/24/2018	47.1612
6/19/2018	25.7612
7/19/2018	84.6388
8/22/2018	543.639
11/20/2018	68.8612
11/20/2018	33.7612
12/20/2018	56.0613
3/26/2019	52.7612
5/7/2019	54.3612
11/21/2019	52.4613
6/25/2020	33.7612
11/17/2020	6.83875
5/26/2021	60.7813
11/16/2021	41.9613
4/8/2022	58.5613
5/3/2023	48.8612

Group: MW03-2

Date	Residual
5/24/2018	91.8611
6/19/2018	2.13889
7/19/2018	49.1389
8/22/2018	36.1389
9/19/2018	14.1389
9/27/2018	63.1389
11/20/2018	288.361
11/20/2018	42.1389
12/20/2018	61.1389
5/7/2019	21.8611
11/21/2019	97.1389
6/25/2020	49.1389
11/17/2020	32.1389
5/26/2021	13.1389
11/17/2021	5.13889
4/8/2022	2.13889
10/3/2022	31.8611
5/3/2023	32.8611

Group: MW22-02

Date	Residual
4/7/2022	86
5/9/2022	88
5/31/2022	27
6/20/2022	15
7/19/2022	17
8/18/2022	14
9/13/2022	10
10/3/2022	46
5/4/2023	133

Group: MW22-03

Date	Residual
4/7/2022	69.8222

5/9/2022	47.8222
5/31/2022	49.1778
6/20/2022	151.178
7/19/2022	114.178
8/18/2022	57.8222
9/13/2022	58.8222
10/4/2022	134.422
5/4/2023	54.1778

Group: MW22-04

Date	Residual
4/7/2022	17.22
5/9/2022	2.72
5/31/2022	2.18
6/20/2022	12.78
6/20/2022	12.88
7/18/2022	1.32
8/18/2022	3.82
9/13/2022	5.22
10/4/2022	11.12
5/4/2023	13.58

Group: MW22-05

Date	Residual
4/7/2022	24.9
5/9/2022	6.9
5/31/2022	4.9
6/20/2022	35.9
7/18/2022	2.9
8/18/2022	4.1
9/13/2022	14.1
10/3/2022	6.9
5/3/2023	22.1
5/3/2023	42.1

Group: MW22-06

Date	Residual
4/8/2022	24.5
5/9/2022	4.5
5/31/2022	11.5
6/20/2022	20.5
7/18/2022	12.5
8/18/2022	10.5
8/18/2022	2.5
9/13/2022	19.5
10/3/2022	12.5
5/3/2023	0.5

Group: MW22-07

Date	Residual
4/8/2022	9.71111
5/9/2022	40.3111
5/31/2022	37.5111
6/20/2022	29.3111
7/19/2022	12.6889
8/18/2022	39.6889
9/13/2022	36.6889
10/4/2022	54.6889
5/4/2023	26.9111

Group: MW22-08

Date	Residual
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4/8/2022	9.12
5/9/2022	2.72
5/31/2022	1.22
5/31/2022	0.22
6/20/2022	2.42
7/18/2022	4.58
8/18/2022	4.28
9/13/2022	4.68
10/4/2022	3.48
5/3/2023	1.32

Group: MW93-2

Date	Residual
6/6/2012	30.9196
12/12/2012	8.8196
6/19/2013	9.8196
12/11/2013	21.8196
6/11/2014	68.0196
12/3/2014	56.0196
6/17/2015	107.53
12/1/2015	67.0196
6/22/2016	69.8196
12/20/2016	68.0196
6/6/2017	64.6196
11/7/2017	41.3196
2/27/2018	35.1196
9/27/2018	40.9196
11/20/2018	109.32
5/7/2019	23.5196
11/21/2019	7.1804
6/25/2020	88.1804
11/16/2020	115.18
5/26/2021	90.1804
11/17/2021	85.1804
4/8/2022	118.18
10/4/2022	107.18
10/4/2022	125.18
5/4/2023	86.1804

Group: MW93-3

Date	Residual
6/6/2012	6.98333
12/12/2012	17.5833
6/19/2013	83.5833
12/11/2013	22.5833
6/11/2014	29.9167
12/3/2014	47.7167
6/17/2015	36.0167
12/1/2015	21.4167
6/22/2016	16.1833
12/20/2016	2.68333
6/6/2017	23.4167
11/7/2017	0.783333
2/27/2018	12.3833
9/27/2018	15.3833
11/20/2018	78.9167
5/7/2019	30.5833
11/21/2019	27.5833
6/25/2020	12.7833

11/16/2020	3.38333
5/26/2021	4.31667
11/17/2021	1.28333
4/8/2022	0.783333
10/4/2022	4.21667
5/3/2023	8.61667

Concentrations (ppb)

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 396

Total Non-Detect: 6

Percent Non-Detects: 1.51515%

Total Background Measurements: 88

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	0 (0%)	4/7/2022	6.41	6.41
			5/9/2022	7.86	7.86
			5/31/2022	8.14	8.14
			6/20/2022	8.03	8.03
			7/18/2022	9.12	9.12
			8/18/2022	9.45	9.45
			9/13/2022	8.96	8.96
			10/3/2022	10.2	10.2
			5/3/2023	9.35	9.35
MW93-1	79	0 (0%)	12/15/1994	30	30
			3/14/1995	38	38
			6/21/1995	37	37
			12/14/1995	24	24
			3/6/1996	20	20
			4/25/1996	32	32
			10/2/1996	40	40
			12/10/1996	30	30
			3/11/1997	4	4
			4/15/1997	28	28
			8/14/1997	33	33
			12/4/1997	29	29
			3/31/1998	30	30
			6/23/1998	37	37
			8/11/1998	24	24
			12/8/1998	31	31
			3/9/1999	30	30
			6/8/1999	35	35
			8/19/1999	40	40
			12/14/1999	40	40
			3/7/2000	50	50
			6/23/2000	52	52
			12/12/2000	54	54
			3/27/2001	60	60
			6/28/2001	58	58
			9/10/2001	46	46
			12/18/2001	46	46
			3/19/2002	42	42
			6/26/2002	51	51
			9/18/2002	57	57
12/11/2002	56	56			
3/13/2003	56	56			
6/25/2003	63	63			
9/26/2003	59	59			
12/10/2003	40	40			

3/9/2004	58	58
6/24/2004	61	61
9/15/2004	44	44
12/15/2004	48	48
3/16/2005	42	42
6/15/2005	42	42
9/21/2005	42	42
12/21/2005	58	58
3/15/2006	50	50
6/21/2006	31	31
12/20/2006	35	35
6/12/2007	24	24
12/17/2007	27	27
6/11/2008	29	29
12/3/2008	28	28
6/17/2009	20	20
12/9/2009	24	24
6/17/2010	17	17
12/22/2010	20	20
6/29/2011	20.8	20.8
12/7/2011	17.6	17.6
6/6/2012	23.8	23.8
12/12/2012	22.2	22.2
6/19/2013	21.5	21.5
12/11/2013	17.6	17.6
6/11/2014	19.3	19.3
12/3/2014	16.9	16.9
6/17/2015	13	13
12/1/2015	15.2	15.2
6/22/2016	13	13
12/20/2016	15.2	15.2
6/6/2017	16.1	16.1
11/7/2017	16.2	16.2
2/27/2018	15.6	15.6
9/27/2018	16.8	16.8
5/7/2019	18.8	18.8
11/21/2019	22	22
6/25/2020	11	11
11/17/2020	14.4	14.4
5/26/2021	12.9	12.9
11/17/2021	17.7	17.7
4/8/2022	14.3	14.3
10/4/2022	14.9	14.9
5/4/2023	10.3	10.3

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	37	4 (10.8108%)	6/24/2004	10	10
			9/15/2004	22	22
			12/15/2004	6	6
			3/16/2005	4	4
			6/15/2005	6	6
			9/21/2005	5	5
			12/20/2006	5	5
			6/12/2007	4	4

12/17/2007	3	3
6/11/2008	11	11
12/3/2008	11	11
6/17/2009	4	4
12/9/2009	32	32
6/17/2010	5	5
12/22/2010	8.7	8.7
6/29/2011	4.86	4.86
12/7/2011	5.88	5.88
6/6/2012	9.36	9.36
6/19/2013	ND<5	ND<5
12/11/2013	ND<5	ND<5
6/11/2014	44	44
12/3/2014	ND<5	ND<5
6/17/2015	ND<5	ND<5
12/1/2015	0.777	0.777
6/22/2016	0.628	0.628
12/20/2016	0.786	0.786
6/6/2017	0.887	0.887
11/7/2017	1.13	1.13
2/27/2018	1.07	1.07
5/7/2019	5.9	5.9
11/21/2019	410	410
6/25/2020	0.652	0.652
11/17/2020	2.29	2.29
5/26/2021	1.64	1.64
11/16/2021	0.704	0.704
4/8/2022	0.942	0.942
5/3/2023	1.65	1.65

MW03-2	44	1 (2.27273%)	6/24/2004	36	36
			9/15/2004	4	4
			12/15/2004	28	28
			3/16/2005	30	30
			6/15/2005	30	30
			9/21/2005	27	27
			12/21/2005	26	26
			3/15/2006	27	27
			6/21/2006	23	23
			12/20/2006	35	35
			6/12/2007	30	30
			12/17/2007	20	20
			6/11/2008	41	41
			12/3/2008	46	46
			6/17/2009	60	60
			12/9/2009	45	45
			6/17/2010	33	33
			12/22/2010	29	29
			6/29/2011	28.4	28.4
			12/7/2011	23.5	23.5
			6/6/2012	29.3	29.3
			12/12/2012	28.3	28.3
			6/19/2013	32.1	32.1
			12/11/2013	32.8	32.8
			6/11/2014	ND<5	ND<5
			12/3/2014	51.2	51.2
			6/17/2015	54.7	54.7

			12/1/2015	67.8	67.8
			6/22/2016	79.7	79.7
			10/11/2016	88.4	88.4
			12/20/2016	126	126
			6/6/2017	117	117
			11/7/2017	288	288
			2/27/2018	247	247
			9/27/2018	283	283
			5/7/2019	313	313
			11/21/2019	543	543
			6/25/2020	448	448
			11/17/2020	435	435
			5/26/2021	511	511
			11/17/2021	501	501
			4/8/2022	440	440
			10/3/2022	370	370
			5/3/2023	389	389
<hr/>					
MW22-02	9	0 (0%)	4/7/2022	240	240
			5/9/2022	244	244
			5/31/2022	219	219
			6/20/2022	261	261
			7/19/2022	278	278
			8/18/2022	305	305
			9/13/2022	302	302
			10/3/2022	327	327
			5/4/2023	234	234
<hr/>					
MW22-03	9	0 (0%)	4/7/2022	539	539
			5/9/2022	937	937
			5/31/2022	1840	1840
			6/20/2022	2440	2440
			7/19/2022	2420	2420
			8/18/2022	858	858
			9/13/2022	826	826
			10/4/2022	132	132
			5/4/2023	1650	1650
<hr/>					
MW22-04	10	0 (0%)	4/7/2022	32.3	32.3
			5/9/2022	43.5	43.5
			5/31/2022	50.6	50.6
			6/20/2022	32.3	32.3
			6/20/2022	33.8	33.8
			7/18/2022	35.6	35.6
			8/18/2022	38	38
			9/13/2022	40.2	40.2
			10/4/2022	43.1	43.1
			5/4/2023	18.4	18.4
<hr/>					
MW22-05	10	0 (0%)	4/7/2022	1060	1060
			5/9/2022	1090	1090
			5/31/2022	1160	1160
			6/20/2022	1630	1630
			7/18/2022	1200	1200
			8/18/2022	1140	1140
			9/13/2022	1090	1090
			10/3/2022	1070	1070

			5/3/2023	972	972
			5/3/2023	1040	1040
MW22-06	10	0 (0%)	4/8/2022	153	153
			5/9/2022	136	136
			5/31/2022	161	161
			6/20/2022	158	158
			7/18/2022	156	156
			8/18/2022	140	140
			8/18/2022	144	144
			9/13/2022	141	141
			10/3/2022	135	135
			5/3/2023	161	161
MW22-07	9	0 (0%)	4/8/2022	5.98	5.98
			5/9/2022	2.41	2.41
			5/31/2022	3.25	3.25
			6/20/2022	3.41	3.41
			7/19/2022	10.1	10.1
			8/18/2022	13.8	13.8
			9/13/2022	14.1	14.1
			10/4/2022	15.2	15.2
			5/4/2023	4.64	4.64
MW22-08	10	0 (0%)	4/8/2022	165	165
			5/9/2022	172	172
			5/31/2022	198	198
			5/31/2022	189	189
			6/20/2022	192	192
			7/18/2022	202	202
			8/18/2022	209	209
			9/13/2022	195	195
			10/4/2022	194	194
			5/3/2023	207	207
MW93-2	81	1 (1.23457%)	12/15/1994	400	400
			3/14/1995	1500	1500
			6/21/1995	75	75
			12/14/1995	1749	1749
			3/6/1996	1674	1674
			4/25/1996	1999	1999
			10/2/1996	1553	1553
			12/10/1996	1560	1560
			3/11/1997	1634	1634
			4/15/1997	1700	1700
			8/14/1997	2149	2149
			12/4/1997	1769	1769
			3/31/1998	2000	2000
			6/23/1998	2099	2099
			8/11/1998	1874	1874
			12/8/1998	1922	1922
			3/9/1999	1700	1700
			6/8/1999	1739	1739
			8/19/1999	1800	1800
			12/14/1999	1800	1800
			3/7/2000	1328	1328
			6/23/2000	950	950

12/12/2000	1789	1789
3/27/2001	1749	1749
6/28/2001	1799	1799
9/10/2001	2050	2050
12/18/2001	1600	1600
3/19/2002	1730	1730
6/26/2002	1699	1699
9/18/2002	1674	1674
12/11/2002	1613	1613
3/13/2003	1510	1510
6/25/2003	1800	1800
9/26/2003	1616	1616
12/10/2003	1509	1509
3/9/2004	1800	1800
6/24/2004	1892	1892
9/15/2004	1435	1435
12/15/2004	1600	1600
3/16/2005	1325	1325
6/15/2005	1400	1400
9/21/2005	1412	1412
12/21/2005	1550	1550
3/15/2006	1375	1375
6/21/2006	1500	1500
12/20/2006	1250	1250
2/21/2007	1250	1250
6/12/2007	1350	1350
12/17/2007	1399	1399
6/11/2008	1210	1210
12/3/2008	1584	1584
6/17/2009	750	750
12/9/2009	875	875
6/17/2010	1500	1500
12/22/2010	1600	1600
6/29/2011	1670	1670
12/7/2011	1510	1510
6/6/2012	1610	1610
12/12/2012	1750	1750
6/19/2013	1390	1390
12/11/2013	1410	1410
6/11/2014	1360	1360
12/3/2014	1520	1520
6/17/2015	47.7	47.7
12/1/2015	1760	1760
6/22/2016	1300	1300
12/20/2016	1690	1690
6/6/2017	1580	1580
11/7/2017	1160	1160
2/27/2018	1270	1270
9/27/2018	1250	1250
5/7/2019	1360	1360
11/21/2019	ND<5	ND<5
6/25/2020	109	109
11/16/2020	1210	1210
5/26/2021	1670	1670
11/17/2021	1800	1800
4/8/2022	1460	1460
10/4/2022	1580	1580

			10/4/2022	1590	1590
			5/4/2023	1410	1410
MW93-3	79	0 (0%)	12/15/1994	440	440
			3/14/1995	420	420
			6/21/1995	420	420
			12/14/1995	406	406
			3/6/1996	368	368
			4/25/1996	384	384
			10/2/1996	430	430
			12/10/1996	377	377
			3/11/1997	375	375
			4/15/1997	400	400
			8/14/1997	916	916
			12/4/1997	249	249
			3/31/1998	275	275
			6/23/1998	246	246
			8/11/1998	500	500
			12/8/1998	260	260
			3/9/1999	280	280
			6/8/1999	214	214
			8/19/1999	260	260
			12/14/1999	200	200
			3/7/2000	232	232
			6/23/2000	270	270
			12/12/2000	196	196
			3/27/2001	190	190
			6/28/2001	180	180
			9/10/2001	202	202
			12/18/2001	149	149
			3/19/2002	203	203
			6/26/2002	180	180
			9/18/2002	185	185
			12/11/2002	178	178
			3/13/2003	207	207
			6/25/2003	190	190
			9/26/2003	158	158
			12/10/2003	140	140
			3/9/2004	13	13
			6/24/2004	160	160
			9/15/2004	139	139
			12/15/2004	122	122
			3/16/2005	180	180
			6/15/2005	150	150
			9/21/2005	215	215
			12/21/2005	180	180
			3/15/2006	221	221
			6/21/2006	210	210
			12/20/2006	210	210
			6/12/2007	110	110
			12/17/2007	131	131
			6/11/2008	144	144
			12/3/2008	152	152
			6/17/2009	120	120
			12/9/2009	175	175
			6/17/2010	150	150
			12/22/2010	170	170

6/29/2011	170	170
12/7/2011	98.9	98.9
6/6/2012	194	194
12/12/2012	168	168
6/19/2013	194	194
12/11/2013	173	173
6/11/2014	254	254
12/3/2014	194	194
6/17/2015	168	168
12/1/2015	280	280
6/22/2016	518	518
12/20/2016	475	475
6/6/2017	113	113
11/7/2017	402	402
2/27/2018	435	435
9/27/2018	426	426
5/7/2019	421	421
11/21/2019	1070	1070
6/25/2020	143	143
11/16/2020	187	187
5/26/2021	232	232
11/17/2021	183	183
4/8/2022	231	231
10/4/2022	186	186
5/3/2023	202	202

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 1.51515%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 88

Maximum Background Value = 63

Confidence Level = 91.7%

False Positive Rate = 8.3%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	1.65	FALSE
MW03-2	5/3/2023	1	389	TRUE
MW22-02	5/4/2023	1	234	TRUE
MW22-03	5/4/2023	1	1650	TRUE
MW22-04	5/4/2023	1	18.4	FALSE
MW22-05	5/3/2023	2	1006	TRUE
MW22-06	5/3/2023	1	161	TRUE
MW22-07	5/4/2023	1	4.64	FALSE
MW22-08	5/3/2023	1	207	TRUE
MW93-2	5/4/2023	1	1410	TRUE
MW93-3	5/3/2023	1	202	TRUE

Shapiro-Francia Test of Normality

Parameter: Chloride

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 396

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	0.628	-2.87815	8.28375	-1.80748
2	0.652	-2.57583	14.9187	-3.48692
3	0.704	-2.45727	20.9569	-5.21684
4	0.777	-2.32634	26.3687	-7.02441
5	0.786	-2.25713	31.4634	-8.79851
6	0.887	-2.17009	36.1727	-10.7234
7	0.942	-2.12007	40.6673	-12.7205
8	1.07	-2.05375	44.8852	-14.918
9	1.13	-2.01409	48.9418	-17.1939
10	1.64	-1.95996	52.7833	-20.4083
11	1.65	-1.92684	56.496	-23.5875
12	2.29	-1.88079	60.0333	-27.8946
13	2.41	-1.85218	63.4639	-32.3583
14	3	-1.81191	66.7469	-37.794
15	3.25	-1.78661	69.9389	-43.6005
16	3.41	-1.75069	73.0038	-49.5704
17	4	-1.72793	75.9895	-56.4821
18	4	-1.6954	78.8639	-63.2637
19	4	-1.67466	81.6684	-69.9623
20	4	-1.64485	84.3739	-76.5417
21	4	-1.62576	87.0171	-83.0448
22	4.64	-1.59819	89.5713	-90.4604
23	4.86	-1.58047	92.0691	-98.1415
24	5	-1.55477	94.4865	-105.915
25	5	-1.5382	96.8525	-113.606
26	5	-1.5141	99.145	-121.177
27	5	-1.49085	101.368	-128.631
28	5	-1.47579	103.546	-136.01
29	5	-1.4538	105.659	-143.279
30	5	-1.43953	107.731	-150.477
31	5	-1.41865	109.744	-157.57
32	5	-1.40507	111.718	-164.595
33	5.88	-1.38517	113.637	-172.74
34	5.9	-1.3722	115.52	-180.836
35	5.98	-1.35317	117.351	-188.928
36	6	-1.34075	119.149	-196.973
37	6	-1.32251	120.898	-204.908
38	6.41	-1.31058	122.615	-213.309
39	7.86	-1.29303	124.287	-223.472
40	8.03	-1.28155	125.93	-233.763
41	8.14	-1.26464	127.529	-244.057
42	8.7	-1.25357	129.1	-254.963
43	8.96	-1.23724	130.631	-266.048
44	9.12	-1.22653	132.135	-277.234
45	9.35	-1.21073	133.601	-288.555
46	9.36	-1.20036	135.042	-299.79
47	9.45	-1.18504	136.446	-310.989

48	10	-1.17499	137.827	-322.739
49	10.1	-1.16012	139.173	-334.456
50	10.2	-1.15035	140.496	-346.189
51	10.3	-1.1359	141.786	-357.889
52	11	-1.12639	143.055	-370.279
53	11	-1.11232	144.293	-382.515
54	11	-1.09847	145.499	-394.598
55	12.9	-1.08935	146.686	-408.651
56	13	-1.07584	147.843	-422.637
57	13	-1.06694	148.982	-436.507
58	13	-1.05375	150.092	-450.205
59	13.8	-1.04505	151.184	-464.627
60	14.1	-1.03215	152.249	-479.181
61	14.3	-1.02365	153.297	-493.819
62	14.4	-1.01104	154.32	-508.378
63	14.9	-1.00271	155.325	-523.318
64	15.2	-0.990356	156.306	-538.371
65	15.2	-0.982202	157.27	-553.301
66	15.2	-0.970094	158.212	-568.046
67	15.6	-0.9621	159.137	-583.055
68	16.1	-0.950222	160.04	-598.354
69	16.2	-0.942375	160.928	-613.62
70	16.8	-0.930718	161.794	-629.256
71	16.9	-0.923014	162.646	-644.855
72	17	-0.911562	163.477	-660.352
73	17.6	-0.903992	164.295	-676.262
74	17.6	-0.892733	165.091	-691.974
75	17.7	-0.885291	165.875	-707.644
76	18.4	-0.874218	166.639	-723.729
77	18.8	-0.866894	167.391	-740.027
78	19.3	-0.855996	168.124	-756.548
79	20	-0.848786	168.844	-773.523
80	20	-0.838054	169.546	-790.284
81	20	-0.827417	170.231	-806.833
82	20	-0.820379	170.904	-823.24
83	20.8	-0.809896	171.56	-840.086
84	21.5	-0.802956	172.205	-857.35
85	22	-0.792618	172.833	-874.787
86	22	-0.785774	173.45	-892.074
87	22.2	-0.775574	174.052	-909.292
88	23	-0.768821	174.643	-926.975
89	23.5	-0.758753	175.219	-944.806
90	23.8	-0.752084	175.784	-962.705
91	24	-0.742143	176.335	-980.517
92	24	-0.735557	176.876	-998.17
93	24	-0.725736	177.403	-1015.59
94	24	-0.719228	177.92	-1032.85
95	26	-0.709522	178.424	-1051.3
96	27	-0.703089	178.918	-1070.28
97	27	-0.693493	179.399	-1089
98	27	-0.687131	179.871	-1107.56
99	28	-0.677639	180.33	-1126.53
100	28	-0.671346	180.781	-1145.33
101	28	-0.661955	181.219	-1163.86
102	28.3	-0.655726	181.649	-1182.42
103	28.4	-0.646431	182.067	-1200.78
104	29	-0.640266	182.477	-1219.35

105	29	-0.631062	182.875	-1237.65
106	29	-0.621911	183.262	-1255.68
107	29.3	-0.615839	183.641	-1273.73
108	30	-0.606775	184.009	-1291.93
109	30	-0.60076	184.37	-1309.95
110	30	-0.591776	184.72	-1327.71
111	30	-0.585815	185.064	-1345.28
112	30	-0.576911	185.396	-1362.59
113	30	-0.570999	185.723	-1379.72
114	30	-0.56217	186.039	-1396.58
115	31	-0.556308	186.348	-1413.83
116	31	-0.547551	186.648	-1430.8
117	32	-0.541736	186.941	-1448.14
118	32	-0.533048	187.225	-1465.2
119	32.1	-0.52728	187.504	-1482.12
120	32.3	-0.518658	187.773	-1498.87
121	32.3	-0.51293	188.036	-1515.44
122	32.8	-0.504372	188.29	-1531.99
123	33	-0.498687	188.539	-1548.44
124	33	-0.490189	188.779	-1564.62
125	33.8	-0.484544	189.014	-1581
126	35	-0.476105	189.24	-1597.66
127	35	-0.470498	189.462	-1614.13
128	35	-0.462114	189.675	-1630.3
129	35.6	-0.456542	189.884	-1646.55
130	36	-0.448213	190.085	-1662.69
131	37	-0.442676	190.281	-1679.07
132	37	-0.434397	190.469	-1695.14
133	38	-0.426148	190.651	-1711.33
134	38	-0.420664	190.828	-1727.32
135	40	-0.412463	190.998	-1743.82
136	40	-0.40701	191.164	-1760.1
137	40	-0.398855	191.323	-1776.05
138	40	-0.393433	191.478	-1791.79
139	40.2	-0.385321	191.626	-1807.28
140	41	-0.379927	191.77	-1822.86
141	42	-0.371856	191.909	-1838.48
142	42	-0.36649	192.043	-1853.87
143	42	-0.358459	192.171	-1868.92
144	42	-0.353118	192.296	-1883.75
145	43.1	-0.345126	192.415	-1898.63
146	43.5	-0.33981	192.531	-1913.41
147	44	-0.331854	192.641	-1928.01
148	44	-0.326561	192.748	-1942.38
149	45	-0.318639	192.849	-1956.72
150	46	-0.31337	192.947	-1971.13
151	46	-0.305481	193.041	-1985.19
152	46	-0.300232	193.131	-1999
153	47.7	-0.292375	193.216	-2012.94
154	48	-0.287147	193.299	-2026.73
155	50	-0.279319	193.377	-2040.69
156	50	-0.27411	193.452	-2054.4
157	50.6	-0.266311	193.523	-2067.87
158	51	-0.26112	193.591	-2081.19
159	51.2	-0.253347	193.655	-2094.16
160	52	-0.24559	193.715	-2106.93
161	54	-0.240426	193.773	-2119.92

162	54.7	-0.232693	193.827	-2132.64
163	56	-0.227545	193.879	-2145.39
164	56	-0.219834	193.927	-2157.7
165	57	-0.214702	193.974	-2169.94
166	58	-0.207012	194.016	-2181.94
167	58	-0.201894	194.057	-2193.65
168	58	-0.194225	194.095	-2204.92
169	59	-0.189118	194.131	-2216.08
170	60	-0.181468	194.164	-2226.96
171	60	-0.176374	194.195	-2237.55
172	61	-0.168741	194.223	-2247.84
173	63	-0.163659	194.25	-2258.15
174	67.8	-0.156042	194.274	-2268.73
175	75	-0.150969	194.297	-2280.05
176	79.7	-0.143367	194.318	-2291.48
177	88.4	-0.138305	194.337	-2303.7
178	98.9	-0.130716	194.354	-2316.63
179	109	-0.125661	194.37	-2330.33
180	110	-0.118085	194.384	-2343.32
181	113	-0.113039	194.396	-2356.09
182	117	-0.105474	194.407	-2368.43
183	120	-0.100433	194.418	-2380.48
184	122	-0.0928787	194.426	-2391.82
185	126	-0.0878447	194.434	-2402.88
186	131	-0.0802981	194.44	-2413.4
187	132	-0.0727562	194.446	-2423.01
188	135	-0.0677301	194.45	-2432.15
189	136	-0.0601949	194.454	-2440.34
190	139	-0.0551734	194.457	-2448.01
191	140	-0.0476439	194.459	-2454.68
192	140	-0.0426257	194.461	-2460.64
193	141	-0.0350997	194.462	-2465.59
194	143	-0.0300838	194.463	-2469.89
195	144	-0.0225612	194.464	-2473.14
196	144	-0.0175476	194.464	-2475.67
197	149	-0.0100272	194.464	-2477.16
198	150	-0.00501359	194.464	-2477.92
199	150	0.00501359	194.464	-2477.16
200	152	0.0100272	194.464	-2475.64
201	153	0.0175476	194.465	-2472.96
202	156	0.0225612	194.465	-2469.44
203	158	0.0300838	194.466	-2464.68
204	158	0.0350997	194.467	-2459.14
205	160	0.0426257	194.469	-2452.32
206	161	0.0476439	194.471	-2444.65
207	161	0.0551734	194.474	-2435.76
208	165	0.0601949	194.478	-2425.83
209	168	0.0677301	194.483	-2414.45
210	168	0.0727562	194.488	-2402.23
211	170	0.0802981	194.494	-2388.58
212	170	0.0878447	194.502	-2373.65
213	172	0.0928787	194.511	-2357.67
214	173	0.100433	194.521	-2340.3
215	175	0.105474	194.532	-2321.84
216	178	0.113039	194.545	-2301.72
217	180	0.118085	194.559	-2280.46
218	180	0.125661	194.574	-2257.84

219	180	0.130716	194.591	-2234.31
220	180	0.138305	194.611	-2209.42
221	183	0.143367	194.631	-2183.18
222	185	0.150969	194.654	-2155.25
223	186	0.156042	194.678	-2126.23
224	187	0.163659	194.705	-2095.62
225	189	0.168741	194.733	-2063.73
226	190	0.176374	194.765	-2030.22
227	190	0.181468	194.798	-1995.74
228	192	0.189118	194.833	-1959.43
229	194	0.194225	194.871	-1921.75
230	194	0.201894	194.912	-1882.59
231	194	0.207012	194.955	-1842.42
232	194	0.214702	195.001	-1800.77
233	195	0.219834	195.049	-1757.9
234	196	0.227545	195.101	-1713.31
235	198	0.232693	195.155	-1667.23
236	200	0.240426	195.213	-1619.15
237	202	0.24559	195.273	-1569.54
238	202	0.253347	195.337	-1518.36
239	202	0.26112	195.405	-1465.62
240	203	0.266311	195.476	-1411.55
241	207	0.27411	195.552	-1354.81
242	207	0.279319	195.63	-1296.99
243	209	0.287147	195.712	-1236.98
244	210	0.292375	195.797	-1175.58
245	210	0.300232	195.888	-1112.53
246	214	0.305481	195.981	-1047.16
247	215	0.31337	196.079	-979.786
248	219	0.318639	196.181	-910.004
249	221	0.326561	196.287	-837.834
250	231	0.331854	196.397	-761.176
251	232	0.33981	196.513	-682.34
252	232	0.345126	196.632	-602.271
253	234	0.353118	196.757	-519.641
254	240	0.358459	196.885	-433.611
255	244	0.36649	197.02	-344.187
256	246	0.371856	197.158	-252.711
257	247	0.379927	197.302	-158.869
258	249	0.385321	197.451	-62.9239
259	254	0.393433	197.605	37.008
260	260	0.398855	197.764	140.71
261	260	0.40701	197.93	246.533
262	261	0.412463	198.1	354.186
263	270	0.420664	198.277	467.765
264	275	0.426148	198.459	584.956
265	278	0.434397	198.648	705.718
266	280	0.442676	198.843	829.668
267	280	0.448213	199.044	955.167
268	283	0.456542	199.253	1084.37
269	288	0.462114	199.466	1217.46
270	302	0.470498	199.688	1359.55
271	305	0.476105	199.914	1504.76
272	313	0.484544	200.149	1656.42
273	327	0.490189	200.389	1816.71
274	368	0.498687	200.638	2000.23
275	370	0.504372	200.893	2186.85

276	375	0.51293	201.156	2379.2
277	377	0.518658	201.425	2574.73
278	384	0.52728	201.703	2777.21
279	389	0.533048	201.987	2984.56
280	400	0.541736	202.28	3201.26
281	400	0.547551	202.58	3420.28
282	402	0.556308	202.89	3643.91
283	406	0.56217	203.206	3872.15
284	410	0.570999	203.532	4106.26
285	420	0.576911	203.864	4348.57
286	420	0.585815	204.208	4594.61
287	421	0.591776	204.558	4843.75
288	426	0.60076	204.919	5099.67
289	430	0.606775	205.287	5360.58
290	435	0.615839	205.666	5628.47
291	435	0.621911	206.053	5899
292	440	0.631062	206.451	6176.67
293	440	0.640266	206.861	6458.39
294	448	0.646431	207.279	6747.99
295	475	0.655726	207.709	7059.46
296	500	0.661955	208.147	7390.44
297	501	0.671346	208.598	7726.78
298	511	0.677639	209.057	8073.06
299	518	0.687131	209.529	8428.99
300	539	0.693493	210.01	8802.78
301	543	0.703089	210.505	9184.56
302	750	0.709522	211.008	9716.7
303	826	0.719228	211.525	10310.8
304	858	0.725736	212.052	10933.5
305	875	0.735557	212.593	11577.1
306	916	0.742143	213.144	12256.9
307	937	0.752084	213.709	12961.6
308	950	0.758753	214.285	13682.4
309	972	0.768821	214.876	14429.7
310	1040	0.775574	215.478	15236.3
311	1060	0.785774	216.095	16069.2
312	1070	0.792618	216.723	16917.3
313	1070	0.802956	217.368	17776.5
314	1090	0.809896	218.024	18659.3
315	1090	0.820379	218.697	19553.5
316	1140	0.827417	219.382	20496.7
317	1160	0.838054	220.084	21468.9
318	1160	0.848786	220.804	22453.5
319	1200	0.855996	221.537	23480.7
320	1210	0.866894	222.289	24529.6
321	1210	0.874218	223.053	25587.4
322	1250	0.885291	223.837	26694
323	1250	0.892733	224.634	27809.9
324	1250	0.903992	225.451	28939.9
325	1270	0.911562	226.282	30097.6
326	1300	0.923014	227.134	31297.5
327	1325	0.930718	228	32530.7
328	1328	0.942375	228.888	33782.2
329	1350	0.950222	229.791	35065
330	1360	0.9621	230.717	36373.5
331	1360	0.970094	231.658	37692.8
332	1375	0.982202	232.622	39043.3

333	1390	0.990356	233.603	40419.9
334	1399	1.00271	234.609	41822.7
335	1400	1.01104	235.631	43238.1
336	1410	1.02365	236.679	44681.5
337	1410	1.03215	237.744	46136.8
338	1412	1.04505	238.836	47612.4
339	1435	1.05375	239.947	49124.6
340	1460	1.06694	241.085	50682.3
341	1500	1.07584	242.242	52296.1
342	1500	1.08935	243.429	53930.1
343	1500	1.09847	244.636	55577.8
344	1509	1.11232	245.873	57256.3
345	1510	1.12639	247.142	58957.1
346	1510	1.1359	248.432	60672.3
347	1520	1.15035	249.755	62420.9
348	1550	1.16012	251.101	64219
349	1553	1.17499	252.482	66043.8
350	1560	1.18504	253.886	67892.5
351	1580	1.20036	255.327	69789
352	1580	1.21073	256.793	71702
353	1584	1.22653	258.297	73644.8
354	1590	1.23724	259.828	75612
355	1600	1.25357	261.399	77617.7
356	1600	1.26464	262.999	79641.1
357	1600	1.28155	264.641	81691.6
358	1610	1.29303	266.313	83773.4
359	1613	1.31058	268.031	85887.4
360	1616	1.32251	269.78	88024.5
361	1630	1.34075	271.577	90210
362	1634	1.35317	273.408	92421.1
363	1650	1.3722	275.291	94685.2
364	1670	1.38517	277.21	96998.4
365	1670	1.40507	279.184	99344.9
366	1674	1.41865	281.197	101720
367	1674	1.43953	283.269	104130
368	1690	1.4538	285.383	106586
369	1699	1.47579	287.56	109094
370	1700	1.49085	289.783	111628
371	1700	1.5141	292.076	114202
372	1730	1.5382	294.442	116863
373	1739	1.55477	296.859	119567
374	1749	1.58047	299.357	122331
375	1749	1.59819	301.911	125127
376	1750	1.62576	304.554	127972
377	1760	1.64485	307.26	130867
378	1769	1.67466	310.064	133829
379	1789	1.6954	312.939	136862
380	1799	1.72793	315.924	139971
381	1800	1.75069	318.989	143122
382	1800	1.78661	322.181	146338
383	1800	1.81191	325.464	149599
384	1800	1.85218	328.895	152933
385	1800	1.88079	332.432	156319
386	1840	1.92684	336.145	159864
387	1874	1.95996	339.986	163537
388	1892	2.01409	344.043	167348
389	1922	2.05375	348.261	171295

390	1999	2.12007	352.756	175533
391	2000	2.17009	357.465	179873
392	2050	2.25713	362.559	184500
393	2099	2.32634	367.971	189383
394	2149	2.45727	374.009	194664
395	2420	2.57583	380.644	200897
396	2440	2.87815	388.928	207920

Data Set Standard Deviation = 628.283

Numerator = 4.32308e+010

Denominator = 6.06426e+010

W Statistic = 0.712878 = 4.32308e+010 / 6.06426e+010

5% Critical value of 0.976 exceeds 0.712878

Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.712878

Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 122.415

Overall Std Dev = 215.252

Overall Total = 48476.5

SS Groups = 7.41801e+006

SS Total = 1.83017e+007

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	7.41801e+006	12	618167	21.7534
Error (within groups)	1.08837e+007	383	28417.1	
Totals	1.83017e+007	395		

95% F-Statistic = 1.75

21.7534 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	2.20333
5/9/2022	0.753333
5/31/2022	0.473333
6/20/2022	0.583333
7/18/2022	0.506667
8/18/2022	0.836667
9/13/2022	0.346667
10/3/2022	1.58667
5/3/2023	0.736667

Group: MW93-1

Sample	Residual
12/15/1994	1.88734
3/14/1995	6.11266
6/21/1995	5.11266
12/14/1995	7.88734
3/6/1996	11.8873
4/25/1996	0.112658
10/2/1996	8.11266
12/10/1996	1.88734
3/11/1997	27.8873
4/15/1997	3.88734
8/14/1997	1.11266
12/4/1997	2.88734
3/31/1998	1.88734
6/23/1998	5.11266
8/11/1998	7.88734
12/8/1998	0.887342
3/9/1999	1.88734
6/8/1999	3.11266
8/19/1999	8.11266

12/14/1999	8.11266
3/7/2000	18.1127
6/23/2000	20.1127
12/12/2000	22.1127
3/27/2001	28.1127
6/28/2001	26.1127
9/10/2001	14.1127
12/18/2001	14.1127
3/19/2002	10.1127
6/26/2002	19.1127
9/18/2002	25.1127
12/11/2002	24.1127
3/13/2003	24.1127
6/25/2003	31.1127
9/26/2003	27.1127
12/10/2003	8.11266
3/9/2004	26.1127
6/24/2004	29.1127
9/15/2004	12.1127
12/15/2004	16.1127
3/16/2005	10.1127
6/15/2005	10.1127
9/21/2005	10.1127
12/21/2005	26.1127
3/15/2006	18.1127
6/21/2006	0.887342
12/20/2006	3.11266
6/12/2007	7.88734
12/17/2007	4.88734
6/11/2008	2.88734
12/3/2008	3.88734
6/17/2009	11.8873
12/9/2009	7.88734
6/17/2010	14.8873
12/22/2010	11.8873
6/29/2011	11.0873
12/7/2011	14.2873
6/6/2012	8.08734
12/12/2012	9.68734
6/19/2013	10.3873
12/11/2013	14.2873
6/11/2014	12.5873
12/3/2014	14.9873
6/17/2015	18.8873
12/1/2015	16.6873
6/22/2016	18.8873
12/20/2016	16.6873
6/6/2017	15.7873
11/7/2017	15.6873
2/27/2018	16.2873
9/27/2018	15.0873
5/7/2019	13.0873
11/21/2019	9.88734
6/25/2020	20.8873
11/17/2020	17.4873
5/26/2021	18.9873
11/17/2021	14.1873

4/8/2022	17.5873
10/4/2022	16.9873
5/4/2023	21.5873

Group: MW03-1

Date	Residual
6/24/2004	7.56368
9/15/2004	4.43632
12/15/2004	11.5637
3/16/2005	13.5637
6/15/2005	11.5637
9/21/2005	12.5637
12/20/2006	12.5637
6/12/2007	13.5637
12/17/2007	14.5637
6/11/2008	6.56368
12/3/2008	6.56368
6/17/2009	13.5637
12/9/2009	14.4363
6/17/2010	12.5637
12/22/2010	8.86368
6/29/2011	12.7037
12/7/2011	11.6837
6/6/2012	8.20368
6/19/2013	12.5637
12/11/2013	12.5637
6/11/2014	26.4363
12/3/2014	12.5637
6/17/2015	12.5637
12/1/2015	16.7867
6/22/2016	16.9357
12/20/2016	16.7777
6/6/2017	16.6767
11/7/2017	16.4337
2/27/2018	16.4937
5/7/2019	11.6637
11/21/2019	392.436
6/25/2020	16.9117
11/17/2020	15.2737
5/26/2021	15.9237
11/16/2021	16.8597
4/8/2022	16.6217
5/3/2023	15.9137

Group: MW03-2

Date	Residual
6/24/2004	102.686
9/15/2004	134.686
12/15/2004	110.686
3/16/2005	108.686
6/15/2005	108.686
9/21/2005	111.686
12/21/2005	112.686
3/15/2006	111.686
6/21/2006	115.686
12/20/2006	103.686
6/12/2007	108.686
12/17/2007	118.686
6/11/2008	97.6864

12/3/2008	92.6864
6/17/2009	78.6864
12/9/2009	93.6864
6/17/2010	105.686
12/22/2010	109.686
6/29/2011	110.286
12/7/2011	115.186
6/6/2012	109.386
12/12/2012	110.386
6/19/2013	106.586
12/11/2013	105.886
6/11/2014	133.686
12/3/2014	87.4864
6/17/2015	83.9864
12/1/2015	70.8864
6/22/2016	58.9864
10/11/2016	50.2864
12/20/2016	12.6864
6/6/2017	21.6864
11/7/2017	149.314
2/27/2018	108.314
9/27/2018	144.314
5/7/2019	174.314
11/21/2019	404.314
6/25/2020	309.314
11/17/2020	296.314
5/26/2021	372.314
11/17/2021	362.314
4/8/2022	301.314
10/3/2022	231.314
5/3/2023	250.314

Group: MW22-02

Date	Residual
4/7/2022	27.7778
5/9/2022	23.7778
5/31/2022	48.7778
6/20/2022	6.77778
7/19/2022	10.2222
8/18/2022	37.2222
9/13/2022	34.2222
10/3/2022	59.2222
5/4/2023	33.7778

Group: MW22-03

Date	Residual
4/7/2022	754.556
5/9/2022	356.556
5/31/2022	546.444
6/20/2022	1146.44
7/19/2022	1126.44
8/18/2022	435.556
9/13/2022	467.556
10/4/2022	1161.56
5/4/2023	356.444

Group: MW22-04

Date	Residual
4/7/2022	4.48
5/9/2022	6.72

5/31/2022	13.82
6/20/2022	4.48
6/20/2022	2.98
7/18/2022	1.18
8/18/2022	1.22
9/13/2022	3.42
10/4/2022	6.32
5/4/2023	18.38

Group: MW22-05

Date	Residual
4/7/2022	85.2
5/9/2022	55.2
5/31/2022	14.8
6/20/2022	484.8
7/18/2022	54.8
8/18/2022	5.2
9/13/2022	55.2
10/3/2022	75.2
5/3/2023	173.2
5/3/2023	105.2

Group: MW22-06

Date	Residual
4/8/2022	4.5
5/9/2022	12.5
5/31/2022	12.5
6/20/2022	9.5
7/18/2022	7.5
8/18/2022	8.5
8/18/2022	4.5
9/13/2022	7.5
10/3/2022	13.5
5/3/2023	12.5

Group: MW22-07

Date	Residual
4/8/2022	2.11889
5/9/2022	5.68889
5/31/2022	4.84889
6/20/2022	4.68889
7/19/2022	2.00111
8/18/2022	5.70111
9/13/2022	6.00111
10/4/2022	7.10111
5/4/2023	3.45889

Group: MW22-08

Date	Residual
4/8/2022	27.3
5/9/2022	20.3
5/31/2022	5.7
5/31/2022	3.3
6/20/2022	0.3
7/18/2022	9.7
8/18/2022	16.7
9/13/2022	2.7
10/4/2022	1.7
5/3/2023	14.7

Group: MW93-2

Date	Residual
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12/15/1994	1077.05
3/14/1995	22.9543
6/21/1995	1402.05
12/14/1995	271.954
3/6/1996	196.954
4/25/1996	521.954
10/2/1996	75.9543
12/10/1996	82.9543
3/11/1997	156.954
4/15/1997	222.954
8/14/1997	671.954
12/4/1997	291.954
3/31/1998	522.954
6/23/1998	621.954
8/11/1998	396.954
12/8/1998	444.954
3/9/1999	222.954
6/8/1999	261.954
8/19/1999	322.954
12/14/1999	322.954
3/7/2000	149.046
6/23/2000	527.046
12/12/2000	311.954
3/27/2001	271.954
6/28/2001	321.954
9/10/2001	572.954
12/18/2001	122.954
3/19/2002	252.954
6/26/2002	221.954
9/18/2002	196.954
12/11/2002	135.954
3/13/2003	32.9543
6/25/2003	322.954
9/26/2003	138.954
12/10/2003	31.9543
3/9/2004	322.954
6/24/2004	414.954
9/15/2004	42.0457
12/15/2004	122.954
3/16/2005	152.046
6/15/2005	77.0457
9/21/2005	65.0457
12/21/2005	72.9543
3/15/2006	102.046
6/21/2006	22.9543
12/20/2006	227.046
2/21/2007	227.046
6/12/2007	127.046
12/17/2007	78.0457
6/11/2008	267.046
12/3/2008	106.954
6/17/2009	727.046
12/9/2009	602.046
6/17/2010	22.9543
12/22/2010	122.954
6/29/2011	192.954
12/7/2011	32.9543

6/6/2012	132.954
12/12/2012	272.954
6/19/2013	87.0457
12/11/2013	67.0457
6/11/2014	117.046
12/3/2014	42.9543
6/17/2015	1429.35
12/1/2015	282.954
6/22/2016	177.046
12/20/2016	212.954
6/6/2017	102.954
11/7/2017	317.046
2/27/2018	207.046
9/27/2018	227.046
5/7/2019	117.046
11/21/2019	1472.05
6/25/2020	1368.05
11/16/2020	267.046
5/26/2021	192.954
11/17/2021	322.954
4/8/2022	17.0457
10/4/2022	102.954
10/4/2022	112.954
5/4/2023	67.0457

Group: MW93-3

Date	Residual
12/15/1994	182.406
3/14/1995	162.406
6/21/1995	162.406
12/14/1995	148.406
3/6/1996	110.406
4/25/1996	126.406
10/2/1996	172.406
12/10/1996	119.406
3/11/1997	117.406
4/15/1997	142.406
8/14/1997	658.406
12/4/1997	8.59367
3/31/1998	17.4063
6/23/1998	11.5937
8/11/1998	242.406
12/8/1998	2.40633
3/9/1999	22.4063
6/8/1999	43.5937
8/19/1999	2.40633
12/14/1999	57.5937
3/7/2000	25.5937
6/23/2000	12.4063
12/12/2000	61.5937
3/27/2001	67.5937
6/28/2001	77.5937
9/10/2001	55.5937
12/18/2001	108.594
3/19/2002	54.5937
6/26/2002	77.5937
9/18/2002	72.5937
12/11/2002	79.5937

3/13/2003	50.5937
6/25/2003	67.5937
9/26/2003	99.5937
12/10/2003	117.594
3/9/2004	244.594
6/24/2004	97.5937
9/15/2004	118.594
12/15/2004	135.594
3/16/2005	77.5937
6/15/2005	107.594
9/21/2005	42.5937
12/21/2005	77.5937
3/15/2006	36.5937
6/21/2006	47.5937
12/20/2006	47.5937
6/12/2007	147.594
12/17/2007	126.594
6/11/2008	113.594
12/3/2008	105.594
6/17/2009	137.594
12/9/2009	82.5937
6/17/2010	107.594
12/22/2010	87.5937
6/29/2011	87.5937
12/7/2011	158.694
6/6/2012	63.5937
12/12/2012	89.5937
6/19/2013	63.5937
12/11/2013	84.5937
6/11/2014	3.59367
12/3/2014	63.5937
6/17/2015	89.5937
12/1/2015	22.4063
6/22/2016	260.406
12/20/2016	217.406
6/6/2017	144.594
11/7/2017	144.406
2/27/2018	177.406
9/27/2018	168.406
5/7/2019	163.406
11/21/2019	812.406
6/25/2020	114.594
11/16/2020	70.5937
5/26/2021	25.5937
11/17/2021	74.5937
4/8/2022	26.5937
10/4/2022	71.5937
5/3/2023	55.5937

Concentrations (ppb)

Parameter: Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 161

Total Non-Detect: 159

Percent Non-Detects: 98.7578%

Total Background Measurements: 25

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	9 (100%)	4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
MW93-1	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.02	ND<0.02
			11/17/2020	ND<0.02	ND<0.02
			5/26/2021	ND<0.02	ND<0.02
			11/17/2021	ND<0.02	ND<0.02
			4/8/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
5/4/2023	ND<0.02	ND<0.02			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	15	13 (86.6667%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	0.0808	0.0808
			8/22/2018	0.38	0.38
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.02	ND<0.02
			11/17/2020	ND<0.02	ND<0.02
			5/26/2021	ND<0.02	ND<0.02
			11/16/2021	ND<0.02	ND<0.02
			4/8/2022	ND<0.02	ND<0.02

			5/3/2023	ND<0.02	ND<0.02
MW03-2	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.02	ND<0.02
			11/17/2020	ND<0.02	ND<0.02
			5/26/2021	ND<0.02	ND<0.02
			11/17/2021	ND<0.02	ND<0.02
			4/8/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
MW22-02	9	9 (100%)	4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/4/2023	ND<0.02	ND<0.02
MW22-03	9	9 (100%)	4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/4/2023	ND<0.02	ND<0.02
MW22-04	9	9 (100%)	4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/4/2023	ND<0.02	ND<0.02
MW22-05	18	18 (100%)	4/8/2022	ND<0.02	ND<0.02
			4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02

			7/18/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
MW22-06	9	9 (100%)	4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
MW22-07	9	9 (100%)	4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/4/2023	ND<0.02	ND<0.02
MW22-08	9	9 (100%)	4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
MW93-2	17	17 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.02	ND<0.02
			11/16/2020	ND<0.02	ND<0.02
			5/26/2021	ND<0.02	ND<0.02
			11/17/2021	ND<0.02	ND<0.02
			4/8/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02

			5/4/2023	ND<0.02	ND<0.02
MW93-3	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.02	ND<0.02
			11/16/2020	ND<0.02	ND<0.02
			5/26/2021	ND<0.02	ND<0.02
			11/17/2021	ND<0.02	ND<0.02
			4/8/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.7578%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 25

Maximum Background Value = 0.02

Confidence Level = 75.8%

False Positive Rate = 24.2%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	0.02	FALSE
MW03-2	5/3/2023	1	0.02	FALSE
MW22-02	5/4/2023	1	0.02	FALSE
MW22-03	5/4/2023	1	0.02	FALSE
MW22-04	5/4/2023	1	0.02	FALSE
MW22-05	5/3/2023	2	0.02	FALSE
MW22-06	5/3/2023	1	0.02	FALSE
MW22-07	5/4/2023	1	0.02	FALSE
MW22-08	5/3/2023	1	0.02	FALSE
MW93-2	5/4/2023	1	0.02	FALSE
MW93-3	5/3/2023	1	0.02	FALSE

Shapiro-Francia Test of Normality

Parameter: Chromium

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 161

i	x(i)	m(i)	sum(m²)	sum(mx)
1	0.01	-2.51213	6.31081	-0.0251213
2	0.01	-2.25713	11.4054	-0.0476926
3	0.01	-2.09693	15.8026	-0.0686619
4	0.01	-1.97737	19.7126	-0.0884356
5	0.01	-1.88079	23.2499	-0.107244
6	0.01	-1.78661	26.4419	-0.12511
7	0.01	-1.71688	29.3896	-0.142278
8	0.01	-1.65463	32.1274	-0.158825
9	0.01	-1.59819	34.6816	-0.174807
10	0.01	-1.54643	37.0731	-0.190271
11	0.01	-1.49852	39.3186	-0.205256
12	0.01	-1.44663	41.4113	-0.219722
13	0.01	-1.40507	43.3856	-0.233773
14	0.01	-1.36581	45.251	-0.247431
15	0.01	-1.32854	47.016	-0.260717
16	0.01	-1.29303	48.688	-0.273647
17	0.01	-1.25908	50.2733	-0.286238
18	0.01	-1.22123	51.7647	-0.29845
19	0.01	-1.19012	53.181	-0.310351
20	0.01	-1.16012	54.5269	-0.321953
21	0.01	-1.13113	55.8064	-0.333264
22	0.01	-1.10306	57.0231	-0.344294
23	0.01	-1.07584	58.1805	-0.355053
24	0.01	-1.04505	59.2727	-0.365503
25	0.01	-1.01943	60.3119	-0.375698
26	0.01	-0.994457	61.3009	-0.385642
27	0.01	-0.970094	62.2419	-0.395343
28	0.01	-0.946291	63.1374	-0.404806
29	0.01	-0.919183	63.9823	-0.413998
30	0.01	-0.896473	64.786	-0.422963
31	0.01	-0.874218	65.5502	-0.431705
32	0.01	-0.852385	66.2768	-0.440229
33	0.01	-0.830953	66.9673	-0.448538
34	0.01	-0.809896	67.6232	-0.456637
35	0.01	-0.785774	68.2406	-0.464495
36	0.01	-0.765456	68.8266	-0.472149
37	0.01	-0.745449	69.3823	-0.479604
38	0.01	-0.725736	69.9089	-0.486861
39	0.01	-0.706302	70.4078	-0.493924
40	0.01	-0.687131	70.88	-0.500796
41	0.01	-0.665079	71.3223	-0.507446
42	0.01	-0.646431	71.7402	-0.513911
43	0.01	-0.628006	72.1346	-0.520191
44	0.02	-0.609791	72.5064	-0.532387
45	0.02	-0.591776	72.8566	-0.544222
46	0.02	-0.573953	73.186	-0.555701
47	0.02	-0.553384	73.4923	-0.566769

48	0.02	-0.53594	73.7795	-0.577488
49	0.02	-0.518658	74.0485	-0.587861
50	0.02	-0.501527	74.3	-0.597891
51	0.02	-0.484544	74.5348	-0.607582
52	0.02	-0.467699	74.7535	-0.616936
53	0.02	-0.448213	74.9544	-0.6259
54	0.02	-0.431644	75.1408	-0.634533
55	0.02	-0.415193	75.3131	-0.642837
56	0.02	-0.398855	75.4722	-0.650814
57	0.02	-0.382622	75.6186	-0.658467
58	0.02	-0.363809	75.751	-0.665743
59	0.02	-0.347787	75.8719	-0.672699
60	0.02	-0.331854	75.9821	-0.679336
61	0.02	-0.316004	76.0819	-0.685656
62	0.02	-0.300232	76.1721	-0.69166
63	0.02	-0.284535	76.253	-0.697351
64	0.02	-0.266311	76.3239	-0.702677
65	0.02	-0.250759	76.3868	-0.707693
66	0.02	-0.235269	76.4422	-0.712398
67	0.02	-0.219834	76.4905	-0.716795
68	0.02	-0.204452	76.5323	-0.720884
69	0.02	-0.189118	76.5681	-0.724666
70	0.02	-0.171285	76.5974	-0.728092
71	0.02	-0.156042	76.6218	-0.731213
72	0.02	-0.140835	76.6416	-0.734029
73	0.02	-0.125661	76.6574	-0.736543
74	0.02	-0.110516	76.6696	-0.738753
75	0.02	-0.0953969	76.6787	-0.740661
76	0.02	-0.0777834	76.6847	-0.742216
77	0.02	-0.0627062	76.6887	-0.743471
78	0.02	-0.0476439	76.691	-0.744423
79	0.02	-0.0325917	76.692	-0.745075
80	0.02	-0.0175476	76.6923	-0.745426
81	0.02	0	76.6923	-0.745426
82	0.02	0.0175476	76.6926	-0.745075
83	0.02	0.0325917	76.6937	-0.744423
84	0.02	0.0476439	76.696	-0.743471
85	0.02	0.0627062	76.6999	-0.742216
86	0.02	0.0777834	76.7059	-0.740661
87	0.02	0.0953969	76.715	-0.738753
88	0.02	0.110516	76.7273	-0.736543
89	0.02	0.125661	76.743	-0.734029
90	0.02	0.140835	76.7629	-0.731213
91	0.02	0.156042	76.7872	-0.728092
92	0.02	0.171285	76.8166	-0.724666
93	0.02	0.189118	76.8523	-0.720884
94	0.02	0.204452	76.8941	-0.716795
95	0.02	0.219834	76.9425	-0.712398
96	0.02	0.235269	76.9978	-0.707693
97	0.02	0.250759	77.0607	-0.702677
98	0.02	0.266311	77.1316	-0.697351
99	0.02	0.284535	77.2126	-0.69166
100	0.02	0.300232	77.3027	-0.685656
101	0.02	0.316004	77.4026	-0.679336
102	0.02	0.331854	77.5127	-0.672699
103	0.02	0.347787	77.6337	-0.665743
104	0.02	0.363809	77.766	-0.658467

105	0.02	0.382622	77.9124	-0.650814
106	0.02	0.398855	78.0715	-0.642837
107	0.02	0.415193	78.2439	-0.634533
108	0.02	0.431644	78.4302	-0.6259
109	0.02	0.448213	78.6311	-0.616936
110	0.02	0.467699	78.8498	-0.607582
111	0.02	0.484544	79.0846	-0.597891
112	0.02	0.501527	79.3362	-0.587861
113	0.02	0.518658	79.6052	-0.577488
114	0.02	0.53594	79.8924	-0.566769
115	0.02	0.553384	80.1986	-0.555701
116	0.02	0.573953	80.528	-0.544222
117	0.02	0.591776	80.8782	-0.532387
118	0.02	0.609791	81.2501	-0.520191
119	0.02	0.628006	81.6445	-0.507631
120	0.02	0.646431	82.0624	-0.494702
121	0.02	0.665079	82.5047	-0.4814
122	0.02	0.687131	82.9768	-0.467658
123	0.02	0.706302	83.4757	-0.453532
124	0.02	0.725736	84.0024	-0.439017
125	0.02	0.745449	84.5581	-0.424108
126	0.02	0.765456	85.144	-0.408799
127	0.02	0.785774	85.7614	-0.393083
128	0.02	0.809896	86.4174	-0.376886
129	0.02	0.830953	87.1079	-0.360266
130	0.02	0.852385	87.8344	-0.343219
131	0.02	0.874218	88.5987	-0.325734
132	0.02	0.896473	89.4023	-0.307805
133	0.02	0.919183	90.2472	-0.289421
134	0.02	0.946291	91.1427	-0.270495
135	0.02	0.970094	92.0838	-0.251094
136	0.02	0.994457	93.0727	-0.231204
137	0.02	1.01943	94.112	-0.210816
138	0.02	1.04505	95.2041	-0.189915
139	0.02	1.07584	96.3615	-0.168398
140	0.02	1.10306	97.5783	-0.146337
141	0.02	1.13113	98.8577	-0.123714
142	0.02	1.16012	100.204	-0.100512
143	0.02	1.19012	101.62	-0.0767095
144	0.02	1.22123	103.111	-0.0522849
145	0.02	1.25908	104.697	-0.0271032
146	0.02	1.29303	106.369	-0.00124257
147	0.02	1.32854	108.134	0.0253282
148	0.02	1.36581	109.999	0.0526444
149	0.02	1.40507	111.973	0.0807458
150	0.02	1.44663	114.066	0.109678
151	0.02	1.49852	116.312	0.139649
152	0.02	1.54643	118.703	0.170577
153	0.02	1.59819	121.257	0.202541
154	0.02	1.65463	123.995	0.235634
155	0.02	1.71688	126.943	0.269971
156	0.02	1.78661	130.135	0.305704
157	0.02	1.88079	133.672	0.343319
158	0.02	1.97737	137.582	0.382867
159	0.02	2.09693	141.979	0.424805
160	0.0808	2.25713	147.074	0.607182
161	0.38	2.51213	153.385	1.56179

Data Set Standard Deviation = 0.0293253
Numerator = 2.4392
Denominator = 21.1051
W Statistic = 0.115574 = 2.4392 / 21.1051

**5% Critical value of 0.976 exceeds 0.115574
Evidence of non-normality at 95% level of significance**

**1% Critical value of 0.967 exceeds 0.115574
Evidence of non-normality at 99% level of significance**

Levene's Test for Equal of Variance

Parameter: Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.00663981

Overall Std Dev = 0.0274203

Overall Total = 1.06901

SS Groups = 0.0317924

SS Total = 0.120299

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	0.0317924	12	0.00264937	4.43024
Error (within groups)	0.0885069	148	0.00059802	
Totals	0.120299	160		

95% F-Statistic = 1.75

4.43024 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01	Sample	Residual
	4/8/2022	0
	5/9/2022	0
	5/31/2022	0
	6/20/2022	0
	7/18/2022	0
	8/18/2022	0
	9/13/2022	0
	10/3/2022	0
	5/3/2023	0

Group: MW93-1	Sample	Residual
	5/24/2018	0.004375
	6/19/2018	0.004375
	7/19/2018	0.004375
	8/22/2018	0.004375
	9/19/2018	0.004375
	10/18/2018	0.004375
	11/20/2018	0.004375
	12/20/2018	0.004375
	11/21/2019	0.004375
	6/25/2020	0.005625
	11/17/2020	0.005625
	5/26/2021	0.005625
	11/17/2021	0.005625
	4/8/2022	0.005625
	10/4/2022	0.005625
	5/4/2023	0.005625

Group: MW03-1	Date	Residual
	5/24/2018	0.0333867

6/19/2018	0.0333867
7/19/2018	0.0374133
8/22/2018	0.336613
10/18/2018	0.0333867
11/20/2018	0.0333867
12/20/2018	0.0333867
3/26/2019	0.0333867
11/21/2019	0.0333867
6/25/2020	0.0233867
11/17/2020	0.0233867
5/26/2021	0.0233867
11/16/2021	0.0233867
4/8/2022	0.0233867
5/3/2023	0.0233867

Group: MW03-2

Date	Residual
5/24/2018	0.004375
6/19/2018	0.004375
7/19/2018	0.004375
8/22/2018	0.004375
9/19/2018	0.004375
10/18/2018	0.004375
11/20/2018	0.004375
12/20/2018	0.004375
11/21/2019	0.004375
6/25/2020	0.005625
11/17/2020	0.005625
5/26/2021	0.005625
11/17/2021	0.005625
4/8/2022	0.005625
10/4/2022	0.005625
5/3/2023	0.005625

Group: MW22-02

Date	Residual
4/8/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/18/2022	0
8/18/2022	0
9/13/2022	0
10/3/2022	0
5/4/2023	0

Group: MW22-03

Date	Residual
4/8/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/18/2022	0
8/18/2022	0
9/13/2022	0
10/3/2022	0
5/4/2023	0

Group: MW22-04

Date	Residual
4/8/2022	0

5/9/2022	0
5/31/2022	0
6/20/2022	0
7/18/2022	0
8/18/2022	0
9/13/2022	0
10/3/2022	0
5/4/2023	0

Group: MW22-05

Date	Residual
4/8/2022	3.46945e-018
4/8/2022	3.46945e-018
5/9/2022	3.46945e-018
5/9/2022	3.46945e-018
5/31/2022	3.46945e-018
5/31/2022	3.46945e-018
6/20/2022	3.46945e-018
6/20/2022	3.46945e-018
7/18/2022	3.46945e-018
7/18/2022	3.46945e-018
8/18/2022	3.46945e-018
8/18/2022	3.46945e-018
9/13/2022	3.46945e-018
9/13/2022	3.46945e-018
10/3/2022	3.46945e-018
10/3/2022	3.46945e-018
5/3/2023	3.46945e-018
5/3/2023	3.46945e-018

Group: MW22-06

Date	Residual
4/8/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/18/2022	0
8/18/2022	0
9/13/2022	0
10/3/2022	0
5/3/2023	0

Group: MW22-07

Date	Residual
4/8/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/18/2022	0
8/18/2022	0
9/13/2022	0
10/3/2022	0
5/4/2023	0

Group: MW22-08

Date	Residual
4/8/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/18/2022	0

8/18/2022	0
9/13/2022	0
10/3/2022	0
5/3/2023	0

Group: MW93-2

Date	Residual
5/24/2018	0.00470588
6/19/2018	0.00470588
7/19/2018	0.00470588
8/22/2018	0.00470588
9/19/2018	0.00470588
10/18/2018	0.00470588
11/20/2018	0.00470588
12/20/2018	0.00470588
11/21/2019	0.00470588
6/25/2020	0.00529412
11/16/2020	0.00529412
5/26/2021	0.00529412
11/17/2021	0.00529412
4/8/2022	0.00529412
10/4/2022	0.00529412
10/4/2022	0.00529412
5/4/2023	0.00529412

Group: MW93-3

Date	Residual
5/24/2018	0.004375
6/19/2018	0.004375
7/19/2018	0.004375
8/22/2018	0.004375
9/19/2018	0.004375
10/18/2018	0.004375
11/20/2018	0.004375
12/20/2018	0.004375
11/21/2019	0.004375
6/25/2020	0.005625
11/16/2020	0.005625
5/26/2021	0.005625
11/17/2021	0.005625
4/8/2022	0.005625
10/4/2022	0.005625
5/3/2023	0.005625

Concentrations (ppb)

Parameter: Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 156

Total Non-Detect: 95

Percent Non-Detects: 60.8974%

Total Background Measurements: 25

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	0 (0%)	4/7/2022	0.00536	0.00536
			5/9/2022	0.00738	0.00738
			5/31/2022	0.00402	0.00402
			6/20/2022	0.00303	0.00303
			7/18/2022	0.00308	0.00308
			8/18/2022	0.0032	0.0032
			9/13/2022	0.00344	0.00344
			10/3/2022	0.0038	0.0038
			5/3/2023	0.00293	0.00293
MW93-1	16	15 (93.75%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.006	ND<0.006
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	0.000252	0.000252
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	15	11 (73.3333%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	0.0321	0.0321
			8/22/2018	0.115	0.115
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.006	ND<0.006
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	0.000211	0.000211
			5/26/2021	ND<0.002	ND<0.002
			11/16/2021	0.000164	0.000164
			4/8/2022	ND<0.002	ND<0.002

			5/3/2023	ND<0.002	ND<0.002
MW03-2	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.006	ND<0.006
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
5/3/2023	ND<0.002	ND<0.002			
MW22-02	9	1 (11.1111%)	4/7/2022	0.000914	0.000914
			5/9/2022	0.000686	0.000686
			5/31/2022	0.000493	0.000493
			6/20/2022	0.000575	0.000575
			7/19/2022	0.000543	0.000543
			8/18/2022	0.000412	0.000412
			9/13/2022	0.000502	0.000502
			10/3/2022	ND<0.02	ND<0.02
			5/4/2023	0.000434	0.000434
MW22-03	9	0 (0%)	4/7/2022	0.0062	0.0062
			5/9/2022	0.00774	0.00774
			5/31/2022	0.00663	0.00663
			6/20/2022	0.00667	0.00667
			7/19/2022	0.00582	0.00582
			8/18/2022	0.00653	0.00653
			9/13/2022	0.00657	0.00657
			10/4/2022	0.00617	0.00617
			5/4/2023	0.00987	0.00987
MW22-04	10	5 (50%)	4/7/2022	0.000256	0.000256
			5/9/2022	0.000277	0.000277
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	0.000144	0.000144
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	0.000221	0.000221
			10/4/2022	0.000206	0.000206
5/4/2023	ND<0.002	ND<0.002			
MW22-05	10	3 (30%)	4/7/2022	0.00755	0.00755
			5/9/2022	0.00433	0.00433
			5/31/2022	0.00349	0.00349
			6/20/2022	0.00298	0.00298
			7/18/2022	0.00138	0.00138
			8/18/2022	0.000238	0.000238
			9/13/2022	0.000196	0.000196

			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
MW22-06	10	10 (100%)	4/8/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
MW22-07	9	7 (77.7778%)	4/8/2022	0.000229	0.000229
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/19/2022	0.0002	0.0002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
MW22-08	10	0 (0%)	4/8/2022	0.00183	0.00183
			5/9/2022	0.0013	0.0013
			5/31/2022	0.000717	0.000717
			5/31/2022	0.000695	0.000695
			6/20/2022	0.000525	0.000525
			7/18/2022	0.000454	0.000454
			8/18/2022	0.000499	0.000499
			9/13/2022	0.00062	0.00062
			10/4/2022	0.000716	0.000716
			5/3/2023	0.000183	0.000183
MW93-2	17	12 (70.5882%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.006	ND<0.006
			6/25/2020	0.000252	0.000252
			11/16/2020	0.000281	0.000281
			5/26/2021	0.00023	0.00023
			11/17/2021	0.000222	0.000222
			4/8/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
			5/4/2023	0.000234	0.000234
MW93-3	16	15 (93.75%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01

8/22/2018	ND<0.01	ND<0.01
9/19/2018	ND<0.01	ND<0.01
10/18/2018	ND<0.01	ND<0.01
11/20/2018	ND<0.01	ND<0.01
12/20/2018	ND<0.01	ND<0.01
11/21/2019	ND<0.006	ND<0.006
6/25/2020	ND<0.002	ND<0.002
11/16/2020	ND<0.002	ND<0.002
5/26/2021	ND<0.002	ND<0.002
11/17/2021	ND<0.002	ND<0.002
4/8/2022	ND<0.002	ND<0.002
10/4/2022	0.000143	0.000143
5/3/2023	ND<0.002	ND<0.002

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 57.1429%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 9

Maximum Background Value = 0.00738

Confidence Level = 52.9%

False Positive Rate = 47.1%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	0.002	FALSE
MW03-2	5/3/2023	1	0.002	FALSE
MW22-02	5/4/2023	1	0.000434	FALSE
MW22-03	5/4/2023	1	0.00987	TRUE
MW22-04	5/4/2023	1	0.002	FALSE
MW22-05	5/3/2023	2	0.002	FALSE
MW22-06	5/3/2023	1	0.002	FALSE
MW22-07	5/4/2023	1	0.002	FALSE
MW22-08	5/3/2023	1	0.000183	FALSE
MW93-2	5/4/2023	1	0.000234	FALSE
MW93-3	5/3/2023	1	0.002	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.00774

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	0.0062
	5/9/2022	0.00774
	5/31/2022	0.00663
	6/20/2022	0.00667
	7/19/2022	0.00582
	8/18/2022	0.00653
	9/13/2022	0.00657
	10/4/2022	0.00617

Date	Count	Mean	Significant
5/4/2023	1	0.00987	TRUE

Shapiro-Francia Test of Normality

Parameter: Cobalt

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 156

i	x(i)	m(i)	sum(m²)	sum(mx)
1	0.000143	-2.51213	6.31081	-0.000359235
2	0.000144	-2.25713	11.4054	-0.000684262
3	0.000164	-2.07485	15.7104	-0.00102454
4	0.000183	-1.95996	19.5519	-0.00138321
5	0.000196	-1.86629	23.0349	-0.001749
6	0.0002	-1.77438	26.1834	-0.00210388
7	0.000206	-1.70604	29.0939	-0.00245532
8	0.000211	-1.64485	31.7995	-0.00280239
9	0.000221	-1.58047	34.2974	-0.00315167
10	0.000222	-1.53007	36.6385	-0.00349135
11	0.000229	-1.47579	38.8164	-0.0038293
12	0.00023	-1.4325	40.8685	-0.00415878
13	0.000234	-1.39175	42.8054	-0.00448445
14	0.000238	-1.34694	44.6197	-0.00480502
15	0.000252	-1.31058	46.3373	-0.00513528
16	0.000252	-1.27588	47.9652	-0.0054568
17	0.000256	-1.23724	49.4959	-0.00577354
18	0.000277	-1.20553	50.9492	-0.00610747
19	0.000281	-1.17	52.3181	-0.00643624
20	0.000412	-1.14069	53.6193	-0.0069062
21	0.000434	-1.11232	54.8565	-0.00738895
22	0.000454	-1.08032	56.0236	-0.00787941
23	0.000493	-1.05375	57.134	-0.00839891
24	0.000499	-1.02789	58.1906	-0.00891183
25	0.000502	-0.998575	59.1877	-0.00941311
26	0.000525	-0.974114	60.1366	-0.00992452
27	0.000543	-0.950222	61.0395	-0.0104405
28	0.000575	-0.923014	61.8915	-0.0109712
29	0.00062	-0.900227	62.7019	-0.0115294
30	0.000686	-0.874218	63.4662	-0.0121291
31	0.000695	-0.852385	64.1927	-0.0127215
32	0.000716	-0.830953	64.8832	-0.0133165
33	0.000717	-0.806422	65.5335	-0.0138947
34	0.000914	-0.785774	66.151	-0.0146129
35	0.0013	-0.765456	66.7369	-0.0156079
36	0.00138	-0.742143	67.2877	-0.0166321
37	0.00183	-0.722479	67.8096	-0.0179542
38	0.002	-0.699883	68.2995	-0.019354
39	0.002	-0.680797	68.763	-0.0207156
40	0.002	-0.661955	69.2011	-0.0220395
41	0.002	-0.640266	69.6111	-0.02332
42	0.002	-0.621911	69.9979	-0.0245639
43	0.002	-0.603765	70.3624	-0.0257714
44	0.002	-0.582841	70.7021	-0.0269371
45	0.002	-0.565108	71.0214	-0.0280673
46	0.002	-0.547551	71.3213	-0.0291624
47	0.002	-0.52728	71.5993	-0.030217

48	0.002	-0.510074	71.8595	-0.0312371
49	0.002	-0.490189	72.0997	-0.0322175
50	0.002	-0.473299	72.3238	-0.0331641
51	0.002	-0.456542	72.5322	-0.0340772
52	0.002	-0.437153	72.7233	-0.0349515
53	0.002	-0.420664	72.9002	-0.0357928
54	0.002	-0.40429	73.0637	-0.0366014
55	0.002	-0.385321	73.2122	-0.037372
56	0.002	-0.369171	73.3485	-0.0381104
57	0.002	-0.350451	73.4713	-0.0388113
58	0.002	-0.334503	73.5832	-0.0394803
59	0.002	-0.318639	73.6847	-0.0401175
60	0.002	-0.300232	73.7748	-0.040718
61	0.002	-0.284535	73.8558	-0.0412871
62	0.002	-0.268908	73.9281	-0.0418249
63	0.002	-0.250759	73.991	-0.0423264
64	0.002	-0.235269	74.0463	-0.042797
65	0.002	-0.217267	74.0935	-0.0432315
66	0.002	-0.201894	74.1343	-0.0436353
67	0.002	-0.186567	74.1691	-0.0440084
68	0.002	-0.168741	74.1976	-0.0443459
69	0.002	-0.153505	74.2211	-0.0446529
70	0.002	-0.138305	74.2403	-0.0449295
71	0.002	-0.12061	74.2548	-0.0451707
72	0.002	-0.105474	74.2659	-0.0453817
73	0.002	-0.0903606	74.2741	-0.0455624
74	0.002	-0.0727562	74.2794	-0.0457079
75	0.002	-0.0576847	74.2827	-0.0458233
76	0.002	-0.0401167	74.2843	-0.0459035
77	0.002	-0.0250691	74.285	-0.0459537
78	0.002	-0.0100272	74.2851	-0.0459737
79	0.002	0.0100272	74.2852	-0.0459537
80	0.002	0.0250691	74.2858	-0.0459035
81	0.002	0.0401167	74.2874	-0.0458233
82	0.002	0.0576847	74.2907	-0.0457079
83	0.002	0.0727562	74.296	-0.0455624
84	0.002	0.0903606	74.3042	-0.0453817
85	0.002	0.105474	74.3153	-0.0451707
86	0.002	0.12061	74.3299	-0.0449295
87	0.00293	0.138305	74.349	-0.0445243
88	0.00298	0.153505	74.3726	-0.0440668
89	0.00303	0.168741	74.401	-0.0435555
90	0.00308	0.186567	74.4358	-0.0429809
91	0.0032	0.201894	74.4766	-0.0423349
92	0.00344	0.217267	74.5238	-0.0415875
93	0.00349	0.235269	74.5792	-0.0407664
94	0.0038	0.250759	74.642	-0.0398135
95	0.00402	0.268908	74.7143	-0.0387325
96	0.00433	0.284535	74.7953	-0.0375004
97	0.00536	0.300232	74.8854	-0.0358912
98	0.00582	0.318639	74.987	-0.0340367
99	0.006	0.334503	75.0989	-0.0320297
100	0.006	0.350451	75.2217	-0.029927
101	0.006	0.369171	75.358	-0.027712
102	0.006	0.385321	75.5064	-0.0254
103	0.006	0.40429	75.6699	-0.0229743
104	0.00617	0.420664	75.8469	-0.0203788

105	0.0062	0.437153	76.038	-0.0176685
106	0.00653	0.456542	76.2464	-0.0146872
107	0.00657	0.473299	76.4704	-0.0115777
108	0.00663	0.490189	76.7107	-0.0083277
109	0.00667	0.510074	76.9709	-0.00492551
110	0.00738	0.52728	77.2489	-0.00103419
111	0.00755	0.547551	77.5487	0.00309982
112	0.00774	0.565108	77.868	0.00747376
113	0.00987	0.582841	78.2077	0.0132264
114	0.01	0.603765	78.5723	0.019264
115	0.01	0.621911	78.9591	0.0254832
116	0.01	0.640266	79.369	0.0318858
117	0.01	0.661955	79.8072	0.0385054
118	0.01	0.680797	80.2707	0.0453133
119	0.01	0.699883	80.7605	0.0523122
120	0.01	0.722479	81.2825	0.059537
121	0.01	0.742143	81.8332	0.0669584
122	0.01	0.765456	82.4192	0.0746129
123	0.01	0.785774	83.0366	0.0824707
124	0.01	0.806422	83.6869	0.0905349
125	0.01	0.830953	84.3774	0.0988444
126	0.01	0.852385	85.104	0.107368
127	0.01	0.874218	85.8682	0.11611
128	0.01	0.900227	86.6786	0.125113
129	0.01	0.923014	87.5306	0.134343
130	0.01	0.950222	88.4335	0.143845
131	0.01	0.974114	89.3824	0.153586
132	0.01	0.998575	90.3796	0.163572
133	0.01	1.02789	91.4361	0.173851
134	0.01	1.05375	92.5465	0.184388
135	0.01	1.08032	93.7136	0.195192
136	0.01	1.11232	94.9509	0.206315
137	0.01	1.14069	96.252	0.217722
138	0.01	1.17	97.6209	0.229422
139	0.01	1.20553	99.0742	0.241477
140	0.01	1.23724	100.605	0.253849
141	0.01	1.27588	102.233	0.266608
142	0.01	1.31058	103.95	0.279714
143	0.01	1.34694	105.765	0.293183
144	0.01	1.39175	107.702	0.307101
145	0.01	1.4325	109.754	0.321426
146	0.01	1.47579	111.932	0.336184
147	0.01	1.53007	114.273	0.351484
148	0.01	1.58047	116.771	0.367289
149	0.01	1.64485	119.476	0.383737
150	0.01	1.70604	122.387	0.400798
151	0.01	1.77438	125.535	0.418542
152	0.02	1.86629	129.018	0.455868
153	0.02	1.95996	132.86	0.495067
154	0.02	2.07485	137.165	0.536564
155	0.0321	2.25713	142.259	0.609018
156	0.115	2.51213	148.57	0.897913

Data Set Standard Deviation = 0.0100715
 Numerator = 0.806248
 Denominator = 2.3359

W Statistic = 0.345155 = 0.806248 / 2.3359

**5% Critical value of 0.976 exceeds 0.345155
Evidence of non-normality at 95% level of significance**

**1% Critical value of 0.967 exceeds 0.345155
Evidence of non-normality at 99% level of significance**

Levene's Test for Equal of Variance

Parameter: Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.00379281

Overall Std Dev = 0.00851087

Overall Total = 0.591678

SS Groups = 0.00278565

SS Total = 0.0112274

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	0.00278565	12	0.000232138	3.93231
Error (within groups)	0.00844176	143	5.90333e-005	
Totals	0.0112274	155		

95% F-Statistic = 1.75

3.93231 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	0.00133333
5/9/2022	0.00335333
5/31/2022	6.66667e-006
6/20/2022	0.000996667
7/18/2022	0.000946667
8/18/2022	0.000826667
9/13/2022	0.000586667
10/3/2022	0.000226667
5/3/2023	0.00109667

Group: MW93-1

Sample	Residual
5/24/2018	0.00385925
6/19/2018	0.00385925
7/19/2018	0.00385925
8/22/2018	0.00385925
9/19/2018	0.00385925
10/18/2018	0.00385925
11/20/2018	0.00385925
12/20/2018	0.00385925
11/21/2019	0.00014075
6/25/2020	0.00414075
11/17/2020	0.00588875
5/26/2021	0.00414075
11/17/2021	0.00414075
4/8/2022	0.00414075
10/4/2022	0.00414075
5/4/2023	0.00414075

Group: MW03-1

Date	Residual
5/24/2018	0.004765

6/19/2018	0.004765
7/19/2018	0.017335
8/22/2018	0.100235
10/18/2018	0.004765
11/20/2018	0.004765
12/20/2018	0.004765
3/26/2019	0.004765
11/21/2019	0.008765
6/25/2020	0.012765
11/17/2020	0.014554
5/26/2021	0.012765
11/16/2021	0.014601
4/8/2022	0.012765
5/3/2023	0.012765

Group: MW03-2

Date	Residual
5/24/2018	0.00375
6/19/2018	0.00375
7/19/2018	0.00375
8/22/2018	0.00375
9/19/2018	0.00375
10/18/2018	0.00375
11/20/2018	0.00375
12/20/2018	0.00375
11/21/2019	0.00025
6/25/2020	0.00425
11/17/2020	0.00425
5/26/2021	0.00425
11/17/2021	0.00425
4/8/2022	0.00425
10/3/2022	0.00425
5/3/2023	0.00425

Group: MW22-02

Date	Residual
4/7/2022	0.00181478
5/9/2022	0.00204278
5/31/2022	0.00223578
6/20/2022	0.00215378
7/19/2022	0.00218578
8/18/2022	0.00231678
9/13/2022	0.00222678
10/3/2022	0.0172712
5/4/2023	0.00229478

Group: MW22-03

Date	Residual
4/7/2022	0.000711111
5/9/2022	0.000828889
5/31/2022	0.000281111
6/20/2022	0.000241111
7/19/2022	0.00109111
8/18/2022	0.000381111
9/13/2022	0.000341111
10/4/2022	0.000741111
5/4/2023	0.00295889

Group: MW22-04

Date	Residual
4/7/2022	0.0008544

5/9/2022	0.0008334
5/31/2022	0.0008896
6/20/2022	0.0009664
6/20/2022	0.0008896
7/18/2022	0.0008896
8/18/2022	0.0008896
9/13/2022	0.0008894
10/4/2022	0.0009044
5/4/2023	0.0008896

Group: MW22-05

Date	Residual
4/7/2022	0.0049336
5/9/2022	0.0017136
5/31/2022	0.0008736
6/20/2022	0.0003636
7/18/2022	0.0012364
8/18/2022	0.0023784
9/13/2022	0.0024204
10/3/2022	0.0006164
5/3/2023	0.0006164
5/3/2023	0.0006164

Group: MW22-06

Date	Residual
4/8/2022	4.33681e-019
5/9/2022	4.33681e-019
5/31/2022	4.33681e-019
6/20/2022	4.33681e-019
7/18/2022	4.33681e-019
8/18/2022	4.33681e-019
8/18/2022	4.33681e-019
9/13/2022	4.33681e-019
10/3/2022	4.33681e-019
5/3/2023	4.33681e-019

Group: MW22-07

Date	Residual
4/8/2022	0.00137422
5/9/2022	0.000396778
5/31/2022	0.000396778
6/20/2022	0.000396778
7/19/2022	0.00140322
8/18/2022	0.000396778
9/13/2022	0.000396778
10/4/2022	0.000396778
5/4/2023	0.000396778

Group: MW22-08

Date	Residual
4/8/2022	0.0010761
5/9/2022	0.0005461
5/31/2022	3.69e-005
5/31/2022	5.89e-005
6/20/2022	0.0002289
7/18/2022	0.0002999
8/18/2022	0.0002549
9/13/2022	0.0001339
10/4/2022	3.79e-005
5/3/2023	0.0005709

Group: MW93-2

Date	Residual
5/24/2018	0.00239888
6/19/2018	0.00239888
7/19/2018	0.00239888
8/22/2018	0.00239888
9/19/2018	0.00239888
10/18/2018	0.00239888
11/20/2018	0.00239888
12/20/2018	0.00239888
11/21/2019	0.00160112
6/25/2020	0.00734912
11/16/2020	0.00732012
5/26/2021	0.00737112
11/17/2021	0.00737912
4/8/2022	0.00560112
10/4/2022	0.0123989
10/4/2022	0.0123989
5/4/2023	0.00736712

Group: MW93-3

Date	Residual
5/24/2018	0.00386606
6/19/2018	0.00386606
7/19/2018	0.00386606
8/22/2018	0.00386606
9/19/2018	0.00386606
10/18/2018	0.00386606
11/20/2018	0.00386606
12/20/2018	0.00386606
11/21/2019	0.000133938
6/25/2020	0.00413394
11/16/2020	0.00413394
5/26/2021	0.00413394
11/17/2021	0.00413394
4/8/2022	0.00413394
10/4/2022	0.00599094
5/3/2023	0.00413394

Concentrations (ppb)

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 394

Total Non-Detect: 0

Percent Non-Detects: 0%

Total Background Measurements: 87

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	0 (0%)	4/7/2022	1690	1690
			5/9/2022	1620	1620
			5/31/2022	1510	1510
			6/20/2022	1420	1420
			7/18/2022	1440	1440
			8/18/2022	1420	1420
			9/13/2022	1450	1450
			10/3/2022	1320	1320
			5/3/2023	1440	1440
MW93-1	78	0 (0%)	12/15/1994	1080	1080
			3/14/1995	1103	1103
			6/21/1995	1154	1154
			12/14/1995	1109	1109
			3/6/1996	1010	1010
			4/25/1996	1063	1063
			10/2/1996	1169	1169
			12/10/1996	1187	1187
			3/11/1997	1077	1077
			4/15/1997	1070	1070
			8/14/1997	1217	1217
			12/4/1997	1170	1170
			3/31/1998	1092	1092
			6/23/1998	1210	1210
			8/11/1998	1273	1273
			12/8/1998	1888	1888
			3/9/1999	1080	1080
			6/8/1999	1301	1301
			8/19/1999	1301	1301
			12/14/1999	1270	1270
			3/7/2000	1290	1290
			6/23/2000	1393	1393
			12/12/2000	1309	1309
			3/27/2001	1469	1469
			6/28/2001	1560	1560
			9/10/2001	1374	1374
			12/18/2001	1374	1374
			3/19/2002	1326	1326
			6/26/2002	1516	1516
			9/18/2002	1423	1423
12/11/2002	1515	1515			
3/13/2003	1332	1332			
6/25/2003	1608	1608			
9/26/2003	1602	1602			
12/10/2003	1620	1620			

3/9/2004	1630	1630
6/24/2004	1620	1620
9/15/2004	1618	1618
12/15/2004	1586	1586
3/16/2005	1521	1521
6/15/2005	1531	1531
9/21/2005	1441	1441
12/21/2005	1030	1030
3/15/2006	1318	1318
6/21/2006	1547	1547
12/20/2006	1370	1370
6/12/2007	1466	1466
12/17/2007	1327	1327
6/11/2008	1334	1334
12/3/2008	1352	1352
6/17/2009	1301	1301
12/9/2009	1218	1218
6/17/2010	1179	1179
12/22/2010	1270	1270
6/29/2011	1275	1275
12/7/2011	1236	1236
6/6/2012	1185	1185
12/12/2012	1227	1227
6/19/2013	1366	1366
12/11/2013	1329	1329
6/11/2014	1200	1200
12/3/2014	1230	1230
6/17/2015	1210	1210
12/1/2015	1230	1230
6/22/2016	1185	1185
12/20/2016	1186	1186
6/6/2017	1289	1289
11/7/2017	1458	1458
2/27/2018	1235	1235
9/19/2018	1520	1520
11/21/2019	1510	1510
6/25/2020	1440	1440
11/17/2020	1460	1460
5/26/2021	1460	1460
11/17/2021	1680	1680
4/8/2022	1560	1560
10/4/2022	1500	1500
5/4/2023	1400	1400

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	36	0 (0%)	6/24/2004	497	497
			9/15/2004	687	687
			12/15/2004	514	514
			3/16/2005	422	422
			6/15/2005	465	465
			9/21/2005	517	517
			12/20/2006	447	447
			6/12/2007	630	630
			12/17/2007	540	540

6/11/2008	467	467
12/3/2008	649	649
6/17/2009	519	519
12/9/2009	469	469
6/17/2010	500	500
12/22/2010	504	504
6/29/2011	463	463
12/7/2011	501	501
6/6/2012	457	457
6/19/2013	373	373
12/11/2013	476	476
6/11/2014	826	826
12/3/2014	409	409
6/17/2015	267	267
12/1/2015	385	385
6/22/2016	320	320
6/6/2017	198	198
11/7/2017	444	444
2/27/2018	186.1	186.1
9/19/2018	573	573
11/21/2019	140	140
6/25/2020	255	255
11/17/2020	524	524
5/26/2021	128	128
11/16/2021	279	279
4/8/2022	2440	2440
5/3/2023	178	178

MW03-2 43 0 (0%)

6/24/2004	692	692
9/15/2004	522	522
12/15/2004	655	655
3/16/2005	661	661
6/15/2005	674	674
9/21/2005	625	625
12/21/2005	572	572
3/15/2006	594	594
6/21/2006	636	636
12/20/2006	580	580
6/12/2007	680	680
12/17/2007	617	617
6/11/2008	674	674
12/3/2008	752	752
6/17/2009	720	720
12/9/2009	690	690
6/17/2010	685	685
12/22/2010	728	728
6/29/2011	748	748
12/7/2011	755	755
6/6/2012	716	716
12/12/2012	807	807
6/19/2013	807	807
12/11/2013	805	805
6/11/2014	219	219
12/3/2014	1540	1540
6/17/2015	965	965
12/1/2015	967	967
6/22/2016	1074	1074

			12/20/2016	1454	1454
			6/6/2017	1498	1498
			11/7/2017	2042	2042
			9/6/2018	2620	2620
			9/19/2018	2880	2880
			5/7/2019	2730	2730
			11/21/2019	3600	3600
			6/25/2020	2590	2590
			11/17/2020	2390	2390
			5/26/2021	2620	2620
			11/17/2021	2700	2700
			4/8/2022	115	115
			10/3/2022	2110	2110
			5/3/2023	2220	2220
<hr/>					
MW22-02	9	0 (0%)	4/7/2022	6290	6290
			5/9/2022	7590	7590
			5/31/2022	8010	8010
			6/20/2022	8320	8320
			7/19/2022	7660	7660
			8/18/2022	7840	7840
			9/13/2022	8060	8060
			10/3/2022	8120	8120
			5/4/2023	8520	8520
<hr/>					
MW22-03	9	0 (0%)	4/7/2022	2400	2400
			5/9/2022	3570	3570
			5/31/2022	6040	6040
			6/20/2022	7750	7750
			7/19/2022	7700	7700
			8/18/2022	3440	3440
			9/13/2022	3360	3360
			10/4/2022	1250	1250
			5/4/2023	5910	5910
<hr/>					
MW22-04	10	0 (0%)	4/7/2022	527	527
			5/9/2022	1440	1440
			5/31/2022	1030	1030
			6/20/2022	1030	1030
			6/20/2022	1020	1020
			7/18/2022	790	790
			8/18/2022	755	755
			9/13/2022	700	700
			10/4/2022	648	648
			5/4/2023	946	946
<hr/>					
MW22-05	10	0 (0%)	4/7/2022	3840	3840
			5/9/2022	3720	3720
			5/31/2022	3740	3740
			6/20/2022	3950	3950
			7/18/2022	4050	4050
			8/18/2022	4160	4160
			9/13/2022	4180	4180
			10/3/2022	4090	4090
			5/3/2023	3780	3780
			5/3/2023	3860	3860

MW22-06	10	0 (0%)	4/8/2022	1500	1500
			5/9/2022	1460	1460
			5/31/2022	1450	1450
			6/20/2022	1460	1460
			7/18/2022	1440	1440
			8/18/2022	1350	1350
			8/18/2022	1380	1380
			9/13/2022	1350	1350
			10/3/2022	1310	1310
			5/3/2023	1450	1450
<hr/>					
MW22-07	9	0 (0%)	4/8/2022	827	827
			5/9/2022	730	730
			5/31/2022	692	692
			6/20/2022	660	660
			7/19/2022	983	983
			8/18/2022	1130	1130
			9/13/2022	1190	1190
			10/4/2022	1230	1230
			5/4/2023	761	761
<hr/>					
MW22-08	10	0 (0%)	4/8/2022	1880	1880
			5/9/2022	1790	1790
			5/31/2022	1780	1780
			5/31/2022	1820	1820
			6/20/2022	1790	1790
			7/18/2022	1760	1760
			8/18/2022	1750	1750
			9/13/2022	1780	1780
			10/4/2022	1740	1740
5/3/2023	1850	1850			
<hr/>					
MW93-2	82	0 (0%)	12/15/1994	7950	7950
			3/14/1995	8217	8217
			6/21/1995	9210	9210
			12/14/1995	9000	9000
			3/6/1996	8820	8820
			4/25/1996	9310	9310
			10/2/1996	9420	9420
			12/10/1996	9590	9590
			3/11/1997	9250	9250
			4/15/1997	9690	9690
			8/14/1997	10660	10660
			12/4/1997	10240	10240
			3/31/1998	9237	9237
			6/23/1998	10400	10400
			8/11/1998	11460	11460
			12/8/1998	10280	10280
			3/9/1999	9240	9240
			6/8/1999	10850	10850
			8/19/1999	10873	10873
			12/14/1999	9690	9690
3/7/2000	9340	9340			
6/23/2000	1034	1034			
12/12/2000	9080	9080			
3/27/2001	10260	10260			
6/28/2001	11600	11600			

9/10/2001	10700	10700
12/18/2001	10660	10660
3/19/2002	10197	10197
6/26/2002	10590	10590
9/18/2002	9690	9690
12/11/2002	10283	10283
3/13/2003	8920	8920
6/25/2003	10590	10590
9/26/2003	10693	10693
12/10/2003	10550	10550
3/9/2004	10620	10620
6/24/2004	10494	10494
9/15/2004	10340	10340
12/15/2004	9940	9940
3/16/2005	9690	9690
6/15/2005	10010	10010
9/21/2005	9660	9660
12/21/2005	10000	10000
3/15/2006	8650	8650
6/21/2006	9830	9830
12/20/2006	8310	8310
2/21/2007	7660	7660
6/12/2007	9590	9590
12/17/2007	9100	9100
6/11/2008	9600	9600
12/3/2008	10520	10520
12/15/2008	9070	9070
6/17/2009	10690	10690
12/9/2009	10050	10050
6/17/2010	10020	10020
12/22/2010	11230	11230
6/29/2011	11110	11110
12/7/2011	10770	10770
6/6/2012	10490	10490
12/12/2012	11460	11460
6/19/2013	10500	10500
12/11/2013	10650	10650
6/11/2014	9940	9940
12/3/2014	10900	10900
6/17/2015	1270	1270
12/1/2015	10560	10560
6/22/2016	6710	6710
12/20/2016	11400	11400
6/6/2017	12590	12590
11/7/2017	10.52	10.52
2/27/2018	10.9	10.9
9/19/2018	15700	15700
5/7/2019	15700	15700
11/21/2019	15400	15400
6/25/2020	12200	12200
11/16/2020	12700	12700
5/26/2021	13300	13300
11/17/2021	15000	15000
4/8/2022	13700	13700
10/4/2022	13500	13500
10/4/2022	13500	13500
5/4/2023	12500	12500

MW93-3	79	0 (0%)	12/15/1994	1762	1762
			3/14/1995	1490	1490
			6/21/1995	1421	1421
			12/14/1995	1534	1534
			3/6/1996	1327	1327
			4/25/1996	1570	1570
			10/2/1996	1657	1657
			12/10/1996	1427	1427
			3/11/1997	1370	1370
			4/15/1997	1244	1244
			8/14/1997	1351	1351
			12/4/1997	1140	1140
			3/31/1998	1172	1172
			6/23/1998	1214	1214
			8/11/1998	1296	1296
			12/8/1998	1177	1177
			3/9/1999	1137	1137
			6/8/1999	1180	1180
			8/19/1999	1253	1253
			12/14/1999	1088	1088
			3/7/2000	1250	1250
			6/23/2000	1070	1070
			12/12/2000	1051	1051
			3/27/2001	1149	1149
			6/28/2001	1155	1155
			9/10/2001	1250	1250
			12/18/2001	1064	1064
			3/19/2002	1240	1240
			6/26/2002	787	787
			9/18/2002	1109	1109
			12/11/2002	1125	1125
			3/13/2003	1034	1034
			6/25/2003	1111	1111
			9/26/2003	1109	1109
			12/10/2003	1173	1173
			3/9/2004	881	881
			6/24/2004	1129	1129
			9/15/2004	1068	1068
			12/15/2004	972	972
			3/16/2005	1134	1134
			6/15/2005	1080	1080
			9/21/2005	1155	1155
			12/21/2005	1140	1140
			3/15/2006	1035	1035
			6/21/2006	1226	1226
			12/20/2006	1087	1087
			6/12/2007	1031	1031
			12/17/2007	910	910
			6/11/2008	1023	1023
			12/3/2008	1073	1073
			6/17/2009	1073	1073
			12/9/2009	1038	1038
			6/17/2010	1108	1108
			12/22/2010	1090	1090
			6/29/2011	1178	1178
			12/7/2011	930	930

6/6/2012	1203	1203
12/12/2012	1010	1010
6/19/2013	1438	1438
12/11/2013	1252	1252
6/11/2014	1500	1500
12/3/2014	1200	1200
6/17/2015	1480	1480
12/1/2015	1807	1807
10/11/2016	2005	2005
12/20/2016	2200	2200
6/6/2017	1743	1743
11/7/2017	2121	2121
9/6/2018	2380	2380
9/19/2018	2110	2110
5/7/2019	2830	2830
11/21/2019	2200	2200
6/25/2020	2080	2080
11/16/2020	2060	2060
5/26/2021	2130	2130
11/17/2021	2240	2240
4/8/2022	2160	2160
10/4/2022	2020	2020
5/3/2023	1990	1990

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 87

Maximum Background Value = 1888

Confidence Level = 91.6%

False Positive Rate = 8.4%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	178	FALSE
MW03-2	5/3/2023	1	2220	TRUE
MW22-02	5/4/2023	1	8520	TRUE
MW22-03	5/4/2023	1	5910	TRUE
MW22-04	5/4/2023	1	946	FALSE
MW22-05	5/3/2023	2	3820	TRUE
MW22-06	5/3/2023	1	1450	FALSE
MW22-07	5/4/2023	1	761	FALSE
MW22-08	5/3/2023	1	1850	FALSE
MW93-2	5/4/2023	1	12500	TRUE
MW93-3	5/3/2023	1	1990	TRUE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW03-2

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 42

Maximum Baseline Concentration = 3600

Confidence Level = 97.7%

False Positive Rate = 2.3%

Baseline Measurements	Date	Value
	6/24/2004	692
	9/15/2004	522
	12/15/2004	655
	3/16/2005	661
	6/15/2005	674
	9/21/2005	625
	12/21/2005	572
	3/15/2006	594
	6/21/2006	636
	12/20/2006	580
	6/12/2007	680
	12/17/2007	617
	6/11/2008	674
	12/3/2008	752
	6/17/2009	720
	12/9/2009	690
	6/17/2010	685
	12/22/2010	728
	6/29/2011	748
	12/7/2011	755
	6/6/2012	716
	12/12/2012	807
	6/19/2013	807
	12/11/2013	805
	6/11/2014	219
	12/3/2014	1540
	6/17/2015	965
	12/1/2015	967
	6/22/2016	1074
	12/20/2016	1454
	6/6/2017	1498
	11/7/2017	2042
	9/6/2018	2620
	9/19/2018	2880
	5/7/2019	2730
	11/21/2019	3600
	6/25/2020	2590
	11/17/2020	2390
	5/26/2021	2620
	11/17/2021	2700
	4/8/2022	115
	10/3/2022	2110

Date	Count	Mean	Significant
5/3/2023	1	2220	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 81

Maximum Baseline Concentration = 15700

Confidence Level = 98.8%

False Positive Rate = 1.2%

Baseline Measurements	Date	Value
	12/15/1994	7950
	3/14/1995	8217
	6/21/1995	9210
	12/14/1995	9000
	3/6/1996	8820
	4/25/1996	9310
	10/2/1996	9420
	12/10/1996	9590
	3/11/1997	9250
	4/15/1997	9690
	8/14/1997	10660
	12/4/1997	10240
	3/31/1998	9237
	6/23/1998	10400
	8/11/1998	11460
	12/8/1998	10280
	3/9/1999	9240
	6/8/1999	10850
	8/19/1999	10873
	12/14/1999	9690
	3/7/2000	9340
	6/23/2000	1034
	12/12/2000	9080
	3/27/2001	10260
	6/28/2001	11600
	9/10/2001	10700
	12/18/2001	10660
	3/19/2002	10197
	6/26/2002	10590
	9/18/2002	9690
	12/11/2002	10283
	3/13/2003	8920
	6/25/2003	10590
	9/26/2003	10693
	12/10/2003	10550
	3/9/2004	10620
	6/24/2004	10494
	9/15/2004	10340
	12/15/2004	9940
	3/16/2005	9690
	6/15/2005	10010
	9/21/2005	9660

12/21/2005	10000
3/15/2006	8650
6/21/2006	9830
12/20/2006	8310
2/21/2007	7660
6/12/2007	9590
12/17/2007	9100
6/11/2008	9600
12/3/2008	10520
12/15/2008	9070
6/17/2009	10690
12/9/2009	10050
6/17/2010	10020
12/22/2010	11230
6/29/2011	11110
12/7/2011	10770
6/6/2012	10490
12/12/2012	11460
6/19/2013	10500
12/11/2013	10650
6/11/2014	9940
12/3/2014	10900
6/17/2015	1270
12/1/2015	10560
6/22/2016	6710
12/20/2016	11400
6/6/2017	12590
11/7/2017	10.52
2/27/2018	10.9
9/19/2018	15700
5/7/2019	15700
11/21/2019	15400
6/25/2020	12200
11/16/2020	12700
5/26/2021	13300
11/17/2021	15000
4/8/2022	13700
10/4/2022	13500
10/4/2022	13500

Date	Count	Mean	Significant
5/4/2023	1	12500	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-3

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 78

Maximum Baseline Concentration = 2830

Confidence Level = 98.7%

False Positive Rate = 1.3%

Baseline Measurements	Date	Value
	12/15/1994	1762
	3/14/1995	1490
	6/21/1995	1421
	12/14/1995	1534
	3/6/1996	1327
	4/25/1996	1570
	10/2/1996	1657
	12/10/1996	1427
	3/11/1997	1370
	4/15/1997	1244
	8/14/1997	1351
	12/4/1997	1140
	3/31/1998	1172
	6/23/1998	1214
	8/11/1998	1296
	12/8/1998	1177
	3/9/1999	1137
	6/8/1999	1180
	8/19/1999	1253
	12/14/1999	1088
	3/7/2000	1250
	6/23/2000	1070
	12/12/2000	1051
	3/27/2001	1149
	6/28/2001	1155
	9/10/2001	1250
	12/18/2001	1064
	3/19/2002	1240
	6/26/2002	787
	9/18/2002	1109
	12/11/2002	1125
	3/13/2003	1034
	6/25/2003	1111
	9/26/2003	1109
	12/10/2003	1173
	3/9/2004	881
	6/24/2004	1129
	9/15/2004	1068
	12/15/2004	972
	3/16/2005	1134
	6/15/2005	1080
	9/21/2005	1155

12/21/2005	1140
3/15/2006	1035
6/21/2006	1226
12/20/2006	1087
6/12/2007	1031
12/17/2007	910
6/11/2008	1023
12/3/2008	1073
6/17/2009	1073
12/9/2009	1038
6/17/2010	1108
12/22/2010	1090
6/29/2011	1178
12/7/2011	930
6/6/2012	1203
12/12/2012	1010
6/19/2013	1438
12/11/2013	1252
6/11/2014	1500
12/3/2014	1200
6/17/2015	1480
12/1/2015	1807
10/11/2016	2005
12/20/2016	2200
6/6/2017	1743
11/7/2017	2121
9/6/2018	2380
9/19/2018	2110
5/7/2019	2830
11/21/2019	2200
6/25/2020	2080
11/16/2020	2060
5/26/2021	2130
11/17/2021	2240
4/8/2022	2160
10/4/2022	2020

Date	Count	Mean	Significant
5/3/2023	1	1990	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 8320

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	6290
	5/9/2022	7590
	5/31/2022	8010
	6/20/2022	8320
	7/19/2022	7660
	8/18/2022	7840
	9/13/2022	8060
	10/3/2022	8120

Date	Count	Mean	Significant
5/4/2023	1	8520	TRUE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 7750

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	2400
	5/9/2022	3570
	5/31/2022	6040
	6/20/2022	7750
	7/19/2022	7700
	8/18/2022	3440
	9/13/2022	3360
	10/4/2022	1250

Date	Count	Mean	Significant
5/4/2023	1	5910	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-05

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 4180

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	3840
	5/9/2022	3720
	5/31/2022	3740
	6/20/2022	3950
	7/18/2022	4050
	8/18/2022	4160
	9/13/2022	4180
	10/3/2022	4090

Date	Count	Mean	Significant
5/3/2023	2	3820	FALSE

Shapiro-Francia Test of Normality

Parameter: Specific Conductance

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 394

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	10.52	-2.87815	8.28375	-30.2781
2	10.9	-2.57583	14.9187	-58.3547
3	115	-2.45727	20.9569	-340.941
4	128	-2.32634	26.3687	-638.713
5	140	-2.25713	31.4634	-954.711
6	178	-2.17009	36.1727	-1340.99
7	186.1	-2.12007	40.6673	-1735.53
8	198	-2.05375	44.8852	-2142.17
9	219	-2.01409	48.9418	-2583.26
10	255	-1.95996	52.7833	-3083.05
11	267	-1.92684	56.496	-3597.52
12	279	-1.88079	60.0333	-4122.26
13	320	-1.85218	63.4639	-4714.95
14	373	-1.81191	66.7469	-5390.8
15	385	-1.78661	69.9389	-6078.64
16	409	-1.75069	73.0038	-6794.67
17	422	-1.71688	75.9515	-7519.2
18	444	-1.6954	78.8259	-8271.96
19	447	-1.66456	81.5966	-9016.01
20	457	-1.64485	84.3022	-9767.71
21	463	-1.61644	86.915	-10516.1
22	465	-1.59819	89.4693	-11259.3
23	467	-1.57179	91.9398	-11993.3
24	469	-1.55477	94.3571	-12722.5
25	476	-1.53007	96.6982	-13450.8
26	497	-1.5141	98.9907	-14203.3
27	500	-1.49085	101.213	-14948.7
28	501	-1.47579	103.391	-15688.1
29	504	-1.4538	105.505	-16420.8
30	514	-1.43953	107.577	-17160.7
31	517	-1.41865	109.59	-17894.2
32	519	-1.39838	111.545	-18619.9
33	522	-1.38517	113.464	-19343
34	524	-1.36581	115.329	-20058.7
35	527	-1.35317	117.16	-20771.8
36	540	-1.33462	118.942	-21492.5
37	572	-1.32251	120.691	-22249
38	573	-1.30469	122.393	-22996.6
39	580	-1.29303	124.065	-23746.5
40	594	-1.27588	125.693	-24504.4
41	617	-1.26464	127.292	-25284.7
42	625	-1.24809	128.85	-26064.7
43	630	-1.23724	130.38	-26844.2
44	636	-1.22123	131.872	-27620.9
45	648	-1.21073	133.338	-28405.4
46	649	-1.19522	134.766	-29181.1
47	655	-1.18504	136.171	-29957.4

48	660	-1.17	137.539	-30729.6
49	661	-1.15522	138.874	-31493.2
50	674	-1.1455	140.186	-32265.2
51	674	-1.13113	141.466	-33027.6
52	680	-1.12168	142.724	-33790.3
53	685	-1.10768	143.951	-34549.1
54	687	-1.09847	145.157	-35303.8
55	690	-1.08482	146.334	-36052.3
56	692	-1.07584	147.492	-36796.8
57	692	-1.06252	148.621	-37532
58	700	-1.05375	149.731	-38269.6
59	716	-1.04073	150.814	-39014.8
60	720	-1.03215	151.879	-39758
61	728	-1.01943	152.919	-40500.1
62	730	-1.01104	153.941	-41238.2
63	748	-0.998575	154.938	-41985.1
64	752	-0.986272	155.911	-42726.8
65	755	-0.97815	156.867	-43465.3
66	755	-0.966088	157.801	-44194.7
67	761	-0.958125	158.719	-44923.8
68	787	-0.946291	159.614	-45668.5
69	790	-0.938476	160.495	-46409.9
70	805	-0.926859	161.354	-47156.1
71	807	-0.919183	162.199	-47897.8
72	807	-0.907769	163.023	-48630.4
73	826	-0.900227	163.833	-49374
74	827	-0.889006	164.624	-50109.2
75	881	-0.881587	165.401	-50885.9
76	910	-0.87055	166.159	-51678.1
77	930	-0.863249	166.904	-52480.9
78	946	-0.852385	167.631	-53287.3
79	965	-0.841621	168.339	-54099.4
80	967	-0.834498	169.035	-54906.4
81	972	-0.823893	169.714	-55707.2
82	983	-0.816874	170.381	-56510.2
83	1010	-0.806422	171.032	-57324.7
84	1010	-0.7995	171.671	-58132.2
85	1020	-0.789191	172.294	-58937.1
86	1023	-0.782366	172.906	-59737.5
87	1030	-0.772193	173.502	-60532.9
88	1030	-0.765456	174.088	-61321.3
89	1030	-0.755415	174.659	-62099.4
90	1031	-0.748762	175.219	-62871.3
91	1034	-0.738846	175.765	-63635.3
92	1034	-0.732275	176.301	-64392.5
93	1035	-0.722479	176.823	-65140.2
94	1038	-0.715986	177.336	-65883.4
95	1051	-0.706302	177.835	-66625.8
96	1063	-0.696684	178.32	-67366.3
97	1064	-0.690309	178.797	-68100.8
98	1068	-0.680797	179.26	-68827.9
99	1070	-0.67449	179.715	-69549.6
100	1070	-0.665079	180.158	-70261.3
101	1073	-0.658838	180.592	-70968.2
102	1073	-0.649522	181.014	-71665.1
103	1074	-0.643345	181.427	-72356.1
104	1077	-0.634124	181.83	-73039

105	1080	-0.628006	182.224	-73717.3
106	1080	-0.618872	182.607	-74385.7
107	1080	-0.612813	182.982	-75047.5
108	1087	-0.603765	183.347	-75703.8
109	1088	-0.597761	183.704	-76354.2
110	1090	-0.588793	184.051	-76995.9
111	1092	-0.579873	184.387	-77629.2
112	1103	-0.573953	184.717	-78262.2
113	1108	-0.565108	185.036	-78888.4
114	1109	-0.559237	185.349	-79508.6
115	1109	-0.550465	185.652	-80119
116	1109	-0.544642	185.948	-80723
117	1111	-0.53594	186.236	-81318.5
118	1125	-0.530162	186.517	-81914.9
119	1129	-0.521527	186.789	-82503.7
120	1130	-0.515791	187.055	-83086.5
121	1134	-0.507221	187.312	-83661.7
122	1137	-0.501527	187.564	-84232
123	1140	-0.493018	187.807	-84794
124	1140	-0.487364	188.044	-85349.6
125	1149	-0.478914	188.273	-85899.9
126	1154	-0.473299	188.497	-86446.1
127	1155	-0.464904	188.714	-86983
128	1155	-0.456542	188.922	-87510.3
129	1169	-0.450985	189.125	-88037.5
130	1170	-0.442676	189.321	-88555.5
131	1172	-0.437153	189.512	-89067.8
132	1173	-0.428895	189.696	-89570.9
133	1177	-0.423405	189.876	-90069.3
134	1178	-0.415193	190.048	-90558.3
135	1179	-0.409735	190.216	-91041.4
136	1180	-0.401571	190.377	-91515.3
137	1185	-0.396142	190.534	-91984.7
138	1185	-0.388022	190.685	-92444.5
139	1186	-0.382622	190.831	-92898.3
140	1187	-0.374544	190.971	-93342.9
141	1190	-0.369171	191.108	-93782.2
142	1200	-0.361133	191.238	-94215.6
143	1200	-0.353118	191.363	-94639.3
144	1203	-0.347787	191.484	-95057.7
145	1210	-0.33981	191.599	-95468.9
146	1210	-0.334503	191.711	-95873.6
147	1214	-0.326561	191.818	-96270.1
148	1217	-0.321278	191.921	-96661
149	1218	-0.31337	192.019	-97042.7
150	1226	-0.308108	192.114	-97420.5
151	1227	-0.300232	192.204	-97788.9
152	1230	-0.294992	192.291	-98151.7
153	1230	-0.287147	192.374	-98504.9
154	1230	-0.281926	192.453	-98851.7
155	1235	-0.27411	192.528	-99190.2
156	1236	-0.268908	192.601	-99522.6
157	1240	-0.26112	192.669	-99846.3
158	1244	-0.253347	192.733	-100162
159	1250	-0.248174	192.795	-100472
160	1250	-0.240426	192.852	-100772
161	1250	-0.235269	192.908	-101066

162	1252	-0.227545	192.96	-101351
163	1253	-0.222403	193.009	-101630
164	1270	-0.214702	193.055	-101903
165	1270	-0.209575	193.099	-102169
166	1270	-0.201894	193.14	-102425
167	1273	-0.196779	193.179	-102676
168	1275	-0.189118	193.214	-102917
169	1289	-0.184017	193.248	-103154
170	1290	-0.176374	193.279	-103381
171	1296	-0.171285	193.309	-103603
172	1301	-0.163659	193.335	-103816
173	1301	-0.158579	193.361	-104023
174	1301	-0.150969	193.383	-104219
175	1309	-0.143367	193.404	-104407
176	1310	-0.138305	193.423	-104588
177	1318	-0.130716	193.44	-104760
178	1320	-0.125661	193.456	-104926
179	1326	-0.118085	193.47	-105083
180	1327	-0.113039	193.483	-105233
181	1327	-0.105474	193.494	-105373
182	1329	-0.100433	193.504	-105506
183	1332	-0.0928787	193.512	-105630
184	1334	-0.0878447	193.52	-105747
185	1350	-0.0802981	193.527	-105855
186	1350	-0.0752698	193.532	-105957
187	1351	-0.0677301	193.537	-106049
188	1352	-0.0627062	193.541	-106133
189	1366	-0.0551734	193.544	-106209
190	1370	-0.0476439	193.546	-106274
191	1370	-0.0426257	193.548	-106332
192	1374	-0.0350997	193.549	-106381
193	1374	-0.0300838	193.55	-106422
194	1380	-0.0225612	193.551	-106453
195	1393	-0.0175476	193.551	-106478
196	1400	-0.0100272	193.551	-106492
197	1420	-0.00501359	193.551	-106499
198	1420	0.00501359	193.551	-106492
199	1421	0.0100272	193.551	-106477
200	1423	0.0175476	193.551	-106452
201	1427	0.0225612	193.552	-106420
202	1438	0.0300838	193.553	-106377
203	1440	0.0350997	193.554	-106326
204	1440	0.0426257	193.556	-106265
205	1440	0.0476439	193.558	-106196
206	1440	0.0551734	193.561	-106117
207	1440	0.0627062	193.565	-106027
208	1441	0.0677301	193.57	-105929
209	1450	0.0752698	193.575	-105820
210	1450	0.0802981	193.582	-105703
211	1450	0.0878447	193.59	-105576
212	1454	0.0928787	193.598	-105441
213	1458	0.100433	193.608	-105295
214	1460	0.105474	193.619	-105141
215	1460	0.113039	193.632	-104976
216	1460	0.118085	193.646	-104803
217	1460	0.125661	193.662	-104620
218	1466	0.130716	193.679	-104428

219	1469	0.138305	193.698	-104225
220	1480	0.143367	193.719	-104013
221	1490	0.150969	193.741	-103788
222	1498	0.158579	193.767	-103550
223	1500	0.163659	193.793	-103305
224	1500	0.171285	193.823	-103048
225	1500	0.176374	193.854	-102783
226	1510	0.184017	193.888	-102505
227	1510	0.189118	193.923	-102220
228	1515	0.196779	193.962	-101922
229	1516	0.201894	194.003	-101616
230	1520	0.209575	194.047	-101297
231	1521	0.214702	194.093	-100970
232	1531	0.222403	194.142	-100630
233	1534	0.227545	194.194	-100281
234	1540	0.235269	194.25	-99918.6
235	1547	0.240426	194.307	-99546.7
236	1560	0.248174	194.369	-99159.5
237	1560	0.253347	194.433	-98764.3
238	1570	0.26112	194.501	-98354.3
239	1586	0.268908	194.574	-97927.9
240	1602	0.27411	194.649	-97488.7
241	1608	0.281926	194.728	-97035.4
242	1618	0.287147	194.811	-96570.8
243	1620	0.294992	194.898	-96092.9
244	1620	0.300232	194.988	-95606.5
245	1620	0.308108	195.083	-95107.4
246	1630	0.31337	195.181	-94596.6
247	1657	0.321278	195.284	-94064.2
248	1680	0.326561	195.391	-93515.6
249	1690	0.334503	195.503	-92950.3
250	1740	0.33981	195.618	-92359
251	1743	0.347787	195.739	-91752.8
252	1750	0.353118	195.864	-91134.9
253	1760	0.361133	195.994	-90499.3
254	1762	0.369171	196.131	-89848.8
255	1780	0.374544	196.271	-89182.1
256	1780	0.382622	196.417	-88501.1
257	1790	0.388022	196.568	-87806.5
258	1790	0.396142	196.725	-87097.4
259	1807	0.401571	196.886	-86371.8
260	1820	0.409735	197.054	-85626
261	1850	0.415193	197.226	-84857.9
262	1880	0.423405	197.406	-84061.9
263	1888	0.428895	197.59	-83252.2
264	1990	0.437153	197.781	-82382.2
265	2005	0.442676	197.977	-81494.7
266	2020	0.450985	198.18	-80583.7
267	2042	0.456542	198.388	-79651.4
268	2060	0.464904	198.605	-78693.7
269	2080	0.473299	198.829	-77709.3
270	2110	0.478914	199.058	-76698.8
271	2110	0.487364	199.295	-75670.4
272	2121	0.493018	199.538	-74624.7
273	2130	0.501527	199.79	-73556.5
274	2160	0.507221	200.047	-72460.9
275	2200	0.515791	200.313	-71326.1

276	2200	0.521527	200.585	-70178.8
277	2220	0.530162	200.866	-69001.8
278	2240	0.53594	201.154	-67801.3
279	2380	0.544642	201.45	-66505.1
280	2390	0.550465	201.753	-65189.5
281	2400	0.559237	202.066	-63847.3
282	2440	0.565108	202.385	-62468.4
283	2590	0.573953	202.715	-60981.9
284	2620	0.579873	203.051	-59462.6
285	2620	0.588793	203.398	-57920
286	2700	0.597761	203.755	-56306
287	2730	0.603765	204.12	-54657.8
288	2830	0.612813	204.495	-52923.5
289	2880	0.618872	204.878	-51141.1
290	3360	0.628006	205.273	-49031
291	3440	0.634124	205.675	-46849.7
292	3570	0.643345	206.089	-44552.9
293	3600	0.649522	206.51	-42214.6
294	3720	0.658838	206.944	-39763.8
295	3740	0.665079	207.387	-37276.4
296	3780	0.67449	207.842	-34726.8
297	3840	0.680797	208.305	-32112.5
298	3860	0.690309	208.782	-29447.9
299	3950	0.696684	209.267	-26696
300	4050	0.706302	209.766	-23835.5
301	4090	0.715986	210.279	-20907.1
302	4160	0.722479	210.801	-17901.6
303	4180	0.732275	211.337	-14840.7
304	5910	0.738846	211.883	-10474.1
305	6040	0.748762	212.443	-5951.6
306	6290	0.755415	213.014	-1200.04
307	6710	0.765456	213.6	3936.17
308	7590	0.772193	214.196	9797.11
309	7660	0.782366	214.808	15790
310	7660	0.789191	215.431	21835.2
311	7700	0.7995	216.07	27991.4
312	7750	0.806422	216.721	34241.2
313	7840	0.816874	217.388	40645.5
314	7950	0.823893	218.067	47195.4
315	8010	0.834498	218.763	53879.7
316	8060	0.841621	219.471	60663.2
317	8120	0.852385	220.198	67584.6
318	8217	0.863249	220.943	74677.9
319	8310	0.87055	221.701	81912.2
320	8320	0.881587	222.478	89247
321	8520	0.889006	223.269	96821.3
322	8650	0.900227	224.079	104608
323	8820	0.907769	224.903	112615
324	8920	0.919183	225.748	120814
325	9000	0.926859	226.607	129156
326	9070	0.938476	227.488	137668
327	9080	0.946291	228.383	146260
328	9100	0.958125	229.301	154979
329	9210	0.966088	230.235	163877
330	9237	0.97815	231.191	172912
331	9240	0.986272	232.164	182025
332	9250	0.998575	233.161	191262

333	9310	1.01104	234.183	200674
334	9340	1.01943	235.223	210196
335	9420	1.03215	236.288	219919
336	9590	1.04073	237.371	229899
337	9590	1.05375	238.481	240005
338	9600	1.06252	239.61	250205
339	9660	1.07584	240.768	260598
340	9690	1.08482	241.945	271109
341	9690	1.09847	243.151	281754
342	9690	1.10768	244.378	292487
343	9690	1.12168	245.636	303356
344	9830	1.13113	246.916	314475
345	9940	1.1455	248.228	325861
346	9940	1.15522	249.563	337344
347	10000	1.17	250.932	349044
348	10010	1.18504	252.336	360907
349	10020	1.19522	253.764	372883
350	10050	1.21073	255.23	385051
351	10197	1.22123	256.722	397503
352	10240	1.23724	258.252	410173
353	10260	1.24809	259.81	422978
354	10280	1.26464	261.409	435979
355	10283	1.27588	263.037	449098
356	10340	1.29303	264.709	462468
357	10400	1.30469	266.411	476037
358	10490	1.32251	268.16	489910
359	10494	1.33462	269.942	503916
360	10500	1.35317	271.773	518124
361	10520	1.36581	273.638	532492
362	10550	1.38517	275.557	547106
363	10560	1.39838	277.512	561873
364	10590	1.41865	279.525	576896
365	10590	1.43953	281.597	592141
366	10620	1.4538	283.711	607580
367	10650	1.47579	285.889	623298
368	10660	1.49085	288.111	639190
369	10660	1.5141	290.404	655330
370	10690	1.53007	292.745	671687
371	10693	1.55477	295.162	688312
372	10700	1.57179	297.633	705130
373	10770	1.59819	300.187	722343
374	10850	1.61644	302.8	739881
375	10873	1.64485	305.505	757765
376	10900	1.66456	308.276	775909
377	11110	1.6954	311.151	794745
378	11230	1.71688	314.098	814026
379	11400	1.75069	317.163	833984
380	11460	1.78661	320.355	854458
381	11460	1.81191	323.638	875223
382	11600	1.85218	327.069	896708
383	12200	1.88079	330.606	919653
384	12500	1.92684	334.319	943739
385	12590	1.95996	338.16	968415
386	12700	2.01409	342.217	993994
387	13300	2.05375	346.435	1.02131e+006
388	13500	2.12007	350.929	1.04993e+006
389	13500	2.17009	355.639	1.07923e+006

390	13700	2.25713	360.733	1.11015e+006
391	15000	2.32634	366.145	1.14504e+006
392	15400	2.45727	372.183	1.18289e+006
393	15700	2.57583	378.818	1.22333e+006
394	15700	2.87815	387.102	1.26851e+006

Data Set Standard Deviation = 3877.3

Numerator = 1.60913e+012

Denominator = 2.28705e+012

W Statistic = 0.703581 = 1.60913e+012 / 2.28705e+012

5% Critical value of 0.976 exceeds 0.703581

Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.703581

Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 602.614
Overall Std Dev = 1201.8
Overall Total = 237430
SS Groups = 1.443e+008
SS Total = 5.67617e+008

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	1.443e+008	12	1.2025e+007	10.8229
Error (within groups)	4.23317e+008	381	1.11107e+006	
Totals	5.67617e+008	393		

95% F-Statistic = 1.75

10.8229 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	211.111
5/9/2022	141.111
5/31/2022	31.1111
6/20/2022	58.8889
7/18/2022	38.8889
8/18/2022	58.8889
9/13/2022	28.8889
10/3/2022	158.889
5/3/2023	38.8889

Group: MW93-1

Sample	Residual
12/15/1994	260.577
3/14/1995	237.577
6/21/1995	186.577
12/14/1995	231.577
3/6/1996	330.577
4/25/1996	277.577
10/2/1996	171.577
12/10/1996	153.577
3/11/1997	263.577
4/15/1997	270.577
8/14/1997	123.577
12/4/1997	170.577
3/31/1998	248.577
6/23/1998	130.577
8/11/1998	67.5769
12/8/1998	547.423
3/9/1999	260.577
6/8/1999	39.5769
8/19/1999	39.5769

12/14/1999	70.5769
3/7/2000	50.5769
6/23/2000	52.4231
12/12/2000	31.5769
3/27/2001	128.423
6/28/2001	219.423
9/10/2001	33.4231
12/18/2001	33.4231
3/19/2002	14.5769
6/26/2002	175.423
9/18/2002	82.4231
12/11/2002	174.423
3/13/2003	8.57692
6/25/2003	267.423
9/26/2003	261.423
12/10/2003	279.423
3/9/2004	289.423
6/24/2004	279.423
9/15/2004	277.423
12/15/2004	245.423
3/16/2005	180.423
6/15/2005	190.423
9/21/2005	100.423
12/21/2005	310.577
3/15/2006	22.5769
6/21/2006	206.423
12/20/2006	29.4231
6/12/2007	125.423
12/17/2007	13.5769
6/11/2008	6.57692
12/3/2008	11.4231
6/17/2009	39.5769
12/9/2009	122.577
6/17/2010	161.577
12/22/2010	70.5769
6/29/2011	65.5769
12/7/2011	104.577
6/6/2012	155.577
12/12/2012	113.577
6/19/2013	25.4231
12/11/2013	11.5769
6/11/2014	140.577
12/3/2014	110.577
6/17/2015	130.577
12/1/2015	110.577
6/22/2016	155.577
12/20/2016	154.577
6/6/2017	51.5769
11/7/2017	117.423
2/27/2018	105.577
9/19/2018	179.423
11/21/2019	169.423
6/25/2020	99.4231
11/17/2020	119.423
5/26/2021	119.423
11/17/2021	339.423
4/8/2022	219.423

10/4/2022	159.423
5/4/2023	59.4231

Group: MW03-1

Date	Residual
6/24/2004	6.74722
9/15/2004	196.747
12/15/2004	23.7472
3/16/2005	68.2528
6/15/2005	25.2528
9/21/2005	26.7472
12/20/2006	43.2528
6/12/2007	139.747
12/17/2007	49.7472
6/11/2008	23.2528
12/3/2008	158.747
6/17/2009	28.7472
12/9/2009	21.2528
6/17/2010	9.74722
12/22/2010	13.7472
6/29/2011	27.2528
12/7/2011	10.7472
6/6/2012	33.2528
6/19/2013	117.253
12/11/2013	14.2528
6/11/2014	335.747
12/3/2014	81.2528
6/17/2015	223.253
12/1/2015	105.253
6/22/2016	170.253
6/6/2017	292.253
11/7/2017	46.2528
2/27/2018	304.153
9/19/2018	82.7472
11/21/2019	350.253
6/25/2020	235.253
11/17/2020	33.7472
5/26/2021	362.253
11/16/2021	211.253
4/8/2022	1949.75
5/3/2023	312.253

Group: MW03-2

Date	Residual
6/24/2004	534.256
9/15/2004	704.256
12/15/2004	571.256
3/16/2005	565.256
6/15/2005	552.256
9/21/2005	601.256
12/21/2005	654.256
3/15/2006	632.256
6/21/2006	590.256
12/20/2006	646.256
6/12/2007	546.256
12/17/2007	609.256
6/11/2008	552.256
12/3/2008	474.256
6/17/2009	506.256

12/9/2009	536.256
6/17/2010	541.256
12/22/2010	498.256
6/29/2011	478.256
12/7/2011	471.256
6/6/2012	510.256
12/12/2012	419.256
6/19/2013	419.256
12/11/2013	421.256
6/11/2014	1007.26
12/3/2014	313.744
6/17/2015	261.256
12/1/2015	259.256
6/22/2016	152.256
12/20/2016	227.744
6/6/2017	271.744
11/7/2017	815.744
9/6/2018	1393.74
9/19/2018	1653.74
5/7/2019	1503.74
11/21/2019	2373.74
6/25/2020	1363.74
11/17/2020	1163.74
5/26/2021	1393.74
11/17/2021	1473.74
4/8/2022	1111.26
10/3/2022	883.744
5/3/2023	993.744

Group: MW22-02

Date	Residual
4/7/2022	1533.33
5/9/2022	233.333
5/31/2022	186.667
6/20/2022	496.667
7/19/2022	163.333
8/18/2022	16.6667
9/13/2022	236.667
10/3/2022	296.667
5/4/2023	696.667

Group: MW22-03

Date	Residual
4/7/2022	2202.22
5/9/2022	1032.22
5/31/2022	1437.78
6/20/2022	3147.78
7/19/2022	3097.78
8/18/2022	1162.22
9/13/2022	1242.22
10/4/2022	3352.22
5/4/2023	1307.78

Group: MW22-04

Date	Residual
4/7/2022	361.6
5/9/2022	551.4
5/31/2022	141.4
6/20/2022	141.4
6/20/2022	131.4

7/18/2022	98.6
8/18/2022	133.6
9/13/2022	188.6
10/4/2022	240.6
5/4/2023	57.4

Group: MW22-05

Date	Residual
4/7/2022	97
5/9/2022	217
5/31/2022	197
6/20/2022	13
7/18/2022	113
8/18/2022	223
9/13/2022	243
10/3/2022	153
5/3/2023	157
5/3/2023	77

Group: MW22-06

Date	Residual
4/8/2022	85
5/9/2022	45
5/31/2022	35
6/20/2022	45
7/18/2022	25
8/18/2022	65
8/18/2022	35
9/13/2022	65
10/3/2022	105
5/3/2023	35

Group: MW22-07

Date	Residual
4/8/2022	84.4444
5/9/2022	181.444
5/31/2022	219.444
6/20/2022	251.444
7/19/2022	71.5556
8/18/2022	218.556
9/13/2022	278.556
10/4/2022	318.556
5/4/2023	150.444

Group: MW22-08

Date	Residual
4/8/2022	86
5/9/2022	4
5/31/2022	14
5/31/2022	26
6/20/2022	4
7/18/2022	34
8/18/2022	44
9/13/2022	14
10/4/2022	54
5/3/2023	56

Group: MW93-2

Date	Residual
12/15/1994	2101.46
3/14/1995	1834.46
6/21/1995	841.456

12/14/1995	1051.46
3/6/1996	1231.46
4/25/1996	741.456
10/2/1996	631.456
12/10/1996	461.456
3/11/1997	801.456
4/15/1997	361.456
8/14/1997	608.544
12/4/1997	188.544
3/31/1998	814.456
6/23/1998	348.544
8/11/1998	1408.54
12/8/1998	228.544
3/9/1999	811.456
6/8/1999	798.544
8/19/1999	821.544
12/14/1999	361.456
3/7/2000	711.456
6/23/2000	9017.46
12/12/2000	971.456
3/27/2001	208.544
6/28/2001	1548.54
9/10/2001	648.544
12/18/2001	608.544
3/19/2002	145.544
6/26/2002	538.544
9/18/2002	361.456
12/11/2002	231.544
3/13/2003	1131.46
6/25/2003	538.544
9/26/2003	641.544
12/10/2003	498.544
3/9/2004	568.544
6/24/2004	442.544
9/15/2004	288.544
12/15/2004	111.456
3/16/2005	361.456
6/15/2005	41.4563
9/21/2005	391.456
12/21/2005	51.4563
3/15/2006	1401.46
6/21/2006	221.456
12/20/2006	1741.46
2/21/2007	2391.46
6/12/2007	461.456
12/17/2007	951.456
6/11/2008	451.456
12/3/2008	468.544
12/15/2008	981.456
6/17/2009	638.544
12/9/2009	1.45634
6/17/2010	31.4563
12/22/2010	1178.54
6/29/2011	1058.54
12/7/2011	718.544
6/6/2012	438.544
12/12/2012	1408.54

6/19/2013	448.544
12/11/2013	598.544
6/11/2014	111.456
12/3/2014	848.544
6/17/2015	8781.46
12/1/2015	508.544
6/22/2016	3341.46
12/20/2016	1348.54
6/6/2017	2538.54
11/7/2017	10040.9
2/27/2018	10040.6
9/19/2018	5648.54
5/7/2019	5648.54
11/21/2019	5348.54
6/25/2020	2148.54
11/16/2020	2648.54
5/26/2021	3248.54
11/17/2021	4948.54
4/8/2022	3648.54
10/4/2022	3448.54
10/4/2022	3448.54
5/4/2023	2448.54

Group: MW93-3

Date	Residual
12/15/1994	382.165
3/14/1995	110.165
6/21/1995	41.1646
12/14/1995	154.165
3/6/1996	52.8354
4/25/1996	190.165
10/2/1996	277.165
12/10/1996	47.1646
3/11/1997	9.83544
4/15/1997	135.835
8/14/1997	28.8354
12/4/1997	239.835
3/31/1998	207.835
6/23/1998	165.835
8/11/1998	83.8354
12/8/1998	202.835
3/9/1999	242.835
6/8/1999	199.835
8/19/1999	126.835
12/14/1999	291.835
3/7/2000	129.835
6/23/2000	309.835
12/12/2000	328.835
3/27/2001	230.835
6/28/2001	224.835
9/10/2001	129.835
12/18/2001	315.835
3/19/2002	139.835
6/26/2002	592.835
9/18/2002	270.835
12/11/2002	254.835
3/13/2003	345.835
6/25/2003	268.835

9/26/2003	270.835
12/10/2003	206.835
3/9/2004	498.835
6/24/2004	250.835
9/15/2004	311.835
12/15/2004	407.835
3/16/2005	245.835
6/15/2005	299.835
9/21/2005	224.835
12/21/2005	239.835
3/15/2006	344.835
6/21/2006	153.835
12/20/2006	292.835
6/12/2007	348.835
12/17/2007	469.835
6/11/2008	356.835
12/3/2008	306.835
6/17/2009	306.835
12/9/2009	341.835
6/17/2010	271.835
12/22/2010	289.835
6/29/2011	201.835
12/7/2011	449.835
6/6/2012	176.835
12/12/2012	369.835
6/19/2013	58.1646
12/11/2013	127.835
6/11/2014	120.165
12/3/2014	179.835
6/17/2015	100.165
12/1/2015	427.165
10/11/2016	625.165
12/20/2016	820.165
6/6/2017	363.165
11/7/2017	741.165
9/6/2018	1000.16
9/19/2018	730.165
5/7/2019	1450.16
11/21/2019	820.165
6/25/2020	700.165
11/16/2020	680.165
5/26/2021	750.165
11/17/2021	860.165
4/8/2022	780.165
10/4/2022	640.165
5/3/2023	610.165

Concentrations (ppb)

Parameter: Fluoride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 223

Total Non-Detect: 66

Percent Non-Detects: 29.5964%

Total Background Measurements: 39

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	0 (0%)	4/7/2022	0.112	0.112
			5/9/2022	0.163	0.163
			5/31/2022	0.169	0.169
			6/20/2022	0.17	0.17
			7/18/2022	0.163	0.163
			8/18/2022	0.176	0.176
			9/13/2022	0.169	0.169
			10/3/2022	0.187	0.187
			5/3/2023	0.164	0.164
MW93-1	30	10 (33.3333%)	10/11/2016	0.1	0.1
			12/20/2016	0.2	0.2
			2/16/2017	0.16	0.16
			3/8/2017	0.19	0.19
			5/9/2017	0.13	0.13
			6/6/2017	0.14	0.14
			8/22/2017	0.1	0.1
			9/22/2017	0.11	0.11
			11/7/2017	0.12	0.12
			2/27/2018	0.16	0.16
			5/24/2018	ND<0.2	ND<0.2
			6/19/2018	ND<0.2	ND<0.2
			7/19/2018	ND<0.2	ND<0.2
			8/22/2018	ND<0.2	ND<0.2
			9/19/2018	0.243	0.243
			9/27/2018	ND<0.1	ND<0.1
			10/18/2018	ND<0.2	ND<0.2
			11/20/2018	ND<0.2	ND<0.2
			12/20/2018	ND<0.2	ND<0.2
			5/7/2019	ND<0.2	ND<0.2
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	0.168	0.168
			11/17/2020	0.183	0.183
			5/26/2021	0.245	0.245
			11/17/2021	0.168	0.168
			4/8/2022	0.194	0.194
4/8/2022	0.194	0.194			
10/4/2022	0.162	0.162			
10/4/2022	0.162	0.162			
5/4/2023	0.239	0.239			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
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MW03-1	28	15 (53.5714%)	10/11/2016	ND<0.1	ND<0.1
			12/20/2016	0.18	0.18
			2/16/2017	0.13	0.13
			3/8/2017	0.19	0.19
			5/9/2017	0.1	0.1
			6/6/2017	ND<0.1	ND<0.1
			8/22/2017	0.1	0.1
			9/22/2017	0.1	0.1
			11/7/2017	0.12	0.12
			2/27/2018	0.1	0.1
			5/24/2018	ND<0.2	ND<0.2
			6/19/2018	ND<0.2	ND<0.2
			7/19/2018	ND<0.2	ND<0.2
			8/22/2018	ND<0.1	ND<0.1
			9/19/2018	0.21	0.21
			10/18/2018	ND<0.2	ND<0.2
			11/20/2018	ND<0.2	ND<0.2
			12/20/2018	ND<0.2	ND<0.2
			3/26/2019	ND<0.2	ND<0.2
			5/7/2019	ND<0.2	ND<0.2
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	0.0846	0.0846
			11/17/2020	0.109	0.109
			5/26/2021	ND<0.15	ND<0.15
			11/16/2021	0.134	0.134
			4/8/2022	ND<0.15	ND<0.15
			4/8/2022	ND<0.15	ND<0.15
			5/3/2023	0.0937	0.0937

MW03-2	29	15 (51.7241%)	10/11/2016	ND<0.1	ND<0.1
			12/20/2016	0.14	0.14
			2/16/2017	0.12	0.12
			3/8/2017	0.14	0.14
			5/9/2017	ND<0.1	ND<0.1
			6/6/2017	0.1	0.1
			8/22/2017	ND<0.1	ND<0.1
			9/22/2017	ND<0.1	ND<0.1
			11/7/2017	0.1	0.1
			2/27/2018	0.12	0.12
			5/24/2018	ND<0.2	ND<0.2
			6/19/2018	ND<0.2	ND<0.2
			7/19/2018	ND<0.2	ND<0.2
			8/22/2018	ND<0.2	ND<0.2
			9/19/2018	0.21	0.21
			10/18/2018	ND<0.2	ND<0.2
			11/20/2018	ND<0.2	ND<0.2
			12/20/2018	ND<0.2	ND<0.2
			5/7/2019	ND<0.2	ND<0.2
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	0.119	0.119
			11/17/2020	0.116	0.116
			5/26/2021	0.09	0.09
			11/17/2021	0.117	0.117
			4/8/2022	0.0746	0.0746
			4/8/2022	0.0746	0.0746
			10/3/2022	ND<0.15	ND<0.15
			10/3/2022	ND<0.15	ND<0.15

			5/3/2023	0.0814	0.0814
MW93-2	31	5 (16.129%)	10/11/2016	0.81	0.81
			12/20/2016	1.06	1.06
			2/16/2017	0.68	0.68
			3/8/2017	0.79	0.79
			5/9/2017	0.7	0.7
			6/6/2017	0.68	0.68
			8/22/2017	0.35	0.35
			9/22/2017	0.51	0.51
			11/7/2017	0.12	0.12
			2/27/2018	ND<0.1	ND<0.1
			5/24/2018	0.937	0.937
			6/19/2018	0.991	0.991
			7/19/2018	0.906	0.906
			8/22/2018	0.865	0.865
			9/19/2018	1	1
			10/18/2018	0.698	0.698
			11/20/2018	1.02	1.02
			12/20/2018	0.685	0.685
			5/7/2019	0.367	0.367
			11/21/2019	0.554	0.554
			6/25/2020	0.313	0.313
			11/16/2020	0.705	0.705
			5/26/2021	0.287	0.287
			11/17/2021	0.793	0.793
			4/8/2022	0.375	0.375
			4/8/2022	0.375	0.375
10/4/2022	ND<3	ND<3			
10/4/2022	ND<3	ND<3			
10/4/2022	ND<3	ND<3			
10/4/2022	ND<3	ND<3			
5/4/2023	0.878	0.878			
MW93-3	29	6 (20.6897%)	10/11/2016	0.15	0.15
			12/20/2016	0.23	0.23
			2/16/2017	0.2	0.2
			3/8/2017	0.22	0.22
			5/9/2017	0.18	0.18
			6/6/2017	0.24	0.24
			8/22/2017	0.23	0.23
			9/22/2017	0.2	0.2
			11/7/2017	0.2	0.2
			2/27/2018	0.21	0.21
			5/24/2018	0.23	0.23
			6/19/2018	0.223	0.223
			7/19/2018	ND<0.21	ND<0.21
			8/22/2018	ND<0.2	ND<0.2
			9/19/2018	0.389	0.389
			10/18/2018	ND<0.2	ND<0.2
			11/20/2018	0.283	0.283
			12/20/2018	ND<0.2	ND<0.2
			5/7/2019	ND<0.2	ND<0.2
			11/21/2019	ND<0.2	ND<0.2
6/25/2020	0.252	0.252			
11/16/2020	0.27	0.27			
5/26/2021	0.233	0.233			

			11/17/2021	0.329	0.329
			4/8/2022	0.19	0.19
			4/8/2022	0.19	0.19
			10/4/2022	0.278	0.278
			10/4/2022	0.278	0.278
			5/3/2023	0.325	0.325
MW22-05	10	1 (10%)	4/7/2022	0.122	0.122
			5/9/2022	0.12	0.12
			5/31/2022	0.115	0.115
			6/20/2022	0.123	0.123
			7/18/2022	0.162	0.162
			8/18/2022	0.172	0.172
			9/13/2022	0.188	0.188
			10/3/2022	0.159	0.159
			5/3/2023	ND<0.75	ND<0.75
			5/3/2023	0.133	0.133
MW22-04	10	0 (0%)	4/7/2022	0.114	0.114
			5/9/2022	0.407	0.407
			5/31/2022	0.159	0.159
			6/20/2022	0.189	0.189
			6/20/2022	0.181	0.181
			7/18/2022	0.112	0.112
			8/18/2022	0.104	0.104
			9/13/2022	0.0839	0.0839
			10/4/2022	0.0913	0.0913
			5/4/2023	0.14	0.14
MW22-02	9	6 (66.6667%)	4/7/2022	ND<1.5	ND<1.5
			5/9/2022	0.397	0.397
			5/31/2022	0.678	0.678
			6/20/2022	ND<1.5	ND<1.5
			7/19/2022	ND<1.5	ND<1.5
			8/18/2022	0.232	0.232
			9/13/2022	ND<1.5	ND<1.5
			10/3/2022	ND<1.5	ND<1.5
			5/4/2023	ND<1.5	ND<1.5
MW22-03	9	6 (66.6667%)	4/7/2022	ND<0.15	ND<0.15
			5/9/2022	ND<0.15	ND<0.15
			5/31/2022	0.0735	0.0735
			6/20/2022	ND<0.15	ND<0.15
			7/19/2022	0.083	0.083
			8/18/2022	ND<0.15	ND<0.15
			9/13/2022	0.0648	0.0648
			10/4/2022	ND<0.15	ND<0.15
			5/4/2023	ND<0.75	ND<0.75
MW22-08	10	1 (10%)	4/8/2022	0.227	0.227
			5/9/2022	0.255	0.255
			5/31/2022	0.296	0.296
			5/31/2022	0.217	0.217
			6/20/2022	0.202	0.202
			7/18/2022	0.21	0.21
			8/18/2022	0.235	0.235
			9/13/2022	ND<0.75	ND<0.75

			10/4/2022	0.239	0.239
			5/3/2023	0.551	0.551
MW22-07	9	0 (0%)	4/8/2022	0.166	0.166
			5/9/2022	0.375	0.375
			5/31/2022	0.35	0.35
			6/20/2022	0.321	0.321
			7/19/2022	0.178	0.178
			8/18/2022	0.152	0.152
			9/13/2022	0.141	0.141
			10/4/2022	0.153	0.153
			5/4/2023	0.253	0.253
MW22-06	10	1 (10%)	4/8/2022	0.0837	0.0837
			5/9/2022	0.124	0.124
			5/31/2022	0.102	0.102
			6/20/2022	0.115	0.115
			7/18/2022	0.11	0.11
			8/18/2022	0.11	0.11
			8/18/2022	0.093	0.093
			9/13/2022	0.0773	0.0773
			10/3/2022	ND<0.15	ND<0.15
			5/3/2023	0.0844	0.0844

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Fluoride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 29.5964%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 39

Maximum Background Value = 0.245

Confidence Level = 83%

False Positive Rate = 17%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	0.0937	FALSE
MW03-2	5/3/2023	1	0.0814	FALSE
MW93-2	5/4/2023	1	0.878	TRUE
MW93-3	5/3/2023	1	0.325	TRUE
MW22-05	5/3/2023	2	0.4415	TRUE
MW22-04	5/4/2023	1	0.14	FALSE
MW22-02	5/4/2023	1	1.5	TRUE
MW22-03	5/4/2023	1	0.75	TRUE
MW22-08	5/3/2023	1	0.551	TRUE
MW22-07	5/4/2023	1	0.253	TRUE
MW22-06	5/3/2023	1	0.0844	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Fluoride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 62.5%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.15

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	ND<0.15
	5/9/2022	ND<0.15
	5/31/2022	0.0735
	6/20/2022	ND<0.15
	7/19/2022	0.083
	8/18/2022	ND<0.15
	9/13/2022	0.0648
	10/4/2022	ND<0.15

Date	Count	Mean	Significant
5/4/2023	1	0.75	TRUE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-05

Parameter: Fluoride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.188

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	0.122
	5/9/2022	0.12
	5/31/2022	0.115
	6/20/2022	0.123
	7/18/2022	0.162
	8/18/2022	0.172
	9/13/2022	0.188
	10/3/2022	0.159

Date	Count	Mean	Significant
5/3/2023	2	0.4415	TRUE

Levene's Test for Equal of Variance

Parameter: Fluoride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.138134

Overall Std Dev = 0.306107

Overall Total = 30.8038

SS Groups = 7.67416

SS Total = 20.8017

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	7.67416	12	0.639514	10.2302
Error (within groups)	13.1276	210	0.0625123	
Totals	20.8017	222		

95% F-Statistic = 1.75

10.2302 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	0.0516667
5/9/2022	0.000666667
5/31/2022	0.00533333
6/20/2022	0.00633333
7/18/2022	0.000666667
8/18/2022	0.0123333
9/13/2022	0.00533333
10/3/2022	0.0233333
5/3/2023	0.000333333

Group: MW93-1

Sample	Residual
10/11/2016	0.0756
12/20/2016	0.0244
2/16/2017	0.0156
3/8/2017	0.0144
5/9/2017	0.0456
6/6/2017	0.0356
8/22/2017	0.0756
9/22/2017	0.0656
11/7/2017	0.0556
2/27/2018	0.0156
5/24/2018	0.0244
6/19/2018	0.0244
7/19/2018	0.0244
8/22/2018	0.0244
9/19/2018	0.0674
9/27/2018	0.0756
10/18/2018	0.0244
11/20/2018	0.0244
12/20/2018	0.0244

5/7/2019	0.0244
11/21/2019	0.0244
6/25/2020	0.0076
11/17/2020	0.0074
5/26/2021	0.0694
11/17/2021	0.0076
4/8/2022	0.0184
4/8/2022	0.0184
10/4/2022	0.0136
10/4/2022	0.0136
5/4/2023	0.0634

Group: MW03-1

Date	Residual
10/11/2016	0.0500464
12/20/2016	0.0299536
2/16/2017	0.0200464
3/8/2017	0.0399536
5/9/2017	0.0500464
6/6/2017	0.0500464
8/22/2017	0.0500464
9/22/2017	0.0500464
11/7/2017	0.0300464
2/27/2018	0.0500464
5/24/2018	0.0499536
6/19/2018	0.0499536
7/19/2018	0.0499536
8/22/2018	0.0500464
9/19/2018	0.0599536
10/18/2018	0.0499536
11/20/2018	0.0499536
12/20/2018	0.0499536
3/26/2019	0.0499536
5/7/2019	0.0499536
11/21/2019	0.0499536
6/25/2020	0.0654464
11/17/2020	0.0410464
5/26/2021	4.64286e-005
11/16/2021	0.0160464
4/8/2022	4.64286e-005
4/8/2022	4.64286e-005
5/3/2023	0.0563464

Group: MW03-2

Date	Residual
10/11/2016	0.041469
12/20/2016	0.00146897
2/16/2017	0.021469
3/8/2017	0.00146897
5/9/2017	0.041469
6/6/2017	0.041469
8/22/2017	0.041469
9/22/2017	0.041469
11/7/2017	0.041469
2/27/2018	0.021469
5/24/2018	0.058531
6/19/2018	0.058531
7/19/2018	0.058531
8/22/2018	0.058531

9/19/2018	0.068531
10/18/2018	0.058531
11/20/2018	0.058531
12/20/2018	0.058531
5/7/2019	0.058531
11/21/2019	0.058531
6/25/2020	0.022469
11/17/2020	0.025469
5/26/2021	0.051469
11/17/2021	0.024469
4/8/2022	0.066869
4/8/2022	0.066869
10/3/2022	0.00853103
10/3/2022	0.00853103
5/3/2023	0.060069

Group: MW93-2

Date	Residual
10/11/2016	0.143194
12/20/2016	0.106806
2/16/2017	0.273194
3/8/2017	0.163194
5/9/2017	0.253194
6/6/2017	0.273194
8/22/2017	0.603194
9/22/2017	0.443194
11/7/2017	0.833194
2/27/2018	0.853194
5/24/2018	0.0161935
6/19/2018	0.0378065
7/19/2018	0.0471935
8/22/2018	0.0881935
9/19/2018	0.0468065
10/18/2018	0.255194
11/20/2018	0.0668065
12/20/2018	0.268194
5/7/2019	0.586194
11/21/2019	0.399194
6/25/2020	0.640194
11/16/2020	0.248194
5/26/2021	0.666194
11/17/2021	0.160194
4/8/2022	0.578194
4/8/2022	0.578194
10/4/2022	2.04681
10/4/2022	2.04681
10/4/2022	2.04681
10/4/2022	2.04681
5/4/2023	0.0751935

Group: MW93-3

Date	Residual
10/11/2016	0.0824138
12/20/2016	0.00241379
2/16/2017	0.0324138
3/8/2017	0.0124138
5/9/2017	0.0524138
6/6/2017	0.00758621
8/22/2017	0.00241379

9/22/2017	0.0324138
11/7/2017	0.0324138
2/27/2018	0.0224138
5/24/2018	0.00241379
6/19/2018	0.00941379
7/19/2018	0.0224138
8/22/2018	0.0324138
9/19/2018	0.156586
10/18/2018	0.0324138
11/20/2018	0.0505862
12/20/2018	0.0324138
5/7/2019	0.0324138
11/21/2019	0.0324138
6/25/2020	0.0195862
11/16/2020	0.0375862
5/26/2021	0.000586207
11/17/2021	0.0965862
4/8/2022	0.0424138
4/8/2022	0.0424138
10/4/2022	0.0455862
10/4/2022	0.0455862
5/3/2023	0.0925862

Group: MW22-05

Date	Residual
4/7/2022	0.0824
5/9/2022	0.0844
5/31/2022	0.0894
6/20/2022	0.0814
7/18/2022	0.0424
8/18/2022	0.0324
9/13/2022	0.0164
10/3/2022	0.0454
5/3/2023	0.5456
5/3/2023	0.0714

Group: MW22-04

Date	Residual
4/7/2022	0.04412
5/9/2022	0.24888
5/31/2022	0.00088
6/20/2022	0.03088
6/20/2022	0.02288
7/18/2022	0.04612
8/18/2022	0.05412
9/13/2022	0.07422
10/4/2022	0.06682
5/4/2023	0.01812

Group: MW22-02

Date	Residual
4/7/2022	0.354778
5/9/2022	0.748222
5/31/2022	0.467222
6/20/2022	0.354778
7/19/2022	0.354778
8/18/2022	0.913222
9/13/2022	0.354778
10/3/2022	0.354778
5/4/2023	0.354778

Group: MW22-03

Date	Residual
4/7/2022	0.0412556
5/9/2022	0.0412556
5/31/2022	0.117756
6/20/2022	0.0412556
7/19/2022	0.108256
8/18/2022	0.0412556
9/13/2022	0.126456
10/4/2022	0.0412556
5/4/2023	0.558744

Group: MW22-08

Date	Residual
4/8/2022	0.0912
5/9/2022	0.0632
5/31/2022	0.0222
5/31/2022	0.1012
6/20/2022	0.1162
7/18/2022	0.1082
8/18/2022	0.0832
9/13/2022	0.4318
10/4/2022	0.0792
5/3/2023	0.2328

Group: MW22-07

Date	Residual
4/8/2022	0.0661111
5/9/2022	0.142889
5/31/2022	0.117889
6/20/2022	0.0888889
7/19/2022	0.0541111
8/18/2022	0.0801111
9/13/2022	0.0911111
10/4/2022	0.0791111
5/4/2023	0.0208889

Group: MW22-06

Date	Residual
4/8/2022	0.02124
5/9/2022	0.01906
5/31/2022	0.00294
6/20/2022	0.01006
7/18/2022	0.00506
8/18/2022	0.00506
8/18/2022	0.01194
9/13/2022	0.02764
10/3/2022	0.04506
5/3/2023	0.02054

Concentrations (ppb)

Parameter: Lead

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 148

Total Non-Detect: 142

Percent Non-Detects: 95.9459%

Total Background Measurements: 24

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	8 (88.8889%)	4/7/2022	ND<0.002	ND<0.002
			5/9/2022	0.000601	0.000601
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			MW93-1	15	15 (100%)
6/19/2018	ND<0.005	ND<0.005			
7/19/2018	ND<0.005	ND<0.005			
8/22/2018	ND<0.005	ND<0.005			
9/19/2018	ND<0.005	ND<0.005			
10/18/2018	ND<0.005	ND<0.005			
11/20/2018	ND<0.005	ND<0.005			
12/20/2018	ND<0.005	ND<0.005			
11/21/2019	ND<0.001	ND<0.001			
6/25/2020	ND<0.002	ND<0.002			
11/17/2020	ND<0.002	ND<0.002			
5/26/2021	ND<0.002	ND<0.002			
11/17/2021	ND<0.002	ND<0.002			
4/8/2022	ND<0.002	ND<0.002			
5/4/2023	ND<0.002	ND<0.002			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	15	12 (80%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	0.124	0.124
			8/22/2018	0.143	0.143
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	0.00791	0.00791
			3/26/2019	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/16/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002

MW03-2	15	15 (100%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
MW22-02	9	9 (100%)	4/7/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
			MW22-03	9	8 (88.8889%)
5/9/2022	ND<0.002	ND<0.002			
5/31/2022	ND<0.002	ND<0.002			
6/20/2022	ND<0.002	ND<0.002			
7/18/2022	ND<0.002	ND<0.002			
8/18/2022	ND<0.002	ND<0.002			
9/13/2022	ND<0.002	ND<0.002			
10/3/2022	ND<0.002	ND<0.002			
5/4/2023	0.000561	0.000561			
MW22-04	9	9 (100%)			
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
			MW22-05	10	9 (90%)
5/9/2022	ND<0.002	ND<0.002			
5/31/2022	ND<0.002	ND<0.002			
6/20/2022	ND<0.002	ND<0.002			
7/18/2022	ND<0.002	ND<0.002			
8/18/2022	ND<0.002	ND<0.002			
9/13/2022	ND<0.002	ND<0.002			
10/3/2022	ND<0.002	ND<0.002			
5/3/2023	ND<0.002	ND<0.002			
5/3/2023	ND<0.002	ND<0.002			

MW22-06	9	9 (100%)	4/8/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
MW22-07	9	9 (100%)	4/8/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
MW22-08	9	9 (100%)	4/8/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
MW93-2	15	15 (100%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.002	ND<0.002
			11/16/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
5/4/2023	ND<0.002	ND<0.002			
MW93-3	15	15 (100%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.002	ND<0.002

11/16/2020	ND<0.002	ND<0.002
5/26/2021	ND<0.002	ND<0.002
11/17/2021	ND<0.002	ND<0.002
4/8/2022	ND<0.002	ND<0.002
5/3/2023	ND<0.002	ND<0.002

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Lead

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.9459%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 24

Maximum Background Value = 0.005

Confidence Level = 75%

False Positive Rate = 25%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	0.002	FALSE
MW03-2	5/3/2023	1	0.002	FALSE
MW22-02	5/4/2023	1	0.002	FALSE
MW22-03	5/4/2023	1	0.000561	FALSE
MW22-04	5/4/2023	1	0.002	FALSE
MW22-05	5/3/2023	2	0.002	FALSE
MW22-06	5/3/2023	1	0.002	FALSE
MW22-07	5/4/2023	1	0.002	FALSE
MW22-08	5/3/2023	1	0.002	FALSE
MW93-2	5/4/2023	1	0.002	FALSE
MW93-3	5/3/2023	1	0.002	FALSE

Shapiro-Francia Test of Normality

Parameter: Lead

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 148

i	x(i)	m(i)	sum(m²)	sum(mx)
1	0.000561	-2.51213	6.31081	-0.00140931
2	0.000601	-2.22621	11.2668	-0.00274726
3	0.001	-2.05375	15.4847	-0.00480101
4	0.001	-1.94314	19.2605	-0.00674414
5	0.001	-1.83843	22.6403	-0.00858257
6	0.001	-1.75069	25.7052	-0.0103333
7	0.001	-1.68494	28.5442	-0.0120182
8	0.0012	-1.61644	31.1571	-0.0139579
9	0.002	-1.55477	33.5744	-0.0170675
10	0.002	-1.49852	35.8199	-0.0200645
11	0.002	-1.4538	37.9335	-0.0229721
12	0.002	-1.40507	39.9077	-0.0257822
13	0.002	-1.35946	41.7558	-0.0285012
14	0.002	-1.32251	43.5049	-0.0311462
15	0.002	-1.28155	45.1472	-0.0337093
16	0.002	-1.24264	46.6914	-0.0361946
17	0.002	-1.20553	48.1447	-0.0386056
18	0.002	-1.17499	49.5253	-0.0409556
19	0.002	-1.14069	50.8265	-0.043237
20	0.002	-1.10768	52.0534	-0.0454523
21	0.002	-1.08032	53.2205	-0.047613
22	0.002	-1.04939	54.3217	-0.0497117
23	0.002	-1.01943	55.3609	-0.0517506
24	0.002	-0.990356	56.3418	-0.0537313
25	0.002	-0.966088	57.2751	-0.0556635
26	0.002	-0.938476	58.1558	-0.0575404
27	0.002	-0.911562	58.9868	-0.0593636
28	0.002	-0.889006	59.7771	-0.0611416
29	0.002	-0.863249	60.5223	-0.0628681
30	0.002	-0.838054	61.2246	-0.0645442
31	0.002	-0.813379	61.8862	-0.0661709
32	0.002	-0.792618	62.5145	-0.0677562
33	0.002	-0.768821	63.1055	-0.0692938
34	0.002	-0.745449	63.6612	-0.0707847
35	0.002	-0.725736	64.1879	-0.0722362
36	0.002	-0.703089	64.6823	-0.0736424
37	0.002	-0.680797	65.1457	-0.075004
38	0.002	-0.658838	65.5798	-0.0763216
39	0.002	-0.640266	65.9898	-0.0776022
40	0.002	-0.618872	66.3728	-0.0788399
41	0.002	-0.597761	66.7301	-0.0800354
42	0.002	-0.579873	67.0663	-0.0811952
43	0.002	-0.559237	67.3791	-0.0823137
44	0.002	-0.538836	67.6694	-0.0833913
45	0.002	-0.518658	67.9384	-0.0844286
46	0.002	-0.501527	68.19	-0.0854317
47	0.002	-0.481728	68.422	-0.0863952

48	0.002	-0.462114	68.6356	-0.0873194
49	0.002	-0.445443	68.834	-0.0882103
50	0.002	-0.426148	69.0156	-0.0890626
51	0.002	-0.40701	69.1812	-0.0898766
52	0.002	-0.390726	69.3339	-0.090658
53	0.002	-0.371856	69.4722	-0.0914017
54	0.002	-0.353118	69.5969	-0.092108
55	0.002	-0.334503	69.7088	-0.092777
56	0.002	-0.318639	69.8103	-0.0934143
57	0.002	-0.300232	69.9004	-0.0940147
58	0.002	-0.281926	69.9799	-0.0945786
59	0.002	-0.266311	70.0508	-0.0951112
60	0.002	-0.248174	70.1124	-0.0956076
61	0.002	-0.230118	70.1654	-0.0960678
62	0.002	-0.212137	70.2104	-0.0964921
63	0.002	-0.196779	70.2491	-0.0968856
64	0.002	-0.17892	70.2811	-0.0972435
65	0.002	-0.161119	70.3071	-0.0975657
66	0.002	-0.1459	70.3284	-0.0978575
67	0.002	-0.128189	70.3448	-0.0981139
68	0.002	-0.110516	70.357	-0.0983349
69	0.002	-0.0928787	70.3656	-0.0985207
70	0.002	-0.0777834	70.3717	-0.0986762
71	0.002	-0.0601949	70.3753	-0.0987966
72	0.002	-0.0426257	70.3771	-0.0988819
73	0.002	-0.0275759	70.3779	-0.098937
74	0.002	-0.0100272	70.378	-0.0989571
75	0.002	0.0100272	70.3781	-0.098937
76	0.002	0.0275759	70.3789	-0.0988819
77	0.002	0.0426257	70.3807	-0.0987966
78	0.002	0.0601949	70.3843	-0.0986762
79	0.002	0.0777834	70.3904	-0.0985207
80	0.002	0.0928787	70.399	-0.0983349
81	0.002	0.110516	70.4112	-0.0981139
82	0.002	0.128189	70.4276	-0.0978575
83	0.002	0.1459	70.4489	-0.0975657
84	0.002	0.161119	70.4749	-0.0972435
85	0.002	0.17892	70.5069	-0.0968856
86	0.002	0.196779	70.5456	-0.0964921
87	0.002	0.212137	70.5906	-0.0960678
88	0.002	0.230118	70.6436	-0.0956076
89	0.002	0.248174	70.7052	-0.0951112
90	0.002	0.266311	70.7761	-0.0945786
91	0.002	0.281926	70.8556	-0.0940147
92	0.002	0.300232	70.9457	-0.0934143
93	0.002	0.318639	71.0472	-0.092777
94	0.002	0.334503	71.1591	-0.092108
95	0.002	0.353118	71.2838	-0.0914017
96	0.002	0.371856	71.4221	-0.090658
97	0.002	0.390726	71.5748	-0.0898766
98	0.002	0.40701	71.7404	-0.0890626
99	0.002	0.426148	71.922	-0.0882103
100	0.002	0.445443	72.1204	-0.0873194
101	0.002	0.462114	72.334	-0.0863952
102	0.002	0.481728	72.566	-0.0854317
103	0.002	0.501527	72.8176	-0.0844286
104	0.002	0.518658	73.0866	-0.0833913

105	0.002	0.538836	73.3769	-0.0823137
106	0.002	0.559237	73.6897	-0.0811952
107	0.002	0.579873	74.0259	-0.0800354
108	0.002	0.597761	74.3832	-0.0788399
109	0.005	0.618872	74.7662	-0.0757456
110	0.005	0.640266	75.1762	-0.0725442
111	0.005	0.658838	75.6103	-0.06925
112	0.005	0.680797	76.0737	-0.065846
113	0.005	0.703089	76.5681	-0.0623306
114	0.005	0.725736	77.0948	-0.0587019
115	0.005	0.745449	77.6505	-0.0549747
116	0.005	0.768821	78.2415	-0.0511306
117	0.005	0.792618	78.8698	-0.0471675
118	0.005	0.813379	79.5314	-0.0431006
119	0.005	0.838054	80.2337	-0.0389103
120	0.005	0.863249	80.9789	-0.0345941
121	0.005	0.889006	81.7692	-0.030149
122	0.005	0.911562	82.6002	-0.0255912
123	0.005	0.938476	83.4809	-0.0208989
124	0.005	0.966088	84.4142	-0.0160684
125	0.005	0.990356	85.395	-0.0111166
126	0.005	1.01943	86.4343	-0.0060195
127	0.005	1.04939	87.5355	-0.000772566
128	0.005	1.08032	88.7026	0.00462904
129	0.005	1.10768	89.9295	0.0101674
130	0.005	1.14069	91.2307	0.0158709
131	0.005	1.17499	92.6113	0.0217458
132	0.005	1.20553	94.0646	0.0277734
133	0.005	1.24264	95.6088	0.0339867
134	0.005	1.28155	97.2511	0.0403944
135	0.005	1.32251	99.0002	0.0470069
136	0.005	1.35946	100.848	0.0538043
137	0.005	1.40507	102.823	0.0608296
138	0.005	1.4538	104.936	0.0680986
139	0.005	1.49852	107.182	0.0755912
140	0.005	1.55477	109.599	0.0833651
141	0.005	1.61644	112.212	0.0914473
142	0.005	1.68494	115.051	0.099872
143	0.005	1.75069	118.116	0.108625
144	0.005	1.83843	121.496	0.117818
145	0.005	1.94314	125.271	0.127533
146	0.00791	2.05375	129.489	0.143778
147	0.124	2.22621	134.445	0.419828
148	0.143	2.51213	140.756	0.779063

Data Set Standard Deviation = 0.0152555
 Numerator = 0.606939
 Denominator = 4.81544
 W Statistic = 0.12604 = 0.606939 / 4.81544

5% Critical value of 0.976 exceeds 0.12604
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.12604
Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Lead

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.00372236

Overall Std Dev = 0.013706

Overall Total = 0.550909

SS Groups = 0.0116312

SS Total = 0.0276145

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	0.0116312	12	0.000969271	8.18681
Error (within groups)	0.0159832	135	0.000118394	
Totals	0.0276145	147		

95% F-Statistic = 1.75

8.18681 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	0.000155444
5/9/2022	0.00124356
5/31/2022	0.000155444
6/20/2022	0.000155444
7/18/2022	0.000155444
8/18/2022	0.000155444
9/13/2022	0.000155444
10/3/2022	0.000155444
5/3/2023	0.000155444

Group: MW93-1

Sample	Residual
5/24/2018	0.00146667
6/19/2018	0.00146667
7/19/2018	0.00146667
8/22/2018	0.00146667
9/19/2018	0.00146667
10/18/2018	0.00146667
11/20/2018	0.00146667
12/20/2018	0.00146667
11/21/2019	0.00253333
6/25/2020	0.00153333
11/17/2020	0.00153333
5/26/2021	0.00153333
11/17/2021	0.00153333
4/8/2022	0.00153333
5/4/2023	0.00153333

Group: MW03-1

Date	Residual
5/24/2018	0.0158607
6/19/2018	0.0158607

7/19/2018	0.103139
8/22/2018	0.122139
10/18/2018	0.0158607
11/20/2018	0.0158607
12/20/2018	0.0129507
3/26/2019	0.0158607
11/21/2019	0.0198607
6/25/2020	0.0188607
11/17/2020	0.0188607
5/26/2021	0.0188607
11/16/2021	0.0188607
4/8/2022	0.0188607
5/3/2023	0.0188607

Group: MW03-2

Date	Residual
5/24/2018	0.00146667
6/19/2018	0.00146667
7/19/2018	0.00146667
8/22/2018	0.00146667
9/19/2018	0.00146667
10/18/2018	0.00146667
11/20/2018	0.00146667
12/20/2018	0.00146667
11/21/2019	0.00253333
6/25/2020	0.00153333
11/17/2020	0.00153333
5/26/2021	0.00153333
11/17/2021	0.00153333
4/8/2022	0.00153333
5/3/2023	0.00153333

Group: MW22-02

Date	Residual
4/7/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/18/2022	0
8/18/2022	0
9/13/2022	0
10/3/2022	0
5/4/2023	0

Group: MW22-03

Date	Residual
4/7/2022	0.000159889
5/9/2022	0.000159889
5/31/2022	0.000159889
6/20/2022	0.000159889
7/18/2022	0.000159889
8/18/2022	0.000159889
9/13/2022	0.000159889
10/3/2022	0.000159889
5/4/2023	0.00127911

Group: MW22-04

Date	Residual
4/7/2022	0
5/9/2022	0
5/31/2022	0

6/20/2022	0
7/18/2022	0
8/18/2022	0
9/13/2022	0
10/3/2022	0
5/4/2023	0

Group: MW22-05

Date	Residual
4/7/2022	0.00072
5/9/2022	8e-005
5/31/2022	8e-005
6/20/2022	8e-005
7/18/2022	8e-005
8/18/2022	8e-005
9/13/2022	8e-005
10/3/2022	8e-005
5/3/2023	8e-005
5/3/2023	8e-005

Group: MW22-06

Date	Residual
4/8/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/18/2022	0
8/18/2022	0
9/13/2022	0
10/3/2022	0
5/3/2023	0

Group: MW22-07

Date	Residual
4/8/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/18/2022	0
8/18/2022	0
9/13/2022	0
10/3/2022	0
5/4/2023	0

Group: MW22-08

Date	Residual
4/8/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/18/2022	0
8/18/2022	0
9/13/2022	0
10/3/2022	0
5/3/2023	0

Group: MW93-2

Date	Residual
5/24/2018	0.00146667
6/19/2018	0.00146667
7/19/2018	0.00146667
8/22/2018	0.00146667

9/19/2018	0.00146667
10/18/2018	0.00146667
11/20/2018	0.00146667
12/20/2018	0.00146667
11/21/2019	0.00253333
6/25/2020	0.00153333
11/16/2020	0.00153333
5/26/2021	0.00153333
11/17/2021	0.00153333
4/8/2022	0.00153333
5/4/2023	0.00153333

Group: MW93-3

Date	Residual
5/24/2018	0.00146667
6/19/2018	0.00146667
7/19/2018	0.00146667
8/22/2018	0.00146667
9/19/2018	0.00146667
10/18/2018	0.00146667
11/20/2018	0.00146667
12/20/2018	0.00146667
11/21/2019	0.00253333
6/25/2020	0.00153333
11/16/2020	0.00153333
5/26/2021	0.00153333
11/17/2021	0.00153333
4/8/2022	0.00153333
5/3/2023	0.00153333

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-3

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 6.66667%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 15

Maximum Baseline Concentration = 0.187

Confidence Level = 93.8%

False Positive Rate = 6.2%

Baseline Measurements	Date	Value
	5/24/2018	0.178
	6/19/2018	0.162
	7/19/2018	ND<0.015
	8/22/2018	0.159
	9/19/2018	0.16
	10/18/2018	0.164
	11/20/2018	0.187
	12/20/2018	0.168
	11/21/2019	0.182
	6/25/2020	0.124
	11/16/2020	0.128
	5/26/2021	0.127
	11/17/2021	0.124
	4/8/2022	0.135
	10/4/2022	0.137

Date	Count	Mean	Significant
5/3/2023	1	0.125	FALSE

Concentrations (ppb)

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 156

Total Non-Detect: 53

Percent Non-Detects: 33.9744%

Total Background Measurements: 25

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	1 (11.1111%)	4/7/2022	0.037	0.037
			5/9/2022	0.0177	0.0177
			5/31/2022	0.018	0.018
			6/20/2022	0.0132	0.0132
			7/18/2022	0.0136	0.0136
			8/18/2022	0.00837	0.00837
			9/13/2022	0.00773	0.00773
			10/3/2022	ND<0.015	ND<0.015
			5/3/2023	0.00691	0.00691
MW93-1	16	15 (93.75%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.015	ND<0.015
			7/19/2018	ND<0.015	ND<0.015
			8/22/2018	ND<0.015	ND<0.015
			9/19/2018	ND<0.015	ND<0.015
			10/18/2018	ND<0.015	ND<0.015
			11/20/2018	ND<0.015	ND<0.015
			12/20/2018	ND<0.015	ND<0.015
			11/21/2019	ND<0.015	ND<0.015
			6/25/2020	ND<0.015	ND<0.015
			11/17/2020	ND<0.015	ND<0.015
			5/26/2021	ND<0.015	ND<0.015
			11/17/2021	ND<0.015	ND<0.015
			4/8/2022	0.0236	0.0236
			10/4/2022	ND<0.015	ND<0.015
5/4/2023	ND<0.015	ND<0.015			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	15	14 (93.3333%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.015	ND<0.015
			7/19/2018	ND<0.015	ND<0.015
			8/22/2018	0.0461	0.0461
			10/18/2018	ND<0.015	ND<0.015
			11/20/2018	ND<0.015	ND<0.015
			12/20/2018	ND<0.015	ND<0.015
			3/26/2019	ND<0.015	ND<0.015
			11/21/2019	ND<0.015	ND<0.015
			6/25/2020	ND<0.015	ND<0.015
			11/17/2020	ND<0.015	ND<0.015
			5/26/2021	ND<0.015	ND<0.015
			11/16/2021	ND<0.015	ND<0.015
4/8/2022	ND<0.015	ND<0.015			

			5/3/2023	ND<0.015	ND<0.015
MW03-2	16	8 (50%)	5/24/2018	0.0173	0.0173
			6/19/2018	ND<0.015	ND<0.015
			7/19/2018	ND<0.015	ND<0.015
			8/22/2018	ND<0.015	ND<0.015
			9/19/2018	ND<0.015	ND<0.015
			10/18/2018	ND<0.015	ND<0.015
			11/20/2018	ND<0.015	ND<0.015
			12/20/2018	ND<0.015	ND<0.015
			11/21/2019	0.0154	0.0154
			6/25/2020	0.00813	0.00813
			11/17/2020	ND<0.015	ND<0.015
			5/26/2021	0.0112	0.0112
			11/17/2021	0.0144	0.0144
			4/8/2022	0.0346	0.0346
			10/3/2022	0.00861	0.00861
5/3/2023	0.011	0.011			
MW22-02	9	0 (0%)	4/7/2022	0.0441	0.0441
			5/9/2022	0.0325	0.0325
			5/31/2022	0.0285	0.0285
			6/20/2022	0.0274	0.0274
			7/19/2022	0.0282	0.0282
			8/18/2022	0.0237	0.0237
			9/13/2022	0.023	0.023
			10/3/2022	0.0211	0.0211
			5/4/2023	0.0202	0.0202
MW22-03	9	0 (0%)	4/7/2022	0.0597	0.0597
			5/9/2022	0.149	0.149
			5/31/2022	0.271	0.271
			6/20/2022	0.367	0.367
			7/19/2022	0.368	0.368
			8/18/2022	0.128	0.128
			9/13/2022	0.114	0.114
			10/4/2022	0.0184	0.0184
			5/4/2023	0.247	0.247
MW22-04	10	0 (0%)	4/7/2022	0.0171	0.0171
			5/9/2022	0.018	0.018
			5/31/2022	0.0139	0.0139
			6/20/2022	0.0143	0.0143
			6/20/2022	0.014	0.014
			7/18/2022	0.0106	0.0106
			8/18/2022	0.0118	0.0118
			9/13/2022	0.00973	0.00973
			10/4/2022	0.0111	0.0111
5/4/2023	0.00857	0.00857			
MW22-05	10	0 (0%)	4/7/2022	0.033	0.033
			5/9/2022	0.0211	0.0211
			5/31/2022	0.0181	0.0181
			6/20/2022	0.0188	0.0188
			7/18/2022	0.0181	0.0181
			8/18/2022	0.0153	0.0153
			9/13/2022	0.0138	0.0138

			10/3/2022	0.0117	0.0117
			5/3/2023	0.0109	0.0109
			5/3/2023	0.0106	0.0106
MW22-06	10	1 (10%)	4/8/2022	0.0284	0.0284
			5/9/2022	0.019	0.019
			5/31/2022	0.0158	0.0158
			6/20/2022	0.0169	0.0169
			7/18/2022	0.0147	0.0147
			8/18/2022	0.0108	0.0108
			8/18/2022	0.00802	0.00802
			9/13/2022	0.00796	0.00796
			10/3/2022	ND<0.015	ND<0.015
			5/3/2023	0.00809	0.00809
MW22-07	9	3 (33.3333%)	4/8/2022	0.0104	0.0104
			5/9/2022	0.00925	0.00925
			5/31/2022	0.086	0.086
			6/20/2022	ND<0.015	ND<0.015
			7/19/2022	0.00896	0.00896
			8/18/2022	0.00712	0.00712
			9/13/2022	0.00868	0.00868
			10/4/2022	ND<0.015	ND<0.015
			5/4/2023	ND<0.015	ND<0.015
MW22-08	10	2 (20%)	4/8/2022	0.077	0.077
			5/9/2022	0.0913	0.0913
			5/31/2022	ND<0.015	ND<0.015
			5/31/2022	ND<0.015	ND<0.015
			6/20/2022	0.0896	0.0896
			7/18/2022	0.0893	0.0893
			8/18/2022	0.0962	0.0962
			9/13/2022	0.097	0.097
			10/4/2022	0.0971	0.0971
			5/3/2023	0.0869	0.0869
MW93-2	17	8 (47.0588%)	5/24/2018	0.0302	0.0302
			6/19/2018	ND<0.015	ND<0.015
			7/19/2018	ND<0.015	ND<0.015
			8/22/2018	ND<0.015	ND<0.015
			9/19/2018	ND<0.015	ND<0.015
			10/18/2018	ND<0.015	ND<0.015
			11/20/2018	0.0185	0.0185
			12/20/2018	ND<0.015	ND<0.015
			11/21/2019	ND<0.015	ND<0.015
			6/25/2020	0.00976	0.00976
			11/16/2020	ND<0.015	ND<0.015
			5/26/2021	0.0136	0.0136
			11/17/2021	0.0115	0.0115
			4/8/2022	0.0304	0.0304
			10/4/2022	0.0146	0.0146
			10/4/2022	0.0151	0.0151
			5/4/2023	0.00993	0.00993
MW93-3	16	1 (6.25%)	5/24/2018	0.178	0.178
			6/19/2018	0.162	0.162
			7/19/2018	ND<0.015	ND<0.015

8/22/2018	0.159	0.159
9/19/2018	0.16	0.16
10/18/2018	0.164	0.164
11/20/2018	0.187	0.187
12/20/2018	0.168	0.168
11/21/2019	0.182	0.182
6/25/2020	0.124	0.124
11/16/2020	0.128	0.128
5/26/2021	0.127	0.127
11/17/2021	0.124	0.124
4/8/2022	0.135	0.135
10/4/2022	0.137	0.137
5/3/2023	0.125	0.125

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 33.9744%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 25

Maximum Background Value = 0.037

Confidence Level = 75.8%

False Positive Rate = 24.2%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	0.015	FALSE
MW03-2	5/3/2023	1	0.011	FALSE
MW22-02	5/4/2023	1	0.0202	FALSE
MW22-03	5/4/2023	1	0.247	TRUE
MW22-04	5/4/2023	1	0.00857	FALSE
MW22-05	5/3/2023	2	0.01075	FALSE
MW22-06	5/3/2023	1	0.00809	FALSE
MW22-07	5/4/2023	1	0.015	FALSE
MW22-08	5/3/2023	1	0.0869	TRUE
MW93-2	5/4/2023	1	0.00993	FALSE
MW93-3	5/3/2023	1	0.125	TRUE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.368

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	0.0597
	5/9/2022	0.149
	5/31/2022	0.271
	6/20/2022	0.367
	7/19/2022	0.368
	8/18/2022	0.128
	9/13/2022	0.114
	10/4/2022	0.0184

Date	Count	Mean	Significant
5/4/2023	1	0.247	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-08

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 22.2222%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 9

Maximum Baseline Concentration = 0.0971

Confidence Level = 90%

False Positive Rate = 10%

Baseline Measurements	Date	Value
	4/8/2022	0.077
	5/9/2022	0.0913
	5/31/2022	ND<0.015
	5/31/2022	ND<0.015
	6/20/2022	0.0896
	7/18/2022	0.0893
	8/18/2022	0.0962
	9/13/2022	0.097
	10/4/2022	0.0971

Date	Count	Mean	Significant
5/3/2023	1	0.0869	FALSE

Shapiro-Francia Test of Normality

Parameter: Lithium

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 156

i	x(i)	m(i)	sum(m²)	sum(mx)
1	0.00691	-2.51213	6.31081	-0.0173588
2	0.00712	-2.25713	11.4054	-0.0334296
3	0.00773	-2.07485	15.7104	-0.0494682
4	0.00796	-1.95996	19.5519	-0.0650695
5	0.00802	-1.86629	23.0349	-0.0800371
6	0.00809	-1.77438	26.1834	-0.0943919
7	0.00813	-1.70604	29.0939	-0.108262
8	0.00837	-1.64485	31.7995	-0.122029
9	0.00857	-1.58047	34.2974	-0.135574
10	0.00861	-1.53007	36.6385	-0.148748
11	0.00868	-1.47579	38.8164	-0.161558
12	0.00896	-1.4325	40.8685	-0.174393
13	0.00925	-1.39175	42.8054	-0.187267
14	0.00973	-1.34694	44.6197	-0.200372
15	0.00976	-1.31058	46.3373	-0.213164
16	0.00993	-1.27588	47.9652	-0.225833
17	0.01	-1.23724	49.4959	-0.238205
18	0.01	-1.20553	50.9492	-0.250261
19	0.0104	-1.17	52.3181	-0.262429
20	0.0106	-1.14069	53.6193	-0.27452
21	0.0106	-1.11232	54.8565	-0.286311
22	0.0108	-1.08032	56.0236	-0.297978
23	0.0109	-1.05375	57.134	-0.309464
24	0.011	-1.02789	58.1906	-0.320771
25	0.0111	-0.998575	59.1877	-0.331855
26	0.0112	-0.974114	60.1366	-0.342765
27	0.0115	-0.950222	61.0395	-0.353692
28	0.0117	-0.923014	61.8915	-0.364492
29	0.0118	-0.900227	62.7019	-0.375114
30	0.0132	-0.874218	63.4662	-0.386654
31	0.0136	-0.852385	64.1927	-0.398247
32	0.0136	-0.830953	64.8832	-0.409548
33	0.0138	-0.806422	65.5335	-0.420676
34	0.0139	-0.785774	66.151	-0.431598
35	0.014	-0.765456	66.7369	-0.442315
36	0.0143	-0.742143	67.2877	-0.452927
37	0.0144	-0.722479	67.8096	-0.463331
38	0.0146	-0.699883	68.2995	-0.473549
39	0.0147	-0.680797	68.763	-0.483557
40	0.015	-0.661955	69.2011	-0.493486
41	0.015	-0.640266	69.6111	-0.50309
42	0.015	-0.621911	69.9979	-0.512419
43	0.015	-0.603765	70.3624	-0.521476
44	0.015	-0.582841	70.7021	-0.530218
45	0.015	-0.565108	71.0214	-0.538695
46	0.015	-0.547551	71.3213	-0.546908
47	0.015	-0.52728	71.5993	-0.554817

48	0.015	-0.510074	71.8595	-0.562468
49	0.015	-0.490189	72.0997	-0.569821
50	0.015	-0.473299	72.3238	-0.576921
51	0.015	-0.456542	72.5322	-0.583769
52	0.015	-0.437153	72.7233	-0.590326
53	0.015	-0.420664	72.9002	-0.596636
54	0.015	-0.40429	73.0637	-0.6027
55	0.015	-0.385321	73.2122	-0.60848
56	0.015	-0.369171	73.3485	-0.614018
57	0.015	-0.350451	73.4713	-0.619275
58	0.015	-0.334503	73.5832	-0.624292
59	0.015	-0.318639	73.6847	-0.629072
60	0.015	-0.300232	73.7748	-0.633575
61	0.015	-0.284535	73.8558	-0.637843
62	0.015	-0.268908	73.9281	-0.641877
63	0.015	-0.250759	73.991	-0.645638
64	0.015	-0.235269	74.0463	-0.649167
65	0.015	-0.217267	74.0935	-0.652426
66	0.015	-0.201894	74.1343	-0.655455
67	0.015	-0.186567	74.1691	-0.658253
68	0.015	-0.168741	74.1976	-0.660784
69	0.015	-0.153505	74.2211	-0.663087
70	0.015	-0.138305	74.2403	-0.665161
71	0.015	-0.12061	74.2548	-0.666971
72	0.015	-0.105474	74.2659	-0.668553
73	0.015	-0.0903606	74.2741	-0.669908
74	0.015	-0.0727562	74.2794	-0.670999
75	0.015	-0.0576847	74.2827	-0.671865
76	0.015	-0.0401167	74.2843	-0.672466
77	0.015	-0.0250691	74.285	-0.672843
78	0.015	-0.0100272	74.2851	-0.672993
79	0.015	0.0100272	74.2852	-0.672843
80	0.015	0.0250691	74.2858	-0.672466
81	0.015	0.0401167	74.2874	-0.671865
82	0.015	0.0576847	74.2907	-0.670999
83	0.015	0.0727562	74.296	-0.669908
84	0.015	0.0903606	74.3042	-0.668553
85	0.015	0.105474	74.3153	-0.666971
86	0.015	0.12061	74.3299	-0.665161
87	0.015	0.138305	74.349	-0.663087
88	0.015	0.153505	74.3726	-0.660784
89	0.015	0.168741	74.401	-0.658253
90	0.015	0.186567	74.4358	-0.655455
91	0.0151	0.201894	74.4766	-0.652406
92	0.0153	0.217267	74.5238	-0.649082
93	0.0154	0.235269	74.5792	-0.645459
94	0.0158	0.250759	74.642	-0.641497
95	0.0169	0.268908	74.7143	-0.636952
96	0.0171	0.284535	74.7953	-0.632087
97	0.0173	0.300232	74.8854	-0.626893
98	0.0177	0.318639	74.987	-0.621253
99	0.018	0.334503	75.0989	-0.615232
100	0.018	0.350451	75.2217	-0.608924
101	0.0181	0.369171	75.358	-0.602242
102	0.0181	0.385321	75.5064	-0.595267
103	0.0184	0.40429	75.6699	-0.587828
104	0.0185	0.420664	75.8469	-0.580046

105	0.0188	0.437153	76.038	-0.571828
106	0.019	0.456542	76.2464	-0.563153
107	0.0202	0.473299	76.4704	-0.553593
108	0.0211	0.490189	76.7107	-0.54325
109	0.0211	0.510074	76.9709	-0.532487
110	0.023	0.52728	77.2489	-0.52036
111	0.0236	0.547551	77.5487	-0.507437
112	0.0237	0.565108	77.868	-0.494044
113	0.0274	0.582841	78.2077	-0.478075
114	0.0282	0.603765	78.5723	-0.461048
115	0.0284	0.621911	78.9591	-0.443386
116	0.0285	0.640266	79.369	-0.425139
117	0.0302	0.661955	79.8072	-0.405147
118	0.0304	0.680797	80.2707	-0.384451
119	0.0325	0.699883	80.7605	-0.361705
120	0.033	0.722479	81.2825	-0.337863
121	0.0346	0.742143	81.8332	-0.312185
122	0.037	0.765456	82.4192	-0.283863
123	0.0441	0.785774	83.0366	-0.249211
124	0.0461	0.806422	83.6869	-0.212035
125	0.0597	0.830953	84.3774	-0.162427
126	0.077	0.852385	85.104	-0.096793
127	0.086	0.874218	85.8682	-0.0216103
128	0.0869	0.900227	86.6786	0.0566195
129	0.0893	0.923014	87.5306	0.139045
130	0.0896	0.950222	88.4335	0.224185
131	0.0913	0.974114	89.3824	0.313121
132	0.0962	0.998575	90.3796	0.409184
133	0.097	1.02789	91.4361	0.50889
134	0.0971	1.05375	92.5465	0.611208
135	0.114	1.08032	93.7136	0.734365
136	0.124	1.11232	94.9509	0.872293
137	0.124	1.14069	96.252	1.01374
138	0.125	1.17	97.6209	1.15999
139	0.127	1.20553	99.0742	1.31309
140	0.128	1.23724	100.605	1.47146
141	0.128	1.27588	102.233	1.63477
142	0.135	1.31058	103.95	1.8117
143	0.137	1.34694	105.765	1.99623
144	0.149	1.39175	107.702	2.2036
145	0.159	1.4325	109.754	2.43137
146	0.16	1.47579	111.932	2.66749
147	0.162	1.53007	114.273	2.91536
148	0.164	1.58047	116.771	3.17456
149	0.168	1.64485	119.476	3.45089
150	0.178	1.70604	122.387	3.75457
151	0.182	1.77438	125.535	4.07751
152	0.187	1.86629	129.018	4.4265
153	0.247	1.95996	132.86	4.91061
154	0.271	2.07485	137.165	5.4729
155	0.367	2.25713	142.259	6.30126
156	0.368	2.51213	148.57	7.22573

Data Set Standard Deviation = 0.0635041
Numerator = 52.2112
Denominator = 92.8681

W Statistic = 0.562208 = 52.2112 / 92.8681

**5% Critical value of 0.976 exceeds 0.562208
Evidence of non-normality at 95% level of significance**

**1% Critical value of 0.967 exceeds 0.562208
Evidence of non-normality at 99% level of significance**

Levene's Test for Equal of Variance

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.0140644

Overall Std Dev = 0.0303585

Overall Total = 2.19405

SS Groups = 0.0966479

SS Total = 0.142854

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	0.0966479	12	0.00805399	24.926
Error (within groups)	0.0462057	143	0.000323117	
Totals	0.142854	155		

95% F-Statistic = 1.75

24.926 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	0.0217211
5/9/2022	0.00242111
5/31/2022	0.00272111
6/20/2022	0.00207889
7/18/2022	0.00167889
8/18/2022	0.00690889
9/13/2022	0.00754889
10/3/2022	0.000278889
5/3/2023	0.00836889

Group: MW93-1

Sample	Residual
5/24/2018	0.005225
6/19/2018	0.000225
7/19/2018	0.000225
8/22/2018	0.000225
9/19/2018	0.000225
10/18/2018	0.000225
11/20/2018	0.000225
12/20/2018	0.000225
11/21/2019	0.000225
6/25/2020	0.000225
11/17/2020	0.000225
5/26/2021	0.000225
11/17/2021	0.000225
4/8/2022	0.008375
10/4/2022	0.000225
5/4/2023	0.000225

Group: MW03-1

Date	Residual
5/24/2018	0.00674

6/19/2018	0.00174
7/19/2018	0.00174
8/22/2018	0.02936
10/18/2018	0.00174
11/20/2018	0.00174
12/20/2018	0.00174
3/26/2019	0.00174
11/21/2019	0.00174
6/25/2020	0.00174
11/17/2020	0.00174
5/26/2021	0.00174
11/16/2021	0.00174
4/8/2022	0.00174
5/3/2023	0.00174

Group: MW03-2

Date	Residual
5/24/2018	0.00226
6/19/2018	4e-005
7/19/2018	4e-005
8/22/2018	4e-005
9/19/2018	4e-005
10/18/2018	4e-005
11/20/2018	4e-005
12/20/2018	4e-005
11/21/2019	0.00036
6/25/2020	0.00691
11/17/2020	4e-005
5/26/2021	0.00384
11/17/2021	0.00064
4/8/2022	0.01956
10/3/2022	0.00643
5/3/2023	0.00404

Group: MW22-02

Date	Residual
4/7/2022	0.0164667
5/9/2022	0.00486667
5/31/2022	0.000866667
6/20/2022	0.000233333
7/19/2022	0.000566667
8/18/2022	0.00393333
9/13/2022	0.00463333
10/3/2022	0.00653333
5/4/2023	0.00743333

Group: MW22-03

Date	Residual
4/7/2022	0.131644
5/9/2022	0.0423444
5/31/2022	0.0796556
6/20/2022	0.175656
7/19/2022	0.176656
8/18/2022	0.0633444
9/13/2022	0.0773444
10/4/2022	0.172944
5/4/2023	0.0556556

Group: MW22-04

Date	Residual
4/7/2022	0.00419

5/9/2022	0.00509
5/31/2022	0.00099
6/20/2022	0.00139
6/20/2022	0.00109
7/18/2022	0.00231
8/18/2022	0.00111
9/13/2022	0.00318
10/4/2022	0.00181
5/4/2023	0.00434

Group: MW22-05

Date	Residual
4/7/2022	0.01586
5/9/2022	0.00396
5/31/2022	0.00096
6/20/2022	0.00166
7/18/2022	0.00096
8/18/2022	0.00184
9/13/2022	0.00334
10/3/2022	0.00544
5/3/2023	0.00624
5/3/2023	0.00654

Group: MW22-06

Date	Residual
4/8/2022	0.013933
5/9/2022	0.004533
5/31/2022	0.001333
6/20/2022	0.002433
7/18/2022	0.000233
8/18/2022	0.003667
8/18/2022	0.006447
9/13/2022	0.006507
10/3/2022	0.000533
5/3/2023	0.006377

Group: MW22-07

Date	Residual
4/8/2022	0.00909
5/9/2022	0.01024
5/31/2022	0.06651
6/20/2022	0.00449
7/19/2022	0.01053
8/18/2022	0.01237
9/13/2022	0.01081
10/4/2022	0.00449
5/4/2023	0.00449

Group: MW22-08

Date	Residual
4/8/2022	0.00156
5/9/2022	0.01586
5/31/2022	0.06044
5/31/2022	0.06044
6/20/2022	0.01416
7/18/2022	0.01386
8/18/2022	0.02076
9/13/2022	0.02156
10/4/2022	0.02166
5/3/2023	0.01146

Group: MW93-2

Date	Residual
5/24/2018	0.0141065
6/19/2018	0.00109353
7/19/2018	0.00109353
8/22/2018	0.00109353
9/19/2018	0.00109353
10/18/2018	0.00109353
11/20/2018	0.00240647
12/20/2018	0.00109353
11/21/2019	0.00109353
6/25/2020	0.00633353
11/16/2020	0.00109353
5/26/2021	0.00249353
11/17/2021	0.00459353
4/8/2022	0.0143065
10/4/2022	0.00149353
10/4/2022	0.000993529
5/4/2023	0.00616353

Group: MW93-3

Date	Residual
5/24/2018	0.0358125
6/19/2018	0.0198125
7/19/2018	0.127188
8/22/2018	0.0168125
9/19/2018	0.0178125
10/18/2018	0.0218125
11/20/2018	0.0448125
12/20/2018	0.0258125
11/21/2019	0.0398125
6/25/2020	0.0181875
11/16/2020	0.0141875
5/26/2021	0.0151875
11/17/2021	0.0181875
4/8/2022	0.0071875
10/4/2022	0.0051875
5/3/2023	0.0171875

Concentrations (ppb)

Parameter: Mercury

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 154

Total Non-Detect: 121

Percent Non-Detects: 78.5714%

Total Background Measurements: 25

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	9 (100%)	4/7/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/3/2022	ND<0.0002	ND<0.0002
			5/3/2023	ND<0.0002	ND<0.0002
MW93-1	16	16 (100%)	5/24/2018	ND<5e-005	ND<5e-005
			6/19/2018	ND<5e-005	ND<5e-005
			7/19/2018	ND<5e-005	ND<5e-005
			8/22/2018	ND<5e-005	ND<5e-005
			9/19/2018	ND<5e-005	ND<5e-005
			10/18/2018	ND<5e-005	ND<5e-005
			11/20/2018	ND<5e-005	ND<5e-005
			12/20/2018	ND<5e-005	ND<5e-005
			11/21/2019	ND<5e-005	ND<5e-005
			6/25/2020	ND<0.0002	ND<0.0002
			11/17/2020	ND<0.0002	ND<0.0002
			5/26/2021	ND<0.0002	ND<0.0002
			11/17/2021	ND<0.0002	ND<0.0002
			4/8/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
5/4/2023	ND<0.0002	ND<0.0002			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	15	14 (93.3333%)	5/24/2018	ND<5e-005	ND<5e-005
			6/19/2018	ND<5e-005	ND<5e-005
			7/19/2018	ND<5e-005	ND<5e-005
			8/22/2018	0.000184	0.000184
			10/18/2018	ND<5e-005	ND<5e-005
			11/20/2018	ND<5e-005	ND<5e-005
			12/20/2018	ND<5e-005	ND<5e-005
			3/26/2019	ND<5e-005	ND<5e-005
			11/21/2019	ND<5e-005	ND<5e-005
			6/25/2020	ND<0.0002	ND<0.0002
			11/17/2020	ND<0.0002	ND<0.0002
			5/26/2021	ND<0.0002	ND<0.0002
			11/16/2021	ND<0.0002	ND<0.0002
			4/8/2022	ND<0.0002	ND<0.0002

			5/3/2023	ND<0.0002	ND<0.0002
MW03-2	17	1 (5.88235%)	5/24/2018	ND<5e-005	ND<5e-005
			6/19/2018	0.000224	0.000224
			7/19/2018	0.000239	0.000239
			8/22/2018	0.000255	0.000255
			9/19/2018	0.000636	0.000636
			10/18/2018	0.00101	0.00101
			11/20/2018	0.000803	0.000803
			12/20/2018	0.00107	0.00107
			11/21/2019	0.00694	0.00694
			2/14/2020	0.00171	0.00171
			6/25/2020	0.000234	0.000234
			11/17/2020	0.00086	0.00086
			5/26/2021	0.00239	0.00239
			11/17/2021	0.00215	0.00215
			4/8/2022	0.00285	0.00285
			10/3/2022	0.0014	0.0014
			5/3/2023	0.00212	0.00212
MW22-02	9	9 (100%)	4/7/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/3/2022	ND<0.0002	ND<0.0002
			5/4/2023	ND<0.0002	ND<0.0002
MW22-03	9	9 (100%)	4/7/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			5/4/2023	ND<0.0002	ND<0.0002
MW22-04	9	9 (100%)	4/7/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			5/4/2023	ND<0.0002	ND<0.0002
MW22-05	10	10 (100%)	4/7/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002

			10/3/2022	ND<0.0002	ND<0.0002
			5/3/2023	ND<0.0002	ND<0.0002
			5/3/2023	ND<0.0002	ND<0.0002
MW22-06	9	9 (100%)	4/8/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/3/2022	ND<0.0002	ND<0.0002
			5/3/2023	ND<0.0002	ND<0.0002
MW22-07	9	9 (100%)	4/8/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			5/4/2023	ND<0.0002	ND<0.0002
MW22-08	9	9 (100%)	4/8/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			5/3/2023	ND<0.0002	ND<0.0002
MW93-2	17	16 (94.1176%)	5/24/2018	ND<5e-005	ND<5e-005
			6/19/2018	ND<5e-005	ND<5e-005
			7/19/2018	ND<5e-005	ND<5e-005
			8/22/2018	ND<5e-005	ND<5e-005
			9/19/2018	ND<5e-005	ND<5e-005
			10/18/2018	0.000572	0.000572
			11/20/2018	ND<5e-005	ND<5e-005
			12/20/2018	ND<5e-005	ND<5e-005
			11/21/2019	ND<5e-005	ND<5e-005
			6/25/2020	ND<0.0002	ND<0.0002
			11/16/2020	ND<0.0002	ND<0.0002
			5/26/2021	ND<0.0002	ND<0.0002
			11/17/2021	ND<0.0002	ND<0.0002
			4/8/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			5/4/2023	ND<0.0002	ND<0.0002
MW93-3	16	1 (6.25%)	5/24/2018	0.000787	0.000787
			6/19/2018	0.000367	0.000367
			7/19/2018	0.00033	0.00033
			8/22/2018	0.000514	0.000514
			9/19/2018	0.000428	0.000428

10/18/2018	0.000579	0.000579
11/20/2018	0.000577	0.000577
12/20/2018	0.000245	0.000245
11/21/2019	0.000861	0.000861
6/25/2020	ND<0.0002	ND<0.0002
11/16/2020	0.00031	0.00031
5/26/2021	0.000348	0.000348
11/17/2021	0.000572	0.000572
4/8/2022	0.000945	0.000945
10/4/2022	0.00103	0.00103
5/3/2023	0.00165	0.00165

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Mercury

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 78.5714%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 25

Maximum Background Value = 0.0002

Confidence Level = 75.8%

False Positive Rate = 24.2%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	0.0002	FALSE
MW03-2	5/3/2023	1	0.00212	TRUE
MW22-02	5/4/2023	1	0.0002	FALSE
MW22-03	5/4/2023	1	0.0002	FALSE
MW22-04	5/4/2023	1	0.0002	FALSE
MW22-05	5/3/2023	2	0.0002	FALSE
MW22-06	5/3/2023	1	0.0002	FALSE
MW22-07	5/4/2023	1	0.0002	FALSE
MW22-08	5/3/2023	1	0.0002	FALSE
MW93-2	5/4/2023	1	0.0002	FALSE
MW93-3	5/3/2023	1	0.00165	TRUE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW03-2

Parameter: Mercury

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 6.25%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 16

Maximum Baseline Concentration = 0.00694

Confidence Level = 94.1%

False Positive Rate = 5.9%

Baseline Measurements	Date	Value
	5/24/2018	ND<5e-005
	6/19/2018	0.000224
	7/19/2018	0.000239
	8/22/2018	0.000255
	9/19/2018	0.000636
	10/18/2018	0.00101
	11/20/2018	0.000803
	12/20/2018	0.00107
	11/21/2019	0.00694
	2/14/2020	0.00171
	6/25/2020	0.000234
	11/17/2020	0.00086
	5/26/2021	0.00239
	11/17/2021	0.00215
	4/8/2022	0.00285
	10/3/2022	0.0014

Date	Count	Mean	Significant
5/3/2023	1	0.00212	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-3

Parameter: Mercury

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 6.66667%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 15

Maximum Baseline Concentration = 0.00103

Confidence Level = 93.8%

False Positive Rate = 6.2%

Baseline Measurements	Date	Value
	5/24/2018	0.000787
	6/19/2018	0.000367
	7/19/2018	0.00033
	8/22/2018	0.000514
	9/19/2018	0.000428
	10/18/2018	0.000579
	11/20/2018	0.000577
	12/20/2018	0.000245
	11/21/2019	0.000861
	6/25/2020	ND<0.0002
	11/16/2020	0.00031
	5/26/2021	0.000348
	11/17/2021	0.000572
	4/8/2022	0.000945
	10/4/2022	0.00103

Date	Count	Mean	Significant
5/3/2023	1	0.00165	TRUE

Shapiro-Francia Test of Normality

Parameter: Mercury

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 154

i	x(i)	m(i)	sum(m²)	sum(mx)
1	5e-005	-2.51213	6.31081	-0.000125607
2	5e-005	-2.25713	11.4054	-0.000238463
3	5e-005	-2.07485	15.7104	-0.000342206
4	5e-005	-1.95996	19.5519	-0.000440204
5	5e-005	-1.85218	22.9825	-0.000532812
6	5e-005	-1.77438	26.1309	-0.000621531
7	5e-005	-1.6954	29.0052	-0.000706301
8	5e-005	-1.63524	31.6792	-0.000788063
9	5e-005	-1.57179	34.1498	-0.000866652
10	5e-005	-1.52203	36.4663	-0.000942754
11	5e-005	-1.47579	38.6443	-0.00101654
12	5e-005	-1.42554	40.6765	-0.00108782
13	5e-005	-1.38517	42.5952	-0.00115708
14	5e-005	-1.34075	44.3928	-0.00122412
15	5e-005	-1.30469	46.095	-0.00128935
16	5e-005	-1.26464	47.6943	-0.00135258
17	5e-005	-1.23187	49.2118	-0.00141418
18	5e-005	-1.19522	50.6404	-0.00147394
19	5e-005	-1.16505	51.9977	-0.00153219
20	5e-005	-1.13113	53.2772	-0.00158875
21	5e-005	-1.10306	54.4939	-0.0016439
22	5e-005	-1.07584	55.6513	-0.00169769
23	5e-005	-1.04505	56.7435	-0.00174994
24	5e-005	-1.01943	57.7827	-0.00180092
25	5e-005	-0.990356	58.7635	-0.00185043
26	5e-005	-0.966088	59.6968	-0.00189874
27	0.000184	-0.938476	60.5776	-0.00207142
28	0.0002	-0.915365	61.4155	-0.00225449
29	0.0002	-0.889006	62.2058	-0.00243229
30	0.0002	-0.866894	62.9573	-0.00260567
31	0.0002	-0.841621	63.6656	-0.00277399
32	0.0002	-0.820379	64.3387	-0.00293807
33	0.0002	-0.7995	64.9779	-0.00309797
34	0.0002	-0.775574	65.5794	-0.00325309
35	0.0002	-0.755415	66.15	-0.00340417
36	0.0002	-0.732275	66.6862	-0.00355062
37	0.0002	-0.712751	67.1943	-0.00369317
38	0.0002	-0.690309	67.6708	-0.00383124
39	0.0002	-0.671346	68.1215	-0.0039655
40	0.0002	-0.649522	68.5434	-0.00409541
41	0.0002	-0.631062	68.9416	-0.00422162
42	0.0002	-0.612813	69.3171	-0.00434418
43	0.0002	-0.591776	69.6673	-0.00446254
44	0.0002	-0.573953	69.9968	-0.00457733
45	0.0002	-0.553384	70.303	-0.00468801
46	0.0002	-0.53594	70.5902	-0.00479519
47	0.0002	-0.515791	70.8563	-0.00489835

48	0.0002	-0.498687	71.105	-0.00499809
49	0.0002	-0.478914	71.3343	-0.00509387
50	0.0002	-0.462114	71.5479	-0.0051863
51	0.0002	-0.442676	71.7438	-0.00527483
52	0.0002	-0.426148	71.9254	-0.00536006
53	0.0002	-0.409735	72.0933	-0.00544201
54	0.0002	-0.390726	72.246	-0.00552015
55	0.0002	-0.374544	72.3863	-0.00559506
56	0.0002	-0.355788	72.5129	-0.00566622
57	0.0002	-0.33981	72.6283	-0.00573418
58	0.0002	-0.321278	72.7315	-0.00579844
59	0.0002	-0.305481	72.8249	-0.00585953
60	0.0002	-0.287147	72.9073	-0.00591696
61	0.0002	-0.271509	72.981	-0.00597126
62	0.0002	-0.253347	73.0452	-0.00602193
63	0.0002	-0.237847	73.1018	-0.0060695
64	0.0002	-0.222403	73.1513	-0.00611398
65	0.0002	-0.204452	73.1931	-0.00615487
66	0.0002	-0.189118	73.2288	-0.0061927
67	0.0002	-0.171285	73.2582	-0.00622695
68	0.0002	-0.156042	73.2825	-0.00625816
69	0.0002	-0.138305	73.3016	-0.00628582
70	0.0002	-0.123135	73.3168	-0.00631045
71	0.0002	-0.105474	73.3279	-0.00633155
72	0.0002	-0.0903606	73.3361	-0.00634962
73	0.0002	-0.0752698	73.3418	-0.00636467
74	0.0002	-0.0576847	73.3451	-0.00637621
75	0.0002	-0.0426257	73.3469	-0.00638473
76	0.0002	-0.0250691	73.3475	-0.00638975
77	0.0002	-0.0100272	73.3476	-0.00639175
78	0.0002	0.0100272	73.3477	-0.00638975
79	0.0002	0.0250691	73.3484	-0.00638473
80	0.0002	0.0426257	73.3502	-0.00637621
81	0.0002	0.0576847	73.3535	-0.00636467
82	0.0002	0.0752698	73.3592	-0.00634962
83	0.0002	0.0903606	73.3673	-0.00633155
84	0.0002	0.105474	73.3785	-0.00631045
85	0.0002	0.123135	73.3936	-0.00628582
86	0.0002	0.138305	73.4127	-0.00625816
87	0.0002	0.156042	73.4371	-0.00622695
88	0.0002	0.171285	73.4664	-0.0061927
89	0.0002	0.189118	73.5022	-0.00615487
90	0.0002	0.204452	73.544	-0.00611398
91	0.0002	0.222403	73.5935	-0.0060695
92	0.0002	0.237847	73.65	-0.00602193
93	0.0002	0.253347	73.7142	-0.00597126
94	0.0002	0.271509	73.7879	-0.00591696
95	0.0002	0.287147	73.8704	-0.00585953
96	0.0002	0.305481	73.9637	-0.00579844
97	0.0002	0.321278	74.0669	-0.00573418
98	0.0002	0.33981	74.1824	-0.00566622
99	0.0002	0.355788	74.309	-0.00559506
100	0.0002	0.374544	74.4493	-0.00552015
101	0.0002	0.390726	74.6019	-0.00544201
102	0.0002	0.409735	74.7698	-0.00536006
103	0.0002	0.426148	74.9514	-0.00527483
104	0.0002	0.442676	75.1474	-0.0051863

105	0.0002	0.462114	75.3609	-0.00509387
106	0.0002	0.478914	75.5903	-0.00499809
107	0.0002	0.498687	75.839	-0.00489835
108	0.0002	0.515791	76.105	-0.00479519
109	0.0002	0.53594	76.3923	-0.00468801
110	0.0002	0.553384	76.6985	-0.00457733
111	0.0002	0.573953	77.0279	-0.00446254
112	0.0002	0.591776	77.3781	-0.00434418
113	0.0002	0.612813	77.7536	-0.00422162
114	0.0002	0.631062	78.1519	-0.00409541
115	0.0002	0.649522	78.5738	-0.0039655
116	0.0002	0.671346	79.0245	-0.00383124
117	0.0002	0.690309	79.501	-0.00369317
118	0.0002	0.712751	80.009	-0.00355062
119	0.0002	0.732275	80.5452	-0.00340417
120	0.0002	0.755415	81.1159	-0.00325309
121	0.0002	0.775574	81.7174	-0.00309797
122	0.0002	0.7995	82.3566	-0.00293807
123	0.000224	0.820379	83.0296	-0.00275431
124	0.000234	0.841621	83.738	-0.00255737
125	0.000239	0.866894	84.4895	-0.00235018
126	0.000245	0.889006	85.2798	-0.00213237
127	0.000255	0.915365	86.1177	-0.00189895
128	0.00031	0.938476	86.9984	-0.00160803
129	0.00033	0.966088	87.9317	-0.00128922
130	0.000348	0.990356	88.9125	-0.000944574
131	0.000367	1.01943	89.9518	-0.000570444
132	0.000428	1.04505	91.0439	-0.000123162
133	0.000514	1.07584	92.2013	0.000429818
134	0.000572	1.10306	93.4181	0.00106077
135	0.000572	1.13113	94.6975	0.00170778
136	0.000577	1.16505	96.0549	0.00238001
137	0.000579	1.19522	97.4834	0.00307204
138	0.000636	1.23187	99.0009	0.00385551
139	0.000787	1.26464	100.6	0.00485078
140	0.000803	1.30469	102.302	0.00589844
141	0.00086	1.34075	104.1	0.00705149
142	0.000861	1.38517	106.019	0.00824413
143	0.000945	1.42554	108.051	0.00959126
144	0.00101	1.47579	110.229	0.0110818
145	0.00103	1.52203	112.545	0.0126495
146	0.00107	1.57179	115.016	0.0143313
147	0.0014	1.63524	117.69	0.0166207
148	0.00165	1.6954	120.564	0.0194181
149	0.00171	1.77438	123.713	0.0224522
150	0.00212	1.85218	127.143	0.0263789
151	0.00215	1.95996	130.985	0.0305928
152	0.00239	2.07485	135.29	0.0355517
153	0.00285	2.25713	140.384	0.0419845
154	0.00694	2.51213	146.695	0.0594187

Data Set Standard Deviation = 0.000687956
 Numerator = 0.00353058
 Denominator = 0.0106226
 W Statistic = 0.332366 = 0.00353058 / 0.0106226

5% Critical value of 0.976 exceeds 0.332366
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.332366
Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Mercury

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.000175819

Overall Std Dev = 0.000520099

Overall Total = 0.0270761

SS Groups = 1.74058e-005

SS Total = 4.13869e-005

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	1.74058e-005	12	1.45048e-006	8.52828
Error (within groups)	2.39812e-005	141	1.70079e-007	
Totals	4.13869e-005	153		

95% F-Statistic = 1.75

8.52828 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	2.71051e-020
5/9/2022	2.71051e-020
5/31/2022	2.71051e-020
6/20/2022	2.71051e-020
7/18/2022	2.71051e-020
8/18/2022	2.71051e-020
9/13/2022	2.71051e-020
10/3/2022	2.71051e-020
5/3/2023	2.71051e-020

Group: MW93-1

Sample	Residual
5/24/2018	6.5625e-005
6/19/2018	6.5625e-005
7/19/2018	6.5625e-005
8/22/2018	6.5625e-005
9/19/2018	6.5625e-005
10/18/2018	6.5625e-005
11/20/2018	6.5625e-005
12/20/2018	6.5625e-005
11/21/2019	6.5625e-005
6/25/2020	8.4375e-005
11/17/2020	8.4375e-005
5/26/2021	8.4375e-005
11/17/2021	8.4375e-005
4/8/2022	8.4375e-005
10/4/2022	8.4375e-005
5/4/2023	8.4375e-005

Group: MW03-1

Date	Residual
5/24/2018	6.89333e-005

6/19/2018	6.89333e-005
7/19/2018	6.89333e-005
8/22/2018	6.50667e-005
10/18/2018	6.89333e-005
11/20/2018	6.89333e-005
12/20/2018	6.89333e-005
3/26/2019	6.89333e-005
11/21/2019	6.89333e-005
6/25/2020	8.10667e-005
11/17/2020	8.10667e-005
5/26/2021	8.10667e-005
11/16/2021	8.10667e-005
4/8/2022	8.10667e-005
5/3/2023	8.10667e-005

Group: MW03-2

Date	Residual
5/24/2018	0.00141712
6/19/2018	0.00124312
7/19/2018	0.00122812
8/22/2018	0.00121212
9/19/2018	0.000831118
10/18/2018	0.000457118
11/20/2018	0.000664118
12/20/2018	0.000397118
11/21/2019	0.00547288
2/14/2020	0.000242882
6/25/2020	0.00123312
11/17/2020	0.000607118
5/26/2021	0.000922882
11/17/2021	0.000682882
4/8/2022	0.00138288
10/3/2022	6.71176e-005
5/3/2023	0.000652882

Group: MW22-02

Date	Residual
4/7/2022	2.71051e-020
5/9/2022	2.71051e-020
5/31/2022	2.71051e-020
6/20/2022	2.71051e-020
7/18/2022	2.71051e-020
8/18/2022	2.71051e-020
9/13/2022	2.71051e-020
10/3/2022	2.71051e-020
5/4/2023	2.71051e-020

Group: MW22-03

Date	Residual
4/7/2022	2.71051e-020
5/9/2022	2.71051e-020
5/31/2022	2.71051e-020
6/20/2022	2.71051e-020
7/18/2022	2.71051e-020
8/18/2022	2.71051e-020
9/13/2022	2.71051e-020
10/4/2022	2.71051e-020
5/4/2023	2.71051e-020

Group: MW22-04

Date	Residual
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4/7/2022	2.71051e-020
5/9/2022	2.71051e-020
5/31/2022	2.71051e-020
6/20/2022	2.71051e-020
7/18/2022	2.71051e-020
8/18/2022	2.71051e-020
9/13/2022	2.71051e-020
10/4/2022	2.71051e-020
5/4/2023	2.71051e-020

Group: MW22-05

Date	Residual
4/7/2022	2.71051e-020
5/9/2022	2.71051e-020
5/31/2022	2.71051e-020
6/20/2022	2.71051e-020
7/18/2022	2.71051e-020
8/18/2022	2.71051e-020
9/13/2022	2.71051e-020
10/3/2022	2.71051e-020
5/3/2023	2.71051e-020
5/3/2023	2.71051e-020

Group: MW22-06

Date	Residual
4/8/2022	2.71051e-020
5/9/2022	2.71051e-020
5/31/2022	2.71051e-020
6/20/2022	2.71051e-020
7/18/2022	2.71051e-020
8/18/2022	2.71051e-020
9/13/2022	2.71051e-020
10/3/2022	2.71051e-020
5/3/2023	2.71051e-020

Group: MW22-07

Date	Residual
4/8/2022	2.71051e-020
5/9/2022	2.71051e-020
5/31/2022	2.71051e-020
6/20/2022	2.71051e-020
7/18/2022	2.71051e-020
8/18/2022	2.71051e-020
9/13/2022	2.71051e-020
10/4/2022	2.71051e-020
5/4/2023	2.71051e-020

Group: MW22-08

Date	Residual
4/8/2022	2.71051e-020
5/9/2022	2.71051e-020
5/31/2022	2.71051e-020
6/20/2022	2.71051e-020
7/18/2022	2.71051e-020
8/18/2022	2.71051e-020
9/13/2022	2.71051e-020
10/4/2022	2.71051e-020
5/3/2023	2.71051e-020

Group: MW93-2

Date	Residual
5/24/2018	0.000101294

6/19/2018	0.000101294
7/19/2018	0.000101294
8/22/2018	0.000101294
9/19/2018	0.000101294
10/18/2018	0.000420706
11/20/2018	0.000101294
12/20/2018	0.000101294
11/21/2019	0.000101294
6/25/2020	4.87059e-005
11/16/2020	4.87059e-005
5/26/2021	4.87059e-005
11/17/2021	4.87059e-005
4/8/2022	4.87059e-005
10/4/2022	4.87059e-005
10/4/2022	4.87059e-005
5/4/2023	4.87059e-005

Group: MW93-3

Date	Residual
5/24/2018	0.000178063
6/19/2018	0.000241938
7/19/2018	0.000278938
8/22/2018	9.49375e-005
9/19/2018	0.000180938
10/18/2018	2.99375e-005
11/20/2018	3.19375e-005
12/20/2018	0.000363938
11/21/2019	0.000252063
6/25/2020	0.000408938
11/16/2020	0.000298938
5/26/2021	0.000260937
11/17/2021	3.69375e-005
4/8/2022	0.000336062
10/4/2022	0.000421063
5/3/2023	0.00104106

Concentrations (ppb)

Parameter: Molybdenum

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 156

Total Non-Detect: 100

Percent Non-Detects: 64.1026%

Total Background Measurements: 25

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	6 (66.6667%)	4/7/2022	0.000852	0.000852
			5/9/2022	0.000873	0.000873
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	0.000939	0.000939
			5/3/2023	ND<0.005	ND<0.005
MW93-1	16	12 (75%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	0.00105	0.00105
			11/17/2020	0.00113	0.00113
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/4/2022	0.00108	0.00108
5/4/2023	0.00107	0.00107			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	15	10 (66.6667%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	0.0167	0.0167
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	0.000992	0.000992
			11/17/2020	0.00274	0.00274
			5/26/2021	ND<0.005	ND<0.005
			11/16/2021	0.00111	0.00111
			4/8/2022	ND<0.005	ND<0.005

			5/3/2023	0.000984	0.000984
MW03-2	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.005	ND<0.005
			11/17/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
5/3/2023	ND<0.005	ND<0.005			
MW22-02	9	0 (0%)	4/7/2022	0.113	0.113
			5/9/2022	0.372	0.372
			5/31/2022	0.48	0.48
			6/20/2022	0.634	0.634
			7/19/2022	0.424	0.424
			8/18/2022	0.32	0.32
			9/13/2022	0.216	0.216
			10/3/2022	0.186	0.186
			5/4/2023	0.573	0.573
MW22-03	9	4 (44.4444%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	0.0014	0.0014
			6/20/2022	0.00226	0.00226
			7/19/2022	0.00222	0.00222
			8/18/2022	0.00117	0.00117
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	0.00103	0.00103
MW22-04	10	7 (70%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	0.00196	0.00196
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	0.000927	0.000927
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	0.00186	0.00186
MW22-05	10	9 (90%)	4/7/2022	0.000894	0.000894
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005

			10/3/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
MW22-06	10	10 (100%)	4/8/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
MW22-07	9	9 (100%)	4/8/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/19/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
MW22-08	10	1 (10%)	4/8/2022	0.00224	0.00224
			5/9/2022	0.00208	0.00208
			5/31/2022	0.00172	0.00172
			5/31/2022	0.00149	0.00149
			6/20/2022	0.00111	0.00111
			7/18/2022	0.00126	0.00126
			8/18/2022	0.00105	0.00105
			9/13/2022	0.00109	0.00109
			10/4/2022	0.00111	0.00111
			5/3/2023	ND<0.005	ND<0.005
MW93-2	17	1 (5.88235%)	5/24/2018	1.4	1.4
			6/19/2018	1.18	1.18
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	0.949	0.949
			9/19/2018	1.34	1.34
			10/18/2018	1.08	1.08
			11/20/2018	1.29	1.29
			12/20/2018	1.34	1.34
			11/21/2019	0.252	0.252
			6/25/2020	0.213	0.213
			11/16/2020	0.32	0.32
			5/26/2021	0.906	0.906
			11/17/2021	1.66	1.66
			4/8/2022	1.48	1.48
			10/4/2022	1.87	1.87
			10/4/2022	1.97	1.97
			5/4/2023	0.764	0.764
MW93-3	16	15 (93.75%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01

8/22/2018	ND<0.01	ND<0.01
9/19/2018	ND<0.01	ND<0.01
10/18/2018	ND<0.01	ND<0.01
11/20/2018	ND<0.01	ND<0.01
12/20/2018	ND<0.01	ND<0.01
11/21/2019	ND<0.01	ND<0.01
6/25/2020	ND<0.005	ND<0.005
11/16/2020	ND<0.005	ND<0.005
5/26/2021	ND<0.005	ND<0.005
11/17/2021	ND<0.005	ND<0.005
4/8/2022	0.000858	0.000858
10/4/2022	ND<0.005	ND<0.005
5/3/2023	ND<0.005	ND<0.005

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Molybdenum

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 64.1026%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 25

Maximum Background Value = 0.01

Confidence Level = 75.8%

False Positive Rate = 24.2%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	0.000984	FALSE
MW03-2	5/3/2023	1	0.005	FALSE
MW22-02	5/4/2023	1	0.573	TRUE
MW22-03	5/4/2023	1	0.00103	FALSE
MW22-04	5/4/2023	1	0.00186	FALSE
MW22-05	5/3/2023	2	0.005	FALSE
MW22-06	5/3/2023	1	0.005	FALSE
MW22-07	5/4/2023	1	0.005	FALSE
MW22-08	5/3/2023	1	0.005	FALSE
MW93-2	5/4/2023	1	0.764	TRUE
MW93-3	5/3/2023	1	0.005	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Molybdenum

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 6.25%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 16

Maximum Baseline Concentration = 1.97

Confidence Level = 94.1%

False Positive Rate = 5.9%

Baseline Measurements	Date	Value
	5/24/2018	1.4
	6/19/2018	1.18
	7/19/2018	ND<0.01
	8/22/2018	0.949
	9/19/2018	1.34
	10/18/2018	1.08
	11/20/2018	1.29
	12/20/2018	1.34
	11/21/2019	0.252
	6/25/2020	0.213
	11/16/2020	0.32
	5/26/2021	0.906
	11/17/2021	1.66
	4/8/2022	1.48
	10/4/2022	1.87
	10/4/2022	1.97

Date	Count	Mean	Significant
5/4/2023	1	0.764	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Molybdenum

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.634

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	0.113
	5/9/2022	0.372
	5/31/2022	0.48
	6/20/2022	0.634
	7/19/2022	0.424
	8/18/2022	0.32
	9/13/2022	0.216
	10/3/2022	0.186

Date	Count	Mean	Significant
5/4/2023	1	0.573	FALSE

Shapiro-Francia Test of Normality

Parameter: Molybdenum

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 156

i	x(i)	m(i)	sum(m²)	sum(mx)
1	0.000852	-2.51213	6.31081	-0.00214034
2	0.000858	-2.25713	11.4054	-0.00407695
3	0.000873	-2.07485	15.7104	-0.0058883
4	0.000894	-1.95996	19.5519	-0.0076405
5	0.000927	-1.86629	23.0349	-0.00937056
6	0.000939	-1.77438	26.1834	-0.0110367
7	0.000984	-1.70604	29.0939	-0.0127154
8	0.000992	-1.64485	31.7995	-0.0143471
9	0.00103	-1.58047	34.2974	-0.015975
10	0.00105	-1.53007	36.6385	-0.0175816
11	0.00105	-1.47579	38.8164	-0.0191312
12	0.00107	-1.4325	40.8685	-0.0206639
13	0.00108	-1.39175	42.8054	-0.022167
14	0.00109	-1.34694	44.6197	-0.0236352
15	0.00111	-1.31058	46.3373	-0.0250899
16	0.00111	-1.27588	47.9652	-0.0265062
17	0.00111	-1.23724	49.4959	-0.0278795
18	0.00113	-1.20553	50.9492	-0.0292417
19	0.00117	-1.17	52.3181	-0.0306106
20	0.00126	-1.14069	53.6193	-0.0320479
21	0.0014	-1.11232	54.8565	-0.0336052
22	0.00149	-1.08032	56.0236	-0.0352148
23	0.00172	-1.05375	57.134	-0.0370273
24	0.00186	-1.02789	58.1906	-0.0389392
25	0.00196	-0.998575	59.1877	-0.0408964
26	0.00208	-0.974114	60.1366	-0.0429225
27	0.00222	-0.950222	61.0395	-0.045032
28	0.00224	-0.923014	61.8915	-0.0470996
29	0.00226	-0.900227	62.7019	-0.0491341
30	0.00274	-0.874218	63.4662	-0.0515294
31	0.005	-0.852385	64.1927	-0.0557914
32	0.005	-0.830953	64.8832	-0.0599461
33	0.005	-0.806422	65.5335	-0.0639782
34	0.005	-0.785774	66.151	-0.0679071
35	0.005	-0.765456	66.7369	-0.0717344
36	0.005	-0.742143	67.2877	-0.0754451
37	0.005	-0.722479	67.8096	-0.0790575
38	0.005	-0.699883	68.2995	-0.0825569
39	0.005	-0.680797	68.763	-0.0859609
40	0.005	-0.661955	69.2011	-0.0892707
41	0.005	-0.640266	69.6111	-0.092472
42	0.005	-0.621911	69.9979	-0.0955816
43	0.005	-0.603765	70.3624	-0.0986004
44	0.005	-0.582841	70.7021	-0.101515
45	0.005	-0.565108	71.0214	-0.10434
46	0.005	-0.547551	71.3213	-0.107078
47	0.005	-0.52728	71.5993	-0.109714

48	0.005	-0.510074	71.8595	-0.112265
49	0.005	-0.490189	72.0997	-0.114716
50	0.005	-0.473299	72.3238	-0.117082
51	0.005	-0.456542	72.5322	-0.119365
52	0.005	-0.437153	72.7233	-0.121551
53	0.005	-0.420664	72.9002	-0.123654
54	0.005	-0.40429	73.0637	-0.125675
55	0.005	-0.385321	73.2122	-0.127602
56	0.005	-0.369171	73.3485	-0.129448
57	0.005	-0.350451	73.4713	-0.1312
58	0.005	-0.334503	73.5832	-0.132873
59	0.005	-0.318639	73.6847	-0.134466
60	0.005	-0.300232	73.7748	-0.135967
61	0.005	-0.284535	73.8558	-0.13739
62	0.005	-0.268908	73.9281	-0.138734
63	0.005	-0.250759	73.991	-0.139988
64	0.005	-0.235269	74.0463	-0.141164
65	0.005	-0.217267	74.0935	-0.142251
66	0.005	-0.201894	74.1343	-0.14326
67	0.005	-0.186567	74.1691	-0.144193
68	0.005	-0.168741	74.1976	-0.145037
69	0.005	-0.153505	74.2211	-0.145804
70	0.005	-0.138305	74.2403	-0.146496
71	0.005	-0.12061	74.2548	-0.147099
72	0.005	-0.105474	74.2659	-0.147626
73	0.005	-0.0903606	74.2741	-0.148078
74	0.005	-0.0727562	74.2794	-0.148442
75	0.005	-0.0576847	74.2827	-0.14873
76	0.005	-0.0401167	74.2843	-0.148931
77	0.005	-0.0250691	74.285	-0.149056
78	0.005	-0.0100272	74.2851	-0.149106
79	0.005	0.0100272	74.2852	-0.149056
80	0.005	0.0250691	74.2858	-0.148931
81	0.005	0.0401167	74.2874	-0.14873
82	0.005	0.0576847	74.2907	-0.148442
83	0.005	0.0727562	74.296	-0.148078
84	0.005	0.0903606	74.3042	-0.147626
85	0.005	0.105474	74.3153	-0.147099
86	0.005	0.12061	74.3299	-0.146496
87	0.005	0.138305	74.349	-0.145804
88	0.005	0.153505	74.3726	-0.145037
89	0.005	0.168741	74.401	-0.144193
90	0.005	0.186567	74.4358	-0.14326
91	0.005	0.201894	74.4766	-0.142251
92	0.005	0.217267	74.5238	-0.141164
93	0.005	0.235269	74.5792	-0.139988
94	0.005	0.250759	74.642	-0.138734
95	0.01	0.268908	74.7143	-0.136045
96	0.01	0.284535	74.7953	-0.1332
97	0.01	0.300232	74.8854	-0.130197
98	0.01	0.318639	74.987	-0.127011
99	0.01	0.334503	75.0989	-0.123666
100	0.01	0.350451	75.2217	-0.120161
101	0.01	0.369171	75.358	-0.11647
102	0.01	0.385321	75.5064	-0.112617
103	0.01	0.40429	75.6699	-0.108574
104	0.01	0.420664	75.8469	-0.104367

105	0.01	0.437153	76.038	-0.0999955
106	0.01	0.456542	76.2464	-0.09543
107	0.01	0.473299	76.4704	-0.090697
108	0.01	0.490189	76.7107	-0.0857952
109	0.01	0.510074	76.9709	-0.0806944
110	0.01	0.52728	77.2489	-0.0754216
111	0.01	0.547551	77.5487	-0.0699461
112	0.01	0.565108	77.868	-0.064295
113	0.01	0.582841	78.2077	-0.0584666
114	0.01	0.603765	78.5723	-0.052429
115	0.01	0.621911	78.9591	-0.0462099
116	0.01	0.640266	79.369	-0.0398072
117	0.01	0.661955	79.8072	-0.0331876
118	0.01	0.680797	80.2707	-0.0263797
119	0.01	0.699883	80.7605	-0.0193808
120	0.01	0.722479	81.2825	-0.0121561
121	0.01	0.742143	81.8332	-0.00473463
122	0.01	0.765456	82.4192	0.00291993
123	0.01	0.785774	83.0366	0.0107777
124	0.01	0.806422	83.6869	0.0188419
125	0.01	0.830953	84.3774	0.0271514
126	0.01	0.852385	85.104	0.0356753
127	0.01	0.874218	85.8682	0.0444174
128	0.01	0.900227	86.6786	0.0534197
129	0.01	0.923014	87.5306	0.0626499
130	0.01	0.950222	88.4335	0.0721521
131	0.0167	0.974114	89.3824	0.0884198
132	0.113	0.998575	90.3796	0.201259
133	0.186	1.02789	91.4361	0.392447
134	0.213	1.05375	92.5465	0.616895
135	0.216	1.08032	93.7136	0.850244
136	0.252	1.11232	94.9509	1.13055
137	0.32	1.14069	96.252	1.49557
138	0.32	1.17	97.6209	1.86997
139	0.372	1.20553	99.0742	2.31843
140	0.424	1.23724	100.605	2.84301
141	0.48	1.27588	102.233	3.45543
142	0.573	1.31058	103.95	4.2064
143	0.634	1.34694	105.765	5.06035
144	0.764	1.39175	107.702	6.12365
145	0.906	1.4325	109.754	7.4215
146	0.949	1.47579	111.932	8.82202
147	1.08	1.53007	114.273	10.4745
148	1.18	1.58047	116.771	12.3394
149	1.29	1.64485	119.476	14.4613
150	1.34	1.70604	122.387	16.7474
151	1.34	1.77438	125.535	19.1251
152	1.4	1.86629	129.018	21.7379
153	1.48	1.95996	132.86	24.6386
154	1.66	2.07485	137.165	28.0829
155	1.87	2.25713	142.259	32.3037
156	1.97	2.51213	148.57	37.2526

Data Set Standard Deviation = 0.384984
 Numerator = 1387.76
 Denominator = 3413.1

W Statistic = 0.406597 = 1387.76 / 3413.1

**5% Critical value of 0.976 exceeds 0.406597
Evidence of non-normality at 95% level of significance**

**1% Critical value of 0.967 exceeds 0.406597
Evidence of non-normality at 99% level of significance**

Levene's Test for Equal of Variance

Parameter: Molybdenum

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.0612461

Overall Std Dev = 0.182677

Overall Total = 9.55439

SS Groups = 3.37654

SS Total = 5.17246

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	3.37654	12	0.281378	22.4046
Error (within groups)	1.79593	143	0.0125589	
Totals	5.17246	155		

95% F-Statistic = 1.75

22.4046 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	0.00277733
5/9/2022	0.00275633
5/31/2022	0.00137067
6/20/2022	0.00137067
7/18/2022	0.00137067
8/18/2022	0.00137067
9/13/2022	0.00137067
10/3/2022	0.00269033
5/3/2023	0.00137067

Group: MW93-1

Sample	Residual
5/24/2018	0.00316687
6/19/2018	0.00316687
7/19/2018	0.00316687
8/22/2018	0.00316687
9/19/2018	0.00316687
10/18/2018	0.00316687
11/20/2018	0.00316687
12/20/2018	0.00316687
11/21/2019	0.00316687
6/25/2020	0.00578313
11/17/2020	0.00570313
5/26/2021	0.00183313
11/17/2021	0.00183313
4/8/2022	0.00183313
10/4/2022	0.00575313
5/4/2023	0.00576313

Group: MW03-1

Date	Residual
5/24/2018	0.00249827

6/19/2018	0.00249827
7/19/2018	0.00249827
8/22/2018	0.00919827
10/18/2018	0.00249827
11/20/2018	0.00249827
12/20/2018	0.00249827
3/26/2019	0.00249827
11/21/2019	0.00249827
6/25/2020	0.00650973
11/17/2020	0.00476173
5/26/2021	0.00250173
11/16/2021	0.00639173
4/8/2022	0.00250173
5/3/2023	0.00651773

Group: MW03-2

Date	Residual
5/24/2018	0.0021875
6/19/2018	0.0021875
7/19/2018	0.0021875
8/22/2018	0.0021875
9/19/2018	0.0021875
10/18/2018	0.0021875
11/20/2018	0.0021875
12/20/2018	0.0021875
11/21/2019	0.0021875
6/25/2020	0.0028125
11/17/2020	0.0028125
5/26/2021	0.0028125
11/17/2021	0.0028125
4/8/2022	0.0028125
10/3/2022	0.0028125
5/3/2023	0.0028125

Group: MW22-02

Date	Residual
4/7/2022	0.255667
5/9/2022	0.00333333
5/31/2022	0.111333
6/20/2022	0.265333
7/19/2022	0.0553333
8/18/2022	0.0486667
9/13/2022	0.152667
10/3/2022	0.182667
5/4/2023	0.204333

Group: MW22-03

Date	Residual
4/7/2022	0.00188
5/9/2022	0.00188
5/31/2022	0.00172
6/20/2022	0.00086
7/19/2022	0.0009
8/18/2022	0.00195
9/13/2022	0.00188
10/4/2022	0.00188
5/4/2023	0.00209

Group: MW22-04

Date	Residual
4/7/2022	0.0010253

5/9/2022	0.0020147
5/31/2022	0.0010253
6/20/2022	0.0030477
6/20/2022	0.0010253
7/18/2022	0.0010253
8/18/2022	0.0010253
9/13/2022	0.0010253
10/4/2022	0.0010253
5/4/2023	0.0021147

Group: MW22-05

Date	Residual
4/7/2022	0.0036954
5/9/2022	0.0004106
5/31/2022	0.0004106
6/20/2022	0.0004106
7/18/2022	0.0004106
8/18/2022	0.0004106
9/13/2022	0.0004106
10/3/2022	0.0004106
5/3/2023	0.0004106
5/3/2023	0.0004106

Group: MW22-06

Date	Residual
4/8/2022	8.67362e-019
5/9/2022	8.67362e-019
5/31/2022	8.67362e-019
6/20/2022	8.67362e-019
7/18/2022	8.67362e-019
8/18/2022	8.67362e-019
8/18/2022	8.67362e-019
9/13/2022	8.67362e-019
10/3/2022	8.67362e-019
5/3/2023	8.67362e-019

Group: MW22-07

Date	Residual
4/8/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/19/2022	0
8/18/2022	0
9/13/2022	0
10/4/2022	0
5/4/2023	0

Group: MW22-08

Date	Residual
4/8/2022	0.000425
5/9/2022	0.000265
5/31/2022	9.5e-005
5/31/2022	0.000325
6/20/2022	0.000705
7/18/2022	0.000555
8/18/2022	0.000765
9/13/2022	0.000725
10/4/2022	0.000705
5/3/2023	0.003185

Group: MW93-2

Date	Residual
5/24/2018	0.339765
6/19/2018	0.119765
7/19/2018	1.05024
8/22/2018	0.111235
9/19/2018	0.279765
10/18/2018	0.0197647
11/20/2018	0.229765
12/20/2018	0.279765
11/21/2019	0.808235
6/25/2020	0.847235
11/16/2020	0.740235
5/26/2021	0.154235
11/17/2021	0.599765
4/8/2022	0.419765
10/4/2022	0.809765
10/4/2022	0.909765
5/4/2023	0.296235

Group: MW93-3

Date	Residual
5/24/2018	0.00244637
6/19/2018	0.00244637
7/19/2018	0.00244637
8/22/2018	0.00244637
9/19/2018	0.00244637
10/18/2018	0.00244637
11/20/2018	0.00244637
12/20/2018	0.00244637
11/21/2019	0.00244637
6/25/2020	0.00255363
11/16/2020	0.00255363
5/26/2021	0.00255363
11/17/2021	0.00255363
4/8/2022	0.00669563
10/4/2022	0.00255363
5/3/2023	0.00255363

Concentrations (ppb)

Parameter: ph

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 393

Total Non-Detect: 0

Percent Non-Detects: 0%

Total Background Measurements: 88

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	0 (0%)	4/7/2022	6.73	6.73
			5/9/2022	6.99	6.99
			5/31/2022	6.65	6.65
			6/20/2022	7.2	7.2
			7/18/2022	6.9	6.9
			8/18/2022	6.5	6.5
			9/13/2022	6.64	6.64
			10/3/2022	6.4	6.4
			5/4/2023	6.96	6.96
MW93-1	79	0 (0%)	12/15/1994	6.67	6.67
			3/14/1995	6.72	6.72
			6/21/1995	6.58	6.58
			12/14/1995	6.72	6.72
			3/6/1996	6.72	6.72
			4/25/1996	6.79	6.79
			10/2/1996	6.61	6.61
			12/10/1996	6.51	6.51
			3/11/1997	6.77	6.77
			4/15/1997	6.66	6.66
			8/14/1997	6.66	6.66
			12/4/1997	6.78	6.78
			3/31/1998	6.87	6.87
			6/23/1998	6.5	6.5
			8/11/1998	7.05	7.05
			12/8/1998	6.62	6.62
			3/9/1999	6.6	6.6
			6/8/1999	6.93	6.93
			8/19/1999	6.54	6.54
			12/14/1999	6.55	6.55
			3/7/2000	6.59	6.59
			6/23/2000	6.52	6.52
			12/12/2000	6.56	6.56
			3/27/2001	6.6	6.6
			6/28/2001	6.59	6.59
			9/10/2001	6.76	6.76
			12/18/2001	6.76	6.76
			3/19/2002	6.93	6.93
			6/26/2002	6.85	6.85
			9/18/2002	6.62	6.62
12/11/2002	6.58	6.58			
3/13/2003	6.66	6.66			
6/25/2003	6.94	6.94			
9/26/2003	6.42	6.42			
12/10/2003	6.64	6.64			

3/9/2004	6.68	6.68
6/24/2004	6.53	6.53
9/15/2004	6.43	6.43
12/15/2004	6.61	6.61
3/16/2005	6.57	6.57
6/15/2005	6.53	6.53
9/21/2005	6.65	6.65
12/21/2005	6.61	6.61
3/15/2006	6.64	6.64
6/21/2006	6.85	6.85
12/20/2006	6.67	6.67
6/12/2007	6.58	6.58
12/17/2007	6.33	6.33
6/11/2008	6.7	6.7
12/3/2008	6.5	6.5
6/17/2009	6.8	6.8
12/9/2009	6.6	6.6
6/17/2010	6.5	6.5
12/22/2010	6.55	6.55
6/29/2011	6.5	6.5
12/7/2011	6.41	6.41
6/6/2012	6.23	6.23
12/12/2012	6.61	6.61
6/19/2013	6.58	6.58
12/11/2013	6.57	6.57
6/11/2014	6.1	6.1
12/3/2014	6.69	6.69
6/17/2015	6.38	6.38
12/1/2015	6.45	6.45
6/22/2016	6.59	6.59
12/20/2016	6.28	6.28
6/6/2017	6.69	6.69
11/7/2017	6.21	6.21
2/27/2018	6.47	6.47
9/19/2018	6.62	6.62
5/7/2019	7	7
11/21/2019	6.46	6.46
6/26/2020	6.88	6.88
11/17/2020	6.45	6.45
5/26/2021	6.59	6.59
11/17/2021	7.17	7.17
4/8/2022	7.07	7.07
10/4/2022	6.64	6.64
5/4/2023	6.85	6.85

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	38	0 (0%)	6/24/2004	7.27	7.27
			9/15/2004	6.78	6.78
			12/15/2004	7.32	7.32
			3/16/2005	7.3	7.3
			6/15/2005	7.28	7.28
			9/21/2005	7.88	7.88
			12/20/2006	7	7
			6/12/2007	7.29	7.29

12/17/2007	6.8	6.8
6/11/2008	7.4	7.4
12/3/2008	7.4	7.4
6/17/2009	7.6	7.6
12/9/2009	7.5	7.5
6/17/2010	7.1	7.1
12/22/2010	6.89	6.89
6/29/2011	7.3	7.3
12/7/2011	7.05	7.05
6/6/2012	7.33	7.33
6/19/2013	7.15	7.15
12/11/2013	7.19	7.19
6/11/2014	6.62	6.62
12/3/2014	6.73	6.73
6/17/2015	6.66	6.66
12/1/2015	6.34	6.34
6/22/2016	7.2	7.2
12/20/2016	6.75	6.75
6/6/2017	6.64	6.64
11/7/2017	6.44	6.44
2/27/2018	6.81	6.81
9/19/2018	7.19	7.19
5/7/2019	6.33	6.33
11/21/2019	6.23	6.23
6/25/2020	6.77	6.77
11/17/2020	6.92	6.92
5/26/2021	5.58	5.58
11/16/2021	7.62	7.62
4/8/2022	6.2	6.2
5/4/2023	6.71	6.71

MW03-2 43 0 (0%)

6/24/2004	6.84	6.84
9/15/2004	7.17	7.17
12/15/2004	6.86	6.86
3/16/2005	6.8	6.8
6/15/2005	6.87	6.87
9/21/2005	6.87	6.87
12/21/2005	6.83	6.83
3/15/2006	6.88	6.88
6/21/2006	6.78	6.78
12/20/2006	6.88	6.88
6/12/2007	6.87	6.87
12/17/2007	6.7	6.7
6/11/2008	6.9	6.9
12/3/2008	6.8	6.8
6/17/2009	7.3	7.3
12/9/2009	6.8	6.8
6/17/2010	6.8	6.8
12/22/2010	7.2	7.2
6/29/2011	6.7	6.7
12/7/2011	6.69	6.69
6/6/2012	6.73	6.73
12/12/2012	6.82	6.82
6/19/2013	6.88	6.88
12/11/2013	6.72	6.72
6/11/2014	7	7
12/3/2014	7.14	7.14

			6/17/2015	6.45	6.45
			12/1/2015	6.39	6.39
			6/22/2016	6.75	6.75
			12/20/2016	6.36	6.36
			6/6/2017	6.73	6.73
			11/7/2017	6.22	6.22
			2/27/2018	6.47	6.47
			9/19/2018	6.63	6.63
			5/7/2019	6.81	6.81
			11/21/2019	6.56	6.56
			6/25/2020	6.65	6.65
			11/17/2020	6.64	6.64
			5/26/2021	6.54	6.54
			11/17/2021	6.92	6.92
			4/8/2022	6.74	6.74
			10/3/2022	6.53	6.53
			5/4/2023	6.6	6.6
<hr/>					
MW22-02	9	0 (0%)	4/7/2022	7.3	7.3
			5/9/2022	7.6	7.6
			5/31/2022	7.46	7.46
			6/20/2022	8.02	8.02
			7/18/2022	7.42	7.42
			8/18/2022	6.92	6.92
			9/13/2022	7.02	7.02
			10/3/2022	6.74	6.74
			5/4/2023	7.12	7.12
<hr/>					
MW22-03	9	0 (0%)	4/7/2022	6.6	6.6
			5/9/2022	6.94	6.94
			5/31/2022	7.2	7.2
			6/20/2022	7.86	7.86
			7/18/2022	7.6	7.6
			8/18/2022	6.63	6.63
			9/13/2022	6.61	6.61
			10/4/2022	6.08	6.08
			5/4/2023	7.19	7.19
<hr/>					
MW22-04	9	0 (0%)	4/7/2022	6.92	6.92
			5/9/2022	7.26	7.26
			5/31/2022	6.76	6.76
			6/20/2022	7.31	7.31
			7/18/2022	6.71	6.71
			8/18/2022	6.26	6.26
			9/13/2022	6.38	6.38
			10/4/2022	6.14	6.14
			5/4/2023	6.41	6.41
<hr/>					
MW22-05	9	0 (0%)	4/7/2022	6.75	6.75
			5/9/2022	6.7	6.7
			5/31/2022	6.4	6.4
			6/20/2022	7.19	7.19
			7/18/2022	7.07	7.07
			8/18/2022	6.82	6.82
			9/13/2022	6.95	6.95
			10/3/2022	6.74	6.74
			5/4/2023	6.79	6.79

MW22-06	9	0 (0%)	4/8/2022	7.07	7.07
			5/9/2022	7.19	7.19
			5/31/2022	6.52	6.52
			6/20/2022	7.72	7.72
			7/18/2022	7.32	7.32
			8/18/2022	6.93	6.93
			9/13/2022	7.02	7.02
			10/3/2022	6.79	6.79
			5/4/2023	6.92	6.92
			MW22-07	9	0 (0%)
5/9/2022	6.53	6.53			
5/31/2022	7.16	7.16			
6/20/2022	7.67	7.67			
7/18/2022	7.34	7.34			
8/18/2022	6.87	6.87			
9/13/2022	6.95	6.95			
10/4/2022	6.68	6.68			
5/4/2023	6.87	6.87			
MW22-08	9	0 (0%)			
			5/9/2022	7.55	7.55
			5/31/2022	7.42	7.42
			6/20/2022	8.02	8.02
			7/18/2022	7.7	7.7
			8/18/2022	7.27	7.27
			9/13/2022	7.35	7.35
			10/4/2022	7.08	7.08
			5/4/2023	7.21	7.21
			MW93-2	82	0 (0%)
3/14/1995	8.82	8.82			
6/21/1995	8.68	8.68			
12/14/1995	8.16	8.16			
3/6/1996	9.37	9.37			
4/25/1996	9.14	9.14			
10/2/1996	8.94	8.94			
12/10/1996	9.27	9.27			
3/11/1997	8.95	8.95			
4/15/1997	9.25	9.25			
8/14/1997	8.67	8.67			
12/4/1997	8.77	8.77			
3/31/1998	9.32	9.32			
6/23/1998	8.87	8.87			
8/11/1998	9	9			
12/8/1998	8.9	8.9			
3/9/1999	9.39	9.39			
6/8/1999	9.25	9.25			
8/19/1999	9.15	9.15			
12/14/1999	8.98	8.98			
3/7/2000	9.2	9.2			
6/23/2000	9.18	9.18			
12/12/2000	9.18	9.18			
3/27/2001	9.29	9.29			
6/28/2001	9.22	9.22			
9/10/2001	9.1	9.1			

12/18/2001	9.4	9.4
3/19/2002	9.54	9.54
6/26/2002	9.44	9.44
9/18/2002	9.24	9.24
12/11/2002	9.16	9.16
3/13/2003	9.28	9.28
6/25/2003	9.27	9.27
9/26/2003	9.32	9.32
12/10/2003	9.25	9.25
3/9/2004	9.37	9.37
6/24/2004	9.24	9.24
9/15/2004	9.32	9.32
12/15/2004	9.26	9.26
3/16/2005	9.23	9.23
6/15/2005	9.1	9.1
9/21/2005	9.25	9.25
12/21/2005	9.31	9.31
3/15/2006	9.47	9.47
6/21/2006	9.4	9.4
12/20/2006	9.18	9.18
2/21/2007	9.2	9.2
6/12/2007	9.1	9.1
12/17/2007	9.3	9.3
6/11/2008	9.4	9.4
12/3/2008	9.7	9.7
12/15/2008	9.6	9.6
6/17/2009	9.8	9.8
12/9/2009	9.8	9.8
6/17/2010	9.6	9.6
12/22/2010	9.5	9.5
6/29/2011	9.4	9.4
12/7/2011	9.5	9.5
6/6/2012	9.68	9.68
12/12/2012	10.02	10.02
1/9/2013	9.51	9.51
6/19/2013	9.4	9.4
12/11/2013	9.46	9.46
6/11/2014	8.55	8.55
12/3/2014	8.95	8.95
6/17/2015	9.13	9.13
12/1/2015	9.37	9.37
6/22/2016	9.28	9.28
12/20/2016	9.72	9.72
6/6/2017	9.29	9.29
11/7/2017	8.86	8.86
2/27/2018	9.04	9.04
9/19/2018	9.09	9.09
5/7/2019	9.05	9.05
11/21/2019	8.44	8.44
6/26/2020	8.59	8.59
11/16/2020	8.48	8.48
5/26/2021	8.74	8.74
11/17/2021	8.64	8.64
4/8/2022	8.83	8.83
10/4/2022	8.48	8.48
5/4/2023	9.16	9.16

MW93-3

79

0 (0%)

12/15/1994	6.68	6.68
3/14/1995	6.74	6.74
6/21/1995	6.61	6.61
12/14/1995	6.75	6.75
3/6/1996	6.85	6.85
4/25/1996	6.78	6.78
10/2/1996	6.75	6.75
12/10/1996	6.7	6.7
3/11/1997	6.8	6.8
4/15/1997	6.74	6.74
8/14/1997	6.88	6.88
12/4/1997	6.88	6.88
3/31/1998	6.92	6.92
6/23/1998	6.76	6.76
8/11/1998	6.91	6.91
12/8/1998	6.93	6.93
3/9/1999	6.78	6.78
6/8/1999	6.85	6.85
8/19/1999	6.97	6.97
12/14/1999	6.8	6.8
3/7/2000	6.77	6.77
6/23/2000	6.82	6.82
12/12/2000	6.86	6.86
3/27/2001	6.79	6.79
6/28/2001	6.86	6.86
9/10/2001	7.04	7.04
12/18/2001	6.93	6.93
3/19/2002	7	7
6/26/2002	6.89	6.89
9/18/2002	7.96	7.96
12/11/2002	6.74	6.74
3/13/2003	6.87	6.87
6/25/2003	6.85	6.85
9/26/2003	6.77	6.77
12/10/2003	6.99	6.99
3/9/2004	7.45	7.45
6/24/2004	6.8	6.8
9/15/2004	6.7	6.7
12/15/2004	6.88	6.88
3/16/2005	6.69	6.69
6/15/2005	6.81	6.81
9/21/2005	6.85	6.85
12/21/2005	6.7	6.7
3/15/2006	7.07	7.07
6/21/2006	6.84	6.84
12/20/2006	6.93	6.93
6/12/2007	6.89	6.89
12/17/2007	6.8	6.8
6/11/2008	6.8	6.8
12/3/2008	6.8	6.8
6/17/2009	7.2	7.2
12/9/2009	6.9	6.9
6/17/2010	6.7	6.7
12/22/2010	6.82	6.82
6/29/2011	6.7	6.7
12/7/2011	6.77	6.77
6/6/2012	6.42	6.42

12/12/2012	6.85	6.85
6/19/2013	6.49	6.49
12/11/2013	7.07	7.07
6/11/2014	6.08	6.08
12/3/2014	6.8	6.8
6/17/2015	6.4	6.4
12/1/2015	6.6	6.6
6/22/2016	6.43	6.43
12/20/2016	6.27	6.27
6/6/2017	6.65	6.65
11/7/2017	6.46	6.46
2/27/2018	6.49	6.49
9/19/2018	6.55	6.55
5/7/2019	6.69	6.69
11/21/2019	6.54	6.54
6/26/2020	6.75	6.75
11/16/2020	6.24	6.24
5/26/2021	6.71	6.71
11/17/2021	6.92	6.92
4/8/2022	6.79	6.79
10/4/2022	6.55	6.55
5/4/2023	6.65	6.65

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: ph

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 88

Maximum Background Value = 7.2

Confidence Level = 91.7%

False Positive Rate = 8.3%

Location	Date	Count	Mean	Significant
MW03-1	5/4/2023	1	6.71	FALSE
MW03-2	5/4/2023	1	6.6	FALSE
MW22-02	5/4/2023	1	7.12	FALSE
MW22-03	5/4/2023	1	7.19	FALSE
MW22-04	5/4/2023	1	6.41	FALSE
MW22-05	5/4/2023	1	6.79	FALSE
MW22-06	5/4/2023	1	6.92	FALSE
MW22-07	5/4/2023	1	6.87	FALSE
MW22-08	5/4/2023	1	7.21	TRUE
MW93-2	5/4/2023	1	9.16	TRUE
MW93-3	5/4/2023	1	6.65	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: ph

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 81

Maximum Baseline Concentration = 10.02

Confidence Level = 98.8%

False Positive Rate = 1.2%

Baseline Measurements	Date	Value
	12/15/1994	8.54
	3/14/1995	8.82
	6/21/1995	8.68
	12/14/1995	8.16
	3/6/1996	9.37
	4/25/1996	9.14
	10/2/1996	8.94
	12/10/1996	9.27
	3/11/1997	8.95
	4/15/1997	9.25
	8/14/1997	8.67
	12/4/1997	8.77
	3/31/1998	9.32
	6/23/1998	8.87
	8/11/1998	9
	12/8/1998	8.9
	3/9/1999	9.39
	6/8/1999	9.25
	8/19/1999	9.15
	12/14/1999	8.98
	3/7/2000	9.2
	6/23/2000	9.18
	12/12/2000	9.18
	3/27/2001	9.29
	6/28/2001	9.22
	9/10/2001	9.1
	12/18/2001	9.4
	3/19/2002	9.54
	6/26/2002	9.44
	9/18/2002	9.24
	12/11/2002	9.16
	3/13/2003	9.28
	6/25/2003	9.27
	9/26/2003	9.32
	12/10/2003	9.25
	3/9/2004	9.37
	6/24/2004	9.24
	9/15/2004	9.32
	12/15/2004	9.26
	3/16/2005	9.23
	6/15/2005	9.1
	9/21/2005	9.25

12/21/2005	9.31
3/15/2006	9.47
6/21/2006	9.4
12/20/2006	9.18
2/21/2007	9.2
6/12/2007	9.1
12/17/2007	9.3
6/11/2008	9.4
12/3/2008	9.7
12/15/2008	9.6
6/17/2009	9.8
12/9/2009	9.8
6/17/2010	9.6
12/22/2010	9.5
6/29/2011	9.4
12/7/2011	9.5
6/6/2012	9.68
12/12/2012	10.02
1/9/2013	9.51
6/19/2013	9.4
12/11/2013	9.46
6/11/2014	8.55
12/3/2014	8.95
6/17/2015	9.13
12/1/2015	9.37
6/22/2016	9.28
12/20/2016	9.72
6/6/2017	9.29
11/7/2017	8.86
2/27/2018	9.04
9/19/2018	9.09
5/7/2019	9.05
11/21/2019	8.44
6/26/2020	8.59
11/16/2020	8.48
5/26/2021	8.74
11/17/2021	8.64
4/8/2022	8.83
10/4/2022	8.48

Date	Count	Mean	Significant
5/4/2023	1	9.16	FALSE

Shapiro-Francia Test of Normality

Parameter: ph

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 393

i	x(i)	m(i)	sum(m²)	sum(mx)
1	5.58	-2.87815	8.28375	-16.0601
2	6.08	-2.57583	14.9187	-31.7212
3	6.08	-2.45727	20.9569	-46.6614
4	6.1	-2.32634	26.3687	-60.8521
5	6.14	-2.25713	31.4634	-74.7108
6	6.2	-2.17009	36.1727	-88.1654
7	6.21	-2.12007	40.6673	-101.331
8	6.22	-2.05375	44.8852	-114.105
9	6.23	-2.01409	48.9418	-126.653
10	6.23	-1.95996	52.7833	-138.864
11	6.24	-1.92684	56.496	-150.887
12	6.26	-1.88079	60.0333	-162.661
13	6.27	-1.85218	63.4639	-174.274
14	6.28	-1.81191	66.7469	-185.653
15	6.33	-1.77438	69.8953	-196.885
16	6.33	-1.75069	72.9602	-207.967
17	6.34	-1.71688	75.9079	-218.852
18	6.36	-1.6954	78.7823	-229.634
19	6.38	-1.66456	81.5531	-240.254
20	6.38	-1.64485	84.2586	-250.748
21	6.39	-1.61644	86.8715	-261.077
22	6.4	-1.59819	89.4257	-271.306
23	6.4	-1.57179	91.8962	-281.365
24	6.4	-1.55477	94.3135	-291.316
25	6.41	-1.53007	96.6546	-301.124
26	6.41	-1.5141	98.9471	-310.829
27	6.42	-1.49085	101.17	-320.4
28	6.42	-1.46838	103.326	-329.827
29	6.43	-1.4538	105.439	-339.175
30	6.43	-1.4325	107.492	-348.386
31	6.44	-1.41865	109.504	-357.522
32	6.45	-1.39838	111.46	-366.542
33	6.45	-1.38517	113.378	-375.476
34	6.45	-1.36581	115.244	-384.286
35	6.46	-1.35317	117.075	-393.027
36	6.46	-1.33462	118.856	-401.649
37	6.47	-1.32251	120.605	-410.205
38	6.47	-1.30469	122.307	-418.647
39	6.49	-1.29303	123.979	-427.039
40	6.49	-1.27588	125.607	-435.319
41	6.5	-1.25908	127.192	-443.503
42	6.5	-1.24809	128.75	-451.616
43	6.5	-1.23187	130.268	-459.623
44	6.5	-1.22123	131.759	-467.561
45	6.5	-1.20553	133.212	-475.397
46	6.51	-1.19522	134.641	-483.178
47	6.52	-1.18	136.033	-490.871

48	6.52	-1.17	137.402	-498.5
49	6.53	-1.15522	138.737	-506.043
50	6.53	-1.1455	140.049	-513.523
51	6.53	-1.13113	141.328	-520.91
52	6.53	-1.12168	142.586	-528.234
53	6.54	-1.10768	143.813	-535.478
54	6.54	-1.0939	145.01	-542.632
55	6.54	-1.08482	146.187	-549.727
56	6.55	-1.07138	147.335	-556.745
57	6.55	-1.06252	148.464	-563.704
58	6.55	-1.04939	149.565	-570.578
59	6.55	-1.04073	150.648	-577.394
60	6.56	-1.02789	151.705	-584.137
61	6.56	-1.01943	152.744	-590.825
62	6.57	-1.00687	153.758	-597.44
63	6.57	-0.998575	154.755	-604.001
64	6.58	-0.986272	155.727	-610.49
65	6.58	-0.97815	156.684	-616.927
66	6.58	-0.966088	157.618	-623.283
67	6.58	-0.954165	158.528	-629.562
68	6.59	-0.946291	159.423	-635.798
69	6.59	-0.93459	160.297	-641.957
70	6.59	-0.926859	161.156	-648.065
71	6.59	-0.915365	161.994	-654.097
72	6.6	-0.907769	162.818	-660.088
73	6.6	-0.896473	163.622	-666.005
74	6.6	-0.889006	164.412	-671.873
75	6.6	-0.877897	165.183	-677.667
76	6.6	-0.87055	165.94	-683.412
77	6.6	-0.859618	166.679	-689.086
78	6.61	-0.852385	167.406	-694.72
79	6.61	-0.841621	168.114	-700.283
80	6.61	-0.830953	168.805	-705.776
81	6.61	-0.823893	169.484	-711.222
82	6.61	-0.813379	170.145	-716.598
83	6.61	-0.806422	170.795	-721.929
84	6.62	-0.796056	171.429	-727.198
85	6.62	-0.789191	172.052	-732.423
86	6.62	-0.778966	172.659	-737.58
87	6.62	-0.772193	173.255	-742.692
88	6.63	-0.7621	173.836	-747.744
89	6.63	-0.755415	174.406	-752.753
90	6.64	-0.745449	174.962	-757.702
91	6.64	-0.738846	175.508	-762.608
92	6.64	-0.729003	176.04	-767.449
93	6.64	-0.719228	176.557	-772.225
94	6.64	-0.712751	177.065	-776.957
95	6.64	-0.703089	177.559	-781.626
96	6.65	-0.696684	178.045	-786.259
97	6.65	-0.687131	178.517	-790.828
98	6.65	-0.680797	178.98	-795.355
99	6.65	-0.671346	179.431	-799.82
100	6.65	-0.665079	179.873	-804.243
101	6.66	-0.655726	180.303	-808.61
102	6.66	-0.649522	180.725	-812.936
103	6.66	-0.640266	181.135	-817.2
104	6.66	-0.634124	181.537	-821.423

105	6.67	-0.624956	181.928	-825.592
106	6.67	-0.615839	182.307	-829.699
107	6.68	-0.609791	182.679	-833.773
108	6.68	-0.60076	183.04	-837.786
109	6.68	-0.594766	183.393	-841.759
110	6.69	-0.585815	183.737	-845.678
111	6.69	-0.579873	184.073	-849.557
112	6.69	-0.570999	184.399	-853.377
113	6.69	-0.565108	184.718	-857.158
114	6.69	-0.556308	185.028	-860.879
115	6.7	-0.550465	185.331	-864.568
116	6.7	-0.541736	185.624	-868.197
117	6.7	-0.53594	185.911	-871.788
118	6.7	-0.52728	186.189	-875.321
119	6.7	-0.518658	186.458	-878.796
120	6.7	-0.51293	186.722	-882.232
121	6.7	-0.504372	186.976	-885.612
122	6.7	-0.498687	187.225	-888.953
123	6.7	-0.490189	187.465	-892.237
124	6.71	-0.484544	187.7	-895.488
125	6.71	-0.476105	187.926	-898.683
126	6.71	-0.470498	188.148	-901.84
127	6.72	-0.462114	188.361	-904.946
128	6.72	-0.456542	188.57	-908.014
129	6.72	-0.448213	188.771	-911.026
130	6.72	-0.442676	188.967	-914
131	6.73	-0.434397	189.155	-916.924
132	6.73	-0.426148	189.337	-919.792
133	6.73	-0.420664	189.514	-922.623
134	6.73	-0.412463	189.684	-925.399
135	6.74	-0.40701	189.85	-928.142
136	6.74	-0.398855	190.009	-930.83
137	6.74	-0.393433	190.164	-933.482
138	6.74	-0.385321	190.312	-936.079
139	6.74	-0.379927	190.456	-938.64
140	6.74	-0.371856	190.595	-941.146
141	6.75	-0.36649	190.729	-943.62
142	6.75	-0.358459	190.857	-946.039
143	6.75	-0.353118	190.982	-948.423
144	6.75	-0.345126	191.101	-950.753
145	6.75	-0.337155	191.215	-953.028
146	6.75	-0.331854	191.325	-955.268
147	6.76	-0.323919	191.43	-957.458
148	6.76	-0.318639	191.532	-959.612
149	6.76	-0.310738	191.628	-961.713
150	6.76	-0.305481	191.721	-963.778
151	6.77	-0.297612	191.81	-965.793
152	6.77	-0.292375	191.895	-967.772
153	6.77	-0.284535	191.976	-969.698
154	6.77	-0.279319	192.054	-971.589
155	6.77	-0.271509	192.128	-973.427
156	6.78	-0.266311	192.199	-975.233
157	6.78	-0.258527	192.266	-976.986
158	6.78	-0.250759	192.329	-978.686
159	6.78	-0.24559	192.389	-980.351
160	6.78	-0.237847	192.446	-981.964
161	6.79	-0.232693	192.5	-983.544

162	6.79	-0.224974	192.55	-985.071
163	6.79	-0.219834	192.599	-986.564
164	6.79	-0.212137	192.644	-988.004
165	6.79	-0.207012	192.687	-989.41
166	6.8	-0.199336	192.726	-990.765
167	6.8	-0.194225	192.764	-992.086
168	6.8	-0.186567	192.799	-993.355
169	6.8	-0.181468	192.832	-994.589
170	6.8	-0.173829	192.862	-995.771
171	6.8	-0.166199	192.89	-996.901
172	6.8	-0.161119	192.916	-997.997
173	6.8	-0.153505	192.939	-999.04
174	6.8	-0.148434	192.961	-1000.05
175	6.8	-0.140835	192.981	-1001.01
176	6.8	-0.135774	192.999	-1001.93
177	6.8	-0.128189	193.016	-1002.8
178	6.8	-0.123135	193.031	-1003.64
179	6.81	-0.115562	193.044	-1004.43
180	6.81	-0.110516	193.057	-1005.18
181	6.81	-0.102953	193.067	-1005.88
182	6.82	-0.0979139	193.077	-1006.55
183	6.82	-0.0903606	193.085	-1007.16
184	6.82	-0.0828129	193.092	-1007.73
185	6.82	-0.0777834	193.098	-1008.26
186	6.83	-0.0702426	193.103	-1008.74
187	6.84	-0.0652187	193.107	-1009.19
188	6.84	-0.0576847	193.11	-1009.58
189	6.85	-0.0526632	193.113	-1009.94
190	6.85	-0.0451348	193.115	-1010.25
191	6.85	-0.0401167	193.117	-1010.52
192	6.85	-0.0325917	193.118	-1010.75
193	6.85	-0.0275759	193.119	-1010.94
194	6.85	-0.0200544	193.119	-1011.07
195	6.85	-0.0150408	193.119	-1011.18
196	6.85	-0.00751925	193.119	-1011.23
197	6.86	0	193.119	-1011.23
198	6.86	0.00751925	193.119	-1011.18
199	6.86	0.0150408	193.12	-1011.07
200	6.87	0.0200544	193.12	-1010.94
201	6.87	0.0275759	193.121	-1010.75
202	6.87	0.0325917	193.122	-1010.52
203	6.87	0.0401167	193.123	-1010.25
204	6.87	0.0451348	193.125	-1009.94
205	6.87	0.0526632	193.128	-1009.58
206	6.87	0.0576847	193.132	-1009.18
207	6.88	0.0652187	193.136	-1008.73
208	6.88	0.0702426	193.141	-1008.25
209	6.88	0.0777834	193.147	-1007.71
210	6.88	0.0828129	193.154	-1007.14
211	6.88	0.0903606	193.162	-1006.52
212	6.88	0.0979139	193.171	-1005.85
213	6.88	0.102953	193.182	-1005.14
214	6.89	0.110516	193.194	-1004.38
215	6.89	0.115562	193.208	-1003.58
216	6.89	0.123135	193.223	-1002.73
217	6.9	0.128189	193.239	-1001.85
218	6.9	0.135774	193.258	-1000.91

219	6.9	0.140835	193.277	-999.94
220	6.91	0.148434	193.299	-998.914
221	6.92	0.153505	193.323	-997.852
222	6.92	0.161119	193.349	-996.737
223	6.92	0.166199	193.377	-995.587
224	6.92	0.173829	193.407	-994.384
225	6.92	0.181468	193.44	-993.128
226	6.92	0.186567	193.475	-991.837
227	6.92	0.194225	193.512	-990.493
228	6.93	0.199336	193.552	-989.111
229	6.93	0.207012	193.595	-987.677
230	6.93	0.212137	193.64	-986.207
231	6.93	0.219834	193.688	-984.683
232	6.93	0.224974	193.739	-983.124
233	6.93	0.232693	193.793	-981.512
234	6.94	0.237847	193.85	-979.861
235	6.94	0.24559	193.91	-978.157
236	6.95	0.250759	193.973	-976.414
237	6.95	0.258527	194.04	-974.617
238	6.96	0.266311	194.111	-972.763
239	6.96	0.271509	194.184	-970.874
240	6.97	0.279319	194.262	-968.927
241	6.99	0.284535	194.343	-966.938
242	6.99	0.292375	194.429	-964.894
243	7	0.297612	194.517	-962.811
244	7	0.305481	194.611	-960.673
245	7	0.310738	194.707	-958.498
246	7	0.318639	194.809	-956.267
247	7.02	0.323919	194.914	-953.993
248	7.02	0.331854	195.024	-951.664
249	7.04	0.337155	195.137	-949.29
250	7.05	0.345126	195.257	-946.857
251	7.05	0.353118	195.381	-944.367
252	7.07	0.358459	195.51	-941.833
253	7.07	0.36649	195.644	-939.242
254	7.07	0.371856	195.782	-936.613
255	7.07	0.379927	195.927	-933.927
256	7.07	0.385321	196.075	-931.203
257	7.08	0.393433	196.23	-928.417
258	7.1	0.398855	196.389	-925.585
259	7.12	0.40701	196.555	-922.687
260	7.14	0.412463	196.725	-919.742
261	7.15	0.420664	196.902	-916.735
262	7.16	0.426148	197.083	-913.683
263	7.17	0.434397	197.272	-910.569
264	7.17	0.442676	197.468	-907.395
265	7.19	0.448213	197.669	-904.172
266	7.19	0.456542	197.877	-900.89
267	7.19	0.462114	198.091	-897.567
268	7.19	0.470498	198.312	-894.184
269	7.19	0.476105	198.539	-890.761
270	7.2	0.484544	198.774	-887.272
271	7.2	0.490189	199.014	-883.743
272	7.2	0.498687	199.263	-880.152
273	7.2	0.504372	199.517	-876.521
274	7.2	0.51293	199.78	-872.828
275	7.21	0.518658	200.049	-869.088

276	7.26	0.52728	200.327	-865.26
277	7.27	0.53594	200.614	-861.364
278	7.27	0.541736	200.908	-857.425
279	7.28	0.550465	201.211	-853.418
280	7.29	0.556308	201.52	-849.363
281	7.3	0.565108	201.84	-845.237
282	7.3	0.570999	202.166	-841.069
283	7.3	0.579873	202.502	-836.836
284	7.3	0.585815	202.845	-832.559
285	7.31	0.594766	203.199	-828.212
286	7.32	0.60076	203.56	-823.814
287	7.32	0.609791	203.932	-819.35
288	7.33	0.615839	204.311	-814.836
289	7.34	0.624956	204.702	-810.249
290	7.35	0.634124	205.104	-805.588
291	7.4	0.640266	205.514	-800.85
292	7.4	0.649522	205.935	-796.044
293	7.4	0.655726	206.365	-791.192
294	7.42	0.665079	206.808	-786.257
295	7.42	0.671346	207.258	-781.275
296	7.45	0.680797	207.722	-776.203
297	7.46	0.687131	208.194	-771.077
298	7.5	0.696684	208.679	-765.852
299	7.55	0.703089	209.174	-760.544
300	7.6	0.712751	209.682	-755.127
301	7.6	0.719228	210.199	-749.661
302	7.6	0.729003	210.731	-744.12
303	7.62	0.738846	211.276	-738.49
304	7.67	0.745449	211.832	-732.773
305	7.7	0.755415	212.403	-726.956
306	7.72	0.7621	212.984	-721.073
307	7.86	0.772193	213.58	-715.003
308	7.88	0.778966	214.187	-708.865
309	7.96	0.789191	214.809	-702.583
310	8.02	0.796056	215.443	-696.199
311	8.02	0.806422	216.094	-689.731
312	8.16	0.813379	216.755	-683.094
313	8.44	0.823893	217.434	-676.14
314	8.48	0.830953	218.124	-669.094
315	8.48	0.841621	218.833	-661.957
316	8.54	0.852385	219.559	-654.678
317	8.55	0.859618	220.298	-647.328
318	8.59	0.87055	221.056	-639.85
319	8.64	0.877897	221.827	-632.265
320	8.67	0.889006	222.617	-624.557
321	8.68	0.896473	223.421	-616.776
322	8.74	0.907769	224.245	-608.842
323	8.77	0.915365	225.083	-600.814
324	8.82	0.926859	225.942	-592.639
325	8.83	0.93459	226.815	-584.387
326	8.86	0.946291	227.711	-576.003
327	8.87	0.954165	228.621	-567.539
328	8.9	0.966088	229.554	-558.941
329	8.94	0.97815	230.511	-550.196
330	8.95	0.986272	231.484	-541.369
331	8.95	0.998575	232.481	-532.432
332	8.98	1.00687	233.495	-523.39

333	9	1.01943	234.534	-514.215
334	9.04	1.02789	235.591	-504.923
335	9.05	1.04073	236.674	-495.505
336	9.09	1.04939	237.775	-485.966
337	9.1	1.06252	238.904	-476.297
338	9.1	1.07138	240.052	-466.547
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343	9.16	1.13113	246.19	-415.939
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347	9.18	1.18	251.598	-373.269
348	9.2	1.19522	253.026	-362.273
349	9.2	1.20553	254.48	-351.182
350	9.22	1.22123	255.971	-339.922
351	9.23	1.23187	257.489	-328.552
352	9.24	1.24809	259.046	-317.02
353	9.24	1.25908	260.632	-305.386
354	9.25	1.27588	262.259	-293.584
355	9.25	1.29303	263.931	-281.623
356	9.25	1.30469	265.634	-269.555
357	9.25	1.32251	267.383	-257.322
358	9.26	1.33462	269.164	-244.963
359	9.27	1.35317	270.995	-232.419
360	9.27	1.36581	272.86	-219.758
361	9.28	1.38517	274.779	-206.904
362	9.28	1.39838	276.735	-193.927
363	9.29	1.41865	278.747	-180.748
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365	9.3	1.4538	282.913	-153.919
366	9.31	1.46838	285.069	-140.249
367	9.32	1.49085	287.292	-126.354
368	9.32	1.5141	289.584	-112.242
369	9.32	1.53007	291.925	-97.9821
370	9.37	1.55477	294.342	-83.4139
371	9.37	1.57179	296.813	-68.6863
372	9.37	1.59819	299.367	-53.7112
373	9.39	1.61644	301.98	-38.5329
374	9.4	1.64485	304.686	-23.0713
375	9.4	1.66456	307.456	-7.42438
376	9.4	1.6954	310.331	8.51237
377	9.4	1.71688	313.278	24.6511
378	9.4	1.75069	316.343	41.1075
379	9.44	1.77438	319.492	57.8577
380	9.46	1.81191	322.775	74.9984
381	9.47	1.85218	326.205	92.5385
382	9.5	1.88079	329.743	110.406
383	9.5	1.92684	333.455	128.711
384	9.51	1.95996	337.297	147.35
385	9.54	2.01409	341.353	166.565
386	9.6	2.05375	345.571	186.281
387	9.6	2.12007	350.066	206.633
388	9.68	2.17009	354.775	227.64
389	9.7	2.25713	359.87	249.534

390	9.72	2.32634	365.282	272.146
391	9.8	2.45727	371.32	296.227
392	9.8	2.57583	377.955	321.47
393	10.02	2.87815	386.239	350.309

Data Set Standard Deviation = 1.01992

Numerator = 122717

Denominator = 157499

W Statistic = 0.779161 = 122717 / 157499

5% Critical value of 0.976 exceeds 0.779161

Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.779161

Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: ph

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.216841

Overall Std Dev = 0.2099

Overall Total = 85.2184

SS Groups = 2.73008

SS Total = 17.2707

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	2.73008	12	0.227507	5.9456
Error (within groups)	14.5406	380	0.0382648	
Totals	17.2707	392		

95% F-Statistic = 1.75

5.9456 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	0.0444444
5/9/2022	0.215556
5/31/2022	0.124444
6/20/2022	0.425556
7/18/2022	0.125556
8/18/2022	0.274444
9/13/2022	0.134444
10/3/2022	0.374444
5/4/2023	0.185556

Group: MW93-1

Sample	Residual
12/15/1994	0.0410127
3/14/1995	0.0910127
6/21/1995	0.0489873
12/14/1995	0.0910127
3/6/1996	0.0910127
4/25/1996	0.161013
10/2/1996	0.0189873
12/10/1996	0.118987
3/11/1997	0.141013
4/15/1997	0.0310127
8/14/1997	0.0310127
12/4/1997	0.151013
3/31/1998	0.241013
6/23/1998	0.128987
8/11/1998	0.421013
12/8/1998	0.00898734
3/9/1999	0.0289873
6/8/1999	0.301013
8/19/1999	0.0889873

12/14/1999	0.0789873
3/7/2000	0.0389873
6/23/2000	0.108987
12/12/2000	0.0689873
3/27/2001	0.0289873
6/28/2001	0.0389873
9/10/2001	0.131013
12/18/2001	0.131013
3/19/2002	0.301013
6/26/2002	0.221013
9/18/2002	0.00898734
12/11/2002	0.0489873
3/13/2003	0.0310127
6/25/2003	0.311013
9/26/2003	0.208987
12/10/2003	0.0110127
3/9/2004	0.0510127
6/24/2004	0.0989873
9/15/2004	0.198987
12/15/2004	0.0189873
3/16/2005	0.0589873
6/15/2005	0.0989873
9/21/2005	0.0210127
12/21/2005	0.0189873
3/15/2006	0.0110127
6/21/2006	0.221013
12/20/2006	0.0410127
6/12/2007	0.0489873
12/17/2007	0.298987
6/11/2008	0.0710127
12/3/2008	0.128987
6/17/2009	0.171013
12/9/2009	0.0289873
6/17/2010	0.128987
12/22/2010	0.0789873
6/29/2011	0.128987
12/7/2011	0.218987
6/6/2012	0.398987
12/12/2012	0.0189873
6/19/2013	0.0489873
12/11/2013	0.0589873
6/11/2014	0.528987
12/3/2014	0.0610127
6/17/2015	0.248987
12/1/2015	0.178987
6/22/2016	0.0389873
12/20/2016	0.348987
6/6/2017	0.0610127
11/7/2017	0.418987
2/27/2018	0.158987
9/19/2018	0.00898734
5/7/2019	0.371013
11/21/2019	0.168987
6/26/2020	0.251013
11/17/2020	0.178987
5/26/2021	0.0389873
11/17/2021	0.541013

4/8/2022	0.441013
10/4/2022	0.0110127
5/4/2023	0.221013

Group: MW03-1

Date	Residual
6/24/2004	0.307632
9/15/2004	0.182368
12/15/2004	0.357632
3/16/2005	0.337632
6/15/2005	0.317632
9/21/2005	0.917632
12/20/2006	0.0376316
6/12/2007	0.327632
12/17/2007	0.162368
6/11/2008	0.437632
12/3/2008	0.437632
6/17/2009	0.637632
12/9/2009	0.537632
6/17/2010	0.137632
12/22/2010	0.0723684
6/29/2011	0.337632
12/7/2011	0.0876316
6/6/2012	0.367632
6/19/2013	0.187632
12/11/2013	0.227632
6/11/2014	0.342368
12/3/2014	0.232368
6/17/2015	0.302368
12/1/2015	0.622368
6/22/2016	0.237632
12/20/2016	0.212368
6/6/2017	0.322368
11/7/2017	0.522368
2/27/2018	0.152368
9/19/2018	0.227632
5/7/2019	0.632368
11/21/2019	0.732368
6/25/2020	0.192368
11/17/2020	0.0423684
5/26/2021	1.38237
11/16/2021	0.657632
4/8/2022	0.762368
5/4/2023	0.252368

Group: MW03-2

Date	Residual
6/24/2004	0.0767442
9/15/2004	0.406744
12/15/2004	0.0967442
3/16/2005	0.0367442
6/15/2005	0.106744
9/21/2005	0.106744
12/21/2005	0.0667442
3/15/2006	0.116744
6/21/2006	0.0167442
12/20/2006	0.116744
6/12/2007	0.106744
12/17/2007	0.0632558

6/11/2008	0.136744
12/3/2008	0.0367442
6/17/2009	0.536744
12/9/2009	0.0367442
6/17/2010	0.0367442
12/22/2010	0.436744
6/29/2011	0.0632558
12/7/2011	0.0732558
6/6/2012	0.0332558
12/12/2012	0.0567442
6/19/2013	0.116744
12/11/2013	0.0432558
6/11/2014	0.236744
12/3/2014	0.376744
6/17/2015	0.313256
12/1/2015	0.373256
6/22/2016	0.0132558
12/20/2016	0.403256
6/6/2017	0.0332558
11/7/2017	0.543256
2/27/2018	0.293256
9/19/2018	0.133256
5/7/2019	0.0467442
11/21/2019	0.203256
6/25/2020	0.113256
11/17/2020	0.123256
5/26/2021	0.223256
11/17/2021	0.156744
4/8/2022	0.0232558
10/3/2022	0.233256
5/4/2023	0.163256

Group: MW22-02

Date	Residual
4/7/2022	0.0111111
5/9/2022	0.311111
5/31/2022	0.171111
6/20/2022	0.731111
7/18/2022	0.131111
8/18/2022	0.368889
9/13/2022	0.268889
10/3/2022	0.548889
5/4/2023	0.168889

Group: MW22-03

Date	Residual
4/7/2022	0.367778
5/9/2022	0.0277778
5/31/2022	0.232222
6/20/2022	0.892222
7/18/2022	0.632222
8/18/2022	0.337778
9/13/2022	0.357778
10/4/2022	0.887778
5/4/2023	0.222222

Group: MW22-04

Date	Residual
4/7/2022	0.236667
5/9/2022	0.576667

5/31/2022	0.0766667
6/20/2022	0.626667
7/18/2022	0.0266667
8/18/2022	0.423333
9/13/2022	0.303333
10/4/2022	0.543333
5/4/2023	0.273333

Group: MW22-05

Date	Residual
4/7/2022	0.0733333
5/9/2022	0.123333
5/31/2022	0.423333
6/20/2022	0.366667
7/18/2022	0.246667
8/18/2022	0.00333333
9/13/2022	0.126667
10/3/2022	0.0833333
5/4/2023	0.0333333

Group: MW22-06

Date	Residual
4/8/2022	0.0166667
5/9/2022	0.136667
5/31/2022	0.533333
6/20/2022	0.666667
7/18/2022	0.266667
8/18/2022	0.123333
9/13/2022	0.0333333
10/3/2022	0.263333
5/4/2023	0.133333

Group: MW22-07

Date	Residual
4/8/2022	0.0433333
5/9/2022	0.473333
5/31/2022	0.156667
6/20/2022	0.666667
7/18/2022	0.336667
8/18/2022	0.133333
9/13/2022	0.0533333
10/4/2022	0.323333
5/4/2023	0.133333

Group: MW22-08

Date	Residual
4/8/2022	0.0444444
5/9/2022	0.105556
5/31/2022	0.0244444
6/20/2022	0.575556
7/18/2022	0.255556
8/18/2022	0.174444
9/13/2022	0.0944444
10/4/2022	0.364444
5/4/2023	0.234444

Group: MW93-2

Date	Residual
12/15/1994	0.634146
3/14/1995	0.354146
6/21/1995	0.494146
12/14/1995	1.01415

3/6/1996	0.195854
4/25/1996	0.0341463
10/2/1996	0.234146
12/10/1996	0.0958537
3/11/1997	0.224146
4/15/1997	0.0758537
8/14/1997	0.504146
12/4/1997	0.404146
3/31/1998	0.145854
6/23/1998	0.304146
8/11/1998	0.174146
12/8/1998	0.274146
3/9/1999	0.215854
6/8/1999	0.0758537
8/19/1999	0.0241463
12/14/1999	0.194146
3/7/2000	0.0258537
6/23/2000	0.00585366
12/12/2000	0.00585366
3/27/2001	0.115854
6/28/2001	0.0458537
9/10/2001	0.0741463
12/18/2001	0.225854
3/19/2002	0.365854
6/26/2002	0.265854
9/18/2002	0.0658537
12/11/2002	0.0141463
3/13/2003	0.105854
6/25/2003	0.0958537
9/26/2003	0.145854
12/10/2003	0.0758537
3/9/2004	0.195854
6/24/2004	0.0658537
9/15/2004	0.145854
12/15/2004	0.0858537
3/16/2005	0.0558537
6/15/2005	0.0741463
9/21/2005	0.0758537
12/21/2005	0.135854
3/15/2006	0.295854
6/21/2006	0.225854
12/20/2006	0.00585366
2/21/2007	0.0258537
6/12/2007	0.0741463
12/17/2007	0.125854
6/11/2008	0.225854
12/3/2008	0.525854
12/15/2008	0.425854
6/17/2009	0.625854
12/9/2009	0.625854
6/17/2010	0.425854
12/22/2010	0.325854
6/29/2011	0.225854
12/7/2011	0.325854
6/6/2012	0.505854
12/12/2012	0.845854
1/9/2013	0.335854

6/19/2013	0.225854
12/11/2013	0.285854
6/11/2014	0.624146
12/3/2014	0.224146
6/17/2015	0.0441463
12/1/2015	0.195854
6/22/2016	0.105854
12/20/2016	0.545854
6/6/2017	0.115854
11/7/2017	0.314146
2/27/2018	0.134146
9/19/2018	0.0841463
5/7/2019	0.124146
11/21/2019	0.734146
6/26/2020	0.584146
11/16/2020	0.694146
5/26/2021	0.434146
11/17/2021	0.534146
4/8/2022	0.344146
10/4/2022	0.694146
5/4/2023	0.0141463

Group: MW93-3

Date	Residual
12/15/1994	0.101266
3/14/1995	0.0412658
6/21/1995	0.171266
12/14/1995	0.0312658
3/6/1996	0.0687342
4/25/1996	0.00126582
10/2/1996	0.0312658
12/10/1996	0.0812658
3/11/1997	0.0187342
4/15/1997	0.0412658
8/14/1997	0.0987342
12/4/1997	0.0987342
3/31/1998	0.138734
6/23/1998	0.0212658
8/11/1998	0.128734
12/8/1998	0.148734
3/9/1999	0.00126582
6/8/1999	0.0687342
8/19/1999	0.188734
12/14/1999	0.0187342
3/7/2000	0.0112658
6/23/2000	0.0387342
12/12/2000	0.0787342
3/27/2001	0.00873418
6/28/2001	0.0787342
9/10/2001	0.258734
12/18/2001	0.148734
3/19/2002	0.218734
6/26/2002	0.108734
9/18/2002	1.17873
12/11/2002	0.0412658
3/13/2003	0.0887342
6/25/2003	0.0687342
9/26/2003	0.0112658

12/10/2003	0.208734
3/9/2004	0.668734
6/24/2004	0.0187342
9/15/2004	0.0812658
12/15/2004	0.0987342
3/16/2005	0.0912658
6/15/2005	0.0287342
9/21/2005	0.0687342
12/21/2005	0.0812658
3/15/2006	0.288734
6/21/2006	0.0587342
12/20/2006	0.148734
6/12/2007	0.108734
12/17/2007	0.0187342
6/11/2008	0.0187342
12/3/2008	0.0187342
6/17/2009	0.418734
12/9/2009	0.118734
6/17/2010	0.0812658
12/22/2010	0.0387342
6/29/2011	0.0812658
12/7/2011	0.0112658
6/6/2012	0.361266
12/12/2012	0.0687342
6/19/2013	0.291266
12/11/2013	0.288734
6/11/2014	0.701266
12/3/2014	0.0187342
6/17/2015	0.381266
12/1/2015	0.181266
6/22/2016	0.351266
12/20/2016	0.511266
6/6/2017	0.131266
11/7/2017	0.321266
2/27/2018	0.291266
9/19/2018	0.231266
5/7/2019	0.0912658
11/21/2019	0.241266
6/26/2020	0.0312658
11/16/2020	0.541266
5/26/2021	0.0712658
11/17/2021	0.138734
4/8/2022	0.00873418
10/4/2022	0.231266
5/4/2023	0.131266

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-08

Parameter: ph

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 8.02

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/8/2022	7.4
	5/9/2022	7.55
	5/31/2022	7.42
	6/20/2022	8.02
	7/18/2022	7.7
	8/18/2022	7.27
	9/13/2022	7.35
	10/4/2022	7.08

Date	Count	Mean	Significant
5/4/2023	1	7.21	FALSE

Concentrations (ppb)

Parameter: Radium Combined

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 144

Total Non-Detect: 5

Percent Non-Detects: 3.47222%

Total Background Measurements: 24

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	16	2 (12.5%)	5/24/2018	0.666	0.666
			6/22/2018	0.0833	0.0833
			7/19/2018	0.117	0.117
			8/22/2018	0.32	0.32
			9/19/2018	ND<0	ND<0
			10/18/2018	1.19	1.19
			11/20/2018	0.785	0.785
			12/20/2018	0.735	0.735
			11/21/2019	0.872	0.872
			6/25/2020	0.447	0.447
			11/17/2020	0.202	0.202
			5/26/2021	0.99	0.99
			11/17/2021	2.24	2.24
			4/8/2022	ND<0	ND<0
			10/3/2022	0.0893	0.0893
5/4/2023	0.336	0.336			
MW22-01	8	0 (0%)	4/7/2022	0.135	0.135
			5/9/2022	1.3967	1.3967
			5/31/2022	1.501	1.501
			6/20/2022	3.838	3.838
			7/18/2022	1.87	1.87
			8/18/2022	1.255	1.255
			10/3/2022	0.217	0.217
			5/3/2023	1.24	1.24

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	17	0 (0%)	5/24/2018	1.44	1.44
			6/22/2018	1.8	1.8
			7/19/2018	5.74	5.74
			8/22/2018	2.24	2.24
			9/19/2018	0.935	0.935
			10/18/2018	1.9	1.9
			11/20/2018	1.28	1.28
			12/20/2018	1.16	1.16
			11/21/2019	1.25	1.25
			6/25/2020	3.24	3.24
			11/16/2020	3.478	3.478
			5/26/2021	3.25	3.25
			11/17/2021	3.743	3.743
			4/8/2022	4.77	4.77
			10/3/2022	2.049	2.049

			10/3/2022	3.48	3.48
			5/4/2023	2.289	2.289
MW03-1	15	0 (0%)	5/24/2018	1.19	1.19
			6/22/2018	3.08	3.08
			7/19/2018	0.457	0.457
			8/22/2018	6.1	6.1
			10/18/2018	2.84	2.84
			11/20/2018	0.809	0.809
			12/20/2018	1.71	1.71
			3/26/2019	0.994	0.994
			11/21/2019	0.729	0.729
			6/25/2020	0.715	0.715
			11/17/2020	1.184	1.184
			5/26/2021	1.84	1.84
			11/16/2021	1.974	1.974
			4/8/2022	1.033	1.033
			5/3/2023	0.304	0.304
MW03-2	16	0 (0%)	5/24/2018	1.24	1.24
			6/22/2018	0.108	0.108
			7/19/2018	2.55	2.55
			8/22/2018	0.515	0.515
			9/19/2018	0.34	0.34
			10/18/2018	0.939	0.939
			11/20/2018	1.39	1.39
			12/20/2018	1.01	1.01
			11/21/2019	0.394	0.394
			6/25/2020	0.949	0.949
			11/17/2020	3.586	3.586
			5/26/2021	0.41	0.41
			11/17/2021	0.804	0.804
			4/8/2022	2.337	2.337
			10/3/2022	0.75	0.75
			5/3/2023	0.482	0.482
MW93-3	16	0 (0%)	5/24/2018	0.422	0.422
			6/22/2018	0.336	0.336
			7/19/2018	0.519	0.519
			8/22/2018	1	1
			9/19/2018	0.3	0.3
			10/18/2018	1.45	1.45
			11/20/2018	1.42	1.42
			12/20/2018	1.39	1.39
			11/21/2019	1.03	1.03
			6/25/2020	0.519	0.519
			11/16/2020	0.7	0.7
			5/26/2021	0.42	0.42
			11/17/2021	1.783	1.783
			4/8/2022	0.555	0.555
			10/3/2022	0.282	0.282
			5/3/2023	0.146	0.146
MW22-02	8	0 (0%)	4/7/2022	1.138	1.138
			5/9/2022	3.002	3.002
			5/31/2022	1.785	1.785
			6/20/2022	1.126	1.126

			7/19/2022	0.494	0.494
			8/18/2022	2.157	2.157
			10/3/2022	0.795	0.795
			5/4/2023	0.584	0.584
MW22-04	8	0 (0%)	4/7/2022	0.223	0.223
			5/9/2022	1.307	1.307
			5/31/2022	1.062	1.062
			6/20/2022	0.438	0.438
			7/18/2022	1.3	1.3
			8/18/2022	0.779	0.779
			10/3/2022	0.609	0.609
			5/4/2023	0.408	0.408
MW22-05	8	0 (0%)	4/7/2022	0.674	0.674
			5/9/2022	1.517	1.517
			5/31/2022	1.661	1.661
			6/20/2022	1.762	1.762
			7/18/2022	1.688	1.688
			8/18/2022	2.448	2.448
			10/3/2022	0.176	0.176
			5/3/2023	0.995	0.995
MW22-03	8	0 (0%)	4/7/2022	0.315	0.315
			5/9/2022	7.61	7.61
			5/31/2022	2.62	2.62
			6/20/2022	4.45	4.45
			7/19/2022	4.1	4.1
			8/18/2022	2.34	2.34
			10/3/2022	1.711	1.711
			5/4/2023	2.72	2.72
MW22-07	8	1 (12.5%)	4/8/2022	1.644	1.644
			5/9/2022	0.836	0.836
			5/31/2022	0.793	0.793
			6/20/2022	0.835	0.835
			7/19/2022	0.5542	0.5542
			8/18/2022	0.859	0.859
			10/3/2022	ND<0	ND<0
			5/4/2023	0.411	0.411
MW22-08	8	2 (25%)	4/8/2022	1.175	1.175
			5/9/2022	0.497	0.497
			5/31/2022	0.627	0.627
			6/20/2022	ND<0	ND<0
			7/18/2022	0.496	0.496
			8/18/2022	2.455	2.455
			10/3/2022	ND<0	ND<0
			5/3/2023	0.788	0.788
MW22-06	8	0 (0%)	4/8/2022	1.945	1.945
			5/9/2022	0.752	0.752
			5/31/2022	1.058	1.058
			6/20/2022	0.747	0.747
			7/18/2022	0.461	0.461
			8/18/2022	1.971	1.971
			10/3/2022	0.275	0.275

5/3/2023

0.9761

0.9761

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Radium Combined

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 3.47222%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 24

Maximum Background Value = 3.838

Confidence Level = 75%

False Positive Rate = 25%

Location	Date	Count	Mean	Significant
MW93-2	5/4/2023	1	2.289	FALSE
MW03-1	5/3/2023	1	0.304	FALSE
MW03-2	5/3/2023	1	0.482	FALSE
MW93-3	5/3/2023	1	0.146	FALSE
MW22-02	5/4/2023	1	0.584	FALSE
MW22-04	5/4/2023	1	0.408	FALSE
MW22-05	5/3/2023	1	0.995	FALSE
MW22-03	5/4/2023	1	2.72	FALSE
MW22-07	5/4/2023	1	0.411	FALSE
MW22-08	5/3/2023	1	0.788	FALSE
MW22-06	5/3/2023	1	0.9761	FALSE

Shapiro-Francia Test of Normality

Parameter: Radium Combined

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 144

i	x(i)	m(i)	sum(m²)	sum(mx)
1	0	-2.51213	6.31081	0
2	0	-2.22621	11.2668	0
3	0	-2.05375	15.4847	0
4	0	-1.92684	19.1974	0
5	0	-1.82501	22.528	0
6	0.0833	-1.7392	25.5529	-0.144875
7	0.0893	-1.66456	28.3236	-0.293521
8	0.108	-1.59819	30.8778	-0.466125
9	0.117	-1.5382	33.2439	-0.646095
10	0.135	-1.49085	35.4665	-0.84736
11	0.146	-1.43953	37.5388	-1.05753
12	0.176	-1.39175	39.4757	-1.30248
13	0.202	-1.34694	41.29	-1.57456
14	0.217	-1.30469	42.9922	-1.85768
15	0.223	-1.26464	44.5915	-2.13969
16	0.275	-1.22653	46.0959	-2.47699
17	0.282	-1.19012	47.5123	-2.8126
18	0.3	-1.15522	48.8468	-3.15917
19	0.304	-1.12168	50.105	-3.50016
20	0.315	-1.0939	51.3016	-3.84474
21	0.32	-1.06252	52.4305	-4.18474
22	0.336	-1.03215	53.4959	-4.53155
23	0.336	-1.00271	54.5013	-4.86846
24	0.34	-0.974114	55.4502	-5.19965
25	0.394	-0.946291	56.3457	-5.57249
26	0.408	-0.919183	57.1906	-5.94752
27	0.41	-0.892733	57.9875	-6.31354
28	0.411	-0.866894	58.739	-6.66983
29	0.42	-0.841621	59.4474	-7.02331
30	0.422	-0.820379	60.1204	-7.36951
31	0.438	-0.796056	60.7541	-7.71819
32	0.447	-0.772193	61.3504	-8.06336
33	0.457	-0.748762	61.911	-8.40554
34	0.461	-0.725736	62.4377	-8.74011
35	0.482	-0.703089	62.932	-9.07899
36	0.494	-0.680797	63.3955	-9.41531
37	0.496	-0.658838	63.8296	-9.74209
38	0.497	-0.637192	64.2356	-10.0588
39	0.515	-0.618872	64.6186	-10.3775
40	0.519	-0.597761	64.9759	-10.6877
41	0.519	-0.576911	65.3088	-10.9872
42	0.5542	-0.556308	65.6182	-11.2955
43	0.555	-0.53594	65.9055	-11.5929
44	0.584	-0.515791	66.1715	-11.8941
45	0.609	-0.49585	66.4174	-12.1961
46	0.627	-0.476105	66.644	-12.4946
47	0.666	-0.456542	66.8525	-12.7987

48	0.674	-0.437153	67.0436	-13.0933
49	0.7	-0.420664	67.2205	-13.3878
50	0.715	-0.401571	67.3818	-13.6749
51	0.729	-0.382622	67.5282	-13.9538
52	0.735	-0.363809	67.6606	-14.2212
53	0.747	-0.345126	67.7797	-14.479
54	0.75	-0.326561	67.8863	-14.724
55	0.752	-0.308108	67.9812	-14.9557
56	0.779	-0.28976	68.0652	-15.1814
57	0.785	-0.271509	68.1389	-15.3945
58	0.788	-0.253347	68.2031	-15.5942
59	0.793	-0.237847	68.2597	-15.7828
60	0.795	-0.219834	68.308	-15.9575
61	0.804	-0.201894	68.3488	-16.1199
62	0.809	-0.184017	68.3826	-16.2687
63	0.835	-0.166199	68.4102	-16.4075
64	0.836	-0.148434	68.4323	-16.5316
65	0.859	-0.130716	68.4494	-16.6439
66	0.872	-0.113039	68.4621	-16.7425
67	0.935	-0.0953969	68.4712	-16.8316
68	0.939	-0.0802981	68.4777	-16.907
69	0.949	-0.0627062	68.4816	-16.9666
70	0.9761	-0.0451348	68.4837	-17.0106
71	0.99	-0.0275759	68.4844	-17.0379
72	0.994	-0.0100272	68.4845	-17.0479
73	0.995	0.0100272	68.4846	-17.0379
74	1	0.0275759	68.4854	-17.0103
75	1.01	0.0451348	68.4874	-16.9647
76	1.03	0.0627062	68.4914	-16.9002
77	1.033	0.0802981	68.4978	-16.8172
78	1.058	0.0953969	68.5069	-16.7163
79	1.062	0.113039	68.5197	-16.5962
80	1.126	0.130716	68.5368	-16.449
81	1.138	0.148434	68.5588	-16.2801
82	1.16	0.166199	68.5864	-16.0873
83	1.175	0.184017	68.6203	-15.8711
84	1.184	0.201894	68.661	-15.6321
85	1.19	0.219834	68.7094	-15.3705
86	1.19	0.237847	68.7659	-15.0874
87	1.24	0.253347	68.8301	-14.7733
88	1.24	0.271509	68.9038	-14.4366
89	1.25	0.28976	68.9878	-14.0744
90	1.255	0.308108	69.0827	-13.6877
91	1.28	0.326561	69.1894	-13.2697
92	1.3	0.345126	69.3085	-12.8211
93	1.307	0.363809	69.4408	-12.3456
94	1.39	0.382622	69.5872	-11.8137
95	1.39	0.401571	69.7485	-11.2555
96	1.3967	0.420664	69.9255	-10.668
97	1.42	0.437153	70.1166	-10.0472
98	1.44	0.456542	70.325	-9.38982
99	1.45	0.476105	70.5517	-8.69947
100	1.501	0.49585	70.7975	-7.9552
101	1.517	0.515791	71.0636	-7.17274
102	1.644	0.53594	71.3508	-6.29166
103	1.661	0.556308	71.6603	-5.36763
104	1.688	0.576911	71.9931	-4.39381

105	1.71	0.597761	72.3504	-3.37163
106	1.711	0.618872	72.7334	-2.31274
107	1.762	0.637192	73.1395	-1.19001
108	1.783	0.658838	73.5735	-0.0153032
109	1.785	0.680797	74.037	1.19992
110	1.8	0.703089	74.5313	2.46548
111	1.84	0.725736	75.058	3.80083
112	1.87	0.748762	75.6187	5.20102
113	1.9	0.772193	76.215	6.66818
114	1.945	0.796056	76.8487	8.21651
115	1.971	0.820379	77.5217	9.83348
116	1.974	0.841621	78.23	11.4948
117	2.049	0.866894	78.9815	13.2711
118	2.157	0.892733	79.7785	15.1967
119	2.24	0.919183	80.6234	17.2557
120	2.24	0.946291	81.5188	19.3754
121	2.289	0.974114	82.4677	21.6051
122	2.337	1.00271	83.4732	23.9485
123	2.34	1.03215	84.5385	26.3637
124	2.448	1.06252	85.6675	28.9648
125	2.455	1.0939	86.8641	31.6503
126	2.55	1.12168	88.1222	34.5106
127	2.62	1.15522	89.4568	37.5372
128	2.72	1.19012	90.8732	40.7744
129	2.84	1.22653	92.3775	44.2577
130	3.002	1.26464	93.9768	48.0542
131	3.08	1.30469	95.6791	52.0726
132	3.24	1.34694	97.4933	56.4367
133	3.25	1.39175	99.4303	60.9598
134	3.478	1.43953	101.502	65.9665
135	3.48	1.49085	103.725	71.1547
136	3.586	1.5382	106.091	76.6707
137	3.743	1.59819	108.645	82.6527
138	3.838	1.66456	111.416	89.0413
139	4.1	1.7392	114.441	96.172
140	4.45	1.82501	117.772	104.293
141	4.77	1.92684	121.484	113.484
142	5.74	2.05375	125.702	125.273
143	6.1	2.22621	130.658	138.853
144	7.61	2.51213	136.969	157.97

Data Set Standard Deviation = 1.25617

Numerator = 24954.5

Denominator = 30906.9

W Statistic = 0.807411 = 24954.5 / 30906.9

5% Critical value of 0.976 exceeds 0.807411

Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.807411

Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Radium Combined

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.705011

Overall Std Dev = 0.711828

Overall Total = 101.522

SS Groups = 16.3765

SS Total = 72.458

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	16.3765	12	1.36471	3.1878
Error (within groups)	56.0815	131	0.428103	
Totals	72.458	143		

95% F-Statistic = 1.75

3.1878 exceeds 1.75; assumption of equal variance should be rejected

Group: MW93-1	Sample	Residual
	5/24/2018	0.0989625
	6/22/2018	0.483738
	7/19/2018	0.450038
	8/22/2018	0.247038
	9/19/2018	0.567038
	10/18/2018	0.622962
	11/20/2018	0.217962
	12/20/2018	0.167962
	11/21/2019	0.304962
	6/25/2020	0.120038
	11/17/2020	0.365038
	5/26/2021	0.422962
	11/17/2021	1.67296
	4/8/2022	0.567038
	10/3/2022	0.477738
	5/4/2023	0.231038

Group: MW22-01	Sample	Residual
	4/7/2022	1.29659
	5/9/2022	0.0348875
	5/31/2022	0.0694125
	6/20/2022	2.40641
	7/18/2022	0.438413
	8/18/2022	0.176588
	10/3/2022	1.21459
	5/3/2023	0.191588

Group: MW93-2	Date	Residual
	5/24/2018	1.15082
	6/22/2018	0.790824

7/19/2018	3.14918
8/22/2018	0.350824
9/19/2018	1.65582
10/18/2018	0.690824
11/20/2018	1.31082
12/20/2018	1.43082
11/21/2019	1.34082
6/25/2020	0.649176
11/16/2020	0.887176
5/26/2021	0.659176
11/17/2021	1.15218
4/8/2022	2.17918
10/3/2022	0.541824
10/3/2022	0.889176
5/4/2023	0.301824

Group: MW03-1

Date	Residual
5/24/2018	0.473933
6/22/2018	1.41607
7/19/2018	1.20693
8/22/2018	4.43607
10/18/2018	1.17607
11/20/2018	0.854933
12/20/2018	0.0460667
3/26/2019	0.669933
11/21/2019	0.934933
6/25/2020	0.948933
11/17/2020	0.479933
5/26/2021	0.176067
11/16/2021	0.310067
4/8/2022	0.630933
5/3/2023	1.35993

Group: MW03-2

Date	Residual
5/24/2018	0.12725
6/22/2018	1.00475
7/19/2018	1.43725
8/22/2018	0.59775
9/19/2018	0.77275
10/18/2018	0.17375
11/20/2018	0.27725
12/20/2018	0.10275
11/21/2019	0.71875
6/25/2020	0.16375
11/17/2020	2.47325
5/26/2021	0.70275
11/17/2021	0.30875
4/8/2022	1.22425
10/3/2022	0.36275
5/3/2023	0.63075

Group: MW93-3

Date	Residual
5/24/2018	0.345
6/22/2018	0.431
7/19/2018	0.248
8/22/2018	0.233
9/19/2018	0.467

10/18/2018	0.683
11/20/2018	0.653
12/20/2018	0.623
11/21/2019	0.263
6/25/2020	0.248
11/16/2020	0.067
5/26/2021	0.347
11/17/2021	1.016
4/8/2022	0.212
10/3/2022	0.485
5/3/2023	0.621

Group: MW22-02

Date	Residual
4/7/2022	0.247125
5/9/2022	1.61687
5/31/2022	0.399875
6/20/2022	0.259125
7/19/2022	0.891125
8/18/2022	0.771875
10/3/2022	0.590125
5/4/2023	0.801125

Group: MW22-04

Date	Residual
4/7/2022	0.54275
5/9/2022	0.54125
5/31/2022	0.29625
6/20/2022	0.32775
7/18/2022	0.53425
8/18/2022	0.01325
10/3/2022	0.15675
5/4/2023	0.35775

Group: MW22-05

Date	Residual
4/7/2022	0.691125
5/9/2022	0.151875
5/31/2022	0.295875
6/20/2022	0.396875
7/18/2022	0.322875
8/18/2022	1.08288
10/3/2022	1.18913
5/3/2023	0.370125

Group: MW22-03

Date	Residual
4/7/2022	2.91825
5/9/2022	4.37675
5/31/2022	0.61325
6/20/2022	1.21675
7/19/2022	0.86675
8/18/2022	0.89325
10/3/2022	1.52225
5/4/2023	0.51325

Group: MW22-07

Date	Residual
4/8/2022	0.902475
5/9/2022	0.094475
5/31/2022	0.051475
6/20/2022	0.093475

7/19/2022	0.187325
8/18/2022	0.117475
10/3/2022	0.741525
5/4/2023	0.330525

Group: MW22-08

Date	Residual
4/8/2022	0.42025
5/9/2022	0.25775
5/31/2022	0.12775
6/20/2022	0.75475
7/18/2022	0.25875
8/18/2022	1.70025
10/3/2022	0.75475
5/3/2023	0.03325

Group: MW22-06

Date	Residual
4/8/2022	0.921863
5/9/2022	0.271138
5/31/2022	0.0348625
6/20/2022	0.276138
7/18/2022	0.562137
8/18/2022	0.947863
10/3/2022	0.748138
5/3/2023	0.0470375

Concentrations (ppb)

Parameter: Selenium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 156

Total Non-Detect: 130

Percent Non-Detects: 83.3333%

Total Background Measurements: 25

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	9 (100%)	4/7/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
MW93-1	16	16 (100%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.005	ND<0.005
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
5/4/2023	ND<0.002	ND<0.002			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	15	13 (86.6667%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	0.0144	0.0144
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			3/26/2019	ND<0.005	ND<0.005
			11/21/2019	ND<0.005	ND<0.005
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	0.000522	0.000522
			5/26/2021	ND<0.002	ND<0.002
			11/16/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002

			5/3/2023	ND<0.002	ND<0.002
MW03-2	16	16 (100%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.005	ND<0.005
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
MW93-2	17	10 (58.8235%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	0.00621	0.00621
			6/25/2020	0.00129	0.00129
			11/16/2020	0.000834	0.000834
			5/26/2021	0.000649	0.000649
			11/17/2021	0.00102	0.00102
			4/8/2022	0.00112	0.00112
			10/4/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
			5/4/2023	0.0011	0.0011
MW93-3	16	16 (100%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.005	ND<0.005
			6/25/2020	ND<0.002	ND<0.002
			11/16/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
MW22-02	9	0 (0%)	4/7/2022	0.17	0.17
			5/9/2022	0.469	0.469
			5/31/2022	0.0864	0.0864

			6/20/2022	0.0733	0.0733
			7/19/2022	0.0275	0.0275
			8/18/2022	0.032	0.032
			9/13/2022	0.0641	0.0641
			10/3/2022	0.0918	0.0918
			5/4/2023	0.0511	0.0511
MW22-03	9	9 (100%)	4/7/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/19/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
MW22-04	10	8 (80%)	4/7/2022	ND<0.002	ND<0.002
			5/9/2022	0.000769	0.000769
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	0.000515	0.000515
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
MW22-05	10	10 (100%)	4/7/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
MW22-06	10	9 (90%)	4/8/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	0.0018	0.0018
MW22-07	9	4 (44.4444%)	4/8/2022	0.00188	0.00188
			5/9/2022	0.00304	0.00304
			5/31/2022	0.00249	0.00249
			6/20/2022	0.0016	0.0016
			7/19/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002

			10/4/2022	ND<0.002	ND<0.002
			5/4/2023	0.00266	0.00266
MW22-08	10	10 (100%)	4/8/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Selenium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 83.3333%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 25

Maximum Background Value = 0.005

Confidence Level = 75.8%

False Positive Rate = 24.2%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	0.002	FALSE
MW03-2	5/3/2023	1	0.002	FALSE
MW93-2	5/4/2023	1	0.0011	FALSE
MW93-3	5/3/2023	1	0.002	FALSE
MW22-02	5/4/2023	1	0.0511	TRUE
MW22-03	5/4/2023	1	0.002	FALSE
MW22-04	5/4/2023	1	0.002	FALSE
MW22-05	5/3/2023	2	0.002	FALSE
MW22-06	5/3/2023	1	0.0018	FALSE
MW22-07	5/4/2023	1	0.00266	FALSE
MW22-08	5/3/2023	1	0.002	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Selenium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.469

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	0.17
	5/9/2022	0.469
	5/31/2022	0.0864
	6/20/2022	0.0733
	7/19/2022	0.0275
	8/18/2022	0.032
	9/13/2022	0.0641
	10/3/2022	0.0918

Date	Count	Mean	Significant
5/4/2023	1	0.0511	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-07

Parameter: Selenium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 50%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 0.00304

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/8/2022	0.00188
	5/9/2022	0.00304
	5/31/2022	0.00249
	6/20/2022	0.0016
	7/19/2022	ND<0.002
	8/18/2022	ND<0.002
	9/13/2022	ND<0.002
	10/4/2022	ND<0.002

Date	Count	Mean	Significant
5/4/2023	1	0.00266	FALSE

Shapiro-Francia Test of Normality

Parameter: Selenium

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 156

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	0.000515	-2.51213	6.31081	-0.00129375
2	0.000522	-2.25713	11.4054	-0.00247197
3	0.000649	-2.07485	15.7104	-0.00381855
4	0.000769	-1.95996	19.5519	-0.00532576
5	0.000834	-1.86629	23.0349	-0.00688224
6	0.00102	-1.77438	26.1834	-0.00869211
7	0.0011	-1.70604	29.0939	-0.0105688
8	0.00112	-1.64485	31.7995	-0.012411
9	0.00129	-1.58047	34.2974	-0.0144498
10	0.0016	-1.53007	36.6385	-0.0168979
11	0.0018	-1.47579	38.8164	-0.0195543
12	0.00188	-1.4325	40.8685	-0.0222474
13	0.002	-1.39175	42.8054	-0.0250309
14	0.002	-1.34694	44.6197	-0.0277248
15	0.002	-1.31058	46.3373	-0.030346
16	0.002	-1.27588	47.9652	-0.0328977
17	0.002	-1.23724	49.4959	-0.0353722
18	0.002	-1.20553	50.9492	-0.0377832
19	0.002	-1.17	52.3181	-0.0401232
20	0.002	-1.14069	53.6193	-0.0424046
21	0.002	-1.11232	54.8565	-0.0446293
22	0.002	-1.08032	56.0236	-0.0467899
23	0.002	-1.05375	57.134	-0.0488974
24	0.002	-1.02789	58.1906	-0.0509532
25	0.002	-0.998575	59.1877	-0.0529503
26	0.002	-0.974114	60.1366	-0.0548986
27	0.002	-0.950222	61.0395	-0.056799
28	0.002	-0.923014	61.8915	-0.058645
29	0.002	-0.900227	62.7019	-0.0604455
30	0.002	-0.874218	63.4662	-0.0621939
31	0.002	-0.852385	64.1927	-0.0638987
32	0.002	-0.830953	64.8832	-0.0655606
33	0.002	-0.806422	65.5335	-0.0671734
34	0.002	-0.785774	66.151	-0.068745
35	0.002	-0.765456	66.7369	-0.0702759
36	0.002	-0.742143	67.2877	-0.0717602
37	0.002	-0.722479	67.8096	-0.0732051
38	0.002	-0.699883	68.2995	-0.0746049
39	0.002	-0.680797	68.763	-0.0759665
40	0.002	-0.661955	69.2011	-0.0772904
41	0.002	-0.640266	69.6111	-0.0785709
42	0.002	-0.621911	69.9979	-0.0798148
43	0.002	-0.603765	70.3624	-0.0810223
44	0.002	-0.582841	70.7021	-0.082188
45	0.002	-0.565108	71.0214	-0.0833182
46	0.002	-0.547551	71.3213	-0.0844133
47	0.002	-0.52728	71.5993	-0.0854678

48	0.002	-0.510074	71.8595	-0.086488
49	0.002	-0.490189	72.0997	-0.0874684
50	0.002	-0.473299	72.3238	-0.088415
51	0.002	-0.456542	72.5322	-0.0893281
52	0.002	-0.437153	72.7233	-0.0902024
53	0.002	-0.420664	72.9002	-0.0910437
54	0.002	-0.40429	73.0637	-0.0918523
55	0.002	-0.385321	73.2122	-0.0926229
56	0.002	-0.369171	73.3485	-0.0933613
57	0.002	-0.350451	73.4713	-0.0940622
58	0.002	-0.334503	73.5832	-0.0947312
59	0.002	-0.318639	73.6847	-0.0953684
60	0.002	-0.300232	73.7748	-0.0959689
61	0.002	-0.284535	73.8558	-0.096538
62	0.002	-0.268908	73.9281	-0.0970758
63	0.002	-0.250759	73.991	-0.0975773
64	0.002	-0.235269	74.0463	-0.0980478
65	0.002	-0.217267	74.0935	-0.0984824
66	0.002	-0.201894	74.1343	-0.0988862
67	0.002	-0.186567	74.1691	-0.0992593
68	0.002	-0.168741	74.1976	-0.0995968
69	0.002	-0.153505	74.2211	-0.0999038
70	0.002	-0.138305	74.2403	-0.10018
71	0.002	-0.12061	74.2548	-0.100422
72	0.002	-0.105474	74.2659	-0.100633
73	0.002	-0.0903606	74.2741	-0.100813
74	0.002	-0.0727562	74.2794	-0.100959
75	0.002	-0.0576847	74.2827	-0.101074
76	0.002	-0.0401167	74.2843	-0.101154
77	0.002	-0.0250691	74.285	-0.101205
78	0.002	-0.0100272	74.2851	-0.101225
79	0.002	0.0100272	74.2852	-0.101205
80	0.002	0.0250691	74.2858	-0.101154
81	0.002	0.0401167	74.2874	-0.101074
82	0.002	0.0576847	74.2907	-0.100959
83	0.002	0.0727562	74.296	-0.100813
84	0.002	0.0903606	74.3042	-0.100633
85	0.002	0.105474	74.3153	-0.100422
86	0.002	0.12061	74.3299	-0.10018
87	0.002	0.138305	74.349	-0.0999038
88	0.002	0.153505	74.3726	-0.0995968
89	0.002	0.168741	74.401	-0.0992593
90	0.002	0.186567	74.4358	-0.0988862
91	0.002	0.201894	74.4766	-0.0984824
92	0.002	0.217267	74.5238	-0.0980478
93	0.002	0.235269	74.5792	-0.0975773
94	0.002	0.250759	74.642	-0.0970758
95	0.002	0.268908	74.7143	-0.096538
96	0.002	0.284535	74.7953	-0.0959689
97	0.002	0.300232	74.8854	-0.0953684
98	0.00249	0.318639	74.987	-0.094575
99	0.00266	0.334503	75.0989	-0.0936853
100	0.00304	0.350451	75.2217	-0.0926199
101	0.005	0.369171	75.358	-0.090774
102	0.005	0.385321	75.5064	-0.0888474
103	0.005	0.40429	75.6699	-0.086826
104	0.005	0.420664	75.8469	-0.0847227

105	0.005	0.437153	76.038	-0.0825369
106	0.005	0.456542	76.2464	-0.0802542
107	0.005	0.473299	76.4704	-0.0778877
108	0.005	0.490189	76.7107	-0.0754367
109	0.005	0.510074	76.9709	-0.0728864
110	0.005	0.52728	77.2489	-0.07025
111	0.005	0.547551	77.5487	-0.0675122
112	0.005	0.565108	77.868	-0.0646867
113	0.005	0.582841	78.2077	-0.0617725
114	0.005	0.603765	78.5723	-0.0587536
115	0.005	0.621911	78.9591	-0.0556441
116	0.005	0.640266	79.369	-0.0524428
117	0.005	0.661955	79.8072	-0.049133
118	0.005	0.680797	80.2707	-0.045729
119	0.005	0.699883	80.7605	-0.0422296
120	0.005	0.722479	81.2825	-0.0386172
121	0.005	0.742143	81.8332	-0.0349065
122	0.005	0.765456	82.4192	-0.0310792
123	0.005	0.785774	83.0366	-0.0271503
124	0.005	0.806422	83.6869	-0.0231182
125	0.005	0.830953	84.3774	-0.0189635
126	0.005	0.852385	85.104	-0.0147015
127	0.005	0.874218	85.8682	-0.0103304
128	0.005	0.900227	86.6786	-0.0058293
129	0.005	0.923014	87.5306	-0.00121423
130	0.005	0.950222	88.4335	0.00353688
131	0.005	0.974114	89.3824	0.00840745
132	0.005	0.998575	90.3796	0.0134003
133	0.005	1.02789	91.4361	0.0185398
134	0.005	1.05375	92.5465	0.0238085
135	0.005	1.08032	93.7136	0.0292101
136	0.005	1.11232	94.9509	0.0347717
137	0.005	1.14069	96.252	0.0404752
138	0.005	1.17	97.6209	0.0463252
139	0.005	1.20553	99.0742	0.0523528
140	0.005	1.23724	100.605	0.058539
141	0.005	1.27588	102.233	0.0649184
142	0.005	1.31058	103.95	0.0714713
143	0.005	1.34694	105.765	0.0782059
144	0.00621	1.39175	107.702	0.0868487
145	0.0144	1.4325	109.754	0.107477
146	0.02	1.47579	111.932	0.136993
147	0.02	1.53007	114.273	0.167594
148	0.0275	1.58047	116.771	0.211057
149	0.032	1.64485	119.476	0.263692
150	0.0511	1.70604	122.387	0.350871
151	0.0641	1.77438	125.535	0.464608
152	0.0733	1.86629	129.018	0.601408
153	0.0864	1.95996	132.86	0.770748
154	0.0918	2.07485	137.165	0.961219
155	0.17	2.25713	142.259	1.34493
156	0.469	2.51213	148.57	2.52312

Data Set Standard Deviation = 0.0414324
Numerator = 6.36614
Denominator = 39.5315

W Statistic = 0.16104 = 6.36614 / 39.5315

**5% Critical value of 0.976 exceeds 0.16104
Evidence of non-normality at 95% level of significance**

**1% Critical value of 0.967 exceeds 0.16104
Evidence of non-normality at 99% level of significance**

Levene's Test for Equal of Variance

Parameter: Selenium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 0.0062448

Overall Std Dev = 0.0308244

Overall Total = 0.974189

SS Groups = 0.0662259

SS Total = 0.147273

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	0.0662259	12	0.00551882	9.73749
Error (within groups)	0.0810467	143	0.00056676	
Totals	0.147273	155		

95% F-Statistic = 1.75

9.73749 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01	Sample	Residual
	4/7/2022	0
	5/9/2022	0
	5/31/2022	0
	6/20/2022	0
	7/18/2022	0
	8/18/2022	0
	9/13/2022	0
	10/3/2022	0
	5/3/2023	0

Group: MW93-1	Sample	Residual
	5/24/2018	0.0013125
	6/19/2018	0.0013125
	7/19/2018	0.0013125
	8/22/2018	0.0013125
	9/19/2018	0.0013125
	10/18/2018	0.0013125
	11/20/2018	0.0013125
	12/20/2018	0.0013125
	11/21/2019	0.0013125
	6/25/2020	0.0016875
	11/17/2020	0.0016875
	5/26/2021	0.0016875
	11/17/2021	0.0016875
	4/8/2022	0.0016875
	10/4/2022	0.0016875
	5/4/2023	0.0016875

Group: MW03-1	Date	Residual
	5/24/2018	0.000671867

6/19/2018	0.000671867
7/19/2018	0.000671867
8/22/2018	0.0100719
10/18/2018	0.000671867
11/20/2018	0.000671867
12/20/2018	0.000671867
3/26/2019	0.000671867
11/21/2019	0.000671867
6/25/2020	0.00232813
11/17/2020	0.00380613
5/26/2021	0.00232813
11/16/2021	0.00232813
4/8/2022	0.00232813
5/3/2023	0.00232813

Group: MW03-2

Date	Residual
5/24/2018	0.0013125
6/19/2018	0.0013125
7/19/2018	0.0013125
8/22/2018	0.0013125
9/19/2018	0.0013125
10/18/2018	0.0013125
11/20/2018	0.0013125
12/20/2018	0.0013125
11/21/2019	0.0013125
6/25/2020	0.0016875
11/17/2020	0.0016875
5/26/2021	0.0016875
11/17/2021	0.0016875
4/8/2022	0.0016875
10/3/2022	0.0016875
5/3/2023	0.0016875

Group: MW93-2

Date	Residual
5/24/2018	0.000424882
6/19/2018	0.000424882
7/19/2018	0.000424882
8/22/2018	0.000424882
9/19/2018	0.000424882
10/18/2018	0.000424882
11/20/2018	0.000424882
12/20/2018	0.000424882
11/21/2019	0.000785118
6/25/2020	0.00413488
11/16/2020	0.00459088
5/26/2021	0.00477588
11/17/2021	0.00440488
4/8/2022	0.00430488
10/4/2022	0.0145751
10/4/2022	0.0145751
5/4/2023	0.00432488

Group: MW93-3

Date	Residual
5/24/2018	0.0013125
6/19/2018	0.0013125
7/19/2018	0.0013125
8/22/2018	0.0013125

9/19/2018	0.0013125
10/18/2018	0.0013125
11/20/2018	0.0013125
12/20/2018	0.0013125
11/21/2019	0.0013125
6/25/2020	0.0016875
11/16/2020	0.0016875
5/26/2021	0.0016875
11/17/2021	0.0016875
4/8/2022	0.0016875
10/4/2022	0.0016875
5/3/2023	0.0016875

Group: MW22-02

Date	Residual
4/7/2022	0.0516444
5/9/2022	0.350644
5/31/2022	0.0319556
6/20/2022	0.0450556
7/19/2022	0.0908556
8/18/2022	0.0863556
9/13/2022	0.0542556
10/3/2022	0.0265556
5/4/2023	0.0672556

Group: MW22-03

Date	Residual
4/7/2022	0
5/9/2022	0
5/31/2022	0
6/20/2022	0
7/19/2022	0
8/18/2022	0
9/13/2022	0
10/4/2022	0
5/4/2023	0

Group: MW22-04

Date	Residual
4/7/2022	0.0002716
5/9/2022	0.0009594
5/31/2022	0.0002716
6/20/2022	0.0012134
6/20/2022	0.0002716
7/18/2022	0.0002716
8/18/2022	0.0002716
9/13/2022	0.0002716
10/4/2022	0.0002716
5/4/2023	0.0002716

Group: MW22-05

Date	Residual
4/7/2022	4.33681e-019
5/9/2022	4.33681e-019
5/31/2022	4.33681e-019
6/20/2022	4.33681e-019
7/18/2022	4.33681e-019
8/18/2022	4.33681e-019
9/13/2022	4.33681e-019
10/3/2022	4.33681e-019
5/3/2023	4.33681e-019

5/3/2023 4.33681e-019

Group: MW22-06

Date	Residual
4/8/2022	2e-005
5/9/2022	2e-005
5/31/2022	2e-005
6/20/2022	2e-005
7/18/2022	2e-005
8/18/2022	2e-005
8/18/2022	2e-005
9/13/2022	2e-005
10/3/2022	2e-005
5/3/2023	0.00018

Group: MW22-07

Date	Residual
4/8/2022	0.000305556
5/9/2022	0.000854444
5/31/2022	0.000304444
6/20/2022	0.000585556
7/19/2022	0.000185556
8/18/2022	0.000185556
9/13/2022	0.000185556
10/4/2022	0.000185556
5/4/2023	0.000474444

Group: MW22-08

Date	Residual
4/8/2022	4.33681e-019
5/9/2022	4.33681e-019
5/31/2022	4.33681e-019
5/31/2022	4.33681e-019
6/20/2022	4.33681e-019
7/18/2022	4.33681e-019
8/18/2022	4.33681e-019
9/13/2022	4.33681e-019
10/4/2022	4.33681e-019
5/3/2023	4.33681e-019

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 68

Maximum Background Value = 130

Confidence Level = 89.5%

False Positive Rate = 10.5%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	12.8	FALSE
MW03-2	5/3/2023	1	153	TRUE
MW22-02	5/4/2023	1	1770	TRUE
MW22-03	5/4/2023	1	825	TRUE
MW22-04	5/4/2023	1	98.6	FALSE
MW22-05	5/3/2023	2	456	TRUE
MW22-06	5/3/2023	1	64.8	FALSE
MW22-07	5/4/2023	1	86.5	FALSE
MW22-08	5/3/2023	1	308	TRUE
MW93-2	5/4/2023	1	2680	TRUE
MW93-3	5/3/2023	1	326	TRUE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW03-2

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 42

Maximum Baseline Concentration = 169

Confidence Level = 97.7%

False Positive Rate = 2.3%

Baseline Measurements	Date	Value
	6/24/2004	47.4
	9/15/2004	8.7
	12/15/2004	51.3
	3/16/2005	47
	6/15/2005	42.8
	9/21/2005	52.6
	12/21/2005	46.5
	3/15/2006	50.4
	6/21/2006	44.9
	12/20/2006	50.5
	6/12/2007	47
	12/17/2007	50.2
	6/11/2008	33.8
	12/3/2008	54.4
	6/17/2009	48.2
	12/9/2009	47.3
	6/17/2010	52.9
	12/22/2010	51.7
	6/29/2011	51
	12/7/2011	60.1
	6/6/2012	52
	12/12/2012	61.3
	6/19/2013	57.3
	12/11/2013	54
	6/11/2014	9.78
	12/3/2014	68
	6/17/2015	66.3
	12/1/2015	63.8
	6/22/2016	76.8
	12/20/2016	80.2
	6/6/2017	96.8
	11/7/2017	120
	2/27/2018	104
	9/27/2018	128
	5/7/2019	138
	11/21/2019	166
	6/25/2020	165
	11/17/2020	162
	5/26/2021	166
	11/17/2021	169
	4/8/2022	161
	10/3/2022	168

Date	Count	Mean	Significant
5/3/2023	1	153	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 60

Maximum Baseline Concentration = 3140

Confidence Level = 98.4%

False Positive Rate = 1.6%

Baseline Measurements	Date	Value
	12/15/1994	2170
	12/14/1995	2220
	12/10/1996	2100
	12/4/1997	2440
	12/8/1998	2565
	12/14/1999	2980
	12/12/2000	2800
	3/19/2002	2500
	6/26/2002	2260
	9/18/2002	2140
	12/11/2002	2320
	3/13/2003	2600
	6/25/2003	1990
	9/26/2003	1820
	12/10/2003	1920
	3/9/2004	2050
	6/24/2004	2180
	9/15/2004	1800
	12/15/2004	2480
	3/16/2005	2490
	6/15/2005	2030
	9/21/2005	2520
	12/21/2005	2300
	3/15/2006	2720
	6/21/2006	2450
	12/20/2006	2170
	2/21/2007	2900
	6/12/2007	1980
	12/17/2007	2244
	6/11/2008	2649
	12/3/2008	2120
	6/17/2009	2230
	12/9/2009	2140
	6/17/2010	2100
	12/22/2010	2460
	6/29/2011	2190
	12/7/2011	2500
	6/6/2012	2060
	12/12/2012	2730
	6/19/2013	2230
	12/11/2013	2290
	6/11/2014	1940

12/3/2014	2730
6/17/2015	270
5/25/2016	1890
6/22/2016	2700
12/20/2016	2400
6/6/2017	2310
11/7/2017	2750
2/27/2018	2220
9/27/2018	2660
5/7/2019	2470
11/21/2019	2500
6/25/2020	2660
11/16/2020	2800
5/26/2021	2680
11/17/2021	2560
4/8/2022	2580
10/4/2022	2860
10/4/2022	3140

Date	Count	Mean	Significant
5/4/2023	1	2680	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-3

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 60

Maximum Baseline Concentration = 449

Confidence Level = 98.4%

False Positive Rate = 1.6%

Baseline Measurements	Date	Value
	12/15/1994	330
	12/14/1995	219
	12/10/1996	248
	12/4/1997	201
	12/8/1998	199
	12/14/1999	208
	12/12/2000	230
	12/18/2001	172
	3/19/2002	222
	6/26/2002	189
	9/18/2002	163
	12/11/2002	216
	3/13/2003	230
	6/25/2003	190
	9/26/2003	229
	12/10/2003	231
	3/9/2004	30.8
	6/24/2004	150
	9/15/2004	200
	12/15/2004	186
	3/16/2005	196
	6/15/2005	170
	9/21/2005	239
	12/21/2005	180
	3/15/2006	180
	6/21/2006	227
	12/20/2006	211
	6/12/2007	159
	12/17/2007	194
	6/11/2008	195
	12/3/2008	190
	6/17/2009	173
	12/9/2009	202
	6/17/2010	202
	12/22/2010	216
	6/29/2011	158
	12/7/2011	218
	6/6/2012	201
	12/12/2012	168
	6/19/2013	235
	12/11/2013	234
	6/11/2014	258

12/3/2014	220
6/17/2015	280
12/1/2015	339
6/22/2016	449
10/11/2016	368
12/20/2016	337
6/6/2017	301
11/7/2017	368
2/27/2018	272
9/27/2018	372
5/7/2019	412
11/21/2019	403
6/25/2020	376
11/16/2020	374
5/26/2021	355
11/17/2021	368
4/8/2022	354
10/4/2022	381

Date	Count	Mean	Significant
5/3/2023	1	326	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 1840

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	1070
	5/9/2022	1600
	5/31/2022	1710
	6/20/2022	1840
	7/19/2022	1310
	8/18/2022	1540
	9/13/2022	1640
	10/3/2022	1780

Date	Count	Mean	Significant
5/4/2023	1	1770	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 1240

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	303
	5/9/2022	495
	5/31/2022	856
	6/20/2022	1240
	7/19/2022	1090
	8/18/2022	455
	9/13/2022	473
	10/4/2022	189

Date	Count	Mean	Significant
5/4/2023	1	825	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-08

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 9

Maximum Baseline Concentration = 328

Confidence Level = 90%

False Positive Rate = 10%

Baseline Measurements	Date	Value
	4/8/2022	309
	5/9/2022	316
	5/31/2022	304
	5/31/2022	294
	6/20/2022	323
	7/18/2022	291
	8/18/2022	296
	9/13/2022	316
	10/4/2022	328

Date	Count	Mean	Significant
5/3/2023	1	308	FALSE

Shapiro-Francia Test of Normality

Parameter: Sodium

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 337

i	x(i)	m(i)	sum(m²)	sum(mx)
1	5.71	-2.87815	8.28375	-16.4342
2	5.99	-2.57583	14.9187	-31.8635
3	6.56	-2.40892	20.7216	-47.666
4	6.77	-2.29036	25.9673	-63.1718
5	7.01	-2.19728	30.7954	-78.5747
6	7.04	-2.12007	35.2901	-93.5
7	7.11	-2.05375	39.508	-108.102
8	7.3	-1.99539	43.4896	-122.669
9	7.34	-1.94314	47.2654	-136.931
10	7.75	-1.8957	50.859	-151.623
11	7.94	-1.85218	54.2896	-166.329
12	7.94	-1.81191	57.5726	-180.716
13	7.96	-1.77438	60.721	-194.84
14	8	-1.7392	63.7458	-208.753
15	8.04	-1.70604	66.6564	-222.47
16	8.59	-1.67466	69.4609	-236.855
17	8.7	-1.64485	72.1665	-251.166
18	8.87	-1.61644	74.7793	-265.503
19	9.31	-1.58927	77.3051	-280.299
20	9.32	-1.56322	79.7488	-294.869
21	9.7	-1.5382	82.1148	-309.789
22	9.78	-1.5141	84.4073	-324.597
23	9.78	-1.49085	86.63	-339.178
24	9.8	-1.46838	88.7861	-353.568
25	9.88	-1.4538	90.8997	-367.931
26	10.2	-1.4325	92.9517	-382.543
27	10.3	-1.41183	94.945	-397.085
28	10.5	-1.39175	96.882	-411.698
29	12	-1.3722	98.7649	-428.165
30	12.4	-1.35317	100.596	-444.944
31	12.8	-1.33462	102.377	-462.027
32	13.1	-1.31652	104.11	-479.274
33	14.1	-1.29884	105.797	-497.587
34	16.8	-1.28155	107.44	-519.117
35	17.6	-1.26464	109.039	-541.375
36	21	-1.24809	110.597	-567.585
37	23.5	-1.23187	112.114	-596.533
38	24.1	-1.21596	113.593	-625.838
39	24.6	-1.20036	115.034	-655.367
40	24.8	-1.18504	116.438	-684.756
41	25.3	-1.17	117.807	-714.357
42	25.7	-1.15522	119.142	-744.046
43	26.9	-1.14069	120.443	-774.731
44	27.1	-1.12639	121.711	-805.256
45	27.9	-1.11232	122.949	-836.29
46	29.1	-1.09847	124.155	-868.255
47	30.8	-1.08482	125.332	-901.668

48	31.7	-1.07138	126.48	-935.63
49	33.8	-1.06252	127.609	-971.544
50	42	-1.04939	128.71	-1015.62
51	42.8	-1.03643	129.784	-1059.98
52	44.9	-1.02365	130.832	-1105.94
53	45.2	-1.01104	131.854	-1151.64
54	46.5	-0.998575	132.852	-1198.07
55	47	-0.986272	133.824	-1244.43
56	47	-0.974114	134.773	-1290.21
57	47	-0.9621	135.699	-1335.43
58	47.3	-0.950222	136.602	-1380.37
59	47.4	-0.938476	137.483	-1424.86
60	48.2	-0.926859	138.342	-1469.53
61	50.2	-0.915365	139.179	-1515.48
62	50.4	-0.903992	139.997	-1561.04
63	50.5	-0.892733	140.794	-1606.13
64	51	-0.881587	141.571	-1651.09
65	51.2	-0.87055	142.329	-1695.66
66	51.3	-0.859618	143.068	-1739.76
67	51.6	-0.848786	143.788	-1783.56
68	51.7	-0.838054	144.49	-1826.88
69	51.9	-0.827417	145.175	-1869.83
70	51.9	-0.816874	145.842	-1912.22
71	52	-0.806422	146.493	-1954.16
72	52.6	-0.796056	147.126	-1996.03
73	52.9	-0.789191	147.749	-2037.78
74	54	-0.778966	148.356	-2079.84
75	54.4	-0.768821	148.947	-2121.67
76	54.7	-0.758753	149.523	-2163.17
77	54.8	-0.748762	150.083	-2204.2
78	55	-0.738846	150.629	-2244.84
79	55.4	-0.729003	151.161	-2285.22
80	55.6	-0.719228	151.678	-2325.21
81	55.9	-0.709522	152.181	-2364.88
82	56.5	-0.699883	152.671	-2404.42
83	56.5	-0.690309	153.148	-2443.42
84	57.3	-0.680797	153.611	-2482.43
85	57.5	-0.671346	154.062	-2521.03
86	57.8	-0.661955	154.5	-2559.3
87	58.4	-0.652622	154.926	-2597.41
88	58.4	-0.643345	155.34	-2634.98
89	58.6	-0.634124	155.742	-2672.14
90	58.6	-0.624956	156.133	-2708.76
91	58.8	-0.615839	156.512	-2744.97
92	58.8	-0.606775	156.88	-2780.65
93	58.9	-0.597761	157.237	-2815.86
94	59.2	-0.588793	157.584	-2850.72
95	59.6	-0.579873	157.92	-2885.28
96	60.1	-0.570999	158.246	-2919.59
97	61.2	-0.565108	158.566	-2954.18
98	61.3	-0.556308	158.875	-2988.28
99	61.6	-0.547551	159.175	-3022.01
100	62	-0.538836	159.465	-3055.42
101	63.8	-0.530162	159.746	-3089.24
102	64.4	-0.521527	160.018	-3122.83
103	64.8	-0.51293	160.282	-3156.07
104	65.4	-0.504372	160.536	-3189.05

105	66.3	-0.49585	160.782	-3221.93
106	66.9	-0.487364	161.019	-3254.53
107	67.4	-0.478914	161.249	-3286.81
108	68	-0.470498	161.47	-3318.8
109	68.2	-0.462114	161.684	-3350.32
110	69	-0.453763	161.889	-3381.63
111	69.1	-0.445443	162.088	-3412.41
112	69.4	-0.437153	162.279	-3442.75
113	69.5	-0.428895	162.463	-3472.56
114	69.7	-0.420664	162.64	-3501.88
115	70	-0.412463	162.81	-3530.75
116	70.5	-0.40429	162.973	-3559.25
117	71	-0.396142	163.13	-3587.38
118	72.9	-0.388022	163.281	-3615.66
119	74.9	-0.379927	163.425	-3644.12
120	75.2	-0.371856	163.564	-3672.08
121	76.8	-0.36649	163.698	-3700.23
122	76.9	-0.358459	163.826	-3727.8
123	77.4	-0.350451	163.949	-3754.92
124	78	-0.342466	164.067	-3781.63
125	78.3	-0.334503	164.178	-3807.82
126	80.2	-0.326561	164.285	-3834.01
127	81.6	-0.318639	164.387	-3860.02
128	81.8	-0.310738	164.483	-3885.43
129	81.9	-0.302855	164.575	-3910.24
130	82	-0.294992	164.662	-3934.43
131	83	-0.287147	164.744	-3958.26
132	84.6	-0.279319	164.822	-3981.89
133	84.8	-0.271509	164.896	-4004.92
134	85.1	-0.263715	164.966	-4027.36
135	86.3	-0.255936	165.031	-4049.44
136	86.5	-0.248174	165.093	-4070.91
137	88.7	-0.240426	165.151	-4092.24
138	90.4	-0.232693	165.205	-4113.27
139	90.4	-0.224974	165.255	-4133.61
140	92.3	-0.217267	165.302	-4153.66
141	92.8	-0.209575	165.346	-4173.11
142	94	-0.201894	165.387	-4192.09
143	94.7	-0.194225	165.425	-4210.48
144	95	-0.186567	165.46	-4228.21
145	95.4	-0.181468	165.493	-4245.52
146	96.8	-0.173829	165.523	-4262.35
147	98.1	-0.166199	165.55	-4278.65
148	98.6	-0.158579	165.576	-4294.29
149	99.1	-0.150969	165.598	-4309.25
150	99.5	-0.143367	165.619	-4323.51
151	99.7	-0.135774	165.637	-4337.05
152	100	-0.128189	165.654	-4349.87
153	100	-0.12061	165.668	-4361.93
154	102	-0.113039	165.681	-4373.46
155	104	-0.105474	165.692	-4384.43
156	104	-0.0979139	165.702	-4394.61
157	112	-0.0903606	165.71	-4404.73
158	112	-0.0828129	165.717	-4414.01
159	113	-0.0752698	165.723	-4422.51
160	120	-0.0677301	165.727	-4430.64
161	120	-0.0601949	165.731	-4437.86

162	121	-0.0526632	165.734	-4444.24
163	121	-0.0451348	165.736	-4449.7
164	124	-0.0376076	165.737	-4454.36
165	128	-0.0300838	165.738	-4458.21
166	130	-0.0225612	165.738	-4461.14
167	136	-0.0150408	165.739	-4463.19
168	136	-0.00751925	165.739	-4464.21
169	138	0	165.739	-4464.21
170	150	0.00751925	165.739	-4463.08
171	153	0.0150408	165.739	-4460.78
172	158	0.0225612	165.739	-4457.22
173	159	0.0300838	165.74	-4452.43
174	161	0.0376076	165.742	-4446.38
175	162	0.0451348	165.744	-4439.07
176	163	0.0526632	165.747	-4430.48
177	165	0.0601949	165.75	-4420.55
178	166	0.0677301	165.755	-4409.31
179	166	0.0752698	165.76	-4396.81
180	168	0.0828129	165.767	-4382.9
181	168	0.0903606	165.775	-4367.72
182	169	0.0979139	165.785	-4351.17
183	170	0.105474	165.796	-4333.24
184	172	0.113039	165.809	-4313.8
185	173	0.12061	165.824	-4292.93
186	180	0.128189	165.84	-4269.86
187	180	0.135774	165.858	-4245.42
188	186	0.143367	165.879	-4218.76
189	189	0.150969	165.902	-4190.22
190	189	0.158579	165.927	-4160.25
191	190	0.166199	165.955	-4128.67
192	190	0.173829	165.985	-4095.64
193	194	0.181468	166.018	-4060.44
194	195	0.186567	166.052	-4024.06
195	196	0.194225	166.09	-3985.99
196	199	0.201894	166.131	-3945.81
197	200	0.209575	166.175	-3903.9
198	201	0.217267	166.222	-3860.23
199	201	0.224974	166.273	-3815.01
200	202	0.232693	166.327	-3768.01
201	202	0.240426	166.385	-3719.44
202	208	0.248174	166.446	-3667.82
203	211	0.255936	166.512	-3613.82
204	216	0.263715	166.581	-3556.85
205	216	0.271509	166.655	-3498.21
206	218	0.279319	166.733	-3437.32
207	219	0.287147	166.815	-3374.43
208	220	0.294992	166.902	-3309.53
209	222	0.302855	166.994	-3242.3
210	227	0.310738	167.091	-3171.76
211	229	0.318639	167.192	-3098.79
212	230	0.326561	167.299	-3023.68
213	230	0.334503	167.411	-2946.75
214	231	0.342466	167.528	-2867.64
215	234	0.350451	167.651	-2785.63
216	235	0.358459	167.779	-2701.4
217	239	0.36649	167.914	-2613.8
218	239	0.371856	168.052	-2524.93

219	248	0.379927	168.196	-2430.71
220	258	0.388022	168.347	-2330.6
221	270	0.396142	168.504	-2223.64
222	272	0.40429	168.667	-2113.67
223	280	0.412463	168.837	-1998.18
224	291	0.420664	169.014	-1875.77
225	294	0.428895	169.198	-1749.68
226	296	0.437153	169.389	-1620.28
227	301	0.445443	169.588	-1486.2
228	303	0.453763	169.794	-1348.71
229	304	0.462114	170.007	-1208.23
230	308	0.470498	170.229	-1063.31
231	309	0.478914	170.458	-915.33
232	316	0.487364	170.696	-761.323
233	316	0.49585	170.941	-604.635
234	323	0.504372	171.196	-441.723
235	326	0.51293	171.459	-274.507
236	328	0.521527	171.731	-103.446
237	330	0.530162	172.012	71.5068
238	337	0.538836	172.302	253.094
239	339	0.547551	172.602	438.714
240	354	0.556308	172.912	635.647
241	355	0.565108	173.231	836.261
242	368	0.570999	173.557	1046.39
243	368	0.579873	173.893	1259.78
244	368	0.588793	174.24	1476.46
245	372	0.597761	174.597	1698.82
246	374	0.606775	174.965	1925.76
247	376	0.615839	175.345	2157.31
248	380	0.624956	175.735	2394.8
249	381	0.634124	176.137	2636.4
250	403	0.643345	176.551	2895.67
251	403	0.652622	176.977	3158.67
252	412	0.661955	177.415	3431.4
253	413	0.671346	177.866	3708.66
254	434	0.680797	178.33	4004.13
255	443	0.690309	178.806	4309.94
256	449	0.699883	179.296	4624.18
257	455	0.709522	179.799	4947.02
258	466	0.719228	180.317	5282.18
259	473	0.729003	180.848	5627
260	478	0.738846	181.394	5980.16
261	495	0.748762	181.955	6350.8
262	529	0.758753	182.53	6752.18
263	539	0.768821	183.121	7166.58
264	605	0.778966	183.728	7637.85
265	825	0.789191	184.351	8288.93
266	856	0.796056	184.985	8970.36
267	1070	0.806422	185.635	9833.23
268	1090	0.816874	186.302	10723.6
269	1240	0.827417	186.987	11749.6
270	1310	0.838054	187.689	12847.5
271	1540	0.848786	188.41	14154.6
272	1600	0.859618	189.149	15530
273	1640	0.87055	189.906	16957.7
274	1710	0.881587	190.684	18465.2
275	1770	0.892733	191.481	20045.3

276	1780	0.903992	192.298	21654.4
277	1800	0.915365	193.136	23302.1
278	1820	0.926859	193.995	24989
279	1840	0.938476	194.876	26715.8
280	1890	0.950222	195.778	28511.7
281	1920	0.9621	196.704	30358.9
282	1940	0.974114	197.653	32248.7
283	1980	0.986272	198.626	34201.5
284	1990	0.998575	199.623	36188.7
285	2030	1.01104	200.645	38241.1
286	2050	1.02365	201.693	40339.6
287	2060	1.03643	202.767	42474.6
288	2100	1.04939	203.868	44678.4
289	2100	1.06252	204.997	46909.6
290	2120	1.07138	206.145	49181
291	2140	1.08482	207.322	51502.5
292	2140	1.09847	208.529	53853.2
293	2170	1.11232	209.766	56266.9
294	2170	1.12639	211.035	58711.2
295	2180	1.14069	212.336	61197.9
296	2190	1.15522	213.67	63727.9
297	2220	1.17	215.039	66325.3
298	2220	1.18504	216.444	68956.1
299	2230	1.20036	217.884	71632.9
300	2230	1.21596	219.363	74344.4
301	2244	1.23187	220.881	77108.8
302	2260	1.24809	222.438	79929.4
303	2290	1.26464	224.038	82825.5
304	2300	1.28155	225.68	85773
305	2310	1.29884	227.367	88773.3
306	2320	1.31652	229.1	91827.7
307	2400	1.33462	230.881	95030.8
308	2440	1.35317	232.712	98332.5
309	2450	1.3722	234.595	101694
310	2460	1.39175	236.532	105118
311	2470	1.41183	238.526	108605
312	2480	1.4325	240.578	112158
313	2490	1.4538	242.691	115778
314	2500	1.46838	244.847	119449
315	2500	1.49085	247.07	123176
316	2500	1.5141	249.363	126961
317	2520	1.5382	251.729	130838
318	2560	1.56322	254.172	134839
319	2565	1.58927	256.698	138916
320	2580	1.61644	259.311	143086
321	2600	1.64485	262.016	147363
322	2649	1.67466	264.821	151799
323	2660	1.70604	267.731	156337
324	2660	1.7392	270.756	160963
325	2680	1.77438	273.905	165719
326	2680	1.81191	277.188	170575
327	2700	1.85218	280.618	175576
328	2720	1.8957	284.212	180732
329	2730	1.94314	287.988	186037
330	2730	1.99539	291.969	191484
331	2750	2.05375	296.187	197132
332	2800	2.12007	300.682	203068

333	2800	2.19728	305.51	209220
334	2860	2.29036	310.756	215771
335	2900	2.40892	316.559	222757
336	2980	2.57583	323.194	230433
337	3140	2.87815	331.477	239470

Data Set Standard Deviation = 893.936

Numerator = 5.73459e+010

Denominator = 8.90032e+010

W Statistic = 0.644313 = 5.73459e+010 / 8.90032e+010

5% Critical value of 0.976 exceeds 0.644313

Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.644313

Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 91.0794

Overall Std Dev = 167.618

Overall Total = 30693.8

SS Groups = 4.04102e+006

SS Total = 9.44013e+006

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	4.04102e+006	12	336751	20.2084
Error (within groups)	5.39912e+006	324	16663.9	
Totals	9.44013e+006	336		

95% F-Statistic = 1.75

20.2084 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01

Sample	Residual
4/7/2022	0.888889
5/9/2022	5.48889
5/31/2022	0.911111
6/20/2022	1.61111
7/18/2022	2.11111
8/18/2022	1.41111
9/13/2022	0.511111
10/3/2022	2.88889
5/3/2023	2.71111

Group: MW93-1

Sample	Residual
12/15/1994	24.0661
12/14/1995	26.8661
12/10/1996	27.1661
12/4/1997	27.5661
12/8/1998	31.7661
12/14/1999	14.3661
12/12/2000	21.2339
3/19/2002	33.2339
6/26/2002	16.2339
9/18/2002	0.766102
12/11/2002	4.2339
3/13/2003	15.2339
6/25/2003	34.2339
9/26/2003	5.8339
12/10/2003	19.3339
3/9/2004	16.6339
6/24/2004	15.9339
9/15/2004	7.7661
12/15/2004	13.5339

3/16/2005	7.5339
6/15/2005	1.3661
9/21/2005	14.0339
12/21/2005	3.1339
3/15/2006	20.9339
6/21/2006	3.2339
12/20/2006	6.3339
6/12/2007	3.8661
12/17/2007	3.0339
6/11/2008	22.2661
12/3/2008	3.5661
6/17/2009	11.3661
12/9/2009	1.8661
6/17/2010	23.7661
12/22/2010	8.2661
6/29/2011	23.3661
12/7/2011	9.6661
6/6/2012	23.1661
12/12/2012	19.8661
6/19/2013	8.7661
12/11/2013	5.8661
6/11/2014	22.2661
12/3/2014	9.3661
6/17/2015	9.0661
12/1/2015	21.2661
6/22/2016	11.8661
12/20/2016	23.9661
6/6/2017	20.3661
11/7/2017	33.5661
2/27/2018	19.1661
9/27/2018	10.5661
5/7/2019	45.2339
11/21/2019	20.3339
6/25/2020	51.2339
11/17/2020	41.2339
5/26/2021	33.2339
11/17/2021	11.6339
4/8/2022	6.0339
10/4/2022	20.7339
5/4/2023	25.2339

Group: MW03-1

Date	Residual
6/24/2004	2.21378
9/15/2004	29.5862
12/15/2004	4.37378
3/16/2005	6.42378
6/15/2005	5.11378
9/21/2005	1.68622
12/20/2006	4.41378
6/12/2007	4.45378
12/17/2007	2.53378
6/11/2008	6.70378
12/3/2008	5.40378
6/17/2009	5.07378
12/9/2009	5.64378
6/17/2010	3.10378
12/22/2010	5.30378

6/29/2011	5.37378
12/7/2011	3.54378
6/6/2012	4.47378
6/19/2013	2.11378
12/11/2013	2.63378
6/11/2014	43.4862
12/3/2014	2.61378
6/17/2015	2.71378
12/1/2015	0.413784
6/22/2016	3.82378
12/20/2016	4.47378
6/6/2017	5.85378
11/7/2017	5.18622
2/27/2018	4.38622
5/7/2019	0.686216
11/21/2019	1.91378
6/25/2020	4.66378
11/17/2020	14.4862
5/26/2021	0.0137838
11/16/2021	8.58622
4/8/2022	3.09378
5/3/2023	0.386216

Group: MW03-2

Date	Residual
6/24/2004	32.2507
9/15/2004	70.9507
12/15/2004	28.3507
3/16/2005	32.6507
6/15/2005	36.8507
9/21/2005	27.0507
12/21/2005	33.1507
3/15/2006	29.2507
6/21/2006	34.7507
12/20/2006	29.1507
6/12/2007	32.6507
12/17/2007	29.4507
6/11/2008	45.8507
12/3/2008	25.2507
6/17/2009	31.4507
12/9/2009	32.3507
6/17/2010	26.7507
12/22/2010	27.9507
6/29/2011	28.6507
12/7/2011	19.5507
6/6/2012	27.6507
12/12/2012	18.3507
6/19/2013	22.3507
12/11/2013	25.6507
6/11/2014	69.8707
12/3/2014	11.6507
6/17/2015	13.3507
12/1/2015	15.8507
6/22/2016	2.8507
12/20/2016	0.549302
6/6/2017	17.1493
11/7/2017	40.3493
2/27/2018	24.3493

9/27/2018	48.3493
5/7/2019	58.3493
11/21/2019	86.3493
6/25/2020	85.3493
11/17/2020	82.3493
5/26/2021	86.3493
11/17/2021	89.3493
4/8/2022	81.3493
10/3/2022	88.3493
5/3/2023	73.3493

Group: MW22-02

Date	Residual
4/7/2022	514.444
5/9/2022	15.5556
5/31/2022	125.556
6/20/2022	255.556
7/19/2022	274.444
8/18/2022	44.4444
9/13/2022	55.5556
10/3/2022	195.556
5/4/2023	185.556

Group: MW22-03

Date	Residual
4/7/2022	355.444
5/9/2022	163.444
5/31/2022	197.556
6/20/2022	581.556
7/19/2022	431.556
8/18/2022	203.444
9/13/2022	185.444
10/4/2022	469.444
5/4/2023	166.556

Group: MW22-04

Date	Residual
4/7/2022	71.82
5/9/2022	139.28
5/31/2022	21.28
6/20/2022	36.28
6/20/2022	36.28
7/18/2022	30.72
8/18/2022	40.52
9/13/2022	41.12
10/4/2022	47.82
5/4/2023	1.12

Group: MW22-05

Date	Residual
4/7/2022	66
5/9/2022	56
5/31/2022	89
6/20/2022	26
7/18/2022	3
8/18/2022	60
9/13/2022	70
10/3/2022	136
5/3/2023	9
5/3/2023	35

Group: MW22-06

Date	Residual
4/8/2022	1.94
5/9/2022	0.86
5/31/2022	0.46
6/20/2022	4.66
7/18/2022	2.34
8/18/2022	1.94
8/18/2022	2.14
9/13/2022	2.94
10/3/2022	1.26
5/3/2023	4.06

Group: MW22-07

Date	Residual
4/8/2022	9.28889
5/9/2022	0.488889
5/31/2022	12.5889
6/20/2022	21.3889
7/19/2022	2.18889
8/18/2022	9.11111
9/13/2022	11.1111
10/4/2022	30.1111
5/4/2023	4.38889

Group: MW22-08

Date	Residual
4/8/2022	0.5
5/9/2022	7.5
5/31/2022	4.5
5/31/2022	14.5
6/20/2022	14.5
7/18/2022	17.5
8/18/2022	12.5
9/13/2022	7.5
10/4/2022	19.5
5/3/2023	0.5

Group: MW93-2

Date	Residual
12/15/1994	184.721
12/14/1995	134.721
12/10/1996	254.721
12/4/1997	85.2787
12/8/1998	210.279
12/14/1999	625.279
12/12/2000	445.279
3/19/2002	145.279
6/26/2002	94.7213
9/18/2002	214.721
12/11/2002	34.7213
3/13/2003	245.279
6/25/2003	364.721
9/26/2003	534.721
12/10/2003	434.721
3/9/2004	304.721
6/24/2004	174.721
9/15/2004	554.721
12/15/2004	125.279
3/16/2005	135.279
6/15/2005	324.721

9/21/2005	165.279
12/21/2005	54.7213
3/15/2006	365.279
6/21/2006	95.2787
12/20/2006	184.721
2/21/2007	545.279
6/12/2007	374.721
12/17/2007	110.721
6/11/2008	294.279
12/3/2008	234.721
6/17/2009	124.721
12/9/2009	214.721
6/17/2010	254.721
12/22/2010	105.279
6/29/2011	164.721
12/7/2011	145.279
6/6/2012	294.721
12/12/2012	375.279
6/19/2013	124.721
12/11/2013	64.7213
6/11/2014	414.721
12/3/2014	375.279
6/17/2015	2084.72
5/25/2016	464.721
6/22/2016	345.279
12/20/2016	45.2787
6/6/2017	44.7213
11/7/2017	395.279
2/27/2018	134.721
9/27/2018	305.279
5/7/2019	115.279
11/21/2019	145.279
6/25/2020	305.279
11/16/2020	445.279
5/26/2021	325.279
11/17/2021	205.279
4/8/2022	225.279
10/4/2022	505.279
10/4/2022	785.279
5/4/2023	325.279

Group: MW93-3

Date	Residual
12/15/1994	82.3803
12/14/1995	28.6197
12/10/1996	0.380328
12/4/1997	46.6197
12/8/1998	48.6197
12/14/1999	39.6197
12/12/2000	17.6197
12/18/2001	75.6197
3/19/2002	25.6197
6/26/2002	58.6197
9/18/2002	84.6197
12/11/2002	31.6197
3/13/2003	17.6197
6/25/2003	57.6197
9/26/2003	18.6197

12/10/2003	16.6197
3/9/2004	216.82
6/24/2004	97.6197
9/15/2004	47.6197
12/15/2004	61.6197
3/16/2005	51.6197
6/15/2005	77.6197
9/21/2005	8.61967
12/21/2005	67.6197
3/15/2006	67.6197
6/21/2006	20.6197
12/20/2006	36.6197
6/12/2007	88.6197
12/17/2007	53.6197
6/11/2008	52.6197
12/3/2008	57.6197
6/17/2009	74.6197
12/9/2009	45.6197
6/17/2010	45.6197
12/22/2010	31.6197
6/29/2011	89.6197
12/7/2011	29.6197
6/6/2012	46.6197
12/12/2012	79.6197
6/19/2013	12.6197
12/11/2013	13.6197
6/11/2014	10.3803
12/3/2014	27.6197
6/17/2015	32.3803
12/1/2015	91.3803
6/22/2016	201.38
10/11/2016	120.38
12/20/2016	89.3803
6/6/2017	53.3803
11/7/2017	120.38
2/27/2018	24.3803
9/27/2018	124.38
5/7/2019	164.38
11/21/2019	155.38
6/25/2020	128.38
11/16/2020	126.38
5/26/2021	107.38
11/17/2021	120.38
4/8/2022	106.38
10/4/2022	133.38
5/3/2023	78.3803

Concentrations (ppb)

Parameter: Sulfate

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 395

Total Non-Detect: 8

Percent Non-Detects: 2.02532%

Total Background Measurements: 88

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	9	0 (0%)	4/7/2022	353	353
			5/9/2022	355	355
			5/31/2022	385	385
			6/20/2022	357	357
			7/18/2022	326	326
			8/18/2022	320	320
			9/13/2022	324	324
			10/3/2022	309	309
			5/3/2023	341	341
MW93-1	79	0 (0%)	12/15/1994	195	195
			3/14/1995	275	275
			6/21/1995	750	750
			12/14/1995	320	320
			3/6/1996	215	215
			4/25/1996	272	272
			10/2/1996	300	300
			12/10/1996	260	260
			3/11/1997	278	278
			4/15/1997	250	250
			8/14/1997	320	320
			12/4/1997	360	360
			3/31/1998	230	230
			6/23/1998	500	500
			8/11/1998	350	350
			12/8/1998	270	270
			3/9/1999	290	290
			6/8/1999	408	408
			8/19/1999	388	388
			12/14/1999	310	310
			3/7/2000	373	373
			6/23/2000	410	410
			12/12/2000	420	420
			3/27/2001	350	350
			6/28/2001	425	425
			9/10/2001	390	390
			12/18/2001	390	390
			3/19/2002	425	425
			6/26/2002	420	420
			9/18/2002	517	517
12/11/2002	430	430			
3/13/2003	450	450			
6/25/2003	434	434			
9/26/2003	460	460			
12/10/2003	470	470			

3/9/2004	444	444
6/24/2004	500	500
9/15/2004	475	475
12/15/2004	558	558
3/16/2005	880	880
6/15/2005	22	22
9/21/2005	467	467
12/21/2005	475	475
3/15/2006	375	375
6/21/2006	420	420
12/20/2006	330	330
6/12/2007	260	260
12/17/2007	300	300
6/11/2008	375	375
12/3/2008	340	340
6/17/2009	240	240
12/9/2009	160	160
6/17/2010	290	290
12/22/2010	304	304
6/29/2011	306	306
12/7/2011	255	255
6/6/2012	275	275
12/12/2012	301	301
6/19/2013	409	409
12/11/2013	306	306
6/11/2014	316	316
12/3/2014	292	292
6/17/2015	286	286
12/1/2015	299	299
6/22/2016	250	250
12/20/2016	275	275
6/6/2017	265	265
11/7/2017	281	281
2/27/2018	299	299
9/27/2018	305	305
5/7/2019	275	275
11/21/2019	299	299
6/25/2020	346	346
11/17/2020	346	346
5/26/2021	400	400
11/17/2021	504	504
4/8/2022	452	452
10/4/2022	446	446
5/4/2023	438	438

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	37	0 (0%)	6/24/2004	42	42
			9/15/2004	76	76
			12/15/2004	62	62
			3/16/2005	22	22
			6/15/2005	23	23
			9/21/2005	17	17
			12/20/2006	55	55
			6/12/2007	88	88

12/17/2007	120	120
6/11/2008	23	23
12/3/2008	90	90
6/17/2009	21	21
12/9/2009	15	15
6/17/2010	16	16
12/22/2010	22.9	22.9
6/29/2011	21.6	21.6
12/7/2011	18.1	18.1
6/6/2012	14.3	14.3
6/19/2013	16.2	16.2
12/11/2013	29.1	29.1
6/11/2014	127	127
12/3/2014	19.7	19.7
6/17/2015	7.86	7.86
12/1/2015	12.1	12.1
6/22/2016	10.3	10.3
12/20/2016	30.9	30.9
6/6/2017	8.92	8.92
11/7/2017	14.4	14.4
2/27/2018	12.6	12.6
5/7/2019	12.2	12.2
11/21/2019	184	184
6/25/2020	6.2	6.2
11/17/2020	18.9	18.9
5/26/2021	5.27	5.27
11/16/2021	9.03	9.03
4/8/2022	2.92	2.92
5/3/2023	9.79	9.79

MW03-2 42 0 (0%)

6/24/2004	72	72
9/15/2004	32	32
12/15/2004	54	54
3/16/2005	78	78
6/15/2005	23	23
9/21/2005	80	80
12/21/2005	72	72
3/15/2006	30	30
12/20/2006	34	34
6/12/2007	68	68
12/17/2007	130	130
6/11/2008	67	67
12/3/2008	210	210
6/17/2009	84	84
12/9/2009	80	80
6/17/2010	106	106
12/22/2010	98.9	98.9
6/29/2011	101	101
12/7/2011	98.8	98.8
6/6/2012	107	107
12/12/2012	111	111
6/19/2013	113	113
12/11/2013	106	106
6/11/2014	10.3	10.3
12/3/2014	158	158
6/17/2015	179	179
12/1/2015	197	197

			6/22/2016	254	254
			12/20/2016	451	451
			6/6/2017	332	332
			11/7/2017	516	516
			2/27/2018	468	468
			9/27/2018	426	426
			5/7/2019	29.6	29.6
			11/21/2019	394	394
			6/25/2020	409	409
			11/17/2020	377	377
			5/26/2021	421	421
			11/17/2021	457	457
			4/8/2022	371	371
			10/3/2022	363	363
			5/3/2023	371	371
<hr/>					
MW22-02	9	0 (0%)	4/7/2022	2460	2460
			5/9/2022	3480	3480
			5/31/2022	4120	4120
			6/20/2022	4300	4300
			7/19/2022	3450	3450
			8/18/2022	3780	3780
			9/13/2022	3680	3680
			10/3/2022	4220	4220
			5/4/2023	4280	4280
<hr/>					
MW22-03	9	0 (0%)	4/7/2022	137	137
			5/9/2022	124	124
			5/31/2022	134	134
			6/20/2022	101	101
			7/19/2022	99.7	99.7
			8/18/2022	199	199
			9/13/2022	167	167
			10/4/2022	232	232
			5/4/2023	116	116
<hr/>					
MW22-04	10	0 (0%)	4/7/2022	86.2	86.2
			5/9/2022	308	308
			5/31/2022	275	275
			6/20/2022	263	263
			6/20/2022	260	260
			7/18/2022	211	211
			8/18/2022	194	194
			9/13/2022	162	162
			10/4/2022	139	139
			5/4/2023	246	246
<hr/>					
MW22-05	10	0 (0%)	4/7/2022	28.1	28.1
			5/9/2022	17.4	17.4
			5/31/2022	18.1	18.1
			6/20/2022	28.9	28.9
			7/18/2022	50.3	50.3
			8/18/2022	104	104
			9/13/2022	103	103
			10/3/2022	114	114
			5/3/2023	84	84
			5/3/2023	86	86

MW22-06	10	0 (0%)	4/8/2022	291	291
			5/9/2022	263	263
			5/31/2022	300	300
			6/20/2022	298	298
			7/18/2022	282	282
			8/18/2022	261	261
			8/18/2022	275	275
			9/13/2022	252	252
			10/3/2022	239	239
			5/3/2023	297	297
MW22-07	9	0 (0%)	4/8/2022	160	160
			5/9/2022	87	87
			5/31/2022	77	77
			6/20/2022	68.5	68.5
			7/19/2022	224	224
			8/18/2022	324	324
			9/13/2022	343	343
			10/4/2022	349	349
			5/4/2023	131	131
MW22-08	10	0 (0%)	4/8/2022	273	273
			5/9/2022	253	253
			5/31/2022	275	275
			5/31/2022	276	276
			6/20/2022	233	233
			7/18/2022	226	226
			8/18/2022	225	225
			9/13/2022	205	205
			10/4/2022	220	220
5/3/2023	316	316			
MW93-2	82	0 (0%)	12/15/1994	2000	2000
			3/14/1995	1550	1550
			6/21/1995	185	185
			12/14/1995	2367	2367
			3/6/1996	2150	2150
			4/25/1996	2000	2000
			10/2/1996	3267	3267
			12/10/1996	4000	4000
			3/11/1997	1700	1700
			4/15/1997	1500	1500
			8/14/1997	3650	3650
			12/4/1997	4300	4300
			3/31/1998	2500	2500
			6/23/1998	3250	3250
			8/11/1998	3050	3050
			12/8/1998	3050	3050
			3/9/1999	3600	3600
			6/8/1999	3150	3150
			8/19/1999	1897	1897
			12/14/1999	2500	2500
3/7/2000	3400	3400			
6/23/2000	3400	3400			
12/12/2000	3000	3000			
3/27/2001	2133	2133			

6/28/2001	2750	2750
9/10/2001	2650	2650
12/18/2001	2950	2950
3/19/2002	2967	2967
6/26/2002	3050	3050
9/18/2002	2900	2900
12/11/2002	2933	2933
3/13/2003	2900	2900
6/25/2003	2700	2700
9/26/2003	2767	2767
12/10/2003	2700	2700
3/9/2004	2550	2550
6/24/2004	2650	2650
9/15/2004	2700	2700
12/15/2004	2950	2950
3/16/2005	3200	3200
6/15/2005	2650	2650
9/21/2005	3200	3200
12/21/2005	3200	3200
3/15/2006	3000	3000
6/21/2006	2700	2700
12/20/2006	2500	2500
2/21/2007	1900	1900
6/12/2007	2400	2400
12/17/2007	3100	3100
6/11/2008	2350	2350
12/3/2008	3300	3300
12/15/2008	2400	2400
6/17/2009	2300	2300
12/9/2009	2200	2200
6/17/2010	2900	2900
12/22/2010	3460	3460
6/29/2011	2630	2630
12/7/2011	2520	2520
6/6/2012	2360	2360
12/12/2012	3240	3240
6/19/2013	2510	2510
12/11/2013	2460	2460
6/11/2014	2790	2790
12/3/2014	2940	2940
6/17/2015	114	114
12/1/2015	3600	3600
6/22/2016	2620	2620
12/20/2016	3800	3800
6/6/2017	3630	3630
11/7/2017	4340	4340
2/27/2018	3870	3870
9/27/2018	3680	3680
5/7/2019	3890	3890
11/21/2019	12.4	12.4
6/25/2020	523	523
11/16/2020	5040	5040
5/26/2021	5100	5100
11/17/2021	5940	5940
4/8/2022	4920	4920
10/4/2022	5470	5470
10/4/2022	5470	5470

			5/4/2023	4180	4180
MW93-3	79	8 (10.1266%)	12/15/1994	ND<10	ND<10
			3/14/1995	ND<10	ND<10
			6/21/1995	10	10
			12/14/1995	ND<10	ND<10
			3/6/1996	10	10
			4/25/1996	ND<10	ND<10
			10/2/1996	11	11
			12/10/1996	10	10
			3/11/1997	12	12
			4/15/1997	15	15
			8/14/1997	11	11
			12/4/1997	8	8
			3/31/1998	45	45
			6/23/1998	4	4
			8/11/1998	9	9
			12/8/1998	2	2
			3/9/1999	ND<10	ND<10
			6/8/1999	3	3
			8/19/1999	ND<10	ND<10
			12/14/1999	ND<10	ND<10
			3/7/2000	13	13
			6/23/2000	14	14
			12/12/2000	7	7
			3/27/2001	3	3
			6/28/2001	ND<10	ND<10
			9/10/2001	20	20
			12/18/2001	19	19
			3/19/2002	8	8
			6/26/2002	8	8
			9/18/2002	8	8
			12/11/2002	6	6
			3/13/2003	18	18
			6/25/2003	13	13
			9/26/2003	16	16
			12/10/2003	34	34
			3/9/2004	130	130
			6/24/2004	24	24
			9/15/2004	17	17
			12/15/2004	26	26
			3/16/2005	29	29
			6/15/2005	26	26
			9/21/2005	19	19
			12/21/2005	23	23
			3/15/2006	19	19
			6/21/2006	21	21
			12/20/2006	42	42
			6/12/2007	3	3
			12/17/2007	28	28
			6/11/2008	27	27
			12/3/2008	11	11
			6/17/2009	16	16
			12/9/2009	12	12
			6/17/2010	45	45
			12/22/2010	25.8	25.8
			6/29/2011	34.2	34.2

12/7/2011	37.4	37.4
6/6/2012	38.3	38.3
12/12/2012	25.8	25.8
6/19/2013	61.6	61.6
12/11/2013	26.5	26.5
6/11/2014	56.2	56.2
12/3/2014	36	36
6/17/2015	109	109
12/1/2015	81	81
6/22/2016	58.5	58.5
12/20/2016	66.6	66.6
6/6/2017	18.2	18.2
11/7/2017	80.3	80.3
2/27/2018	64.2	64.2
9/27/2018	75.8	75.8
5/7/2019	105	105
11/21/2019	4010	4010
6/25/2020	328	328
11/16/2020	258	258
5/26/2021	226	226
11/17/2021	286	286
4/8/2022	202	202
10/4/2022	217	217
5/3/2023	176	176

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Sulfate

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 2.02532%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 88

Maximum Background Value = 880

Confidence Level = 91.7%

False Positive Rate = 8.3%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	9.79	FALSE
MW03-2	5/3/2023	1	371	FALSE
MW22-02	5/4/2023	1	4280	TRUE
MW22-03	5/4/2023	1	116	FALSE
MW22-04	5/4/2023	1	246	FALSE
MW22-05	5/3/2023	2	85	FALSE
MW22-06	5/3/2023	1	297	FALSE
MW22-07	5/4/2023	1	131	FALSE
MW22-08	5/3/2023	1	316	FALSE
MW93-2	5/4/2023	1	4180	TRUE
MW93-3	5/3/2023	1	176	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Sulfate

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 81

Maximum Baseline Concentration = 5940

Confidence Level = 98.8%

False Positive Rate = 1.2%

Baseline Measurements	Date	Value
	12/15/1994	2000
	3/14/1995	1550
	6/21/1995	185
	12/14/1995	2367
	3/6/1996	2150
	4/25/1996	2000
	10/2/1996	3267
	12/10/1996	4000
	3/11/1997	1700
	4/15/1997	1500
	8/14/1997	3650
	12/4/1997	4300
	3/31/1998	2500
	6/23/1998	3250
	8/11/1998	3050
	12/8/1998	3050
	3/9/1999	3600
	6/8/1999	3150
	8/19/1999	1897
	12/14/1999	2500
	3/7/2000	3400
	6/23/2000	3400
	12/12/2000	3000
	3/27/2001	2133
	6/28/2001	2750
	9/10/2001	2650
	12/18/2001	2950
	3/19/2002	2967
	6/26/2002	3050
	9/18/2002	2900
	12/11/2002	2933
	3/13/2003	2900
	6/25/2003	2700
	9/26/2003	2767
	12/10/2003	2700
	3/9/2004	2550
	6/24/2004	2650
	9/15/2004	2700
	12/15/2004	2950
	3/16/2005	3200
	6/15/2005	2650
	9/21/2005	3200

12/21/2005	3200
3/15/2006	3000
6/21/2006	2700
12/20/2006	2500
2/21/2007	1900
6/12/2007	2400
12/17/2007	3100
6/11/2008	2350
12/3/2008	3300
12/15/2008	2400
6/17/2009	2300
12/9/2009	2200
6/17/2010	2900
12/22/2010	3460
6/29/2011	2630
12/7/2011	2520
6/6/2012	2360
12/12/2012	3240
6/19/2013	2510
12/11/2013	2460
6/11/2014	2790
12/3/2014	2940
6/17/2015	114
12/1/2015	3600
6/22/2016	2620
12/20/2016	3800
6/6/2017	3630
11/7/2017	4340
2/27/2018	3870
9/27/2018	3680
5/7/2019	3890
11/21/2019	12.4
6/25/2020	523
11/16/2020	5040
5/26/2021	5100
11/17/2021	5940
4/8/2022	4920
10/4/2022	5470
10/4/2022	5470

Date	Count	Mean	Significant
5/4/2023	1	4180	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Sulfate

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 4300

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	2460
	5/9/2022	3480
	5/31/2022	4120
	6/20/2022	4300
	7/19/2022	3450
	8/18/2022	3780
	9/13/2022	3680
	10/3/2022	4220

Date	Count	Mean	Significant
5/4/2023	1	4280	FALSE

Shapiro-Francia Test of Normality

Parameter: Sulfate

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 395

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	2	-2.87815	8.28375	-5.7563
2	2.92	-2.57583	14.9187	-13.2777
3	3	-2.45727	20.9569	-20.6496
4	3	-2.32634	26.3687	-27.6286
5	3	-2.25713	31.4634	-34.4
6	4	-2.17009	36.1727	-43.0803
7	5.27	-2.12007	40.6673	-54.2531
8	6	-2.05375	44.8852	-66.5756
9	6.2	-2.01409	48.9418	-79.063
10	7	-1.95996	52.7833	-92.7827
11	7.86	-1.92684	56.496	-107.928
12	8	-1.88079	60.0333	-122.974
13	8	-1.85218	63.4639	-137.791
14	8	-1.81191	66.7469	-152.287
15	8	-1.78661	69.9389	-166.58
16	8.92	-1.75069	73.0038	-182.196
17	9	-1.72793	75.9895	-197.747
18	9.03	-1.6954	78.8639	-213.057
19	9.79	-1.67466	81.6684	-229.451
20	10	-1.64485	84.3739	-245.9
21	10	-1.61644	86.9868	-262.064
22	10	-1.59819	89.541	-278.046
23	10	-1.57179	92.0115	-293.764
24	10	-1.55477	94.4289	-309.312
25	10	-1.53007	96.77	-324.613
26	10	-1.5141	99.0625	-339.754
27	10	-1.49085	101.285	-354.662
28	10	-1.47579	103.463	-369.42
29	10	-1.4538	105.577	-383.958
30	10	-1.43953	107.649	-398.353
31	10.3	-1.41865	109.661	-412.965
32	10.3	-1.40507	111.636	-427.438
33	11	-1.38517	113.554	-442.675
34	11	-1.3722	115.437	-457.769
35	11	-1.35317	117.268	-472.654
36	12	-1.34075	119.066	-488.743
37	12	-1.32251	120.815	-504.613
38	12.1	-1.31058	122.533	-520.471
39	12.2	-1.29303	124.205	-536.246
40	12.4	-1.27588	125.832	-552.067
41	12.6	-1.26464	127.432	-568.001
42	13	-1.24809	128.989	-584.226
43	13	-1.23724	130.52	-600.31
44	14	-1.22123	132.012	-617.408
45	14.3	-1.21073	133.478	-634.721
46	14.4	-1.19522	134.906	-651.932
47	15	-1.18504	136.31	-669.708

48	15	-1.17	137.679	-687.258
49	16	-1.16012	139.025	-705.82
50	16	-1.1455	140.337	-724.148
51	16	-1.1359	141.628	-742.322
52	16.2	-1.12168	142.886	-760.493
53	17	-1.11232	144.123	-779.403
54	17	-1.09847	145.33	-798.077
55	17.4	-1.08935	146.516	-817.032
56	18	-1.07584	147.674	-836.397
57	18.1	-1.06694	148.812	-855.708
58	18.1	-1.05375	149.923	-874.781
59	18.2	-1.04505	151.015	-893.801
60	18.9	-1.03215	152.08	-913.309
61	19	-1.01943	153.119	-932.678
62	19	-1.01104	154.141	-951.887
63	19	-0.998575	155.139	-970.86
64	19.7	-0.990356	156.119	-990.37
65	20	-0.97815	157.076	-1009.93
66	21	-0.970094	158.017	-1030.31
67	21	-0.958125	158.935	-1050.43
68	21.6	-0.950222	159.838	-1070.95
69	22	-0.938476	160.719	-1091.6
70	22	-0.930718	161.585	-1112.07
71	22.9	-0.919183	162.43	-1133.12
72	23	-0.911562	163.261	-1154.09
73	23	-0.900227	164.071	-1174.79
74	23	-0.892733	164.868	-1195.33
75	23	-0.881587	165.646	-1215.6
76	24	-0.874218	166.41	-1236.58
77	25.8	-0.863249	167.155	-1258.86
78	25.8	-0.855996	167.888	-1280.94
79	26	-0.845198	168.602	-1302.92
80	26	-0.834498	169.298	-1324.61
81	26.5	-0.827417	169.983	-1346.54
82	27	-0.816874	170.65	-1368.59
83	28	-0.809896	171.306	-1391.27
84	28.1	-0.7995	171.946	-1413.74
85	28.9	-0.792618	172.574	-1436.64
86	29	-0.782366	173.186	-1459.33
87	29.1	-0.775574	173.787	-1481.9
88	29.6	-0.765456	174.373	-1504.56
89	30	-0.758753	174.949	-1527.32
90	30.9	-0.748762	175.51	-1550.46
91	32	-0.742143	176.06	-1574.21
92	34	-0.732275	176.597	-1599.1
93	34	-0.725736	177.123	-1623.78
94	34.2	-0.715986	177.636	-1648.27
95	36	-0.709522	178.139	-1673.81
96	37.4	-0.699883	178.629	-1699.99
97	38.3	-0.693493	179.11	-1726.55
98	42	-0.68396	179.578	-1755.27
99	42	-0.67449	180.033	-1783.6
100	45	-0.668209	180.479	-1813.67
101	45	-0.658838	180.913	-1843.32
102	50.3	-0.652622	181.339	-1876.14
103	54	-0.643345	181.753	-1910.89
104	55	-0.637192	182.159	-1945.93

105	56.2	-0.628006	182.554	-1981.22
106	58.5	-0.621911	182.94	-2017.61
107	61.6	-0.612813	183.316	-2055.36
108	62	-0.606775	183.684	-2092.98
109	64.2	-0.597761	184.041	-2131.35
110	66.6	-0.591776	184.392	-2170.76
111	67	-0.582841	184.731	-2209.81
112	68	-0.576911	185.064	-2249.04
113	68.5	-0.568052	185.387	-2287.96
114	72	-0.56217	185.703	-2328.43
115	72	-0.553384	186.009	-2368.28
116	75.8	-0.547551	186.309	-2409.78
117	76	-0.538836	186.599	-2450.73
118	77	-0.533048	186.883	-2491.78
119	78	-0.524401	187.158	-2532.68
120	80	-0.515791	187.424	-2573.94
121	80	-0.510074	187.685	-2614.75
122	80.3	-0.501527	187.936	-2655.02
123	81	-0.49585	188.182	-2695.19
124	84	-0.487364	188.42	-2736.12
125	84	-0.481728	188.652	-2776.59
126	86	-0.473299	188.876	-2817.29
127	86.2	-0.467699	189.094	-2857.61
128	87	-0.459327	189.305	-2897.57
129	88	-0.453763	189.511	-2937.5
130	90	-0.445443	189.71	-2977.59
131	98.8	-0.439913	189.903	-3021.05
132	98.9	-0.431644	190.09	-3063.74
133	99.7	-0.426148	190.271	-3106.23
134	101	-0.417928	190.446	-3148.44
135	101	-0.412463	190.616	-3190.1
136	103	-0.40429	190.779	-3231.74
137	104	-0.398855	190.938	-3273.22
138	105	-0.390726	191.091	-3314.25
139	106	-0.382622	191.238	-3354.81
140	106	-0.377233	191.38	-3394.79
141	107	-0.369171	191.516	-3434.3
142	109	-0.363809	191.648	-3473.95
143	111	-0.355788	191.775	-3513.44
144	113	-0.350451	191.898	-3553.04
145	114	-0.342466	192.015	-3592.09
146	114	-0.337155	192.129	-3630.52
147	116	-0.329206	192.237	-3668.71
148	120	-0.323919	192.342	-3707.58
149	124	-0.316004	192.442	-3746.76
150	127	-0.310738	192.539	-3786.23
151	130	-0.302855	192.63	-3825.6
152	130	-0.297612	192.719	-3864.29
153	131	-0.28976	192.803	-3902.25
154	134	-0.284535	192.884	-3940.37
155	137	-0.276714	192.96	-3978.28
156	139	-0.271509	193.034	-4016.02
157	158	-0.263715	193.104	-4057.69
158	160	-0.258527	193.17	-4099.06
159	160	-0.250759	193.233	-4139.18
160	162	-0.243007	193.292	-4178.54
161	167	-0.237847	193.349	-4218.26

162	176	-0.230118	193.402	-4258.77
163	179	-0.224974	193.453	-4299.04
164	184	-0.217267	193.5	-4339.01
165	185	-0.212137	193.545	-4378.26
166	194	-0.204452	193.587	-4417.92
167	195	-0.199336	193.626	-4456.79
168	197	-0.191671	193.663	-4494.55
169	199	-0.186567	193.698	-4531.68
170	202	-0.17892	193.73	-4567.82
171	205	-0.173829	193.76	-4603.46
172	210	-0.166199	193.788	-4638.36
173	211	-0.161119	193.814	-4672.35
174	215	-0.153505	193.837	-4705.36
175	217	-0.148434	193.859	-4737.57
176	220	-0.140835	193.879	-4768.55
177	224	-0.135774	193.897	-4798.96
178	225	-0.128189	193.914	-4827.81
179	226	-0.12061	193.928	-4855.06
180	226	-0.115562	193.942	-4881.18
181	230	-0.107995	193.953	-4906.02
182	232	-0.102953	193.964	-4929.91
183	233	-0.0953969	193.973	-4952.13
184	239	-0.0903606	193.981	-4973.73
185	240	-0.0828129	193.988	-4993.6
186	246	-0.0777834	193.994	-5012.74
187	250	-0.0702426	193.999	-5030.3
188	250	-0.0652187	194.003	-5046.6
189	252	-0.0576847	194.007	-5061.14
190	253	-0.0526632	194.01	-5074.46
191	254	-0.0451348	194.012	-5085.93
192	255	-0.0401167	194.013	-5096.16
193	258	-0.0325917	194.014	-5104.57
194	260	-0.0275759	194.015	-5111.74
195	260	-0.0200544	194.015	-5116.95
196	260	-0.0150408	194.016	-5120.86
197	261	-0.00751925	194.016	-5122.82
198	263	0	194.016	-5122.82
199	263	0.00751925	194.016	-5120.85
200	265	0.0150408	194.016	-5116.86
201	270	0.0200544	194.016	-5111.45
202	272	0.0275759	194.017	-5103.95
203	273	0.0325917	194.018	-5095.05
204	275	0.0401167	194.02	-5084.02
205	275	0.0451348	194.022	-5071.6
206	275	0.0526632	194.025	-5057.12
207	275	0.0576847	194.028	-5041.26
208	275	0.0652187	194.032	-5023.32
209	275	0.0702426	194.037	-5004.01
210	275	0.0777834	194.043	-4982.62
211	276	0.0828129	194.05	-4959.76
212	278	0.0903606	194.058	-4934.64
213	281	0.0953969	194.067	-4907.83
214	282	0.102953	194.078	-4878.8
215	286	0.107995	194.09	-4847.91
216	286	0.115562	194.103	-4814.86
217	290	0.12061	194.117	-4779.89
218	290	0.128189	194.134	-4742.71

219	291	0.135774	194.152	-4703.2
220	292	0.140835	194.172	-4662.08
221	297	0.148434	194.194	-4617.99
222	298	0.153505	194.218	-4572.25
223	299	0.161119	194.244	-4524.07
224	299	0.166199	194.271	-4474.38
225	299	0.173829	194.302	-4422.4
226	300	0.17892	194.334	-4368.73
227	300	0.186567	194.368	-4312.76
228	300	0.191671	194.405	-4255.26
229	301	0.199336	194.445	-4195.26
230	304	0.204452	194.487	-4133.1
231	305	0.212137	194.532	-4068.4
232	306	0.217267	194.579	-4001.92
233	306	0.224974	194.629	-3933.08
234	308	0.230118	194.682	-3862.2
235	309	0.237847	194.739	-3788.7
236	310	0.243007	194.798	-3713.37
237	316	0.250759	194.861	-3634.13
238	316	0.258527	194.928	-3552.44
239	320	0.263715	194.997	-3468.05
240	320	0.271509	195.071	-3381.17
241	320	0.276714	195.148	-3292.62
242	324	0.284535	195.229	-3200.43
243	324	0.28976	195.313	-3106.55
244	326	0.297612	195.401	-3009.52
245	328	0.302855	195.493	-2910.19
246	330	0.310738	195.589	-2807.64
247	332	0.316004	195.689	-2702.73
248	340	0.323919	195.794	-2592.6
249	341	0.329206	195.903	-2480.34
250	343	0.337155	196.016	-2364.7
251	346	0.342466	196.134	-2246.2
252	346	0.350451	196.256	-2124.95
253	349	0.355788	196.383	-2000.78
254	350	0.363809	196.515	-1873.44
255	350	0.369171	196.652	-1744.23
256	353	0.377233	196.794	-1611.07
257	355	0.382622	196.94	-1475.24
258	357	0.390726	197.093	-1335.75
259	360	0.398855	197.252	-1192.16
260	363	0.40429	197.415	-1045.41
261	371	0.412463	197.586	-892.381
262	371	0.417928	197.76	-737.33
263	373	0.426148	197.942	-578.377
264	375	0.431644	198.128	-416.51
265	375	0.439913	198.322	-251.543
266	377	0.445443	198.52	-83.6108
267	385	0.453763	198.726	91.0879
268	388	0.459327	198.937	269.307
269	390	0.467699	199.156	451.709
270	390	0.473299	199.38	636.296
271	394	0.481728	199.612	826.096
272	400	0.487364	199.849	1021.04
273	408	0.49585	200.095	1223.35
274	409	0.501527	200.347	1428.47
275	409	0.510074	200.607	1637.09

276	410	0.515791	200.873	1848.57
277	420	0.524401	201.148	2068.82
278	420	0.533048	201.432	2292.7
279	420	0.538836	201.722	2519.01
280	421	0.547551	202.022	2749.53
281	425	0.553384	202.328	2984.71
282	425	0.56217	202.645	3223.64
283	426	0.568052	202.967	3465.63
284	430	0.576911	203.3	3713.7
285	434	0.582841	203.64	3966.65
286	438	0.591776	203.99	4225.85
287	444	0.597761	204.347	4491.26
288	446	0.606775	204.715	4761.88
289	450	0.612813	205.091	5037.64
290	451	0.621911	205.478	5318.13
291	452	0.628006	205.872	5601.98
292	457	0.637192	206.278	5893.18
293	460	0.643345	206.692	6189.12
294	467	0.652622	207.118	6493.89
295	468	0.658838	207.552	6802.23
296	470	0.668209	207.999	7116.29
297	475	0.67449	208.453	7436.67
298	475	0.68396	208.921	7761.55
299	500	0.693493	209.402	8108.3
300	500	0.699883	209.892	8458.24
301	504	0.709522	210.395	8815.84
302	516	0.715986	210.908	9185.29
303	517	0.725736	211.435	9560.49
304	523	0.732275	211.971	9943.47
305	558	0.742143	212.522	10357.6
306	750	0.748762	213.082	10919.2
307	880	0.758753	213.658	11586.9
308	1500	0.765456	214.244	12735
309	1550	0.775574	214.846	13937.2
310	1700	0.782366	215.458	15267.2
311	1897	0.792618	216.086	16770.8
312	1900	0.7995	216.725	18289.9
313	2000	0.809896	217.381	19909.6
314	2000	0.816874	218.048	21543.4
315	2133	0.827417	218.733	23308.3
316	2150	0.834498	219.429	25102.4
317	2200	0.845198	220.144	26961.9
318	2300	0.855996	220.876	28930.7
319	2350	0.863249	221.622	30959.3
320	2360	0.874218	222.386	33022.5
321	2367	0.881587	223.163	35109.2
322	2400	0.892733	223.96	37251.7
323	2400	0.900227	224.77	39412.3
324	2460	0.911562	225.601	41654.7
325	2460	0.919183	226.446	43915.9
326	2500	0.930718	227.313	46242.7
327	2500	0.938476	228.193	48588.9
328	2500	0.950222	229.096	50964.5
329	2510	0.958125	230.014	53369.3
330	2520	0.970094	230.955	55814
331	2550	0.97815	231.912	58308.3
332	2620	0.990356	232.893	60903

333	2630	0.998575	233.89	63529.3
334	2650	1.01104	234.912	66208.5
335	2650	1.01943	235.951	68910
336	2650	1.03215	237.017	71645.2
337	2700	1.04505	238.109	74466.8
338	2700	1.05375	239.219	77311.9
339	2700	1.06694	240.358	80192.7
340	2700	1.07584	241.515	83097.4
341	2750	1.08935	242.702	86093.1
342	2767	1.09847	243.908	89132.6
343	2790	1.11232	245.146	92236
344	2900	1.12168	246.404	95488.8
345	2900	1.1359	247.694	98782.9
346	2900	1.1455	249.006	102105
347	2933	1.16012	250.352	105508
348	2940	1.17	251.721	108947
349	2950	1.18504	253.125	112443
350	2950	1.19522	254.554	115969
351	2967	1.21073	256.02	119561
352	3000	1.22123	257.511	123225
353	3000	1.23724	259.042	126937
354	3050	1.24809	260.6	130743
355	3050	1.26464	262.199	134601
356	3050	1.27588	263.827	138492
357	3100	1.29303	265.499	142500
358	3150	1.31058	267.216	146629
359	3200	1.32251	268.965	150861
360	3200	1.34075	270.763	155151
361	3200	1.35317	272.594	159481
362	3240	1.3722	274.477	163927
363	3250	1.38517	276.396	168429
364	3267	1.40507	278.37	173019
365	3300	1.41865	280.383	177701
366	3400	1.43953	282.455	182595
367	3400	1.4538	284.568	187538
368	3450	1.47579	286.746	192630
369	3460	1.49085	288.969	197788
370	3480	1.5141	291.261	203057
371	3600	1.53007	293.603	208565
372	3600	1.55477	296.02	214163
373	3630	1.57179	298.49	219868
374	3650	1.59819	301.045	225702
375	3680	1.61644	303.657	231650
376	3680	1.64485	306.363	237703
377	3780	1.67466	309.167	244033
378	3800	1.6954	312.042	250476
379	3870	1.72793	315.028	257163
380	3890	1.75069	318.093	263973
381	4000	1.78661	321.284	271120
382	4010	1.81191	324.568	278385
383	4120	1.85218	327.998	286016
384	4180	1.88079	331.535	293878
385	4220	1.92684	335.248	302009
386	4280	1.95996	339.09	310398
387	4300	2.01409	343.146	319059
388	4300	2.05375	347.364	327890
389	4340	2.12007	351.859	337091

390	4920	2.17009	356.568	347768
391	5040	2.25713	361.663	359144
392	5100	2.32634	367.075	371008
393	5470	2.45727	373.113	384449
394	5470	2.57583	379.748	398539
395	5940	2.87815	388.031	415635

Data Set Standard Deviation = 1312.15

Numerator = 1.72753e+011

Denominator = 2.63226e+011

W Statistic = 0.656289 = 1.72753e+011 / 2.63226e+011

5% Critical value of 0.976 exceeds 0.656289

Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.656289

Evidence of non-normality at 99% level of significance

Levene's Test for Equal of Variance

Parameter: Sulfate

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 231.092

Overall Std Dev = 485.662

Overall Total = 91281.3

SS Groups = 2.85383e+007

SS Total = 9.29317e+007

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	2.85383e+007	12	2.37819e+006	14.1081
Error (within groups)	6.43934e+007	382	168569	
Totals	9.29317e+007	394		

95% F-Statistic = 1.75

14.1081 exceeds 1.75; assumption of equal variance should be rejected

Group: MW22-01	Sample	Residual
	4/7/2022	11.8889
	5/9/2022	13.8889
	5/31/2022	43.8889
	6/20/2022	15.8889
	7/18/2022	15.1111
	8/18/2022	21.1111
	9/13/2022	17.1111
	10/3/2022	32.1111
	5/3/2023	0.111111

Group: MW93-1	Sample	Residual
	12/15/1994	163.81
	3/14/1995	83.8101
	6/21/1995	391.19
	12/14/1995	38.8101
	3/6/1996	143.81
	4/25/1996	86.8101
	10/2/1996	58.8101
	12/10/1996	98.8101
	3/11/1997	80.8101
	4/15/1997	108.81
	8/14/1997	38.8101
	12/4/1997	1.18987
	3/31/1998	128.81
	6/23/1998	141.19
	8/11/1998	8.81013
	12/8/1998	88.8101
	3/9/1999	68.8101
	6/8/1999	49.1899
	8/19/1999	29.1899

12/14/1999	48.8101
3/7/2000	14.1899
6/23/2000	51.1899
12/12/2000	61.1899
3/27/2001	8.81013
6/28/2001	66.1899
9/10/2001	31.1899
12/18/2001	31.1899
3/19/2002	66.1899
6/26/2002	61.1899
9/18/2002	158.19
12/11/2002	71.1899
3/13/2003	91.1899
6/25/2003	75.1899
9/26/2003	101.19
12/10/2003	111.19
3/9/2004	85.1899
6/24/2004	141.19
9/15/2004	116.19
12/15/2004	199.19
3/16/2005	521.19
6/15/2005	336.81
9/21/2005	108.19
12/21/2005	116.19
3/15/2006	16.1899
6/21/2006	61.1899
12/20/2006	28.8101
6/12/2007	98.8101
12/17/2007	58.8101
6/11/2008	16.1899
12/3/2008	18.8101
6/17/2009	118.81
12/9/2009	198.81
6/17/2010	68.8101
12/22/2010	54.8101
6/29/2011	52.8101
12/7/2011	103.81
6/6/2012	83.8101
12/12/2012	57.8101
6/19/2013	50.1899
12/11/2013	52.8101
6/11/2014	42.8101
12/3/2014	66.8101
6/17/2015	72.8101
12/1/2015	59.8101
6/22/2016	108.81
12/20/2016	83.8101
6/6/2017	93.8101
11/7/2017	77.8101
2/27/2018	59.8101
9/27/2018	53.8101
5/7/2019	83.8101
11/21/2019	59.8101
6/25/2020	12.8101
11/17/2020	12.8101
5/26/2021	41.1899
11/17/2021	145.19

4/8/2022	93.1899
10/4/2022	87.1899
5/4/2023	79.1899

Group: MW03-1

Date	Residual
6/24/2004	7.28946
9/15/2004	41.2895
12/15/2004	27.2895
3/16/2005	12.7105
6/15/2005	11.7105
9/21/2005	17.7105
12/20/2006	20.2895
6/12/2007	53.2895
12/17/2007	85.2895
6/11/2008	11.7105
12/3/2008	55.2895
6/17/2009	13.7105
12/9/2009	19.7105
6/17/2010	18.7105
12/22/2010	11.8105
6/29/2011	13.1105
12/7/2011	16.6105
6/6/2012	20.4105
6/19/2013	18.5105
12/11/2013	5.61054
6/11/2014	92.2895
12/3/2014	15.0105
6/17/2015	26.8505
12/1/2015	22.6105
6/22/2016	24.4105
12/20/2016	3.81054
6/6/2017	25.7905
11/7/2017	20.3105
2/27/2018	22.1105
5/7/2019	22.5105
11/21/2019	149.289
6/25/2020	28.5105
11/17/2020	15.8105
5/26/2021	29.4405
11/16/2021	25.6805
4/8/2022	31.7905
5/3/2023	24.9205

Group: MW03-2

Date	Residual
6/24/2004	121.8
9/15/2004	161.8
12/15/2004	139.8
3/16/2005	115.8
6/15/2005	170.8
9/21/2005	113.8
12/21/2005	121.8
3/15/2006	163.8
12/20/2006	159.8
6/12/2007	125.8
12/17/2007	63.8
6/11/2008	126.8
12/3/2008	16.2

6/17/2009	109.8
12/9/2009	113.8
6/17/2010	87.8
12/22/2010	94.9
6/29/2011	92.8
12/7/2011	95
6/6/2012	86.8
12/12/2012	82.8
6/19/2013	80.8
12/11/2013	87.8
6/11/2014	183.5
12/3/2014	35.8
6/17/2015	14.8
12/1/2015	3.2
6/22/2016	60.2
12/20/2016	257.2
6/6/2017	138.2
11/7/2017	322.2
2/27/2018	274.2
9/27/2018	232.2
5/7/2019	164.2
11/21/2019	200.2
6/25/2020	215.2
11/17/2020	183.2
5/26/2021	227.2
11/17/2021	263.2
4/8/2022	177.2
10/3/2022	169.2
5/3/2023	177.2

Group: MW22-02

Date	Residual
4/7/2022	1292.22
5/9/2022	272.222
5/31/2022	367.778
6/20/2022	547.778
7/19/2022	302.222
8/18/2022	27.7778
9/13/2022	72.2222
10/3/2022	467.778
5/4/2023	527.778

Group: MW22-03

Date	Residual
4/7/2022	8.52222
5/9/2022	21.5222
5/31/2022	11.5222
6/20/2022	44.5222
7/19/2022	45.8222
8/18/2022	53.4778
9/13/2022	21.4778
10/4/2022	86.4778
5/4/2023	29.5222

Group: MW22-04

Date	Residual
4/7/2022	128.22
5/9/2022	93.58
5/31/2022	60.58
6/20/2022	48.58

6/20/2022	45.58
7/18/2022	3.42
8/18/2022	20.42
9/13/2022	52.42
10/4/2022	75.42
5/4/2023	31.58

Group: MW22-05

Date	Residual
4/7/2022	35.28
5/9/2022	45.98
5/31/2022	45.28
6/20/2022	34.48
7/18/2022	13.08
8/18/2022	40.62
9/13/2022	39.62
10/3/2022	50.62
5/3/2023	20.62
5/3/2023	22.62

Group: MW22-06

Date	Residual
4/8/2022	15.2
5/9/2022	12.8
5/31/2022	24.2
6/20/2022	22.2
7/18/2022	6.2
8/18/2022	14.8
8/18/2022	0.8
9/13/2022	23.8
10/3/2022	36.8
5/3/2023	21.2

Group: MW22-07

Date	Residual
4/8/2022	35.9444
5/9/2022	108.944
5/31/2022	118.944
6/20/2022	127.444
7/19/2022	28.0556
8/18/2022	128.056
9/13/2022	147.056
10/4/2022	153.056
5/4/2023	64.9444

Group: MW22-08

Date	Residual
4/8/2022	22.8
5/9/2022	2.8
5/31/2022	24.8
5/31/2022	25.8
6/20/2022	17.2
7/18/2022	24.2
8/18/2022	25.2
9/13/2022	45.2
10/4/2022	30.2
5/3/2023	65.8

Group: MW93-2

Date	Residual
12/15/1994	928.359
3/14/1995	1378.36

6/21/1995	2743.36
12/14/1995	561.359
3/6/1996	778.359
4/25/1996	928.359
10/2/1996	338.641
12/10/1996	1071.64
3/11/1997	1228.36
4/15/1997	1428.36
8/14/1997	721.641
12/4/1997	1371.64
3/31/1998	428.359
6/23/1998	321.641
8/11/1998	121.641
12/8/1998	121.641
3/9/1999	671.641
6/8/1999	221.641
8/19/1999	1031.36
12/14/1999	428.359
3/7/2000	471.641
6/23/2000	471.641
12/12/2000	71.6415
3/27/2001	795.359
6/28/2001	178.359
9/10/2001	278.359
12/18/2001	21.6415
3/19/2002	38.6415
6/26/2002	121.641
9/18/2002	28.3585
12/11/2002	4.64146
3/13/2003	28.3585
6/25/2003	228.359
9/26/2003	161.359
12/10/2003	228.359
3/9/2004	378.359
6/24/2004	278.359
9/15/2004	228.359
12/15/2004	21.6415
3/16/2005	271.641
6/15/2005	278.359
9/21/2005	271.641
12/21/2005	271.641
3/15/2006	71.6415
6/21/2006	228.359
12/20/2006	428.359
2/21/2007	1028.36
6/12/2007	528.359
12/17/2007	171.641
6/11/2008	578.359
12/3/2008	371.641
12/15/2008	528.359
6/17/2009	628.359
12/9/2009	728.359
6/17/2010	28.3585
12/22/2010	531.641
6/29/2011	298.359
12/7/2011	408.359
6/6/2012	568.359

12/12/2012	311.641
6/19/2013	418.359
12/11/2013	468.359
6/11/2014	138.359
12/3/2014	11.6415
6/17/2015	2814.36
12/1/2015	671.641
6/22/2016	308.359
12/20/2016	871.641
6/6/2017	701.641
11/7/2017	1411.64
2/27/2018	941.641
9/27/2018	751.641
5/7/2019	961.641
11/21/2019	2915.96
6/25/2020	2405.36
11/16/2020	2111.64
5/26/2021	2171.64
11/17/2021	3011.64
4/8/2022	1991.64
10/4/2022	2541.64
10/4/2022	2541.64
5/4/2023	1251.64

Group: MW93-3

Date	Residual
12/15/1994	86.6886
3/14/1995	86.6886
6/21/1995	86.6886
12/14/1995	86.6886
3/6/1996	86.6886
4/25/1996	86.6886
10/2/1996	85.6886
12/10/1996	86.6886
3/11/1997	84.6886
4/15/1997	81.6886
8/14/1997	85.6886
12/4/1997	88.6886
3/31/1998	51.6886
6/23/1998	92.6886
8/11/1998	87.6886
12/8/1998	94.6886
3/9/1999	86.6886
6/8/1999	93.6886
8/19/1999	86.6886
12/14/1999	86.6886
3/7/2000	83.6886
6/23/2000	82.6886
12/12/2000	89.6886
3/27/2001	93.6886
6/28/2001	86.6886
9/10/2001	76.6886
12/18/2001	77.6886
3/19/2002	88.6886
6/26/2002	88.6886
9/18/2002	88.6886
12/11/2002	90.6886
3/13/2003	78.6886

6/25/2003	83.6886
9/26/2003	80.6886
12/10/2003	62.6886
3/9/2004	33.3114
6/24/2004	72.6886
9/15/2004	79.6886
12/15/2004	70.6886
3/16/2005	67.6886
6/15/2005	70.6886
9/21/2005	77.6886
12/21/2005	73.6886
3/15/2006	77.6886
6/21/2006	75.6886
12/20/2006	54.6886
6/12/2007	93.6886
12/17/2007	68.6886
6/11/2008	69.6886
12/3/2008	85.6886
6/17/2009	80.6886
12/9/2009	84.6886
6/17/2010	51.6886
12/22/2010	70.8886
6/29/2011	62.4886
12/7/2011	59.2886
6/6/2012	58.3886
12/12/2012	70.8886
6/19/2013	35.0886
12/11/2013	70.1886
6/11/2014	40.4886
12/3/2014	60.6886
6/17/2015	12.3114
12/1/2015	15.6886
6/22/2016	38.1886
12/20/2016	30.0886
6/6/2017	78.4886
11/7/2017	16.3886
2/27/2018	32.4886
9/27/2018	20.8886
5/7/2019	8.31139
11/21/2019	3913.31
6/25/2020	231.311
11/16/2020	161.311
5/26/2021	129.311
11/17/2021	189.311
4/8/2022	105.311
10/4/2022	120.311
5/3/2023	79.3114

Levene's Test for Equal of Variance

Parameter: Total Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Overall Mean = 661.486

Overall Std Dev = 2933.33

Overall Total = 115099

SS Groups = 1.76499e+008

SS Total = 1.48856e+009

ANOVA Table

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares	F
Between Groups	1.76499e+008	12	1.47082e+007	1.8048
Error (within groups)	1.31207e+009	161	8.14948e+006	
Totals	1.48856e+009	173		

95% F-Statistic = 1.75

1.8048 exceeds 1.75; assumption of equal variance should be rejected

Group: MW93-1	Sample	Residual
	6/6/2012	76.68
	12/12/2012	64.68
	6/19/2013	2.68
	12/11/2013	16.32
	6/11/2014	26.32
	12/3/2014	37.68
	6/17/2015	62.68
	12/1/2015	84.68
	6/22/2016	104.68
	12/20/2016	106.68
	6/6/2017	134.68
	11/7/2017	66.68
	2/27/2018	114.68
	9/27/2018	105.32
	5/7/2019	7.32
	11/21/2019	21.32
	6/25/2020	55.32
	11/17/2020	21.32
	5/26/2021	43.32
	11/17/2021	55.32
	4/8/2022	185.32
	4/8/2022	185.32
	10/4/2022	55.32
	10/4/2022	55.32
	5/4/2023	23.32

Group: MW22-01	Sample	Residual
	4/7/2022	214.889
	5/9/2022	104.889
	5/31/2022	15.1111

6/20/2022	5.11111
7/18/2022	59.1111
8/18/2022	37.1111
9/13/2022	47.1111
10/3/2022	151.111
5/3/2023	5.11111

Group: MW93-2

Date	Residual
6/6/2012	1606.67
12/12/2012	1216.67
6/19/2013	1856.67
12/11/2013	1696.67
6/11/2014	1976.67
12/3/2014	1436.67
6/17/2015	8406.67
12/1/2015	1186.67
6/22/2016	5976.67
12/20/2016	356.667
6/6/2017	1786.67
11/7/2017	1316.67
2/27/2018	1576.67
9/27/2018	246.667
5/7/2019	656.667
11/21/2019	736.667
6/25/2020	276.667
11/16/2020	37263.3
5/26/2021	1616.67
11/17/2021	1116.67
4/8/2022	863.333
4/8/2022	863.333
10/4/2022	1076.67
10/4/2022	836.667
10/4/2022	836.667
10/4/2022	1076.67
5/4/2023	116.667

Group: MW93-3

Date	Residual
6/6/2012	294.8
12/12/2012	459.8
6/19/2013	267.8
12/11/2013	431.8
6/11/2014	142.8
12/3/2014	385.8
6/17/2015	217.8
12/1/2015	78.8
6/22/2016	261.2
12/20/2016	60.2
6/6/2017	348.8
11/7/2017	121.2
2/27/2018	61.2
9/27/2018	291.2
5/7/2019	381.2
11/21/2019	421.2
6/25/2020	181.2
11/16/2020	181.2
5/26/2021	111.2
11/17/2021	8.8

4/8/2022	171.2
4/8/2022	171.2
10/4/2022	101.2
10/4/2022	101.2
5/3/2023	21.2

Group: MW03-2

Date	Residual
9/27/2018	97.5
5/7/2019	487.5
11/21/2019	32.5
6/25/2020	212.5
11/17/2020	42.5
5/26/2021	62.5
11/17/2021	237.5
4/8/2022	7.5
4/8/2022	7.5
10/3/2022	332.5
10/3/2022	332.5
5/3/2023	177.5

Group: MW03-1

Date	Residual
5/7/2019	27.3333
11/21/2019	49.3333
6/25/2020	21.6667
11/17/2020	190.667
5/26/2021	41.3333
11/16/2021	30.6667
4/8/2022	48.3333
4/8/2022	48.3333
5/3/2023	28.3333

Group: MW22-02

Date	Residual
4/7/2022	1168.89
5/9/2022	948.889
5/31/2022	2018.89
6/20/2022	331.111
7/19/2022	818.889
8/18/2022	571.111
9/13/2022	2231.11
10/3/2022	621.111
5/4/2023	1201.11

Group: MW22-03

Date	Residual
4/7/2022	1313.78
5/9/2022	483.778
5/31/2022	1136.22
6/20/2022	1976.22
7/19/2022	1646.22
8/18/2022	983.778
9/13/2022	953.778
10/4/2022	1859.78
5/4/2023	836.222

Group: MW22-04

Date	Residual
4/7/2022	234
5/9/2022	344
5/31/2022	57

6/20/2022	92
6/20/2022	83
7/18/2022	56
8/18/2022	65
9/13/2022	125
10/4/2022	148
5/4/2023	52

Group: MW22-05

Date	Residual
4/7/2022	334
5/9/2022	174
5/31/2022	506
6/20/2022	506
7/18/2022	644
8/18/2022	4
9/13/2022	146
10/3/2022	16
5/3/2023	4
5/3/2023	14

Group: MW22-06

Date	Residual
4/8/2022	108.7
5/9/2022	23.7
5/31/2022	10.7
6/20/2022	17.3
7/18/2022	10.7
8/18/2022	70.3
8/18/2022	18.7
9/13/2022	109.3
10/3/2022	74.3
5/3/2023	98.7

Group: MW22-07

Date	Residual
4/8/2022	54.5556
5/9/2022	133.556
5/31/2022	165.556
6/20/2022	182.556
7/19/2022	64.4444
8/18/2022	239.444
9/13/2022	181.444
10/4/2022	165.444
5/4/2023	114.556

Group: MW22-08

Date	Residual
4/8/2022	103.4
5/9/2022	6.6
5/31/2022	52.6
5/31/2022	40.6
6/20/2022	60.6
7/18/2022	16.6
8/18/2022	13.4
9/13/2022	36.6
10/4/2022	43.4
5/3/2023	53.4

Concentrations (ppb)

Parameter: Total Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 174

Total Non-Detect: 0

Percent Non-Detects: 0%

Total Background Measurements: 34

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	25	0 (0%)	6/6/2012	868	868
			12/12/2012	880	880
			6/19/2013	942	942
			12/11/2013	961	961
			6/11/2014	971	971
			12/3/2014	907	907
			6/17/2015	882	882
			12/1/2015	860	860
			6/22/2016	840	840
			12/20/2016	838	838
			6/6/2017	810	810
			11/7/2017	878	878
			2/27/2018	830	830
			9/27/2018	1050	1050
			5/7/2019	952	952
			11/21/2019	966	966
			6/25/2020	1000	1000
			11/17/2020	966	966
			5/26/2021	988	988
			11/17/2021	1000	1000
4/8/2022	1130	1130			
4/8/2022	1130	1130			
10/4/2022	1000	1000			
10/4/2022	1000	1000			
5/4/2023	968	968			
MW22-01	9	0 (0%)	4/7/2022	1230	1230
			5/9/2022	1120	1120
			5/31/2022	1000	1000
			6/20/2022	1010	1010
			7/18/2022	956	956
			8/18/2022	978	978
			9/13/2022	968	968
			10/3/2022	864	864
			5/3/2023	1010	1010

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	27	0 (0%)	6/6/2012	7530	7530
			12/12/2012	7920	7920
			6/19/2013	7280	7280
			12/11/2013	7440	7440
			6/11/2014	7160	7160

			12/3/2014	7700	7700
			6/17/2015	730	730
			12/1/2015	7950	7950
			6/22/2016	3160	3160
			12/20/2016	8780	8780
			6/6/2017	7350	7350
			11/7/2017	7820	7820
			2/27/2018	7560	7560
			9/27/2018	8890	8890
			5/7/2019	8480	8480
			11/21/2019	8400	8400
			6/25/2020	8860	8860
			11/16/2020	46400	46400
			5/26/2021	7520	7520
			11/17/2021	8020	8020
			4/8/2022	10000	10000
			4/8/2022	10000	10000
			10/4/2022	8060	8060
			10/4/2022	8300	8300
			10/4/2022	8300	8300
			10/4/2022	8060	8060
			5/4/2023	9020	9020
<hr/>					
MW93-3	25	0 (0%)	6/6/2012	834	834
			12/12/2012	669	669
			6/19/2013	861	861
			12/11/2013	697	697
			6/11/2014	986	986
			12/3/2014	743	743
			6/17/2015	911	911
			12/1/2015	1050	1050
			6/22/2016	1390	1390
			12/20/2016	1189	1189
			6/6/2017	780	780
			11/7/2017	1250	1250
			2/27/2018	1190	1190
			9/27/2018	1420	1420
			5/7/2019	1510	1510
			11/21/2019	1550	1550
			6/25/2020	1310	1310
			11/16/2020	1310	1310
			5/26/2021	1240	1240
			11/17/2021	1120	1120
			4/8/2022	1300	1300
			4/8/2022	1300	1300
			10/4/2022	1230	1230
			10/4/2022	1230	1230
			5/3/2023	1150	1150
<hr/>					
MW03-2	12	0 (0%)	9/27/2018	1630	1630
			5/7/2019	1240	1240
			11/21/2019	1760	1760
			6/25/2020	1940	1940
			11/17/2020	1770	1770
			5/26/2021	1790	1790
			11/17/2021	1490	1490
			4/8/2022	1720	1720

			4/8/2022	1720	1720
			10/3/2022	2060	2060
			10/3/2022	2060	2060
			5/3/2023	1550	1550
MW03-1	9	0 (0%)	5/7/2019	102	102
			11/21/2019	80	80
			6/25/2020	151	151
			11/17/2020	320	320
			5/26/2021	88	88
			11/16/2021	160	160
			4/8/2022	81	81
			4/8/2022	81	81
			5/3/2023	101	101
MW22-02	9	0 (0%)	4/7/2022	4530	4530
			5/9/2022	4750	4750
			5/31/2022	3680	3680
			6/20/2022	6030	6030
			7/19/2022	4880	4880
			8/18/2022	6270	6270
			9/13/2022	7930	7930
			10/3/2022	6320	6320
			5/4/2023	6900	6900
MW22-03	9	0 (0%)	4/7/2022	1230	1230
			5/9/2022	2060	2060
			5/31/2022	3680	3680
			6/20/2022	4520	4520
			7/19/2022	4190	4190
			8/18/2022	1560	1560
			9/13/2022	1590	1590
			10/4/2022	684	684
			5/4/2023	3380	3380
MW22-04	10	0 (0%)	4/7/2022	322	322
			5/9/2022	900	900
			5/31/2022	613	613
			6/20/2022	648	648
			6/20/2022	639	639
			7/18/2022	500	500
			8/18/2022	491	491
			9/13/2022	431	431
			10/4/2022	408	408
			5/4/2023	608	608
MW22-05	10	0 (0%)	4/7/2022	2640	2640
			5/9/2022	2480	2480
			5/31/2022	1800	1800
			6/20/2022	1800	1800
			7/18/2022	2950	2950
			8/18/2022	2310	2310
			9/13/2022	2160	2160
			10/3/2022	2290	2290
			5/3/2023	2310	2310
			5/3/2023	2320	2320

MW22-06	10	0 (0%)	4/8/2022	1030	1030
			5/9/2022	945	945
			5/31/2022	932	932
			6/20/2022	904	904
			7/18/2022	932	932
			8/18/2022	851	851
			8/18/2022	940	940
			9/13/2022	812	812
			10/3/2022	847	847
			5/3/2023	1020	1020
MW22-07	9	0 (0%)	4/8/2022	519	519
			5/9/2022	440	440
			5/31/2022	408	408
			6/20/2022	391	391
			7/19/2022	638	638
			8/18/2022	813	813
			9/13/2022	755	755
			10/4/2022	739	739
			5/4/2023	459	459
			MW22-08	10	0 (0%)
5/9/2022	1030	1030			
5/31/2022	984	984			
5/31/2022	996	996			
6/20/2022	976	976			
7/18/2022	1020	1020			
8/18/2022	1050	1050			
9/13/2022	1000	1000			
10/4/2022	1080	1080			
5/3/2023	1090	1090			

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Number of comparisons = 11

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 32

Maximum Background Value = 1230

Confidence Level = 80%

False Positive Rate = 20%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	101	FALSE
MW03-2	5/3/2023	1	1550	TRUE
MW22-02	5/4/2023	1	6900	TRUE
MW22-03	5/4/2023	1	3380	TRUE
MW22-04	5/4/2023	1	608	FALSE
MW22-05	5/3/2023	2	2315	TRUE
MW22-06	5/3/2023	1	1020	FALSE
MW22-07	5/4/2023	1	459	FALSE
MW22-08	5/3/2023	1	1090	FALSE
MW93-2	5/4/2023	1	9020	TRUE
MW93-3	5/3/2023	1	1150	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW03-2

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 9

Maximum Baseline Concentration = 2060

Confidence Level = 90%

False Positive Rate = 10%

Baseline Measurements	Date	Value
	9/27/2018	1630
	5/7/2019	1240
	11/21/2019	1760
	6/25/2020	1940
	11/17/2020	1770
	5/26/2021	1790
	11/17/2021	1490
	4/8/2022	1720
	10/3/2022	2060

Date	Count	Mean	Significant
5/3/2023	1	1550	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 23

Maximum Baseline Concentration = 46400

Confidence Level = 95.8%

False Positive Rate = 4.2%

Baseline Measurements	Date	Value
	6/6/2012	7530
	12/12/2012	7920
	6/19/2013	7280
	12/11/2013	7440
	6/11/2014	7160
	12/3/2014	7700
	6/17/2015	730
	12/1/2015	7950
	6/22/2016	3160
	12/20/2016	8780
	6/6/2017	7350
	11/7/2017	7820
	2/27/2018	7560
	9/27/2018	8890
	5/7/2019	8480
	11/21/2019	8400
	6/25/2020	8860
	11/16/2020	46400
	5/26/2021	7520
	11/17/2021	8020
	4/8/2022	10000
	10/4/2022	8300
	10/4/2022	8060

Date	Count	Mean	Significant
5/4/2023	1	9020	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 7930

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	4530
	5/9/2022	4750
	5/31/2022	3680
	6/20/2022	6030
	7/19/2022	4880
	8/18/2022	6270
	9/13/2022	7930
	10/3/2022	6320

Date	Count	Mean	Significant
5/4/2023	1	6900	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 4520

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	1230
	5/9/2022	2060
	5/31/2022	3680
	6/20/2022	4520
	7/19/2022	4190
	8/18/2022	1560
	9/13/2022	1590
	10/4/2022	684

Date	Count	Mean	Significant
5/4/2023	1	3380	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-05

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 8

Maximum Baseline Concentration = 2950

Confidence Level = 88.9%

False Positive Rate = 11.1%

Baseline Measurements	Date	Value
	4/7/2022	2640
	5/9/2022	2480
	5/31/2022	1800
	6/20/2022	1800
	7/18/2022	2950
	8/18/2022	2310
	9/13/2022	2160
	10/3/2022	2290

Date	Count	Mean	Significant
5/3/2023	2	2315	FALSE

Shapiro-Francia Test of Normality

Parameter: Total Dissolved Solids

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 174

i	x(i)	m(i)	sum(m²)	sum(mx)
1	80	-2.57583	6.63492	-206.067
2	81	-2.29036	11.8807	-391.586
3	81	-2.12007	16.3754	-563.312
4	88	-2.01409	20.4319	-740.552
5	101	-1.91103	24.084	-933.566
6	102	-1.82501	27.4146	-1119.72
7	151	-1.75069	30.4795	-1384.07
8	160	-1.6954	33.3539	-1655.33
9	320	-1.63524	36.0279	-2178.61
10	322	-1.58047	38.5258	-2687.52
11	391	-1.5382	40.8918	-3288.96
12	408	-1.49085	43.1145	-3897.22
13	408	-1.44663	45.2072	-4487.45
14	431	-1.40507	47.1815	-5093.04
15	440	-1.3722	49.0644	-5696.81
16	459	-1.33462	50.8456	-6309.4
17	491	-1.29884	52.5326	-6947.13
18	500	-1.27024	54.1461	-7582.25
19	519	-1.23724	55.6769	-8224.37
20	608	-1.20553	57.1301	-8957.33
21	613	-1.17499	58.5107	-9677.6
22	638	-1.15035	59.834	-10411.5
23	639	-1.12168	61.0922	-11128.3
24	648	-1.0939	62.2888	-11837.1
25	669	-1.07138	63.4367	-12553.9
26	684	-1.04505	64.5288	-13268.7
27	697	-1.01943	65.568	-13979.2
28	730	-0.994457	66.557	-14705.2
29	739	-0.974114	67.5059	-15425.1
30	743	-0.950222	68.4088	-16131.1
31	755	-0.926859	69.2679	-16830.8
32	780	-0.907769	70.0919	-17538.9
33	810	-0.885291	70.8756	-18256
34	812	-0.863249	71.6208	-18956.9
35	813	-0.841621	72.3292	-19641.2
36	830	-0.823893	73.008	-20325
37	834	-0.802956	73.6527	-20994.7
38	838	-0.782366	74.2648	-21650.3
39	840	-0.765456	74.8507	-22293.3
40	847	-0.745449	75.4064	-22924.7
41	851	-0.725736	75.9331	-23542.3
42	860	-0.706302	76.432	-24149.7
43	861	-0.690309	76.9085	-24744.1
44	864	-0.671346	77.3592	-25324.1
45	868	-0.652622	77.7851	-25890.6
46	878	-0.637192	78.1911	-26450
47	880	-0.618872	78.5741	-26994.6

48	882	-0.60076	78.9351	-27524.5
49	900	-0.582841	79.2748	-28049.1
50	904	-0.568052	79.5974	-28562.6
51	907	-0.550465	79.9005	-29061.9
52	911	-0.533048	80.1846	-29547.5
53	932	-0.518658	80.4536	-30030.9
54	932	-0.501527	80.7051	-30498.3
55	940	-0.484544	80.9399	-30953.7
56	942	-0.467699	81.1587	-31394.3
57	945	-0.453763	81.3646	-31823.1
58	952	-0.437153	81.5557	-32239.3
59	956	-0.420664	81.7326	-32641.5
60	961	-0.40701	81.8983	-33032.6
61	966	-0.390726	82.0509	-33410
62	966	-0.374544	82.1912	-33771.8
63	968	-0.358459	82.3197	-34118.8
64	968	-0.345126	82.4388	-34452.9
65	971	-0.329206	82.5472	-34772.6
66	976	-0.31337	82.6454	-35078.4
67	978	-0.300232	82.7355	-35372
68	984	-0.284535	82.8165	-35652
69	986	-0.268908	82.8888	-35917.2
70	988	-0.253347	82.953	-36167.5
71	996	-0.240426	83.0108	-36406.9
72	1000	-0.224974	83.0614	-36631.9
73	1000	-0.209575	83.1053	-36841.5
74	1000	-0.196779	83.1441	-37038.3
75	1000	-0.181468	83.177	-37219.7
76	1000	-0.166199	83.2046	-37385.9
77	1000	-0.150969	83.2274	-37536.9
78	1010	-0.138305	83.2465	-37676.6
79	1010	-0.123135	83.2617	-37801
80	1020	-0.107995	83.2734	-37911.1
81	1020	-0.0953969	83.2825	-38008.4
82	1030	-0.0802981	83.2889	-38091.1
83	1030	-0.0652187	83.2932	-38158.3
84	1050	-0.0501541	83.2957	-38211
85	1050	-0.0376076	83.2971	-38250.5
86	1050	-0.0225612	83.2976	-38274.1
87	1080	-0.00751925	83.2977	-38282.3
88	1090	0.00751925	83.2977	-38274.1
89	1120	0.0225612	83.2982	-38248.8
90	1120	0.0376076	83.2996	-38206.7
91	1130	0.0501541	83.3022	-38150
92	1130	0.0652187	83.3064	-38076.3
93	1140	0.0802981	83.3129	-37984.8
94	1150	0.0953969	83.322	-37875.1
95	1189	0.107995	83.3336	-37746.7
96	1190	0.123135	83.3488	-37600.1
97	1230	0.138305	83.3679	-37430
98	1230	0.150969	83.3907	-37244.3
99	1230	0.166199	83.4183	-37039.9
100	1230	0.181468	83.4513	-36816.7
101	1240	0.196779	83.49	-36572.7
102	1240	0.209575	83.5339	-36312.8
103	1250	0.224974	83.5845	-36031.6
104	1300	0.240426	83.6423	-35719

105	1300	0.253347	83.7065	-35389.7
106	1310	0.268908	83.7788	-35037.4
107	1310	0.284535	83.8598	-34664.7
108	1390	0.300232	83.9499	-34247.3
109	1420	0.31337	84.0481	-33802.4
110	1490	0.329206	84.1565	-33311.8
111	1510	0.345126	84.2756	-32790.7
112	1550	0.358459	84.4041	-32235.1
113	1550	0.374544	84.5444	-31654.6
114	1560	0.390726	84.697	-31045
115	1590	0.40701	84.8627	-30397.9
116	1630	0.420664	85.0397	-29712.2
117	1720	0.437153	85.2308	-28960.3
118	1720	0.453763	85.4367	-28179.8
119	1760	0.467699	85.6554	-27356.7
120	1770	0.484544	85.8902	-26499
121	1790	0.501527	86.1417	-25601.3
122	1800	0.518658	86.4107	-24667.7
123	1800	0.533048	86.6949	-23708.2
124	1940	0.550465	86.9979	-22640.3
125	2060	0.568052	87.3206	-21470.1
126	2060	0.582841	87.6603	-20269.5
127	2060	0.60076	88.0212	-19031.9
128	2160	0.618872	88.4042	-17695.2
129	2290	0.637192	88.8102	-16236
130	2310	0.652622	89.2361	-14728.4
131	2310	0.671346	89.6868	-13177.6
132	2320	0.690309	90.1633	-11576.1
133	2480	0.706302	90.6622	-9824.47
134	2640	0.725736	91.1889	-7908.53
135	2950	0.745449	91.7446	-5709.45
136	3160	0.765456	92.3305	-3290.61
137	3380	0.782366	92.9426	-646.217
138	3680	0.802956	93.5873	2308.66
139	3680	0.823893	94.2661	5340.59
140	4190	0.841621	94.9745	8866.98
141	4520	0.863249	95.7197	12768.9
142	4530	0.885291	96.5034	16779.2
143	4750	0.907769	97.3275	21091.1
144	4880	0.926859	98.1865	25614.2
145	6030	0.950222	99.0894	31344
146	6270	0.974114	100.038	37451.7
147	6320	0.994457	101.027	43736.7
148	6900	1.01943	102.067	50770.8
149	7160	1.04505	103.159	58253.3
150	7280	1.07138	104.306	66053
151	7350	1.0939	105.503	74093.1
152	7440	1.12168	106.761	82438.4
153	7520	1.15035	108.085	91089
154	7530	1.17499	109.465	99936.7
155	7560	1.20553	110.918	109050
156	7700	1.23724	112.449	118577
157	7820	1.27024	114.063	128510
158	7920	1.29884	115.75	138797
159	7930	1.33462	117.531	149381
160	7950	1.3722	119.414	160290
161	8020	1.40507	121.388	171558

162	8060	1.44663	123.481	183218
163	8060	1.49085	125.703	195235
164	8300	1.5382	128.07	208002
165	8300	1.58047	130.567	221120
166	8400	1.63524	133.241	234856
167	8480	1.6954	136.116	249232
168	8780	1.75069	139.181	264604
169	8860	1.82501	142.511	280773
170	8890	1.91103	146.163	297762
171	9020	2.01409	150.22	315929
172	10000	2.12007	154.715	337130
173	10000	2.29036	159.96	360034
174	46400	2.57583	166.595	479552

Data Set Standard Deviation = 4264.52

Numerator = 2.2997e+011

Denominator = 5.24143e+011

W Statistic = 0.438755 = 2.2997e+011 / 5.24143e+011

5% Critical value of 0.976 exceeds 0.438755
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.438755
Evidence of non-normality at 99% level of significance

Concentrations (ppb)

Parameter: Thallium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 154

Total Non-Detect: 147

Percent Non-Detects: 95.4545%

Total Background Measurements: 25

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	8	8 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW93-1	17	17 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			2/11/2020	ND<0.01	ND<0.01
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
5/4/2023	ND<0.001	ND<0.001			

There are 11 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			2/11/2020	ND<0.01	ND<0.01
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/16/2021	ND<0.001	ND<0.001

			4/8/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW03-2	17	17 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			2/11/2020	ND<0.01	ND<0.01
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW22-02	8	1 (12.5%)	5/9/2022	0.000366	0.000366
			5/31/2022	0.000398	0.000398
			6/20/2022	0.000535	0.000535
			7/19/2022	0.000447	0.000447
			8/18/2022	0.000392	0.000392
			9/13/2022	0.000441	0.000441
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	0.000413	0.000413
MW22-03	8	8 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/19/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW22-04	9	9 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW22-05	10	10 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001

			5/3/2023	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW22-06	9	9 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW22-07	8	8 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/19/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW22-08	9	9 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
MW93-2	18	18 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			2/11/2020	ND<0.01	ND<0.01
			6/25/2020	ND<0.001	ND<0.001
			11/16/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
MW93-3	17	17 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01

11/20/2018	ND<0.01	ND<0.01
12/20/2018	ND<0.01	ND<0.01
11/21/2019	ND<0.001	ND<0.001
2/11/2020	ND<0.01	ND<0.01
6/25/2020	ND<0.001	ND<0.001
11/16/2020	ND<0.001	ND<0.001
5/26/2021	ND<0.001	ND<0.001
11/17/2021	ND<0.001	ND<0.001
4/8/2022	ND<0.001	ND<0.001
10/4/2022	ND<0.001	ND<0.001
5/3/2023	ND<0.001	ND<0.001

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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December 2023 Statistical Output

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Sulfate

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 1.85615%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 92

Maximum Background Value = 880

Confidence Level = 92%

False Positive Rate = 8%

Location	Date	Count	Mean	Significant
MW03-2	12/1/2023	1	292	FALSE
MW03-1	5/3/2023	1	9.79	FALSE
MW22-02	11/30/2023	1	3480	TRUE
MW22-03	11/30/2023	1	212	FALSE
MW22-04	11/30/2023	1	106	FALSE
MW22-05	12/1/2023	1	115	FALSE
MW22-06	12/1/2023	1	266	FALSE
MW22-07	12/4/2023	1	345	FALSE
MW22-08	12/1/2023	1	215	FALSE
MW93-2	11/30/2023	1	5220	TRUE
MW93-3	11/30/2023	1	179	FALSE
MW23-01	12/1/2023	1	640	FALSE
MW23-02	12/1/2023	1	227	FALSE
MW23-03	12/1/2023	1	55.5	FALSE
MW23-04	12/4/2023	1	10.7	FALSE
MW23-05	12/4/2023	1	158	FALSE
MW23-06	12/4/2023	1	403	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 91

Maximum Background Value = 1888

Confidence Level = 91.9%

False Positive Rate = 8.1%

Location	Date	Count	Mean	Significant
MW03-1	9/13/2023	1	534	FALSE
MW03-2	12/1/2023	1	1810	FALSE
MW22-02	11/30/2023	1	7750	TRUE
MW22-03	11/30/2023	1	3100	TRUE
MW22-04	11/30/2023	1	622	FALSE
MW22-05	12/1/2023	1	4050	TRUE
MW22-06	12/1/2023	1	1390	FALSE
MW22-07	12/4/2023	1	1270	FALSE
MW22-08	12/1/2023	1	1870	FALSE
MW93-2	11/30/2023	1	13900	TRUE
MW93-3	11/30/2023	1	2070	TRUE
MW23-01	12/1/2023	1	1830	FALSE
MW23-02	12/1/2023	1	1590	FALSE
MW23-03	12/1/2023	1	573	FALSE
MW23-04	12/4/2023	1	546	FALSE
MW23-05	12/4/2023	1	1090	FALSE
MW23-06	12/4/2023	1	1150	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW03-1

Parameter: pH

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 7.88

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	6/24/2004	7.27
	9/15/2004	6.78
	12/15/2004	7.32
	3/16/2005	7.3
	6/15/2005	7.28
	9/21/2005	7.88
	12/20/2006	7
	6/12/2007	7.29
	12/17/2007	6.8
	6/11/2008	7.4

Date	Count	Mean	Significant
9/11/2023	1	7.31	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: pH

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 92

Maximum Background Value = 7.2

Confidence Level = 92%

False Positive Rate = 8%

Location	Date	Count	Mean	Significant
MW03-1	9/11/2023	1	7.31	TRUE
MW03-2	12/1/2023	1	6.7	FALSE
MW22-02	12/1/2023	1	7.3	TRUE
MW22-03	12/1/2023	1	7.07	FALSE
MW22-04	12/1/2023	1	6.8	FALSE
MW22-05	12/1/2023	1	6.93	FALSE
MW22-06	12/1/2023	1	6.86	FALSE
MW22-07	12/1/2023	1	7.01	FALSE
MW22-08	12/1/2023	1	7.31	TRUE
MW93-2	12/1/2023	1	10	TRUE
MW93-3	12/1/2023	1	6.98	FALSE
MW23-01	12/1/2023	1	6.74	FALSE
MW23-02	12/1/2023	1	6.22	FALSE
MW23-03	12/1/2023	1	7.4	TRUE
MW23-04	12/1/2023	1	7.02	FALSE
MW23-05	12/1/2023	1	6.61	FALSE
MW23-06	12/1/2023	1	7.32	TRUE

Concentrations (ppb)

Parameter: pH

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 430

Total Non-Detect: 0

Percent Non-Detects: 0%

Total Background Measurements: 92

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	11	0 (0%)	4/7/2022	6.73	6.73
			5/9/2022	6.99	6.99
			5/31/2022	6.65	6.65
			6/20/2022	7.2	7.2
			7/18/2022	6.9	6.9
			8/18/2022	6.5	6.5
			9/13/2022	6.64	6.64
			10/3/2022	6.4	6.4
			5/4/2023	6.96	6.96
			9/11/2023	6.52	6.52
			12/1/2023	6.98	6.98
MW93-1	81	0 (0%)	12/15/1994	6.67	6.67
			3/14/1995	6.72	6.72
			6/21/1995	6.58	6.58
			12/14/1995	6.72	6.72
			3/6/1996	6.72	6.72
			4/25/1996	6.79	6.79
			10/2/1996	6.61	6.61
			12/10/1996	6.51	6.51
			3/11/1997	6.77	6.77
			4/15/1997	6.66	6.66
			8/14/1997	6.66	6.66
			12/4/1997	6.78	6.78
			3/31/1998	6.87	6.87
			6/23/1998	6.5	6.5
			8/11/1998	7.05	7.05
			12/8/1998	6.62	6.62
			3/9/1999	6.6	6.6
			6/8/1999	6.93	6.93
			8/19/1999	6.54	6.54
			12/14/1999	6.55	6.55
			3/7/2000	6.59	6.59
			6/23/2000	6.52	6.52
			12/12/2000	6.56	6.56
			3/27/2001	6.6	6.6
			6/28/2001	6.59	6.59
			9/10/2001	6.76	6.76
			12/18/2001	6.76	6.76
			3/19/2002	6.93	6.93
			6/26/2002	6.85	6.85
			9/18/2002	6.62	6.62
12/11/2002	6.58	6.58			
3/13/2003	6.66	6.66			
6/25/2003	6.94	6.94			

9/26/2003	6.42	6.42
12/10/2003	6.64	6.64
3/9/2004	6.68	6.68
6/24/2004	6.53	6.53
9/15/2004	6.43	6.43
12/15/2004	6.61	6.61
3/16/2005	6.57	6.57
6/15/2005	6.53	6.53
9/21/2005	6.65	6.65
12/21/2005	6.61	6.61
3/15/2006	6.64	6.64
6/21/2006	6.85	6.85
12/20/2006	6.67	6.67
6/12/2007	6.58	6.58
12/17/2007	6.33	6.33
6/11/2008	6.7	6.7
12/3/2008	6.5	6.5
6/17/2009	6.8	6.8
12/9/2009	6.6	6.6
6/17/2010	6.5	6.5
12/22/2010	6.55	6.55
6/29/2011	6.5	6.5
12/7/2011	6.41	6.41
6/6/2012	6.23	6.23
12/12/2012	6.61	6.61
6/19/2013	6.58	6.58
12/11/2013	6.57	6.57
6/11/2014	6.1	6.1
12/3/2014	6.69	6.69
6/17/2015	6.38	6.38
12/1/2015	6.45	6.45
6/22/2016	6.59	6.59
12/20/2016	6.28	6.28
6/6/2017	6.69	6.69
11/7/2017	6.21	6.21
2/27/2018	6.47	6.47
9/19/2018	6.62	6.62
5/7/2019	7	7
11/21/2019	6.46	6.46
6/26/2020	6.88	6.88
11/17/2020	6.45	6.45
5/26/2021	6.59	6.59
11/17/2021	7.17	7.17
4/8/2022	7.07	7.07
10/4/2022	6.64	6.64
5/4/2023	6.85	6.85
9/11/2023	6.68	6.68
12/1/2023	6.6	6.6

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	39	0 (0%)	6/24/2004	7.27	7.27
			9/15/2004	6.78	6.78
			12/15/2004	7.32	7.32
			3/16/2005	7.3	7.3

6/15/2005	7.28	7.28
9/21/2005	7.88	7.88
12/20/2006	7	7
6/12/2007	7.29	7.29
12/17/2007	6.8	6.8
6/11/2008	7.4	7.4
12/3/2008	7.4	7.4
6/17/2009	7.6	7.6
12/9/2009	7.5	7.5
6/17/2010	7.1	7.1
12/22/2010	6.89	6.89
6/29/2011	7.3	7.3
12/7/2011	7.05	7.05
6/6/2012	7.33	7.33
6/19/2013	7.15	7.15
12/11/2013	7.19	7.19
6/11/2014	6.62	6.62
12/3/2014	6.73	6.73
6/17/2015	6.66	6.66
12/1/2015	6.34	6.34
6/22/2016	7.2	7.2
12/20/2016	6.75	6.75
6/6/2017	6.64	6.64
11/7/2017	6.44	6.44
2/27/2018	6.81	6.81
9/19/2018	7.19	7.19
5/7/2019	6.33	6.33
11/21/2019	6.23	6.23
6/25/2020	6.77	6.77
11/17/2020	6.92	6.92
5/26/2021	5.58	5.58
11/16/2021	7.62	7.62
4/8/2022	6.2	6.2
5/4/2023	6.71	6.71
9/11/2023	7.31	7.31

MW03-2	45	0 (0%)	6/24/2004	6.84	6.84
			9/15/2004	7.17	7.17
			12/15/2004	6.86	6.86
			3/16/2005	6.8	6.8
			6/15/2005	6.87	6.87
			9/21/2005	6.87	6.87
			12/21/2005	6.83	6.83
			3/15/2006	6.88	6.88
			6/21/2006	6.78	6.78
			12/20/2006	6.88	6.88
			6/12/2007	6.87	6.87
			12/17/2007	6.7	6.7
			6/11/2008	6.9	6.9
			12/3/2008	6.8	6.8
			6/17/2009	7.3	7.3
			12/9/2009	6.8	6.8
			6/17/2010	6.8	6.8
			12/22/2010	7.2	7.2
			6/29/2011	6.7	6.7
			12/7/2011	6.69	6.69
			6/6/2012	6.73	6.73

			12/12/2012	6.82	6.82
			6/19/2013	6.88	6.88
			12/11/2013	6.72	6.72
			6/11/2014	7	7
			12/3/2014	7.14	7.14
			6/17/2015	6.45	6.45
			12/1/2015	6.39	6.39
			6/22/2016	6.75	6.75
			12/20/2016	6.36	6.36
			6/6/2017	6.73	6.73
			11/7/2017	6.22	6.22
			2/27/2018	6.47	6.47
			9/19/2018	6.63	6.63
			5/7/2019	6.81	6.81
			11/21/2019	6.56	6.56
			6/25/2020	6.65	6.65
			11/17/2020	6.64	6.64
			5/26/2021	6.54	6.54
			11/17/2021	6.92	6.92
			4/8/2022	6.74	6.74
			10/3/2022	6.53	6.53
			5/4/2023	6.6	6.6
			9/11/2023	6.6	6.6
			12/1/2023	6.7	6.7
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MW22-02	11	0 (0%)	4/7/2022	7.3	7.3
			5/9/2022	7.6	7.6
			5/31/2022	7.46	7.46
			6/20/2022	8.02	8.02
			7/18/2022	7.42	7.42
			8/18/2022	6.92	6.92
			9/13/2022	7.02	7.02
			10/3/2022	6.74	6.74
			5/4/2023	7.12	7.12
			9/11/2023	6.85	6.85
			12/1/2023	7.3	7.3
<hr/>					
MW22-03	11	0 (0%)	4/7/2022	6.6	6.6
			5/9/2022	6.94	6.94
			5/31/2022	7.2	7.2
			6/20/2022	7.86	7.86
			7/18/2022	7.6	7.6
			8/18/2022	6.63	6.63
			9/13/2022	6.61	6.61
			10/4/2022	6.08	6.08
			5/4/2023	7.19	7.19
			9/11/2023	6.71	6.71
			12/1/2023	7.07	7.07
<hr/>					
MW22-04	11	0 (0%)	4/7/2022	6.92	6.92
			5/9/2022	7.26	7.26
			5/31/2022	6.76	6.76
			6/20/2022	7.31	7.31
			7/18/2022	6.71	6.71
			8/18/2022	6.26	6.26
			9/13/2022	6.38	6.38
			10/4/2022	6.14	6.14

			5/4/2023	6.41	6.41
			9/11/2023	6.31	6.31
			12/1/2023	6.8	6.8
MW22-05	11	0 (0%)	4/7/2022	6.75	6.75
			5/9/2022	6.7	6.7
			5/31/2022	6.4	6.4
			6/20/2022	7.19	7.19
			7/18/2022	7.07	7.07
			8/18/2022	6.82	6.82
			9/13/2022	6.95	6.95
			10/3/2022	6.74	6.74
			5/4/2023	6.79	6.79
			9/11/2023	6.8	6.8
			12/1/2023	6.93	6.93
MW22-06	11	0 (0%)	4/8/2022	7.07	7.07
			5/9/2022	7.19	7.19
			5/31/2022	6.52	6.52
			6/20/2022	7.72	7.72
			7/18/2022	7.32	7.32
			8/18/2022	6.93	6.93
			9/13/2022	7.02	7.02
			10/3/2022	6.79	6.79
			5/4/2023	6.92	6.92
			9/11/2023	6.77	6.77
			12/1/2023	6.86	6.86
MW22-07	11	0 (0%)	4/8/2022	6.96	6.96
			5/9/2022	6.53	6.53
			5/31/2022	7.16	7.16
			6/20/2022	7.67	7.67
			7/18/2022	7.34	7.34
			8/18/2022	6.87	6.87
			9/13/2022	6.95	6.95
			10/4/2022	6.68	6.68
			5/4/2023	6.87	6.87
			9/11/2023	6.73	6.73
			12/1/2023	7.01	7.01
MW22-08	11	0 (0%)	4/8/2022	7.4	7.4
			5/9/2022	7.55	7.55
			5/31/2022	7.42	7.42
			6/20/2022	8.02	8.02
			7/18/2022	7.7	7.7
			8/18/2022	7.27	7.27
			9/13/2022	7.35	7.35
			10/4/2022	7.08	7.08
			5/4/2023	7.21	7.21
			9/11/2023	7.14	7.14
			12/1/2023	7.31	7.31
MW93-2	84	0 (0%)	12/15/1994	8.54	8.54
			3/14/1995	8.82	8.82
			6/21/1995	8.68	8.68
			12/14/1995	8.16	8.16
			3/6/1996	9.37	9.37

4/25/1996	9.14	9.14
10/2/1996	8.94	8.94
12/10/1996	9.27	9.27
3/11/1997	8.95	8.95
4/15/1997	9.25	9.25
8/14/1997	8.67	8.67
12/4/1997	8.77	8.77
3/31/1998	9.32	9.32
6/23/1998	8.87	8.87
8/11/1998	9	9
12/8/1998	8.9	8.9
3/9/1999	9.39	9.39
6/8/1999	9.25	9.25
8/19/1999	9.15	9.15
12/14/1999	8.98	8.98
3/7/2000	9.2	9.2
6/23/2000	9.18	9.18
12/12/2000	9.18	9.18
3/27/2001	9.29	9.29
6/28/2001	9.22	9.22
9/10/2001	9.1	9.1
12/18/2001	9.4	9.4
3/19/2002	9.54	9.54
6/26/2002	9.44	9.44
9/18/2002	9.24	9.24
12/11/2002	9.16	9.16
3/13/2003	9.28	9.28
6/25/2003	9.27	9.27
9/26/2003	9.32	9.32
12/10/2003	9.25	9.25
3/9/2004	9.37	9.37
6/24/2004	9.24	9.24
9/15/2004	9.32	9.32
12/15/2004	9.26	9.26
3/16/2005	9.23	9.23
6/15/2005	9.1	9.1
9/21/2005	9.25	9.25
12/21/2005	9.31	9.31
3/15/2006	9.47	9.47
6/21/2006	9.4	9.4
12/20/2006	9.18	9.18
2/21/2007	9.2	9.2
6/12/2007	9.1	9.1
12/17/2007	9.3	9.3
6/11/2008	9.4	9.4
12/3/2008	9.7	9.7
12/15/2008	9.6	9.6
6/17/2009	9.8	9.8
12/9/2009	9.8	9.8
6/17/2010	9.6	9.6
12/22/2010	9.5	9.5
6/29/2011	9.4	9.4
12/7/2011	9.5	9.5
6/6/2012	9.68	9.68
12/12/2012	10.02	10.02
1/9/2013	9.51	9.51
6/19/2013	9.4	9.4

			12/11/2013	9.46	9.46
			6/11/2014	8.55	8.55
			12/3/2014	8.95	8.95
			6/17/2015	9.13	9.13
			12/1/2015	9.37	9.37
			6/22/2016	9.28	9.28
			12/20/2016	9.72	9.72
			6/6/2017	9.29	9.29
			11/7/2017	8.86	8.86
			2/27/2018	9.04	9.04
			9/19/2018	9.09	9.09
			5/7/2019	9.05	9.05
			11/21/2019	8.44	8.44
			6/26/2020	8.59	8.59
			11/16/2020	8.48	8.48
			5/26/2021	8.74	8.74
			11/17/2021	8.64	8.64
			4/8/2022	8.83	8.83
			10/4/2022	8.48	8.48
			5/4/2023	9.16	9.16
			9/11/2023	8.77	8.77
			12/1/2023	10	10
<hr/>					
MW93-3	81	0 (0%)	12/15/1994	6.68	6.68
			3/14/1995	6.74	6.74
			6/21/1995	6.61	6.61
			12/14/1995	6.75	6.75
			3/6/1996	6.85	6.85
			4/25/1996	6.78	6.78
			10/2/1996	6.75	6.75
			12/10/1996	6.7	6.7
			3/11/1997	6.8	6.8
			4/15/1997	6.74	6.74
			8/14/1997	6.88	6.88
			12/4/1997	6.88	6.88
			3/31/1998	6.92	6.92
			6/23/1998	6.76	6.76
			8/11/1998	6.91	6.91
			12/8/1998	6.93	6.93
			3/9/1999	6.78	6.78
			6/8/1999	6.85	6.85
			8/19/1999	6.97	6.97
			12/14/1999	6.8	6.8
			3/7/2000	6.77	6.77
			6/23/2000	6.82	6.82
			12/12/2000	6.86	6.86
			3/27/2001	6.79	6.79
			6/28/2001	6.86	6.86
			9/10/2001	7.04	7.04
			12/18/2001	6.93	6.93
			3/19/2002	7	7
			6/26/2002	6.89	6.89
			9/18/2002	7.96	7.96
			12/11/2002	6.74	6.74
			3/13/2003	6.87	6.87
			6/25/2003	6.85	6.85
			9/26/2003	6.77	6.77

			12/10/2003	6.99	6.99
			3/9/2004	7.45	7.45
			6/24/2004	6.8	6.8
			9/15/2004	6.7	6.7
			12/15/2004	6.88	6.88
			3/16/2005	6.69	6.69
			6/15/2005	6.81	6.81
			9/21/2005	6.85	6.85
			12/21/2005	6.7	6.7
			3/15/2006	7.07	7.07
			6/21/2006	6.84	6.84
			12/20/2006	6.93	6.93
			6/12/2007	6.89	6.89
			12/17/2007	6.8	6.8
			6/11/2008	6.8	6.8
			12/3/2008	6.8	6.8
			6/17/2009	7.2	7.2
			12/9/2009	6.9	6.9
			6/17/2010	6.7	6.7
			12/22/2010	6.82	6.82
			6/29/2011	6.7	6.7
			12/7/2011	6.77	6.77
			6/6/2012	6.42	6.42
			12/12/2012	6.85	6.85
			6/19/2013	6.49	6.49
			12/11/2013	7.07	7.07
			6/11/2014	6.08	6.08
			12/3/2014	6.8	6.8
			6/17/2015	6.4	6.4
			12/1/2015	6.6	6.6
			6/22/2016	6.43	6.43
			12/20/2016	6.27	6.27
			6/6/2017	6.65	6.65
			11/7/2017	6.46	6.46
			2/27/2018	6.49	6.49
			9/19/2018	6.55	6.55
			5/7/2019	6.69	6.69
			11/21/2019	6.54	6.54
			6/26/2020	6.75	6.75
			11/16/2020	6.24	6.24
			5/26/2021	6.71	6.71
			11/17/2021	6.92	6.92
			4/8/2022	6.79	6.79
			10/4/2022	6.55	6.55
			5/4/2023	6.65	6.65
			9/11/2023	6.63	6.63
			12/1/2023	6.98	6.98
MW23-01	2	0 (0%)	9/11/2023	6.85	6.85
			12/1/2023	6.74	6.74
MW23-02	2	0 (0%)	9/11/2023	6.43	6.43
			12/1/2023	6.22	6.22
MW23-03	2	0 (0%)	9/11/2023	7.26	7.26
			12/1/2023	7.4	7.4

MW23-04	2	0 (0%)	9/11/2023 12/1/2023	7.19 7.02	7.19 7.02
MW23-05	2	0 (0%)	9/11/2023 12/1/2023	6.7 6.61	6.7 6.61
MW23-06	2	0 (0%)	9/11/2023 12/1/2023	7.4 7.32	7.4 7.32

There are 2 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2DUP	1	0 (0%)	9/11/2023	8.77	8.77
MW22-06DUP	1	0 (0%)	12/1/2023	6.86	6.86

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: pH

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 83

Maximum Baseline Concentration = 10.02

Confidence Level = 98.8%

False Positive Rate = 1.2%

Baseline Measurements	Date	Value
	12/15/1994	8.54
	3/14/1995	8.82
	6/21/1995	8.68
	12/14/1995	8.16
	3/6/1996	9.37
	4/25/1996	9.14
	10/2/1996	8.94
	12/10/1996	9.27
	3/11/1997	8.95
	4/15/1997	9.25
	8/14/1997	8.67
	12/4/1997	8.77
	3/31/1998	9.32
	6/23/1998	8.87
	8/11/1998	9
	12/8/1998	8.9
	3/9/1999	9.39
	6/8/1999	9.25
	8/19/1999	9.15
	12/14/1999	8.98
	3/7/2000	9.2
	6/23/2000	9.18
	12/12/2000	9.18
	3/27/2001	9.29
	6/28/2001	9.22
	9/10/2001	9.1
	12/18/2001	9.4
	3/19/2002	9.54
	6/26/2002	9.44
	9/18/2002	9.24
	12/11/2002	9.16
	3/13/2003	9.28
	6/25/2003	9.27
	9/26/2003	9.32
	12/10/2003	9.25
	3/9/2004	9.37
	6/24/2004	9.24
	9/15/2004	9.32
	12/15/2004	9.26
	3/16/2005	9.23
	6/15/2005	9.1
	9/21/2005	9.25

12/21/2005	9.31
3/15/2006	9.47
6/21/2006	9.4
12/20/2006	9.18
2/21/2007	9.2
6/12/2007	9.1
12/17/2007	9.3
6/11/2008	9.4
12/3/2008	9.7
12/15/2008	9.6
6/17/2009	9.8
12/9/2009	9.8
6/17/2010	9.6
12/22/2010	9.5
6/29/2011	9.4
12/7/2011	9.5
6/6/2012	9.68
12/12/2012	10.02
1/9/2013	9.51
6/19/2013	9.4
12/11/2013	9.46
6/11/2014	8.55
12/3/2014	8.95
6/17/2015	9.13
12/1/2015	9.37
6/22/2016	9.28
12/20/2016	9.72
6/6/2017	9.29
11/7/2017	8.86
2/27/2018	9.04
9/19/2018	9.09
5/7/2019	9.05
11/21/2019	8.44
6/26/2020	8.59
11/16/2020	8.48
5/26/2021	8.74
11/17/2021	8.64
4/8/2022	8.83
10/4/2022	8.48
5/4/2023	9.16
9/11/2023	8.77

Date	Count	Mean	Significant
12/1/2023	1	10	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-08

Parameter: pH

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 8.02

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/8/2022	7.4
	5/9/2022	7.55
	5/31/2022	7.42
	6/20/2022	8.02
	7/18/2022	7.7
	8/18/2022	7.27
	9/13/2022	7.35
	10/4/2022	7.08
	5/4/2023	7.21
	9/11/2023	7.14

Date	Count	Mean	Significant
12/1/2023	1	7.31	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: pH

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 8.02

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	7.3
	5/9/2022	7.6
	5/31/2022	7.46
	6/20/2022	8.02
	7/18/2022	7.42
	8/18/2022	6.92
	9/13/2022	7.02
	10/3/2022	6.74
	5/4/2023	7.12
	9/11/2023	6.85

Date	Count	Mean	Significant
12/1/2023	1	7.3	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 72

Maximum Background Value = 130

Confidence Level = 90%

False Positive Rate = 10%

Location	Date	Count	Mean	Significant
MW03-1	9/13/2023	1	18	FALSE
MW03-2	12/1/2023	1	136	TRUE
MW22-02	11/30/2023	1	1430	TRUE
MW22-03	11/30/2023	1	423	TRUE
MW22-04	11/30/2023	1	45.2	FALSE
MW22-05	12/1/2023	1	517	TRUE
MW22-06	12/1/2023	1	59.8	FALSE
MW22-07	12/4/2023	1	113	FALSE
MW22-08	12/1/2023	1	307	TRUE
MW93-2	11/30/2023	1	2680	TRUE
MW93-3	11/30/2023	1	347	TRUE
MW23-01	12/1/2023	1	138	TRUE
MW23-02	12/1/2023	1	136	TRUE
MW23-03	12/1/2023	1	15.4	FALSE
MW23-04	12/4/2023	1	7.92	FALSE
MW23-05	12/4/2023	1	46.6	FALSE
MW23-06	12/4/2023	1	114	FALSE

Welch's T-Test

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Background Obs.	11
Background Mean	9.02909
Background Std Dev	1.36967
Background Variance	1.87599

Well Obs.	340
Well Mean	546.836
Well Std Dev	650.947
Well Variance	423732

Individual Well Comparison for MW22-08

T Value = 41.3636

Degrees of Freedom = 11.1849

95% Critical Value = 1.79588

41.3636 >= 1.79588

Statistical Significance is Indicated at 95% Confidence Level

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Thallium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.6047%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 10

Maximum Background Value = 0.001

Confidence Level = 55.6%

False Positive Rate = 44.4%

Location	Date	Count	Mean	Significant
MW03-1	9/13/2023	1	0.00031	FALSE
MW03-2	12/1/2023	1	0.001	FALSE
MW22-02	11/30/2023	1	0.000373	FALSE
MW22-03	11/30/2023	1	0.001	FALSE
MW22-04	11/30/2023	1	0.001	FALSE
MW22-05	12/1/2023	1	0.001	FALSE
MW22-06	12/1/2023	1	0.001	FALSE
MW22-07	12/4/2023	1	0.001	FALSE
MW22-08	12/1/2023	1	0.001	FALSE
MW93-2	11/30/2023	1	0.001	FALSE
MW93-3	11/30/2023	1	0.001	FALSE
MW23-03	12/1/2023	1	0.001	FALSE
MW23-01	12/1/2023	1	0.001	FALSE
MW23-02	12/1/2023	1	0.001	FALSE
MW23-04	12/4/2023	1	0.001	FALSE
MW23-05	12/4/2023	1	0.001	FALSE
MW23-06	12/4/2023	1	0.001	FALSE

Concentrations (ppb)

Parameter: Thallium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 172

Total Non-Detect: 161

Percent Non-Detects: 93.6047%

Total Background Measurements: 10

There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	10	10 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/11/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	17	16 (94.1176%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			2/11/2020	ND<0.01	ND<0.01
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/16/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/13/2023	0.00031	0.00031
MW03-2	19	19 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			2/11/2020	ND<0.01	ND<0.01
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001

			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/11/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
MW22-02	10	1 (10%)	5/9/2022	0.000366	0.000366
			5/31/2022	0.000398	0.000398
			6/20/2022	0.000535	0.000535
			7/19/2022	0.000447	0.000447
			8/18/2022	0.000392	0.000392
			9/13/2022	0.000441	0.000441
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	0.000413	0.000413
			9/12/2023	0.000521	0.000521
			11/30/2023	0.000373	0.000373
MW22-03	10	10 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/19/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001
MW22-04	11	11 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001
MW22-05	12	12 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/11/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
MW22-06	11	11 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001

			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/11/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
MW22-07	10	10 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/19/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			12/4/2023	ND<0.001	ND<0.001
MW22-08	11	11 (100%)	5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
MW93-2	20	20 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			2/11/2020	ND<0.01	ND<0.01
			6/25/2020	ND<0.001	ND<0.001
			11/16/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001
MW93-3	19	19 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01

8/22/2018	ND<0.01	ND<0.01
9/19/2018	ND<0.01	ND<0.01
10/18/2018	ND<0.01	ND<0.01
11/20/2018	ND<0.01	ND<0.01
12/20/2018	ND<0.01	ND<0.01
11/21/2019	ND<0.001	ND<0.001
2/11/2020	ND<0.01	ND<0.01
6/25/2020	ND<0.001	ND<0.001
11/16/2020	ND<0.001	ND<0.001
5/26/2021	ND<0.001	ND<0.001
11/17/2021	ND<0.001	ND<0.001
4/8/2022	ND<0.001	ND<0.001
10/4/2022	ND<0.001	ND<0.001
5/3/2023	ND<0.001	ND<0.001
9/12/2023	ND<0.001	ND<0.001
11/30/2023	ND<0.001	ND<0.001

MW23-03	2	1 (50%)	9/13/2023	0.000201	0.000201
			12/1/2023	ND<0.001	ND<0.001

MW23-01	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001

MW23-02	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001

MW23-04	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/4/2023	ND<0.001	ND<0.001

MW23-05	2	2 (100%)	9/12/2023	ND<0.001	ND<0.001
			12/4/2023	ND<0.001	ND<0.001

MW23-06	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/4/2023	ND<0.001	ND<0.001

There is 1 unused location

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	19	19 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			2/11/2020	ND<0.01	ND<0.01
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			9/11/2023	ND<0.001	ND<0.001

12/4/2023

ND<0.001

ND<0.001

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Sulfate

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 83

Maximum Baseline Concentration = 5940

Confidence Level = 98.8%

False Positive Rate = 1.2%

Baseline Measurements	Date	Value
	12/15/1994	2000
	3/14/1995	1550
	6/21/1995	185
	12/14/1995	2367
	3/6/1996	2150
	4/25/1996	2000
	10/2/1996	3267
	12/10/1996	4000
	3/11/1997	1700
	4/15/1997	1500
	8/14/1997	3650
	12/4/1997	4300
	3/31/1998	2500
	6/23/1998	3250
	8/11/1998	3050
	12/8/1998	3050
	3/9/1999	3600
	6/8/1999	3150
	8/19/1999	1897
	12/14/1999	2500
	3/7/2000	3400
	6/23/2000	3400
	12/12/2000	3000
	3/27/2001	2133
	6/28/2001	2750
	9/10/2001	2650
	12/18/2001	2950
	3/19/2002	2967
	6/26/2002	3050
	9/18/2002	2900
	12/11/2002	2933
	3/13/2003	2900
	6/25/2003	2700
	9/26/2003	2767
	12/10/2003	2700
	3/9/2004	2550
	6/24/2004	2650
	9/15/2004	2700
	12/15/2004	2950
	3/16/2005	3200
	6/15/2005	2650
	9/21/2005	3200

12/21/2005	3200
3/15/2006	3000
6/21/2006	2700
12/20/2006	2500
2/21/2007	1900
6/12/2007	2400
12/17/2007	3100
6/11/2008	2350
12/3/2008	3300
12/15/2008	2400
6/17/2009	2300
12/9/2009	2200
6/17/2010	2900
12/22/2010	3460
6/29/2011	2630
12/7/2011	2520
6/6/2012	2360
12/12/2012	3240
6/19/2013	2510
12/11/2013	2460
6/11/2014	2790
12/3/2014	2940
6/17/2015	114
12/1/2015	3600
6/22/2016	2620
12/20/2016	3800
6/6/2017	3630
11/7/2017	4340
2/27/2018	3870
9/27/2018	3680
5/7/2019	3890
11/21/2019	12.4
6/25/2020	523
11/16/2020	5040
5/26/2021	5100
11/17/2021	5940
4/8/2022	4920
10/4/2022	5470
10/4/2022	5470
5/4/2023	4180
9/12/2023	5270

Date	Count	Mean	Significant
11/30/2023	1	5220	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Sulfate

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 4300

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	2460
	5/9/2022	3480
	5/31/2022	4120
	6/20/2022	4300
	7/19/2022	3450
	8/18/2022	3780
	9/13/2022	3680
	10/3/2022	4220
	5/4/2023	4280
	9/12/2023	3350

Date	Count	Mean	Significant
11/30/2023	1	3480	FALSE

Concentrations (ppb)

Parameter: Sulfate

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 350

Total Non-Detect: 8

Percent Non-Detects: 2.28571%

Total Background Measurements: 11

There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	11	0 (0%)	4/7/2022	353	353
			5/9/2022	355	355
			5/31/2022	385	385
			6/20/2022	357	357
			7/18/2022	326	326
			8/18/2022	320	320
			9/13/2022	324	324
			10/3/2022	309	309
			5/3/2023	341	341
			9/11/2023	305	305
			11/30/2023	282	282

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-2	44	0 (0%)	6/24/2004	72	72
			9/15/2004	32	32
			12/15/2004	54	54
			3/16/2005	78	78
			6/15/2005	23	23
			9/21/2005	80	80
			12/21/2005	72	72
			3/15/2006	30	30
			12/20/2006	34	34
			6/12/2007	68	68
			12/17/2007	130	130
			6/11/2008	67	67
			12/3/2008	210	210
			6/17/2009	84	84
			12/9/2009	80	80
			6/17/2010	106	106
			12/22/2010	98.9	98.9
			6/29/2011	101	101
			12/7/2011	98.8	98.8
			6/6/2012	107	107
12/12/2012	111	111			
6/19/2013	113	113			
12/11/2013	106	106			
6/11/2014	10.3	10.3			
12/3/2014	158	158			
6/17/2015	179	179			
12/1/2015	197	197			
6/22/2016	254	254			
12/20/2016	451	451			

			6/6/2017	332	332
			11/7/2017	516	516
			2/27/2018	468	468
			9/27/2018	426	426
			5/7/2019	29.6	29.6
			11/21/2019	394	394
			6/25/2020	409	409
			11/17/2020	377	377
			5/26/2021	421	421
			11/17/2021	457	457
			4/8/2022	371	371
			10/3/2022	363	363
			5/3/2023	371	371
			9/11/2023	325	325
			12/1/2023	292	292
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MW03-1	37	0 (0%)	6/24/2004	42	42
			9/15/2004	76	76
			12/15/2004	62	62
			3/16/2005	22	22
			6/15/2005	23	23
			9/21/2005	17	17
			12/20/2006	55	55
			6/12/2007	88	88
			12/17/2007	120	120
			6/11/2008	23	23
			12/3/2008	90	90
			6/17/2009	21	21
			12/9/2009	15	15
			6/17/2010	16	16
			12/22/2010	22.9	22.9
			6/29/2011	21.6	21.6
			12/7/2011	18.1	18.1
			6/6/2012	14.3	14.3
			6/19/2013	16.2	16.2
			12/11/2013	29.1	29.1
			6/11/2014	127	127
			12/3/2014	19.7	19.7
			6/17/2015	7.86	7.86
			12/1/2015	12.1	12.1
			6/22/2016	10.3	10.3
			12/20/2016	30.9	30.9
			6/6/2017	8.92	8.92
			11/7/2017	14.4	14.4
			2/27/2018	12.6	12.6
			5/7/2019	12.2	12.2
			11/21/2019	184	184
			6/25/2020	6.2	6.2
			11/17/2020	18.9	18.9
			5/26/2021	5.27	5.27
			11/16/2021	9.03	9.03
			4/8/2022	2.92	2.92
			5/3/2023	9.79	9.79
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MW22-02	11	0 (0%)	4/7/2022	2460	2460
			5/9/2022	3480	3480
			5/31/2022	4120	4120

			6/20/2022	4300	4300
			7/19/2022	3450	3450
			8/18/2022	3780	3780
			9/13/2022	3680	3680
			10/3/2022	4220	4220
			5/4/2023	4280	4280
			9/12/2023	3350	3350
			11/30/2023	3480	3480
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MW22-03	11	0 (0%)	4/7/2022	137	137
			5/9/2022	124	124
			5/31/2022	134	134
			6/20/2022	101	101
			7/19/2022	99.7	99.7
			8/18/2022	199	199
			9/13/2022	167	167
			10/4/2022	232	232
			5/4/2023	116	116
			9/12/2023	196	196
			11/30/2023	212	212
<hr/>					
MW22-04	12	0 (0%)	4/7/2022	86.2	86.2
			5/9/2022	308	308
			5/31/2022	275	275
			6/20/2022	263	263
			6/20/2022	260	260
			7/18/2022	211	211
			8/18/2022	194	194
			9/13/2022	162	162
			10/4/2022	139	139
			5/4/2023	246	246
			9/12/2023	201	201
			11/30/2023	106	106
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MW22-05	12	0 (0%)	4/7/2022	28.1	28.1
			5/9/2022	17.4	17.4
			5/31/2022	18.1	18.1
			6/20/2022	28.9	28.9
			7/18/2022	50.3	50.3
			8/18/2022	104	104
			9/13/2022	103	103
			10/3/2022	114	114
			5/3/2023	84	84
			5/3/2023	86	86
			9/11/2023	123	123
			12/1/2023	115	115
<hr/>					
MW22-06	12	0 (0%)	4/8/2022	291	291
			5/9/2022	263	263
			5/31/2022	300	300
			6/20/2022	298	298
			7/18/2022	282	282
			8/18/2022	261	261
			8/18/2022	275	275
			9/13/2022	252	252
			10/3/2022	239	239
			5/3/2023	297	297

			9/11/2023	237	237
			12/1/2023	266	266
MW22-07	11	0 (0%)	4/8/2022	160	160
			5/9/2022	87	87
			5/31/2022	77	77
			6/20/2022	68.5	68.5
			7/19/2022	224	224
			8/18/2022	324	324
			9/13/2022	343	343
			10/4/2022	349	349
			5/4/2023	131	131
			9/12/2023	285	285
			12/4/2023	345	345
MW22-08	12	0 (0%)	4/8/2022	273	273
			5/9/2022	253	253
			5/31/2022	275	275
			5/31/2022	276	276
			6/20/2022	233	233
			7/18/2022	226	226
			8/18/2022	225	225
			9/13/2022	205	205
			10/4/2022	220	220
			5/3/2023	316	316
			9/12/2023	266	266
			12/1/2023	215	215
MW93-2	84	0 (0%)	12/15/1994	2000	2000
			3/14/1995	1550	1550
			6/21/1995	185	185
			12/14/1995	2367	2367
			3/6/1996	2150	2150
			4/25/1996	2000	2000
			10/2/1996	3267	3267
			12/10/1996	4000	4000
			3/11/1997	1700	1700
			4/15/1997	1500	1500
			8/14/1997	3650	3650
			12/4/1997	4300	4300
			3/31/1998	2500	2500
			6/23/1998	3250	3250
			8/11/1998	3050	3050
			12/8/1998	3050	3050
			3/9/1999	3600	3600
			6/8/1999	3150	3150
			8/19/1999	1897	1897
			12/14/1999	2500	2500
			3/7/2000	3400	3400
			6/23/2000	3400	3400
			12/12/2000	3000	3000
			3/27/2001	2133	2133
			6/28/2001	2750	2750
			9/10/2001	2650	2650
			12/18/2001	2950	2950
			3/19/2002	2967	2967
			6/26/2002	3050	3050

9/18/2002	2900	2900
12/11/2002	2933	2933
3/13/2003	2900	2900
6/25/2003	2700	2700
9/26/2003	2767	2767
12/10/2003	2700	2700
3/9/2004	2550	2550
6/24/2004	2650	2650
9/15/2004	2700	2700
12/15/2004	2950	2950
3/16/2005	3200	3200
6/15/2005	2650	2650
9/21/2005	3200	3200
12/21/2005	3200	3200
3/15/2006	3000	3000
6/21/2006	2700	2700
12/20/2006	2500	2500
2/21/2007	1900	1900
6/12/2007	2400	2400
12/17/2007	3100	3100
6/11/2008	2350	2350
12/3/2008	3300	3300
12/15/2008	2400	2400
6/17/2009	2300	2300
12/9/2009	2200	2200
6/17/2010	2900	2900
12/22/2010	3460	3460
6/29/2011	2630	2630
12/7/2011	2520	2520
6/6/2012	2360	2360
12/12/2012	3240	3240
6/19/2013	2510	2510
12/11/2013	2460	2460
6/11/2014	2790	2790
12/3/2014	2940	2940
6/17/2015	114	114
12/1/2015	3600	3600
6/22/2016	2620	2620
12/20/2016	3800	3800
6/6/2017	3630	3630
11/7/2017	4340	4340
2/27/2018	3870	3870
9/27/2018	3680	3680
5/7/2019	3890	3890
11/21/2019	12.4	12.4
6/25/2020	523	523
11/16/2020	5040	5040
5/26/2021	5100	5100
11/17/2021	5940	5940
4/8/2022	4920	4920
10/4/2022	5470	5470
10/4/2022	5470	5470
5/4/2023	4180	4180
9/12/2023	5270	5270
11/30/2023	5220	5220

MW93-3	81	8 (9.87654%)	12/15/1994	ND<10	ND<10
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3/14/1995	ND<10	ND<10
6/21/1995	10	10
12/14/1995	ND<10	ND<10
3/6/1996	10	10
4/25/1996	ND<10	ND<10
10/2/1996	11	11
12/10/1996	10	10
3/11/1997	12	12
4/15/1997	15	15
8/14/1997	11	11
12/4/1997	8	8
3/31/1998	45	45
6/23/1998	4	4
8/11/1998	9	9
12/8/1998	2	2
3/9/1999	ND<10	ND<10
6/8/1999	3	3
8/19/1999	ND<10	ND<10
12/14/1999	ND<10	ND<10
3/7/2000	13	13
6/23/2000	14	14
12/12/2000	7	7
3/27/2001	3	3
6/28/2001	ND<10	ND<10
9/10/2001	20	20
12/18/2001	19	19
3/19/2002	8	8
6/26/2002	8	8
9/18/2002	8	8
12/11/2002	6	6
3/13/2003	18	18
6/25/2003	13	13
9/26/2003	16	16
12/10/2003	34	34
3/9/2004	130	130
6/24/2004	24	24
9/15/2004	17	17
12/15/2004	26	26
3/16/2005	29	29
6/15/2005	26	26
9/21/2005	19	19
12/21/2005	23	23
3/15/2006	19	19
6/21/2006	21	21
12/20/2006	42	42
6/12/2007	3	3
12/17/2007	28	28
6/11/2008	27	27
12/3/2008	11	11
6/17/2009	16	16
12/9/2009	12	12
6/17/2010	45	45
12/22/2010	25.8	25.8
6/29/2011	34.2	34.2
12/7/2011	37.4	37.4
6/6/2012	38.3	38.3
12/12/2012	25.8	25.8

			6/19/2013	61.6	61.6
			12/11/2013	26.5	26.5
			6/11/2014	56.2	56.2
			12/3/2014	36	36
			6/17/2015	109	109
			12/1/2015	81	81
			6/22/2016	58.5	58.5
			12/20/2016	66.6	66.6
			6/6/2017	18.2	18.2
			11/7/2017	80.3	80.3
			2/27/2018	64.2	64.2
			9/27/2018	75.8	75.8
			5/7/2019	105	105
			11/21/2019	4010	4010
			6/25/2020	328	328
			11/16/2020	258	258
			5/26/2021	226	226
			11/17/2021	286	286
			4/8/2022	202	202
			10/4/2022	217	217
			5/3/2023	176	176
			9/12/2023	175	175
			11/30/2023	179	179
MW23-01	2	0 (0%)	9/13/2023	678	678
			12/1/2023	640	640
MW23-02	2	0 (0%)	9/13/2023	237	237
			12/1/2023	227	227
MW23-03	2	0 (0%)	9/13/2023	60.3	60.3
			12/1/2023	55.5	55.5
MW23-04	2	0 (0%)	9/13/2023	11.5	11.5
			12/4/2023	10.7	10.7
MW23-05	2	0 (0%)	9/12/2023	195	195
			12/4/2023	158	158
MW23-06	2	0 (0%)	9/13/2023	392	392
			12/4/2023	403	403

There is 1 unused location

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	81	0 (0%)	12/15/1994	195	195
			3/14/1995	275	275
			6/21/1995	750	750
			12/14/1995	320	320
			3/6/1996	215	215
			4/25/1996	272	272
			10/2/1996	300	300
			12/10/1996	260	260
			3/11/1997	278	278
			4/15/1997	250	250
			8/14/1997	320	320

12/4/1997	360	360
3/31/1998	230	230
6/23/1998	500	500
8/11/1998	350	350
12/8/1998	270	270
3/9/1999	290	290
6/8/1999	408	408
8/19/1999	388	388
12/14/1999	310	310
3/7/2000	373	373
6/23/2000	410	410
12/12/2000	420	420
3/27/2001	350	350
6/28/2001	425	425
9/10/2001	390	390
12/18/2001	390	390
3/19/2002	425	425
6/26/2002	420	420
9/18/2002	517	517
12/11/2002	430	430
3/13/2003	450	450
6/25/2003	434	434
9/26/2003	460	460
12/10/2003	470	470
3/9/2004	444	444
6/24/2004	500	500
9/15/2004	475	475
12/15/2004	558	558
3/16/2005	880	880
6/15/2005	22	22
9/21/2005	467	467
12/21/2005	475	475
3/15/2006	375	375
6/21/2006	420	420
12/20/2006	330	330
6/12/2007	260	260
12/17/2007	300	300
6/11/2008	375	375
12/3/2008	340	340
6/17/2009	240	240
12/9/2009	160	160
6/17/2010	290	290
12/22/2010	304	304
6/29/2011	306	306
12/7/2011	255	255
6/6/2012	275	275
12/12/2012	301	301
6/19/2013	409	409
12/11/2013	306	306
6/11/2014	316	316
12/3/2014	292	292
6/17/2015	286	286
12/1/2015	299	299
6/22/2016	250	250
12/20/2016	275	275
6/6/2017	265	265
11/7/2017	281	281

2/27/2018	299	299
9/27/2018	305	305
5/7/2019	275	275
11/21/2019	299	299
6/25/2020	346	346
11/17/2020	346	346
5/26/2021	400	400
11/17/2021	504	504
4/8/2022	452	452
10/4/2022	446	446
5/4/2023	438	438
9/11/2023	512	512
12/4/2023	371	371

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-3

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 80

Maximum Baseline Concentration = 2830

Confidence Level = 98.8%

False Positive Rate = 1.2%

Baseline Measurements	Date	Value
	12/15/1994	1762
	3/14/1995	1490
	6/21/1995	1421
	12/14/1995	1534
	3/6/1996	1327
	4/25/1996	1570
	10/2/1996	1657
	12/10/1996	1427
	3/11/1997	1370
	4/15/1997	1244
	8/14/1997	1351
	12/4/1997	1140
	3/31/1998	1172
	6/23/1998	1214
	8/11/1998	1296
	12/8/1998	1177
	3/9/1999	1137
	6/8/1999	1180
	8/19/1999	1253
	12/14/1999	1088
	3/7/2000	1250
	6/23/2000	1070
	12/12/2000	1051
	3/27/2001	1149
	6/28/2001	1155
	9/10/2001	1250
	12/18/2001	1064
	3/19/2002	1240
	6/26/2002	787
	9/18/2002	1109
	12/11/2002	1125
	3/13/2003	1034
	6/25/2003	1111
	9/26/2003	1109
	12/10/2003	1173
	3/9/2004	881
	6/24/2004	1129
	9/15/2004	1068
	12/15/2004	972
	3/16/2005	1134
	6/15/2005	1080
	9/21/2005	1155

12/21/2005	1140
3/15/2006	1035
6/21/2006	1226
12/20/2006	1087
6/12/2007	1031
12/17/2007	910
6/11/2008	1023
12/3/2008	1073
6/17/2009	1073
12/9/2009	1038
6/17/2010	1108
12/22/2010	1090
6/29/2011	1178
12/7/2011	930
6/6/2012	1203
12/12/2012	1010
6/19/2013	1438
12/11/2013	1252
6/11/2014	1500
12/3/2014	1200
6/17/2015	1480
12/1/2015	1807
10/11/2016	2005
12/20/2016	2200
6/6/2017	1743
11/7/2017	2121
9/6/2018	2380
9/19/2018	2110
5/7/2019	2830
11/21/2019	2200
6/25/2020	2080
11/16/2020	2060
5/26/2021	2130
11/17/2021	2240
4/8/2022	2160
10/4/2022	2020
5/3/2023	1990
9/12/2023	2100

Date	Count	Mean	Significant
11/30/2023	1	2070	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 83

Maximum Baseline Concentration = 15700

Confidence Level = 98.8%

False Positive Rate = 1.2%

Baseline Measurements	Date	Value
	12/15/1994	7950
	3/14/1995	8217
	6/21/1995	9210
	12/14/1995	9000
	3/6/1996	8820
	4/25/1996	9310
	10/2/1996	9420
	12/10/1996	9590
	3/11/1997	9250
	4/15/1997	9690
	8/14/1997	10660
	12/4/1997	10240
	3/31/1998	9237
	6/23/1998	10400
	8/11/1998	11460
	12/8/1998	10280
	3/9/1999	9240
	6/8/1999	10850
	8/19/1999	10873
	12/14/1999	9690
	3/7/2000	9340
	6/23/2000	1034
	12/12/2000	9080
	3/27/2001	10260
	6/28/2001	11600
	9/10/2001	10700
	12/18/2001	10660
	3/19/2002	10197
	6/26/2002	10590
	9/18/2002	9690
	12/11/2002	10283
	3/13/2003	8920
	6/25/2003	10590
	9/26/2003	10693
	12/10/2003	10550
	3/9/2004	10620
	6/24/2004	10494
	9/15/2004	10340
	12/15/2004	9940
	3/16/2005	9690
	6/15/2005	10010
	9/21/2005	9660

12/21/2005	10000
3/15/2006	8650
6/21/2006	9830
12/20/2006	8310
2/21/2007	7660
6/12/2007	9590
12/17/2007	9100
6/11/2008	9600
12/3/2008	10520
12/15/2008	9070
6/17/2009	10690
12/9/2009	10050
6/17/2010	10020
12/22/2010	11230
6/29/2011	11110
12/7/2011	10770
6/6/2012	10490
12/12/2012	11460
6/19/2013	10500
12/11/2013	10650
6/11/2014	9940
12/3/2014	10900
6/17/2015	1270
12/1/2015	10560
6/22/2016	6710
12/20/2016	11400
6/6/2017	12590
11/7/2017	10.52
2/27/2018	10.9
9/19/2018	15700
5/7/2019	15700
11/21/2019	15400
6/25/2020	12200
11/16/2020	12700
5/26/2021	13300
11/17/2021	15000
4/8/2022	13700
10/4/2022	13500
10/4/2022	13500
5/4/2023	12500
9/12/2023	14200

Date	Count	Mean	Significant
11/30/2023	1	13900	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-08

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 1930

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/8/2022	1880
	5/9/2022	1790
	5/31/2022	1780
	5/31/2022	1820
	6/20/2022	1790
	7/18/2022	1760
	8/18/2022	1750
	9/13/2022	1780
	10/4/2022	1740
	5/3/2023	1850
	9/12/2023	1930

Date	Count	Mean	Significant
12/1/2023	1	1870	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-05

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 4180

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/7/2022	3840
	5/9/2022	3720
	5/31/2022	3740
	6/20/2022	3950
	7/18/2022	4050
	8/18/2022	4160
	9/13/2022	4180
	10/3/2022	4090
	5/3/2023	3780
	5/3/2023	3860
	9/11/2023	4000

Date	Count	Mean	Significant
12/1/2023	1	4050	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 7750

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	2400
	5/9/2022	3570
	5/31/2022	6040
	6/20/2022	7750
	7/19/2022	7700
	8/18/2022	3440
	9/13/2022	3360
	10/4/2022	1250
	5/4/2023	5910
	9/12/2023	3500

Date	Count	Mean	Significant
11/30/2023	1	3100	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 8520

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	6290
	5/9/2022	7590
	5/31/2022	8010
	6/20/2022	8320
	7/19/2022	7660
	8/18/2022	7840
	9/13/2022	8060
	10/3/2022	8120
	5/4/2023	8520
	9/12/2023	7690

Date	Count	Mean	Significant
11/30/2023	1	7750	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW03-2

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 44

Maximum Baseline Concentration = 3600

Confidence Level = 97.8%

False Positive Rate = 2.2%

Baseline Measurements	Date	Value
	6/24/2004	692
	9/15/2004	522
	12/15/2004	655
	3/16/2005	661
	6/15/2005	674
	9/21/2005	625
	12/21/2005	572
	3/15/2006	594
	6/21/2006	636
	12/20/2006	580
	6/12/2007	680
	12/17/2007	617
	6/11/2008	674
	12/3/2008	752
	6/17/2009	720
	12/9/2009	690
	6/17/2010	685
	12/22/2010	728
	6/29/2011	748
	12/7/2011	755
	6/6/2012	716
	12/12/2012	807
	6/19/2013	807
	12/11/2013	805
	6/11/2014	219
	12/3/2014	1540
	6/17/2015	965
	12/1/2015	967
	6/22/2016	1074
	12/20/2016	1454
	6/6/2017	1498
	11/7/2017	2042
	9/6/2018	2620
	9/19/2018	2880
	5/7/2019	2730
	11/21/2019	3600
	6/25/2020	2590
	11/17/2020	2390
	5/26/2021	2620
	11/17/2021	2700
	4/8/2022	115
	10/3/2022	2110

5/3/2023	2220
9/11/2023	1990

Date	Count	Mean	Significant
12/1/2023	1	1810	FALSE

Concentrations (ppb)

Parameter: Specific Conductance

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 351

Total Non-Detect: 0

Percent Non-Detects: 0%

Total Background Measurements: 11

There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	11	0 (0%)	4/7/2022	1690	1690
			5/9/2022	1620	1620
			5/31/2022	1510	1510
			6/20/2022	1420	1420
			7/18/2022	1440	1440
			8/18/2022	1420	1420
			9/13/2022	1450	1450
			10/3/2022	1320	1320
			5/3/2023	1440	1440
			9/11/2023	1470	1470
			11/30/2023	1400	1400

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	37	0 (0%)	6/24/2004	497	497
			9/15/2004	687	687
			12/15/2004	514	514
			3/16/2005	422	422
			6/15/2005	465	465
			9/21/2005	517	517
			12/20/2006	447	447
			6/12/2007	630	630
			12/17/2007	540	540
			6/11/2008	467	467
			12/3/2008	649	649
			6/17/2009	519	519
			12/9/2009	469	469
			6/17/2010	500	500
			12/22/2010	504	504
			6/29/2011	463	463
			12/7/2011	501	501
			6/6/2012	457	457
			6/19/2013	373	373
			12/11/2013	476	476
			6/11/2014	826	826
			12/3/2014	409	409
			6/17/2015	267	267
			12/1/2015	385	385
6/22/2016	320	320			
6/6/2017	198	198			
11/7/2017	444	444			
2/27/2018	186.1	186.1			
9/19/2018	573	573			

			11/21/2019	140	140
			6/25/2020	255	255
			11/17/2020	524	524
			5/26/2021	128	128
			11/16/2021	279	279
			4/8/2022	2440	2440
			5/3/2023	178	178
			9/13/2023	534	534
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MW03-2	45	0 (0%)	6/24/2004	692	692
			9/15/2004	522	522
			12/15/2004	655	655
			3/16/2005	661	661
			6/15/2005	674	674
			9/21/2005	625	625
			12/21/2005	572	572
			3/15/2006	594	594
			6/21/2006	636	636
			12/20/2006	580	580
			6/12/2007	680	680
			12/17/2007	617	617
			6/11/2008	674	674
			12/3/2008	752	752
			6/17/2009	720	720
			12/9/2009	690	690
			6/17/2010	685	685
			12/22/2010	728	728
			6/29/2011	748	748
			12/7/2011	755	755
			6/6/2012	716	716
			12/12/2012	807	807
			6/19/2013	807	807
			12/11/2013	805	805
			6/11/2014	219	219
			12/3/2014	1540	1540
			6/17/2015	965	965
			12/1/2015	967	967
			6/22/2016	1074	1074
			12/20/2016	1454	1454
			6/6/2017	1498	1498
			11/7/2017	2042	2042
			9/6/2018	2620	2620
			9/19/2018	2880	2880
			5/7/2019	2730	2730
			11/21/2019	3600	3600
			6/25/2020	2590	2590
			11/17/2020	2390	2390
			5/26/2021	2620	2620
			11/17/2021	2700	2700
			4/8/2022	115	115
			10/3/2022	2110	2110
			5/3/2023	2220	2220
			9/11/2023	1990	1990
			12/1/2023	1810	1810
<hr/>					
MW22-02	11	0 (0%)	4/7/2022	6290	6290
			5/9/2022	7590	7590

			5/31/2022	8010	8010
			6/20/2022	8320	8320
			7/19/2022	7660	7660
			8/18/2022	7840	7840
			9/13/2022	8060	8060
			10/3/2022	8120	8120
			5/4/2023	8520	8520
			9/12/2023	7690	7690
			11/30/2023	7750	7750
<hr/>					
MW22-03	11	0 (0%)	4/7/2022	2400	2400
			5/9/2022	3570	3570
			5/31/2022	6040	6040
			6/20/2022	7750	7750
			7/19/2022	7700	7700
			8/18/2022	3440	3440
			9/13/2022	3360	3360
			10/4/2022	1250	1250
			5/4/2023	5910	5910
			9/12/2023	3500	3500
			11/30/2023	3100	3100
<hr/>					
MW22-04	12	0 (0%)	4/7/2022	527	527
			5/9/2022	1440	1440
			5/31/2022	1030	1030
			6/20/2022	1030	1030
			6/20/2022	1020	1020
			7/18/2022	790	790
			8/18/2022	755	755
			9/13/2022	700	700
			10/4/2022	648	648
			5/4/2023	946	946
			9/12/2023	831	831
			11/30/2023	622	622
<hr/>					
MW22-05	12	0 (0%)	4/7/2022	3840	3840
			5/9/2022	3720	3720
			5/31/2022	3740	3740
			6/20/2022	3950	3950
			7/18/2022	4050	4050
			8/18/2022	4160	4160
			9/13/2022	4180	4180
			10/3/2022	4090	4090
			5/3/2023	3780	3780
			5/3/2023	3860	3860
			9/11/2023	4000	4000
			12/1/2023	4050	4050
<hr/>					
MW22-06	12	0 (0%)	4/8/2022	1500	1500
			5/9/2022	1460	1460
			5/31/2022	1450	1450
			6/20/2022	1460	1460
			7/18/2022	1440	1440
			8/18/2022	1350	1350
			8/18/2022	1380	1380
			9/13/2022	1350	1350
			10/3/2022	1310	1310

			5/3/2023	1450	1450
			9/11/2023	1420	1420
			12/1/2023	1390	1390
MW22-07	11	0 (0%)	4/8/2022	827	827
			5/9/2022	730	730
			5/31/2022	692	692
			6/20/2022	660	660
			7/19/2022	983	983
			8/18/2022	1130	1130
			9/13/2022	1190	1190
			10/4/2022	1230	1230
			5/4/2023	761	761
			9/12/2023	1150	1150
			12/4/2023	1270	1270
MW22-08	12	0 (0%)	4/8/2022	1880	1880
			5/9/2022	1790	1790
			5/31/2022	1780	1780
			5/31/2022	1820	1820
			6/20/2022	1790	1790
			7/18/2022	1760	1760
			8/18/2022	1750	1750
			9/13/2022	1780	1780
			10/4/2022	1740	1740
			5/3/2023	1850	1850
			9/12/2023	1930	1930
			12/1/2023	1870	1870
MW93-2	84	0 (0%)	12/15/1994	7950	7950
			3/14/1995	8217	8217
			6/21/1995	9210	9210
			12/14/1995	9000	9000
			3/6/1996	8820	8820
			4/25/1996	9310	9310
			10/2/1996	9420	9420
			12/10/1996	9590	9590
			3/11/1997	9250	9250
			4/15/1997	9690	9690
			8/14/1997	10660	10660
			12/4/1997	10240	10240
			3/31/1998	9237	9237
			6/23/1998	10400	10400
			8/11/1998	11460	11460
			12/8/1998	10280	10280
			3/9/1999	9240	9240
			6/8/1999	10850	10850
			8/19/1999	10873	10873
			12/14/1999	9690	9690
			3/7/2000	9340	9340
			6/23/2000	1034	1034
			12/12/2000	9080	9080
			3/27/2001	10260	10260
			6/28/2001	11600	11600
			9/10/2001	10700	10700
			12/18/2001	10660	10660
			3/19/2002	10197	10197

6/26/2002	10590	10590
9/18/2002	9690	9690
12/11/2002	10283	10283
3/13/2003	8920	8920
6/25/2003	10590	10590
9/26/2003	10693	10693
12/10/2003	10550	10550
3/9/2004	10620	10620
6/24/2004	10494	10494
9/15/2004	10340	10340
12/15/2004	9940	9940
3/16/2005	9690	9690
6/15/2005	10010	10010
9/21/2005	9660	9660
12/21/2005	10000	10000
3/15/2006	8650	8650
6/21/2006	9830	9830
12/20/2006	8310	8310
2/21/2007	7660	7660
6/12/2007	9590	9590
12/17/2007	9100	9100
6/11/2008	9600	9600
12/3/2008	10520	10520
12/15/2008	9070	9070
6/17/2009	10690	10690
12/9/2009	10050	10050
6/17/2010	10020	10020
12/22/2010	11230	11230
6/29/2011	11110	11110
12/7/2011	10770	10770
6/6/2012	10490	10490
12/12/2012	11460	11460
6/19/2013	10500	10500
12/11/2013	10650	10650
6/11/2014	9940	9940
12/3/2014	10900	10900
6/17/2015	1270	1270
12/1/2015	10560	10560
6/22/2016	6710	6710
12/20/2016	11400	11400
6/6/2017	12590	12590
11/7/2017	10.52	10.52
2/27/2018	10.9	10.9
9/19/2018	15700	15700
5/7/2019	15700	15700
11/21/2019	15400	15400
6/25/2020	12200	12200
11/16/2020	12700	12700
5/26/2021	13300	13300
11/17/2021	15000	15000
4/8/2022	13700	13700
10/4/2022	13500	13500
10/4/2022	13500	13500
5/4/2023	12500	12500
9/12/2023	14200	14200
11/30/2023	13900	13900

MW93-3

81

0 (0%)

12/15/1994	1762	1762
3/14/1995	1490	1490
6/21/1995	1421	1421
12/14/1995	1534	1534
3/6/1996	1327	1327
4/25/1996	1570	1570
10/2/1996	1657	1657
12/10/1996	1427	1427
3/11/1997	1370	1370
4/15/1997	1244	1244
8/14/1997	1351	1351
12/4/1997	1140	1140
3/31/1998	1172	1172
6/23/1998	1214	1214
8/11/1998	1296	1296
12/8/1998	1177	1177
3/9/1999	1137	1137
6/8/1999	1180	1180
8/19/1999	1253	1253
12/14/1999	1088	1088
3/7/2000	1250	1250
6/23/2000	1070	1070
12/12/2000	1051	1051
3/27/2001	1149	1149
6/28/2001	1155	1155
9/10/2001	1250	1250
12/18/2001	1064	1064
3/19/2002	1240	1240
6/26/2002	787	787
9/18/2002	1109	1109
12/11/2002	1125	1125
3/13/2003	1034	1034
6/25/2003	1111	1111
9/26/2003	1109	1109
12/10/2003	1173	1173
3/9/2004	881	881
6/24/2004	1129	1129
9/15/2004	1068	1068
12/15/2004	972	972
3/16/2005	1134	1134
6/15/2005	1080	1080
9/21/2005	1155	1155
12/21/2005	1140	1140
3/15/2006	1035	1035
6/21/2006	1226	1226
12/20/2006	1087	1087
6/12/2007	1031	1031
12/17/2007	910	910
6/11/2008	1023	1023
12/3/2008	1073	1073
6/17/2009	1073	1073
12/9/2009	1038	1038
6/17/2010	1108	1108
12/22/2010	1090	1090
6/29/2011	1178	1178
12/7/2011	930	930
6/6/2012	1203	1203

12/12/2012	1010	1010
6/19/2013	1438	1438
12/11/2013	1252	1252
6/11/2014	1500	1500
12/3/2014	1200	1200
6/17/2015	1480	1480
12/1/2015	1807	1807
10/11/2016	2005	2005
12/20/2016	2200	2200
6/6/2017	1743	1743
11/7/2017	2121	2121
9/6/2018	2380	2380
9/19/2018	2110	2110
5/7/2019	2830	2830
11/21/2019	2200	2200
6/25/2020	2080	2080
11/16/2020	2060	2060
5/26/2021	2130	2130
11/17/2021	2240	2240
4/8/2022	2160	2160
10/4/2022	2020	2020
5/3/2023	1990	1990
9/12/2023	2100	2100
11/30/2023	2070	2070

MW23-01	2	0 (0%)	9/13/2023	1960	1960
			12/1/2023	1830	1830

MW23-02	2	0 (0%)	9/13/2023	1650	1650
			12/1/2023	1590	1590

MW23-03	2	0 (0%)	9/13/2023	636	636
			12/1/2023	573	573

MW23-04	2	0 (0%)	9/13/2023	466	466
			12/4/2023	546	546

MW23-05	2	0 (0%)	9/12/2023	1270	1270
			12/4/2023	1090	1090

MW23-06	2	0 (0%)	9/13/2023	1170	1170
			12/4/2023	1150	1150

There is 1 unused location

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	80	0 (0%)	12/15/1994	1080	1080
			3/14/1995	1103	1103
			6/21/1995	1154	1154
			12/14/1995	1109	1109
			3/6/1996	1010	1010
			4/25/1996	1063	1063
			10/2/1996	1169	1169
			12/10/1996	1187	1187
			3/11/1997	1077	1077
			4/15/1997	1070	1070

8/14/1997	1217	1217
12/4/1997	1170	1170
3/31/1998	1092	1092
6/23/1998	1210	1210
8/11/1998	1273	1273
12/8/1998	1888	1888
3/9/1999	1080	1080
6/8/1999	1301	1301
8/19/1999	1301	1301
12/14/1999	1270	1270
3/7/2000	1290	1290
6/23/2000	1393	1393
12/12/2000	1309	1309
3/27/2001	1469	1469
6/28/2001	1560	1560
9/10/2001	1374	1374
12/18/2001	1374	1374
3/19/2002	1326	1326
6/26/2002	1516	1516
9/18/2002	1423	1423
12/11/2002	1515	1515
3/13/2003	1332	1332
6/25/2003	1608	1608
9/26/2003	1602	1602
12/10/2003	1620	1620
3/9/2004	1630	1630
6/24/2004	1620	1620
9/15/2004	1618	1618
12/15/2004	1586	1586
3/16/2005	1521	1521
6/15/2005	1531	1531
9/21/2005	1441	1441
12/21/2005	1030	1030
3/15/2006	1318	1318
6/21/2006	1547	1547
12/20/2006	1370	1370
6/12/2007	1466	1466
12/17/2007	1327	1327
6/11/2008	1334	1334
12/3/2008	1352	1352
6/17/2009	1301	1301
12/9/2009	1218	1218
6/17/2010	1179	1179
12/22/2010	1270	1270
6/29/2011	1275	1275
12/7/2011	1236	1236
6/6/2012	1185	1185
12/12/2012	1227	1227
6/19/2013	1366	1366
12/11/2013	1329	1329
6/11/2014	1200	1200
12/3/2014	1230	1230
6/17/2015	1210	1210
12/1/2015	1230	1230
6/22/2016	1185	1185
12/20/2016	1186	1186
6/6/2017	1289	1289

11/7/2017	1458	1458
2/27/2018	1235	1235
9/19/2018	1520	1520
11/21/2019	1510	1510
6/25/2020	1440	1440
11/17/2020	1460	1460
5/26/2021	1460	1460
11/17/2021	1680	1680
4/8/2022	1560	1560
10/4/2022	1500	1500
5/4/2023	1400	1400
9/11/2023	1480	1480
12/4/2023	1470	1470

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-3

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 62

Maximum Baseline Concentration = 449

Confidence Level = 98.4%

False Positive Rate = 1.6%

Baseline Measurements	Date	Value
	12/15/1994	330
	12/14/1995	219
	12/10/1996	248
	12/4/1997	201
	12/8/1998	199
	12/14/1999	208
	12/12/2000	230
	12/18/2001	172
	3/19/2002	222
	6/26/2002	189
	9/18/2002	163
	12/11/2002	216
	3/13/2003	230
	6/25/2003	190
	9/26/2003	229
	12/10/2003	231
	3/9/2004	30.8
	6/24/2004	150
	9/15/2004	200
	12/15/2004	186
	3/16/2005	196
	6/15/2005	170
	9/21/2005	239
	12/21/2005	180
	3/15/2006	180
	6/21/2006	227
	12/20/2006	211
	6/12/2007	159
	12/17/2007	194
	6/11/2008	195
	12/3/2008	190
	6/17/2009	173
	12/9/2009	202
	6/17/2010	202
	12/22/2010	216
	6/29/2011	158
	12/7/2011	218
	6/6/2012	201
	12/12/2012	168
	6/19/2013	235
	12/11/2013	234
	6/11/2014	258

12/3/2014	220
6/17/2015	280
12/1/2015	339
6/22/2016	449
10/11/2016	368
12/20/2016	337
6/6/2017	301
11/7/2017	368
2/27/2018	272
9/27/2018	372
5/7/2019	412
11/21/2019	403
6/25/2020	376
11/16/2020	374
5/26/2021	355
11/17/2021	368
4/8/2022	354
10/4/2022	381
5/3/2023	326
9/12/2023	369

Date	Count	Mean	Significant
11/30/2023	1	347	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 62

Maximum Baseline Concentration = 3140

Confidence Level = 98.4%

False Positive Rate = 1.6%

Baseline Measurements	Date	Value
	12/15/1994	2170
	12/14/1995	2220
	12/10/1996	2100
	12/4/1997	2440
	12/8/1998	2565
	12/14/1999	2980
	12/12/2000	2800
	3/19/2002	2500
	6/26/2002	2260
	9/18/2002	2140
	12/11/2002	2320
	3/13/2003	2600
	6/25/2003	1990
	9/26/2003	1820
	12/10/2003	1920
	3/9/2004	2050
	6/24/2004	2180
	9/15/2004	1800
	12/15/2004	2480
	3/16/2005	2490
	6/15/2005	2030
	9/21/2005	2520
	12/21/2005	2300
	3/15/2006	2720
	6/21/2006	2450
	12/20/2006	2170
	2/21/2007	2900
	6/12/2007	1980
	12/17/2007	2244
	6/11/2008	2649
	12/3/2008	2120
	6/17/2009	2230
	12/9/2009	2140
	6/17/2010	2100
	12/22/2010	2460
	6/29/2011	2190
	12/7/2011	2500
	6/6/2012	2060
	12/12/2012	2730
	6/19/2013	2230
	12/11/2013	2290
	6/11/2014	1940

12/3/2014	2730
6/17/2015	270
5/25/2016	1890
6/22/2016	2700
12/20/2016	2400
6/6/2017	2310
11/7/2017	2750
2/27/2018	2220
9/27/2018	2660
5/7/2019	2470
11/21/2019	2500
6/25/2020	2660
11/16/2020	2800
5/26/2021	2680
11/17/2021	2560
4/8/2022	2580
10/4/2022	2860
10/4/2022	3140
5/4/2023	2680
9/12/2023	2810

Date	Count	Mean	Significant
11/30/2023	1	2680	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-08

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 337

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/8/2022	309
	5/9/2022	316
	5/31/2022	304
	5/31/2022	294
	6/20/2022	323
	7/18/2022	291
	8/18/2022	296
	9/13/2022	316
	10/4/2022	328
	5/3/2023	308
	9/12/2023	337

Date	Count	Mean	Significant
12/1/2023	1	307	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-07

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 121

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/8/2022	81.6
	5/9/2022	90.4
	5/31/2022	78.3
	6/20/2022	69.5
	7/19/2022	88.7
	8/18/2022	100
	9/13/2022	102
	10/4/2022	121
	5/4/2023	86.5
	9/12/2023	117

Date	Count	Mean	Significant
12/4/2023	1	113	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-06

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 65.4

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/8/2022	58.8
	5/9/2022	61.6
	5/31/2022	61.2
	6/20/2022	65.4
	7/18/2022	58.4
	8/18/2022	58.8
	8/18/2022	58.6
	9/13/2022	57.8
	10/3/2022	62
	5/3/2023	64.8
	9/11/2023	64.2

Date	Count	Mean	Significant
12/1/2023	1	59.8	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-05

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 605

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/7/2022	403
	5/9/2022	413
	5/31/2022	380
	6/20/2022	443
	7/18/2022	466
	8/18/2022	529
	9/13/2022	539
	10/3/2022	605
	5/3/2023	478
	5/3/2023	434
	9/11/2023	548

Date	Count	Mean	Significant
12/1/2023	1	517	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-04

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 239

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/7/2022	27.9
	5/9/2022	239
	5/31/2022	121
	6/20/2022	136
	6/20/2022	136
	7/18/2022	69
	8/18/2022	59.2
	9/13/2022	58.6
	10/4/2022	51.9
	5/4/2023	98.6
	9/12/2023	81

Date	Count	Mean	Significant
11/30/2023	1	45.2	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 1240

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	303
	5/9/2022	495
	5/31/2022	856
	6/20/2022	1240
	7/19/2022	1090
	8/18/2022	455
	9/13/2022	473
	10/4/2022	189
	5/4/2023	825
	9/12/2023	478

Date	Count	Mean	Significant
11/30/2023	1	423	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 1840

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	1070
	5/9/2022	1600
	5/31/2022	1710
	6/20/2022	1840
	7/19/2022	1310
	8/18/2022	1540
	9/13/2022	1640
	10/3/2022	1780
	5/4/2023	1770
	9/12/2023	1580

Date	Count	Mean	Significant
11/30/2023	1	1430	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW03-2

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 44

Maximum Baseline Concentration = 169

Confidence Level = 97.8%

False Positive Rate = 2.2%

Baseline Measurements	Date	Value
	6/24/2004	47.4
	9/15/2004	8.7
	12/15/2004	51.3
	3/16/2005	47
	6/15/2005	42.8
	9/21/2005	52.6
	12/21/2005	46.5
	3/15/2006	50.4
	6/21/2006	44.9
	12/20/2006	50.5
	6/12/2007	47
	12/17/2007	50.2
	6/11/2008	33.8
	12/3/2008	54.4
	6/17/2009	48.2
	12/9/2009	47.3
	6/17/2010	52.9
	12/22/2010	51.7
	6/29/2011	51
	12/7/2011	60.1
	6/6/2012	52
	12/12/2012	61.3
	6/19/2013	57.3
	12/11/2013	54
	6/11/2014	9.78
	12/3/2014	68
	6/17/2015	66.3
	12/1/2015	63.8
	6/22/2016	76.8
	12/20/2016	80.2
	6/6/2017	96.8
	11/7/2017	120
	2/27/2018	104
	9/27/2018	128
	5/7/2019	138
	11/21/2019	166
	6/25/2020	165
	11/17/2020	162
	5/26/2021	166
	11/17/2021	169
	4/8/2022	161
	10/3/2022	168

5/3/2023	153
9/11/2023	165

Date	Count	Mean	Significant
12/1/2023	1	136	FALSE

Concentrations (ppb)

Parameter: Sodium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 313

Total Non-Detect: 0

Percent Non-Detects: 0%

Total Background Measurements: 11

There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	11	0 (0%)	4/7/2022	27.1	27.1
			5/9/2022	31.7	31.7
			5/31/2022	25.3	25.3
			6/20/2022	24.6	24.6
			7/18/2022	24.1	24.1
			8/18/2022	24.8	24.8
			9/13/2022	25.7	25.7
			10/3/2022	29.1	29.1
			5/3/2023	23.5	23.5
			9/11/2023	26.6	26.6
			11/30/2023	23.5	23.5

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	38	0 (0%)	6/24/2004	10.2	10.2
			9/15/2004	42	42
			12/15/2004	8.04	8.04
			3/16/2005	5.99	5.99
			6/15/2005	7.3	7.3
			9/21/2005	14.1	14.1
			12/20/2006	8	8
			6/12/2007	7.96	7.96
			12/17/2007	9.88	9.88
			6/11/2008	5.71	5.71
			12/3/2008	7.01	7.01
			6/17/2009	7.34	7.34
			12/9/2009	6.77	6.77
			6/17/2010	9.31	9.31
			12/22/2010	7.11	7.11
			6/29/2011	7.04	7.04
			12/7/2011	8.87	8.87
			6/6/2012	7.94	7.94
			6/19/2013	10.3	10.3
			12/11/2013	9.78	9.78
6/11/2014	55.9	55.9			
12/3/2014	9.8	9.8			
6/17/2015	9.7	9.7			
12/1/2015	12	12			
6/22/2016	8.59	8.59			
12/20/2016	7.94	7.94			
6/6/2017	6.56	6.56			
11/7/2017	17.6	17.6			
2/27/2018	16.8	16.8			

			5/7/2019	13.1	13.1
			11/21/2019	10.5	10.5
			6/25/2020	7.75	7.75
			11/17/2020	26.9	26.9
			5/26/2021	12.4	12.4
			11/16/2021	21	21
			4/8/2022	9.32	9.32
			5/3/2023	12.8	12.8
			9/13/2023	18	18
<hr/>					
MW03-2	45	0 (0%)	6/24/2004	47.4	47.4
			9/15/2004	8.7	8.7
			12/15/2004	51.3	51.3
			3/16/2005	47	47
			6/15/2005	42.8	42.8
			9/21/2005	52.6	52.6
			12/21/2005	46.5	46.5
			3/15/2006	50.4	50.4
			6/21/2006	44.9	44.9
			12/20/2006	50.5	50.5
			6/12/2007	47	47
			12/17/2007	50.2	50.2
			6/11/2008	33.8	33.8
			12/3/2008	54.4	54.4
			6/17/2009	48.2	48.2
			12/9/2009	47.3	47.3
			6/17/2010	52.9	52.9
			12/22/2010	51.7	51.7
			6/29/2011	51	51
			12/7/2011	60.1	60.1
			6/6/2012	52	52
			12/12/2012	61.3	61.3
			6/19/2013	57.3	57.3
			12/11/2013	54	54
			6/11/2014	9.78	9.78
			12/3/2014	68	68
			6/17/2015	66.3	66.3
			12/1/2015	63.8	63.8
			6/22/2016	76.8	76.8
			12/20/2016	80.2	80.2
			6/6/2017	96.8	96.8
			11/7/2017	120	120
			2/27/2018	104	104
			9/27/2018	128	128
			5/7/2019	138	138
			11/21/2019	166	166
			6/25/2020	165	165
			11/17/2020	162	162
			5/26/2021	166	166
			11/17/2021	169	169
			4/8/2022	161	161
			10/3/2022	168	168
			5/3/2023	153	153
			9/11/2023	165	165
			12/1/2023	136	136
<hr/>					
MW22-02	11	0 (0%)	4/7/2022	1070	1070

			5/9/2022	1600	1600
			5/31/2022	1710	1710
			6/20/2022	1840	1840
			7/19/2022	1310	1310
			8/18/2022	1540	1540
			9/13/2022	1640	1640
			10/3/2022	1780	1780
			5/4/2023	1770	1770
			9/12/2023	1580	1580
			11/30/2023	1430	1430
<hr/>					
MW22-03	11	0 (0%)	4/7/2022	303	303
			5/9/2022	495	495
			5/31/2022	856	856
			6/20/2022	1240	1240
			7/19/2022	1090	1090
			8/18/2022	455	455
			9/13/2022	473	473
			10/4/2022	189	189
			5/4/2023	825	825
			9/12/2023	478	478
			11/30/2023	423	423
<hr/>					
MW22-04	12	0 (0%)	4/7/2022	27.9	27.9
			5/9/2022	239	239
			5/31/2022	121	121
			6/20/2022	136	136
			6/20/2022	136	136
			7/18/2022	69	69
			8/18/2022	59.2	59.2
			9/13/2022	58.6	58.6
			10/4/2022	51.9	51.9
			5/4/2023	98.6	98.6
			9/12/2023	81	81
			11/30/2023	45.2	45.2
<hr/>					
MW22-05	12	0 (0%)	4/7/2022	403	403
			5/9/2022	413	413
			5/31/2022	380	380
			6/20/2022	443	443
			7/18/2022	466	466
			8/18/2022	529	529
			9/13/2022	539	539
			10/3/2022	605	605
			5/3/2023	478	478
			5/3/2023	434	434
			9/11/2023	548	548
			12/1/2023	517	517
<hr/>					
MW22-06	12	0 (0%)	4/8/2022	58.8	58.8
			5/9/2022	61.6	61.6
			5/31/2022	61.2	61.2
			6/20/2022	65.4	65.4
			7/18/2022	58.4	58.4
			8/18/2022	58.8	58.8
			8/18/2022	58.6	58.6
			9/13/2022	57.8	57.8

			10/3/2022	62	62
			5/3/2023	64.8	64.8
			9/11/2023	64.2	64.2
			12/1/2023	59.8	59.8
MW22-07	11	0 (0%)	4/8/2022	81.6	81.6
			5/9/2022	90.4	90.4
			5/31/2022	78.3	78.3
			6/20/2022	69.5	69.5
			7/19/2022	88.7	88.7
			8/18/2022	100	100
			9/13/2022	102	102
			10/4/2022	121	121
			5/4/2023	86.5	86.5
			9/12/2023	117	117
			12/4/2023	113	113
MW22-08	12	0 (0%)	4/8/2022	309	309
			5/9/2022	316	316
			5/31/2022	304	304
			5/31/2022	294	294
			6/20/2022	323	323
			7/18/2022	291	291
			8/18/2022	296	296
			9/13/2022	316	316
			10/4/2022	328	328
			5/3/2023	308	308
			9/12/2023	337	337
			12/1/2023	307	307
MW93-2	63	0 (0%)	12/15/1994	2170	2170
			12/14/1995	2220	2220
			12/10/1996	2100	2100
			12/4/1997	2440	2440
			12/8/1998	2565	2565
			12/14/1999	2980	2980
			12/12/2000	2800	2800
			3/19/2002	2500	2500
			6/26/2002	2260	2260
			9/18/2002	2140	2140
			12/11/2002	2320	2320
			3/13/2003	2600	2600
			6/25/2003	1990	1990
			9/26/2003	1820	1820
			12/10/2003	1920	1920
			3/9/2004	2050	2050
			6/24/2004	2180	2180
			9/15/2004	1800	1800
			12/15/2004	2480	2480
			3/16/2005	2490	2490
			6/15/2005	2030	2030
			9/21/2005	2520	2520
			12/21/2005	2300	2300
			3/15/2006	2720	2720
			6/21/2006	2450	2450
			12/20/2006	2170	2170
			2/21/2007	2900	2900

6/12/2007	1980	1980
12/17/2007	2244	2244
6/11/2008	2649	2649
12/3/2008	2120	2120
6/17/2009	2230	2230
12/9/2009	2140	2140
6/17/2010	2100	2100
12/22/2010	2460	2460
6/29/2011	2190	2190
12/7/2011	2500	2500
6/6/2012	2060	2060
12/12/2012	2730	2730
6/19/2013	2230	2230
12/11/2013	2290	2290
6/11/2014	1940	1940
12/3/2014	2730	2730
6/17/2015	270	270
5/25/2016	1890	1890
6/22/2016	2700	2700
12/20/2016	2400	2400
6/6/2017	2310	2310
11/7/2017	2750	2750
2/27/2018	2220	2220
9/27/2018	2660	2660
5/7/2019	2470	2470
11/21/2019	2500	2500
6/25/2020	2660	2660
11/16/2020	2800	2800
5/26/2021	2680	2680
11/17/2021	2560	2560
4/8/2022	2580	2580
10/4/2022	2860	2860
10/4/2022	3140	3140
5/4/2023	2680	2680
9/12/2023	2810	2810
11/30/2023	2680	2680

MW93-3	63	0 (0%)	12/15/1994	330	330
			12/14/1995	219	219
			12/10/1996	248	248
			12/4/1997	201	201
			12/8/1998	199	199
			12/14/1999	208	208
			12/12/2000	230	230
			12/18/2001	172	172
			3/19/2002	222	222
			6/26/2002	189	189
			9/18/2002	163	163
			12/11/2002	216	216
			3/13/2003	230	230
			6/25/2003	190	190
			9/26/2003	229	229
			12/10/2003	231	231
			3/9/2004	30.8	30.8
			6/24/2004	150	150
			9/15/2004	200	200
			12/15/2004	186	186

			3/16/2005	196	196
			6/15/2005	170	170
			9/21/2005	239	239
			12/21/2005	180	180
			3/15/2006	180	180
			6/21/2006	227	227
			12/20/2006	211	211
			6/12/2007	159	159
			12/17/2007	194	194
			6/11/2008	195	195
			12/3/2008	190	190
			6/17/2009	173	173
			12/9/2009	202	202
			6/17/2010	202	202
			12/22/2010	216	216
			6/29/2011	158	158
			12/7/2011	218	218
			6/6/2012	201	201
			12/12/2012	168	168
			6/19/2013	235	235
			12/11/2013	234	234
			6/11/2014	258	258
			12/3/2014	220	220
			6/17/2015	280	280
			12/1/2015	339	339
			6/22/2016	449	449
			10/11/2016	368	368
			12/20/2016	337	337
			6/6/2017	301	301
			11/7/2017	368	368
			2/27/2018	272	272
			9/27/2018	372	372
			5/7/2019	412	412
			11/21/2019	403	403
			6/25/2020	376	376
			11/16/2020	374	374
			5/26/2021	355	355
			11/17/2021	368	368
			4/8/2022	354	354
			10/4/2022	381	381
			5/3/2023	326	326
			9/12/2023	369	369
			11/30/2023	347	347
<hr/>					
MW23-01	2	0 (0%)	9/13/2023	168	168
			12/1/2023	138	138
<hr/>					
MW23-02	2	0 (0%)	9/13/2023	151	151
			12/1/2023	136	136
<hr/>					
MW23-03	2	0 (0%)	9/13/2023	18.9	18.9
			12/1/2023	15.4	15.4
<hr/>					
MW23-04	2	0 (0%)	9/13/2023	8.99	8.99
			12/4/2023	7.92	7.92
<hr/>					
MW23-05	2	0 (0%)	9/12/2023	59.4	59.4

			12/4/2023	46.6	46.6
MW23-06	2	0 (0%)	9/13/2023	136	136
			12/4/2023	114	114

There is 1 unused location

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	61	0 (0%)	12/15/1994	54.7	54.7
			12/14/1995	51.9	51.9
			12/10/1996	51.6	51.6
			12/4/1997	51.2	51.2
			12/8/1998	47	47
			12/14/1999	64.4	64.4
			12/12/2000	100	100
			3/19/2002	112	112
			6/26/2002	95	95
			9/18/2002	78	78
			12/11/2002	83	83
			3/13/2003	94	94
			6/25/2003	113	113
			9/26/2003	84.6	84.6
			12/10/2003	98.1	98.1
			3/9/2004	95.4	95.4
			6/24/2004	94.7	94.7
			9/15/2004	71	71
			12/15/2004	92.3	92.3
			3/16/2005	86.3	86.3
			6/15/2005	77.4	77.4
			9/21/2005	92.8	92.8
			12/21/2005	81.9	81.9
			3/15/2006	99.7	99.7
			6/21/2006	82	82
			12/20/2006	85.1	85.1
			6/12/2007	74.9	74.9
			12/17/2007	81.8	81.8
			6/11/2008	56.5	56.5
			12/3/2008	75.2	75.2
			6/17/2009	67.4	67.4
			12/9/2009	76.9	76.9
			6/17/2010	55	55
			12/22/2010	70.5	70.5
			6/29/2011	55.4	55.4
			12/7/2011	69.1	69.1
			6/6/2012	55.6	55.6
			12/12/2012	58.9	58.9
			6/19/2013	70	70
			12/11/2013	72.9	72.9
			6/11/2014	56.5	56.5
			12/3/2014	69.4	69.4
			6/17/2015	69.7	69.7
			12/1/2015	57.5	57.5
			6/22/2016	66.9	66.9
			12/20/2016	54.8	54.8
			6/6/2017	58.4	58.4
			11/7/2017	45.2	45.2

2/27/2018	59.6	59.6
9/27/2018	68.2	68.2
5/7/2019	124	124
11/21/2019	99.1	99.1
6/25/2020	130	130
11/17/2020	120	120
5/26/2021	112	112
11/17/2021	90.4	90.4
4/8/2022	84.8	84.8
10/4/2022	99.5	99.5
5/4/2023	104	104
9/11/2023	97.4	97.4
12/4/2023	92.4	92.4

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Selenium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 0.469

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	0.17
	5/9/2022	0.469
	5/31/2022	0.0864
	6/20/2022	0.0733
	7/19/2022	0.0275
	8/18/2022	0.032
	9/13/2022	0.0641
	10/3/2022	0.0918
	5/4/2023	0.0511
	9/12/2023	0.0544

Date	Count	Mean	Significant
11/30/2023	1	0.0565	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Selenium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 81.1429%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 11

Maximum Background Value = 0.002

Confidence Level = 57.9%

False Positive Rate = 42.1%

Location	Date	Count	Mean	Significant
MW03-1	9/13/2023	1	0.0016	FALSE
MW03-2	12/1/2023	1	0.002	FALSE
MW22-02	11/30/2023	1	0.0565	TRUE
MW93-2	11/30/2023	1	0.00137	FALSE
MW93-3	11/30/2023	1	0.002	FALSE
MW22-03	11/30/2023	1	0.002	FALSE
MW22-04	11/30/2023	1	0.002	FALSE
MW22-05	12/1/2023	1	0.002	FALSE
MW22-06	12/1/2023	1	0.002	FALSE
MW22-07	12/4/2023	1	0.002	FALSE
MW22-08	12/1/2023	1	0.002	FALSE
MW23-03	12/1/2023	1	0.00056	FALSE
MW23-01	12/1/2023	1	0.002	FALSE
MW23-02	12/1/2023	1	0.002	FALSE
MW23-04	12/4/2023	1	0.002	FALSE
MW23-05	12/4/2023	1	0.002	FALSE
MW23-06	12/4/2023	1	0.002	FALSE

Concentrations (ppb)

Parameter: Selenium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 175

Total Non-Detect: 142

Percent Non-Detects: 81.1429%

Total Background Measurements: 11

There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	11	11 (100%)	4/7/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/11/2023	ND<0.002	ND<0.002
			11/30/2023	ND<0.002	ND<0.002

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	16	13 (81.25%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	0.0144	0.0144
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			3/26/2019	ND<0.005	ND<0.005
			11/21/2019	ND<0.005	ND<0.005
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	0.000522	0.000522
			5/26/2021	ND<0.002	ND<0.002
			11/16/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/13/2023	0.0016	0.0016
MW03-2	18	18 (100%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.005	ND<0.005
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	ND<0.002	ND<0.002
5/26/2021	ND<0.002	ND<0.002			

			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/11/2023	ND<0.002	ND<0.002
			12/1/2023	ND<0.002	ND<0.002
MW22-02	11	0 (0%)	4/7/2022	0.17	0.17
			5/9/2022	0.469	0.469
			5/31/2022	0.0864	0.0864
			6/20/2022	0.0733	0.0733
			7/19/2022	0.0275	0.0275
			8/18/2022	0.032	0.032
			9/13/2022	0.0641	0.0641
			10/3/2022	0.0918	0.0918
			5/4/2023	0.0511	0.0511
			9/12/2023	0.0544	0.0544
			11/30/2023	0.0565	0.0565
MW93-2	19	10 (52.6316%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	0.00621	0.00621
			6/25/2020	0.00129	0.00129
			11/16/2020	0.000834	0.000834
			5/26/2021	0.000649	0.000649
			11/17/2021	0.00102	0.00102
			4/8/2022	0.00112	0.00112
			10/4/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
			5/4/2023	0.0011	0.0011
			9/12/2023	0.00137	0.00137
			11/30/2023	0.00137	0.00137
MW93-3	18	18 (100%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.005	ND<0.005
			6/25/2020	ND<0.002	ND<0.002
			11/16/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/12/2023	ND<0.002	ND<0.002
			11/30/2023	ND<0.002	ND<0.002

MW22-03	11	11 (100%)	4/7/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/19/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
			9/12/2023	ND<0.002	ND<0.002
			11/30/2023	ND<0.002	ND<0.002
			MW22-04	12	10 (83.3333%)
5/9/2022	0.000769	0.000769			
5/31/2022	ND<0.002	ND<0.002			
6/20/2022	0.000515	0.000515			
6/20/2022	ND<0.002	ND<0.002			
7/18/2022	ND<0.002	ND<0.002			
8/18/2022	ND<0.002	ND<0.002			
9/13/2022	ND<0.002	ND<0.002			
10/4/2022	ND<0.002	ND<0.002			
5/4/2023	ND<0.002	ND<0.002			
9/12/2023	ND<0.002	ND<0.002			
11/30/2023	ND<0.002	ND<0.002			
MW22-05	12	12 (100%)	4/7/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/11/2023	ND<0.002	ND<0.002
			12/1/2023	ND<0.002	ND<0.002
MW22-06	12	11 (91.6667%)	4/8/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	0.0018	0.0018
			9/11/2023	ND<0.002	ND<0.002
			12/1/2023	ND<0.002	ND<0.002
MW22-07	11	6 (54.5455%)	4/8/2022	0.00188	0.00188
			5/9/2022	0.00304	0.00304
			5/31/2022	0.00249	0.00249
			6/20/2022	0.0016	0.0016
			7/19/2022	ND<0.002	ND<0.002

			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/4/2023	0.00266	0.00266
			9/12/2023	ND<0.002	ND<0.002
			12/4/2023	ND<0.002	ND<0.002
MW22-08	12	12 (100%)	4/8/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/12/2023	ND<0.002	ND<0.002
			12/1/2023	ND<0.002	ND<0.002
MW23-03	2	0 (0%)	9/13/2023	0.0071	0.0071
			12/1/2023	0.00056	0.00056
MW23-01	2	2 (100%)	9/13/2023	ND<0.002	ND<0.002
			12/1/2023	ND<0.002	ND<0.002
MW23-02	2	2 (100%)	9/13/2023	ND<0.002	ND<0.002
			12/1/2023	ND<0.002	ND<0.002
MW23-04	2	2 (100%)	9/13/2023	ND<0.002	ND<0.002
			12/4/2023	ND<0.002	ND<0.002
MW23-05	2	2 (100%)	9/12/2023	ND<0.002	ND<0.002
			12/4/2023	ND<0.002	ND<0.002
MW23-06	2	2 (100%)	9/13/2023	ND<0.002	ND<0.002
			12/4/2023	ND<0.002	ND<0.002

There is 1 unused location

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	18	18 (100%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.005	ND<0.005
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002

5/4/2023	ND<0.002	ND<0.002
9/11/2023	ND<0.002	ND<0.002
12/4/2023	ND<0.002	ND<0.002

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Molybdenum

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 5.55556%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 18

Maximum Baseline Concentration = 1.97

Confidence Level = 94.7%

False Positive Rate = 5.3%

Baseline Measurements	Date	Value
	5/24/2018	1.4
	6/19/2018	1.18
	7/19/2018	ND<0.01
	8/22/2018	0.949
	9/19/2018	1.34
	10/18/2018	1.08
	11/20/2018	1.29
	12/20/2018	1.34
	11/21/2019	0.252
	6/25/2020	0.213
	11/16/2020	0.32
	5/26/2021	0.906
	11/17/2021	1.66
	4/8/2022	1.48
	10/4/2022	1.87
	10/4/2022	1.97
	5/4/2023	0.764
	9/12/2023	1.75

Date	Count	Mean	Significant
11/30/2023	1	1.85	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Molybdenum

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 0.634

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	0.113
	5/9/2022	0.372
	5/31/2022	0.48
	6/20/2022	0.634
	7/19/2022	0.424
	8/18/2022	0.32
	9/13/2022	0.216
	10/3/2022	0.186
	5/4/2023	0.573
	9/12/2023	0.321

Date	Count	Mean	Significant
11/30/2023	1	0.0945	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW03-1

Parameter: Molybdenum

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 66.6667%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 15

Maximum Baseline Concentration = 0.0167

Confidence Level = 93.8%

False Positive Rate = 6.2%

Baseline Measurements	Date	Value
	5/24/2018	ND<0.01
	6/19/2018	ND<0.01
	7/19/2018	ND<0.01
	8/22/2018	0.0167
	10/18/2018	ND<0.01
	11/20/2018	ND<0.01
	12/20/2018	ND<0.01
	3/26/2019	ND<0.01
	11/21/2019	ND<0.01
	6/25/2020	0.000992
	11/17/2020	0.00274
	5/26/2021	ND<0.005
	11/16/2021	0.00111
	4/8/2022	ND<0.005
	5/3/2023	0.000984

Date	Count	Mean	Significant
9/13/2023	1	0.00654	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Molybdenum

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 63.2124%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 29

Maximum Background Value = 0.01

Confidence Level = 78.4%

False Positive Rate = 21.6%

Location	Date	Count	Mean	Significant
MW03-1	9/13/2023	1	0.00654	FALSE
MW03-2	12/1/2023	1	0.005	FALSE
MW22-02	11/30/2023	1	0.0945	TRUE
MW22-03	11/30/2023	1	0.005	FALSE
MW22-04	11/30/2023	1	0.005	FALSE
MW22-05	12/1/2023	1	0.005	FALSE
MW22-06	12/1/2023	1	0.005	FALSE
MW22-07	12/4/2023	1	0.005	FALSE
MW22-08	12/1/2023	1	0.005	FALSE
MW93-2	11/30/2023	1	1.85	TRUE
MW93-3	11/30/2023	1	0.005	FALSE
MW23-03	12/1/2023	1	0.0441	TRUE
MW23-04	12/4/2023	1	0.00286	FALSE
MW23-05	12/4/2023	1	0.005	FALSE
MW23-06	12/4/2023	1	0.00141	FALSE
MW23-01	12/1/2023	1	0.005	FALSE
MW23-02	12/1/2023	1	0.005	FALSE

Concentrations (ppb)

Parameter: Molybdenum

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 193

Total Non-Detect: 122

Percent Non-Detects: 63.2124%

Total Background Measurements: 29

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	18	12 (66.6667%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	0.00105	0.00105
			11/17/2020	0.00113	0.00113
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/4/2022	0.00108	0.00108
			5/4/2023	0.00107	0.00107
			9/11/2023	0.000948	0.000948
12/4/2023	0.000871	0.000871			
MW22-01	11	8 (72.7273%)	4/7/2022	0.000852	0.000852
			5/9/2022	0.000873	0.000873
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	0.000939	0.000939
			5/3/2023	ND<0.005	ND<0.005
			9/11/2023	ND<0.005	ND<0.005
			11/30/2023	ND<0.005	ND<0.005

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	16	10 (62.5%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	0.0167	0.0167
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	0.000992	0.000992

			11/17/2020	0.00274	0.00274
			5/26/2021	ND<0.005	ND<0.005
			11/16/2021	0.00111	0.00111
			4/8/2022	ND<0.005	ND<0.005
			5/3/2023	0.000984	0.000984
			9/13/2023	0.00654	0.00654
MW03-2	18	18 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.005	ND<0.005
			11/17/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			9/11/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005
MW22-02	11	0 (0%)	4/7/2022	0.113	0.113
			5/9/2022	0.372	0.372
			5/31/2022	0.48	0.48
			6/20/2022	0.634	0.634
			7/19/2022	0.424	0.424
			8/18/2022	0.32	0.32
			9/13/2022	0.216	0.216
			10/3/2022	0.186	0.186
			5/4/2023	0.573	0.573
			9/12/2023	0.321	0.321
			11/30/2023	0.0945	0.0945
MW22-03	11	5 (45.4545%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	0.0014	0.0014
			6/20/2022	0.00226	0.00226
			7/19/2022	0.00222	0.00222
			8/18/2022	0.00117	0.00117
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	0.00103	0.00103
			9/12/2023	0.00176	0.00176
			11/30/2023	ND<0.005	ND<0.005
MW22-04	12	9 (75%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	0.00196	0.00196
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	0.000927	0.000927
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005

			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	0.00186	0.00186
			9/12/2023	ND<0.005	ND<0.005
			11/30/2023	ND<0.005	ND<0.005
MW22-05	12	11 (91.6667%)	4/7/2022	0.000894	0.000894
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			9/11/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005
MW22-06	12	12 (100%)	4/8/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			9/11/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005
MW22-07	11	11 (100%)	4/8/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/19/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
			9/12/2023	ND<0.005	ND<0.005
			12/4/2023	ND<0.005	ND<0.005
MW22-08	12	3 (25%)	4/8/2022	0.00224	0.00224
			5/9/2022	0.00208	0.00208
			5/31/2022	0.00172	0.00172
			5/31/2022	0.00149	0.00149
			6/20/2022	0.00111	0.00111
			7/18/2022	0.00126	0.00126
			8/18/2022	0.00105	0.00105
			9/13/2022	0.00109	0.00109
			10/4/2022	0.00111	0.00111
			5/3/2023	ND<0.005	ND<0.005
			9/12/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005

MW93-2	19	1 (5.26316%)	5/24/2018	1.4	1.4
			6/19/2018	1.18	1.18
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	0.949	0.949
			9/19/2018	1.34	1.34
			10/18/2018	1.08	1.08
			11/20/2018	1.29	1.29
			12/20/2018	1.34	1.34
			11/21/2019	0.252	0.252
			6/25/2020	0.213	0.213
			11/16/2020	0.32	0.32
			5/26/2021	0.906	0.906
			11/17/2021	1.66	1.66
			4/8/2022	1.48	1.48
			10/4/2022	1.87	1.87
			10/4/2022	1.97	1.97
			5/4/2023	0.764	0.764
9/12/2023	1.75	1.75			
11/30/2023	1.85	1.85			
MW93-3	18	17 (94.4444%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.005	ND<0.005
			11/16/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	0.000858	0.000858
10/4/2022	ND<0.005	ND<0.005			
5/3/2023	ND<0.005	ND<0.005			
9/12/2023	ND<0.005	ND<0.005			
11/30/2023	ND<0.005	ND<0.005			
MW23-03	2	0 (0%)	9/13/2023	0.0565	0.0565
			12/1/2023	0.0441	0.0441
MW23-04	2	0 (0%)	9/13/2023	0.00296	0.00296
			12/4/2023	0.00286	0.00286
MW23-05	2	1 (50%)	9/12/2023	0.000987	0.000987
			12/4/2023	ND<0.005	ND<0.005
MW23-06	2	0 (0%)	9/13/2023	0.00251	0.00251
			12/4/2023	0.00141	0.00141
MW23-01	2	2 (100%)	9/13/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005
MW23-02	2	2 (100%)	9/13/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-3

Parameter: Mercury

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 5.88235%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 17

Maximum Baseline Concentration = 0.00165

Confidence Level = 94.4%

False Positive Rate = 5.6%

Baseline Measurements	Date	Value
	5/24/2018	0.000787
	6/19/2018	0.000367
	7/19/2018	0.00033
	8/22/2018	0.000514
	9/19/2018	0.000428
	10/18/2018	0.000579
	11/20/2018	0.000577
	12/20/2018	0.000245
	11/21/2019	0.000861
	6/25/2020	ND<0.0002
	11/16/2020	0.00031
	5/26/2021	0.000348
	11/17/2021	0.000572
	4/8/2022	0.000945
	10/4/2022	0.00103
	5/3/2023	0.00165
	9/12/2023	0.000831

Date	Count	Mean	Significant
11/30/2023	1	0.000933	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW03-2

Parameter: Mercury

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 5.55556%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 18

Maximum Baseline Concentration = 0.00694

Confidence Level = 94.7%

False Positive Rate = 5.3%

Baseline Measurements	Date	Value
	5/24/2018	ND<5e-005
	6/19/2018	0.000224
	7/19/2018	0.000239
	8/22/2018	0.000255
	9/19/2018	0.000636
	10/18/2018	0.00101
	11/20/2018	0.000803
	12/20/2018	0.00107
	11/21/2019	0.00694
	2/14/2020	0.00171
	6/25/2020	0.000234
	11/17/2020	0.00086
	5/26/2021	0.00239
	11/17/2021	0.00215
	4/8/2022	0.00285
	10/3/2022	0.0014
	5/3/2023	0.00212
	9/11/2023	0.00114

Date	Count	Mean	Significant
12/1/2023	1	0.000679	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Mercury

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 80.6283%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 29

Maximum Background Value = 0.0002

Confidence Level = 78.4%

False Positive Rate = 21.6%

Location	Date	Count	Mean	Significant
MW93-2	11/30/2023	1	0.0002	FALSE
MW03-1	9/13/2023	1	0.0002	FALSE
MW03-2	12/1/2023	1	0.000679	TRUE
MW22-02	11/30/2023	1	0.0002	FALSE
MW22-03	11/30/2023	1	0.0002	FALSE
MW22-04	11/30/2023	1	0.0002	FALSE
MW22-05	12/1/2023	1	0.0002	FALSE
MW22-06	12/1/2023	1	0.0002	FALSE
MW22-07	12/4/2023	1	0.0002	FALSE
MW22-08	12/1/2023	1	0.0002	FALSE
MW93-3	11/30/2023	1	0.000933	TRUE
MW23-01	12/1/2023	1	0.0002	FALSE
MW23-02	12/1/2023	1	0.0002	FALSE
MW23-03	12/1/2023	1	0.0002	FALSE
MW23-04	12/4/2023	1	0.0002	FALSE
MW23-05	12/4/2023	1	0.0002	FALSE
MW23-06	12/4/2023	1	0.0002	FALSE

Concentrations (ppb)

Parameter: Mercury

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 191

Total Non-Detect: 154

Percent Non-Detects: 80.6283%

Total Background Measurements: 29

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	11	11 (100%)	4/7/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/3/2022	ND<0.0002	ND<0.0002
			5/3/2023	ND<0.0002	ND<0.0002
			9/11/2023	ND<0.0002	ND<0.0002
			11/30/2023	ND<0.0002	ND<0.0002
MW93-1	18	18 (100%)	5/24/2018	ND<5e-005	ND<5e-005
			6/19/2018	ND<5e-005	ND<5e-005
			7/19/2018	ND<5e-005	ND<5e-005
			8/22/2018	ND<5e-005	ND<5e-005
			9/19/2018	ND<5e-005	ND<5e-005
			10/18/2018	ND<5e-005	ND<5e-005
			11/20/2018	ND<5e-005	ND<5e-005
			12/20/2018	ND<5e-005	ND<5e-005
			11/21/2019	ND<5e-005	ND<5e-005
			6/25/2020	ND<0.0002	ND<0.0002
			11/17/2020	ND<0.0002	ND<0.0002
			5/26/2021	ND<0.0002	ND<0.0002
			11/17/2021	ND<0.0002	ND<0.0002
			4/8/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			5/4/2023	ND<0.0002	ND<0.0002
			9/11/2023	ND<0.0002	ND<0.0002
12/4/2023	ND<0.0002	ND<0.0002			

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	19	18 (94.7368%)	5/24/2018	ND<5e-005	ND<5e-005
			6/19/2018	ND<5e-005	ND<5e-005
			7/19/2018	ND<5e-005	ND<5e-005
			8/22/2018	ND<5e-005	ND<5e-005
			9/19/2018	ND<5e-005	ND<5e-005
			10/18/2018	0.000572	0.000572
			11/20/2018	ND<5e-005	ND<5e-005
			12/20/2018	ND<5e-005	ND<5e-005
			11/21/2019	ND<5e-005	ND<5e-005
			6/25/2020	ND<0.0002	ND<0.0002

			11/16/2020	ND<0.0002	ND<0.0002
			5/26/2021	ND<0.0002	ND<0.0002
			11/17/2021	ND<0.0002	ND<0.0002
			4/8/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			5/4/2023	ND<0.0002	ND<0.0002
			9/12/2023	ND<0.0002	ND<0.0002
			11/30/2023	ND<0.0002	ND<0.0002
MW03-1	16	15 (93.75%)	5/24/2018	ND<5e-005	ND<5e-005
			6/19/2018	ND<5e-005	ND<5e-005
			7/19/2018	ND<5e-005	ND<5e-005
			8/22/2018	0.000184	0.000184
			10/18/2018	ND<5e-005	ND<5e-005
			11/20/2018	ND<5e-005	ND<5e-005
			12/20/2018	ND<5e-005	ND<5e-005
			3/26/2019	ND<5e-005	ND<5e-005
			11/21/2019	ND<5e-005	ND<5e-005
			6/25/2020	ND<0.0002	ND<0.0002
			11/17/2020	ND<0.0002	ND<0.0002
			5/26/2021	ND<0.0002	ND<0.0002
			11/16/2021	ND<0.0002	ND<0.0002
			4/8/2022	ND<0.0002	ND<0.0002
			5/3/2023	ND<0.0002	ND<0.0002
			9/13/2023	ND<0.0002	ND<0.0002
MW03-2	19	1 (5.26316%)	5/24/2018	ND<5e-005	ND<5e-005
			6/19/2018	0.000224	0.000224
			7/19/2018	0.000239	0.000239
			8/22/2018	0.000255	0.000255
			9/19/2018	0.000636	0.000636
			10/18/2018	0.00101	0.00101
			11/20/2018	0.000803	0.000803
			12/20/2018	0.00107	0.00107
			11/21/2019	0.00694	0.00694
			2/14/2020	0.00171	0.00171
			6/25/2020	0.000234	0.000234
			11/17/2020	0.00086	0.00086
			5/26/2021	0.00239	0.00239
			11/17/2021	0.00215	0.00215
			4/8/2022	0.00285	0.00285
			10/3/2022	0.0014	0.0014
			5/3/2023	0.00212	0.00212
			9/11/2023	0.00114	0.00114
			12/1/2023	0.000679	0.000679
MW22-02	11	11 (100%)	4/7/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/3/2022	ND<0.0002	ND<0.0002
			5/4/2023	ND<0.0002	ND<0.0002
			9/12/2023	ND<0.0002	ND<0.0002

			11/30/2023	ND<0.0002	ND<0.0002
MW22-03	11	11 (100%)	4/7/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			5/4/2023	ND<0.0002	ND<0.0002
			9/12/2023	ND<0.0002	ND<0.0002
			11/30/2023	ND<0.0002	ND<0.0002
MW22-04	11	11 (100%)	4/7/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			5/4/2023	ND<0.0002	ND<0.0002
			9/12/2023	ND<0.0002	ND<0.0002
			11/30/2023	ND<0.0002	ND<0.0002
MW22-05	12	12 (100%)	4/7/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/3/2022	ND<0.0002	ND<0.0002
			5/3/2023	ND<0.0002	ND<0.0002
			5/3/2023	ND<0.0002	ND<0.0002
			9/11/2023	ND<0.0002	ND<0.0002
			12/1/2023	ND<0.0002	ND<0.0002
MW22-06	11	11 (100%)	4/8/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/3/2022	ND<0.0002	ND<0.0002
			5/3/2023	ND<0.0002	ND<0.0002
			9/11/2023	ND<0.0002	ND<0.0002
			12/1/2023	ND<0.0002	ND<0.0002
MW22-07	11	11 (100%)	4/8/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002

			9/13/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			5/4/2023	ND<0.0002	ND<0.0002
			9/12/2023	ND<0.0002	ND<0.0002
			12/4/2023	ND<0.0002	ND<0.0002
MW22-08	11	11 (100%)	4/8/2022	ND<0.0002	ND<0.0002
			5/9/2022	ND<0.0002	ND<0.0002
			5/31/2022	ND<0.0002	ND<0.0002
			6/20/2022	ND<0.0002	ND<0.0002
			7/18/2022	ND<0.0002	ND<0.0002
			8/18/2022	ND<0.0002	ND<0.0002
			9/13/2022	ND<0.0002	ND<0.0002
			10/4/2022	ND<0.0002	ND<0.0002
			5/3/2023	ND<0.0002	ND<0.0002
			9/12/2023	ND<0.0002	ND<0.0002
			12/1/2023	ND<0.0002	ND<0.0002
MW93-3	18	1 (5.55556%)	5/24/2018	0.000787	0.000787
			6/19/2018	0.000367	0.000367
			7/19/2018	0.00033	0.00033
			8/22/2018	0.000514	0.000514
			9/19/2018	0.000428	0.000428
			10/18/2018	0.000579	0.000579
			11/20/2018	0.000577	0.000577
			12/20/2018	0.000245	0.000245
			11/21/2019	0.000861	0.000861
			6/25/2020	ND<0.0002	ND<0.0002
			11/16/2020	0.00031	0.00031
			5/26/2021	0.000348	0.000348
			11/17/2021	0.000572	0.000572
			4/8/2022	0.000945	0.000945
			10/4/2022	0.00103	0.00103
			5/3/2023	0.00165	0.00165
			9/12/2023	0.000831	0.000831
			11/30/2023	0.000933	0.000933
MW23-01	2	2 (100%)	9/13/2023	ND<0.0002	ND<0.0002
			12/1/2023	ND<0.0002	ND<0.0002
MW23-02	2	2 (100%)	9/13/2023	ND<0.0002	ND<0.0002
			12/1/2023	ND<0.0002	ND<0.0002
MW23-03	2	2 (100%)	9/13/2023	ND<0.0002	ND<0.0002
			12/1/2023	ND<0.0002	ND<0.0002
MW23-04	2	2 (100%)	9/13/2023	ND<0.0002	ND<0.0002
			12/4/2023	ND<0.0002	ND<0.0002
MW23-05	2	2 (100%)	9/12/2023	ND<0.0002	ND<0.0002
			12/4/2023	ND<0.0002	ND<0.0002
MW23-06	2	2 (100%)	9/13/2023	ND<0.0002	ND<0.0002
			12/4/2023	ND<0.0002	ND<0.0002

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Welch's T-Test

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Background Obs.	29
Background Mean	0.0148041
Background Std Dev	0.00546504
Background Variance	2.98667e-005

Well Obs.	164
Well Mean	0.0456225
Well Std Dev	0.0634241
Well Variance	0.00402262

Individual Well Comparison for MW22-08

T Value = 7.20091

Degrees of Freedom = 11.2841

95% Critical Value = 1.79588

7.20091 >= 1.79588

Statistical Significance is Indicated at 95% Confidence Level

Mann-Kendall Trend Analysis

Parameter: Lithium

Location: MW22-08

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk	Positives	Negatives
0.0913	0.077	0.0143	1	0
ND<0.015	0.077	-0.062	1	1
ND<0.015	0.077	-0.062	1	2
0.0896	0.077	0.0126	2	2
0.0893	0.077	0.0123	3	2
0.0962	0.077	0.0192	4	2
0.097	0.077	0.02	5	2
0.0971	0.077	0.0201	6	2
0.0869	0.077	0.0099	7	2
0.0954	0.077	0.0184	8	2
0.106	0.077	0.029	9	2
ND<0.015	0.0913	-0.0763	9	3
ND<0.015	0.0913	-0.0763	9	4
0.0896	0.0913	-0.0017	9	5
0.0893	0.0913	-0.002	9	6
0.0962	0.0913	0.0049	10	6
0.097	0.0913	0.0057	11	6
0.0971	0.0913	0.0058	12	6
0.0869	0.0913	-0.0044	12	7
0.0954	0.0913	0.0041	13	7
0.106	0.0913	0.0147	14	7
ND<0.015	ND<0.015	Same Date	14	7
0.0896	ND<0.015	0.0746	15	7
0.0893	ND<0.015	0.0743	16	7
0.0962	ND<0.015	0.0812	17	7
0.097	ND<0.015	0.082	18	7
0.0971	ND<0.015	0.0821	19	7
0.0869	ND<0.015	0.0719	20	7
0.0954	ND<0.015	0.0804	21	7
0.106	ND<0.015	0.091	22	7
0.0896	ND<0.015	0.0746	23	7
0.0893	ND<0.015	0.0743	24	7
0.0962	ND<0.015	0.0812	25	7
0.097	ND<0.015	0.082	26	7
0.0971	ND<0.015	0.0821	27	7
0.0869	ND<0.015	0.0719	28	7
0.0954	ND<0.015	0.0804	29	7
0.106	ND<0.015	0.091	30	7
0.0893	0.0896	-0.0003	30	8
0.0962	0.0896	0.0066	31	8
0.097	0.0896	0.0074	32	8
0.0971	0.0896	0.0075	33	8
0.0869	0.0896	-0.0027	33	9

0.0954	0.0896	0.0058	34	9
0.106	0.0896	0.0164	35	9
0.0962	0.0893	0.0069	36	9
0.097	0.0893	0.0077	37	9
0.0971	0.0893	0.0078	38	9
0.0869	0.0893	-0.0024	38	10
0.0954	0.0893	0.0061	39	10
0.106	0.0893	0.0167	40	10
0.097	0.0962	0.0008	41	10
0.0971	0.0962	0.0009	42	10
0.0869	0.0962	-0.0093	42	11
0.0954	0.0962	-0.0008	42	12
0.106	0.0962	0.0098	43	12
0.0971	0.097	0.0001	44	12
0.0869	0.097	-0.0101	44	13
0.0954	0.097	-0.0016	44	14
0.106	0.097	0.009	45	14
0.0869	0.0971	-0.0102	45	15
0.0954	0.0971	-0.0017	45	16
0.106	0.0971	0.0089	46	16
0.0954	0.0869	0.0085	47	16
0.106	0.0869	0.0191	48	16
0.106	0.0954	0.0106	49	16

S Statistic = 49 - 16 = 33

Tied Group	Value	Members
1	0.015	2

Time Period	Observations
4/8/2022	1
5/9/2022	1
5/31/2022	2
6/20/2022	1
7/18/2022	1
8/18/2022	1
9/13/2022	1
10/4/2022	1
5/3/2023	1
9/12/2023	1
12/1/2023	1

There are 1 time periods with multiple data

A = 18
 B = 18
 C = 0
 D = 0
 E = 2
 F = 2
 a = 3828

b = 11880

c = 264

Group Variance = 210.682

Z-Score = 2.20463

Comparison Level at 95% confidence level = 1.65463 (upward trend)

2.20463 > 1.65463 indicating an upward trend

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-3

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 5.88235%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 17

Maximum Baseline Concentration = 0.187

Confidence Level = 94.4%

False Positive Rate = 5.6%

Baseline Measurements	Date	Value
	5/24/2018	0.178
	6/19/2018	0.162
	7/19/2018	ND<0.015
	8/22/2018	0.159
	9/19/2018	0.16
	10/18/2018	0.164
	11/20/2018	0.187
	12/20/2018	0.168
	11/21/2019	0.182
	6/25/2020	0.124
	11/16/2020	0.128
	5/26/2021	0.127
	11/17/2021	0.124
	4/8/2022	0.135
	10/4/2022	0.137
	5/3/2023	0.125
	9/12/2023	0.127

Date	Count	Mean	Significant
11/30/2023	1	0.133	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-08

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 18.1818%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 0.0971

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/8/2022	0.077
	5/9/2022	0.0913
	5/31/2022	ND<0.015
	5/31/2022	ND<0.015
	6/20/2022	0.0896
	7/18/2022	0.0893
	8/18/2022	0.0962
	9/13/2022	0.097
	10/4/2022	0.0971
	5/3/2023	0.0869
	9/12/2023	0.0954

Date	Count	Mean	Significant
12/1/2023	1	0.106	TRUE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 0.368

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	0.0597
	5/9/2022	0.149
	5/31/2022	0.271
	6/20/2022	0.367
	7/19/2022	0.368
	8/18/2022	0.128
	9/13/2022	0.114
	10/4/2022	0.0184
	5/4/2023	0.247
	9/12/2023	0.113

Date	Count	Mean	Significant
11/30/2023	1	0.0906	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 31.6062%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 29

Maximum Background Value = 0.037

Confidence Level = 78.4%

False Positive Rate = 21.6%

Location	Date	Count	Mean	Significant
MW93-2	11/30/2023	1	0.0111	FALSE
MW03-1	9/13/2023	1	0.015	FALSE
MW03-2	12/1/2023	1	0.015	FALSE
MW22-02	11/30/2023	1	0.0153	FALSE
MW22-03	11/30/2023	1	0.0906	TRUE
MW22-04	11/30/2023	1	0.00904	FALSE
MW22-05	12/1/2023	1	0.0103	FALSE
MW22-06	12/1/2023	1	0.00721	FALSE
MW22-07	12/4/2023	1	0.015	FALSE
MW22-08	12/1/2023	1	0.106	TRUE
MW93-3	11/30/2023	1	0.133	TRUE
MW23-01	12/1/2023	1	0.015	FALSE
MW23-02	12/1/2023	1	0.0132	FALSE
MW23-03	12/1/2023	1	0.00942	FALSE
MW23-04	12/4/2023	1	0.015	FALSE
MW23-05	12/4/2023	1	0.0442	TRUE
MW23-06	12/4/2023	1	0.015	FALSE

Concentrations (ppb)

Parameter: Lithium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 193

Total Non-Detect: 61

Percent Non-Detects: 31.6062%

Total Background Measurements: 29

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	11	2 (18.1818%)	4/7/2022	0.037	0.037
			5/9/2022	0.0177	0.0177
			5/31/2022	0.018	0.018
			6/20/2022	0.0132	0.0132
			7/18/2022	0.0136	0.0136
			8/18/2022	0.00837	0.00837
			9/13/2022	0.00773	0.00773
			10/3/2022	ND<0.015	ND<0.015
			5/3/2023	0.00691	0.00691
			9/11/2023	0.00987	0.00987
			11/30/2023	ND<0.015	ND<0.015
MW93-1	18	16 (88.8889%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.015	ND<0.015
			7/19/2018	ND<0.015	ND<0.015
			8/22/2018	ND<0.015	ND<0.015
			9/19/2018	ND<0.015	ND<0.015
			10/18/2018	ND<0.015	ND<0.015
			11/20/2018	ND<0.015	ND<0.015
			12/20/2018	ND<0.015	ND<0.015
			11/21/2019	ND<0.015	ND<0.015
			6/25/2020	ND<0.015	ND<0.015
			11/17/2020	ND<0.015	ND<0.015
			5/26/2021	ND<0.015	ND<0.015
			11/17/2021	ND<0.015	ND<0.015
			4/8/2022	0.0236	0.0236
			10/4/2022	ND<0.015	ND<0.015
			5/4/2023	ND<0.015	ND<0.015
			9/11/2023	0.00834	0.00834
12/4/2023	ND<0.015	ND<0.015			

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	19	8 (42.1053%)	5/24/2018	0.0302	0.0302
			6/19/2018	ND<0.015	ND<0.015
			7/19/2018	ND<0.015	ND<0.015
			8/22/2018	ND<0.015	ND<0.015
			9/19/2018	ND<0.015	ND<0.015
			10/18/2018	ND<0.015	ND<0.015
			11/20/2018	0.0185	0.0185
			12/20/2018	ND<0.015	ND<0.015
			11/21/2019	ND<0.015	ND<0.015
			6/25/2020	0.00976	0.00976

			11/16/2020	ND<0.015	ND<0.015
			5/26/2021	0.0136	0.0136
			11/17/2021	0.0115	0.0115
			4/8/2022	0.0304	0.0304
			10/4/2022	0.0146	0.0146
			10/4/2022	0.0151	0.0151
			5/4/2023	0.00993	0.00993
			9/12/2023	0.0184	0.0184
			11/30/2023	0.0111	0.0111
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MW03-1	16	15 (93.75%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.015	ND<0.015
			7/19/2018	ND<0.015	ND<0.015
			8/22/2018	0.0461	0.0461
			10/18/2018	ND<0.015	ND<0.015
			11/20/2018	ND<0.015	ND<0.015
			12/20/2018	ND<0.015	ND<0.015
			3/26/2019	ND<0.015	ND<0.015
			11/21/2019	ND<0.015	ND<0.015
			6/25/2020	ND<0.015	ND<0.015
			11/17/2020	ND<0.015	ND<0.015
			5/26/2021	ND<0.015	ND<0.015
			11/16/2021	ND<0.015	ND<0.015
			4/8/2022	ND<0.015	ND<0.015
			5/3/2023	ND<0.015	ND<0.015
			9/13/2023	ND<0.015	ND<0.015
<hr/>					
MW03-2	18	9 (50%)	5/24/2018	0.0173	0.0173
			6/19/2018	ND<0.015	ND<0.015
			7/19/2018	ND<0.015	ND<0.015
			8/22/2018	ND<0.015	ND<0.015
			9/19/2018	ND<0.015	ND<0.015
			10/18/2018	ND<0.015	ND<0.015
			11/20/2018	ND<0.015	ND<0.015
			12/20/2018	ND<0.015	ND<0.015
			11/21/2019	0.0154	0.0154
			6/25/2020	0.00813	0.00813
			11/17/2020	ND<0.015	ND<0.015
			5/26/2021	0.0112	0.0112
			11/17/2021	0.0144	0.0144
			4/8/2022	0.0346	0.0346
			10/3/2022	0.00861	0.00861
			5/3/2023	0.011	0.011
			9/11/2023	0.013	0.013
			12/1/2023	ND<0.015	ND<0.015
<hr/>					
MW22-02	11	0 (0%)	4/7/2022	0.0441	0.0441
			5/9/2022	0.0325	0.0325
			5/31/2022	0.0285	0.0285
			6/20/2022	0.0274	0.0274
			7/19/2022	0.0282	0.0282
			8/18/2022	0.0237	0.0237
			9/13/2022	0.023	0.023
			10/3/2022	0.0211	0.0211
			5/4/2023	0.0202	0.0202
			9/12/2023	0.0266	0.0266
			11/30/2023	0.0153	0.0153

MW22-03	11	0 (0%)	4/7/2022	0.0597	0.0597
			5/9/2022	0.149	0.149
			5/31/2022	0.271	0.271
			6/20/2022	0.367	0.367
			7/19/2022	0.368	0.368
			8/18/2022	0.128	0.128
			9/13/2022	0.114	0.114
			10/4/2022	0.0184	0.0184
			5/4/2023	0.247	0.247
			9/12/2023	0.113	0.113
			11/30/2023	0.0906	0.0906
MW22-04	12	0 (0%)	4/7/2022	0.0171	0.0171
			5/9/2022	0.018	0.018
			5/31/2022	0.0139	0.0139
			6/20/2022	0.0143	0.0143
			6/20/2022	0.014	0.014
			7/18/2022	0.0106	0.0106
			8/18/2022	0.0118	0.0118
			9/13/2022	0.00973	0.00973
			10/4/2022	0.0111	0.0111
			5/4/2023	0.00857	0.00857
			9/12/2023	0.0114	0.0114
11/30/2023	0.00904	0.00904			
MW22-05	12	0 (0%)	4/7/2022	0.033	0.033
			5/9/2022	0.0211	0.0211
			5/31/2022	0.0181	0.0181
			6/20/2022	0.0188	0.0188
			7/18/2022	0.0181	0.0181
			8/18/2022	0.0153	0.0153
			9/13/2022	0.0138	0.0138
			10/3/2022	0.0117	0.0117
			5/3/2023	0.0109	0.0109
			5/3/2023	0.0106	0.0106
			9/11/2023	0.0145	0.0145
12/1/2023	0.0103	0.0103			
MW22-06	12	1 (8.33333%)	4/8/2022	0.0284	0.0284
			5/9/2022	0.019	0.019
			5/31/2022	0.0158	0.0158
			6/20/2022	0.0169	0.0169
			7/18/2022	0.0147	0.0147
			8/18/2022	0.0108	0.0108
			8/18/2022	0.00802	0.00802
			9/13/2022	0.00796	0.00796
			10/3/2022	ND<0.015	ND<0.015
			5/3/2023	0.00809	0.00809
			9/11/2023	0.0114	0.0114
12/1/2023	0.00721	0.00721			
MW22-07	11	4 (36.3636%)	4/8/2022	0.0104	0.0104
			5/9/2022	0.00925	0.00925
			5/31/2022	0.086	0.086
			6/20/2022	ND<0.015	ND<0.015
			7/19/2022	0.00896	0.00896

			8/18/2022	0.00712	0.00712
			9/13/2022	0.00868	0.00868
			10/4/2022	ND<0.015	ND<0.015
			5/4/2023	ND<0.015	ND<0.015
			9/12/2023	0.00983	0.00983
			12/4/2023	ND<0.015	ND<0.015
MW22-08	12	2 (16.6667%)	4/8/2022	0.077	0.077
			5/9/2022	0.0913	0.0913
			5/31/2022	ND<0.015	ND<0.015
			5/31/2022	ND<0.015	ND<0.015
			6/20/2022	0.0896	0.0896
			7/18/2022	0.0893	0.0893
			8/18/2022	0.0962	0.0962
			9/13/2022	0.097	0.097
			10/4/2022	0.0971	0.0971
			5/3/2023	0.0869	0.0869
			9/12/2023	0.0954	0.0954
			12/1/2023	0.106	0.106
MW93-3	18	1 (5.55556%)	5/24/2018	0.178	0.178
			6/19/2018	0.162	0.162
			7/19/2018	ND<0.015	ND<0.015
			8/22/2018	0.159	0.159
			9/19/2018	0.16	0.16
			10/18/2018	0.164	0.164
			11/20/2018	0.187	0.187
			12/20/2018	0.168	0.168
			11/21/2019	0.182	0.182
			6/25/2020	0.124	0.124
			11/16/2020	0.128	0.128
			5/26/2021	0.127	0.127
			11/17/2021	0.124	0.124
			4/8/2022	0.135	0.135
			10/4/2022	0.137	0.137
			5/3/2023	0.125	0.125
			9/12/2023	0.127	0.127
			11/30/2023	0.133	0.133
MW23-01	2	1 (50%)	9/13/2023	0.0127	0.0127
			12/1/2023	ND<0.015	ND<0.015
MW23-02	2	0 (0%)	9/13/2023	0.0178	0.0178
			12/1/2023	0.0132	0.0132
MW23-03	2	0 (0%)	9/13/2023	0.0135	0.0135
			12/1/2023	0.00942	0.00942
MW23-04	2	1 (50%)	9/13/2023	0.00826	0.00826
			12/4/2023	ND<0.015	ND<0.015
MW23-05	2	0 (0%)	9/12/2023	0.0557	0.0557
			12/4/2023	0.0442	0.0442
MW23-06	2	1 (50%)	9/13/2023	0.00812	0.00812
			12/4/2023	ND<0.015	ND<0.015

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Concentrations (ppb)

Parameter: Lead

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 190

Total Non-Detect: 172

Percent Non-Detects: 90.5263%

Total Background Measurements: 29

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	11	10 (90.9091%)	4/7/2022	ND<0.002	ND<0.002
			5/9/2022	0.000601	0.000601
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/11/2023	ND<0.002	ND<0.002
			11/30/2023	ND<0.002	ND<0.002
MW93-1	18	17 (94.4444%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
			9/11/2023	0.00101	0.00101
			10/4/2023	ND<0.002	ND<0.002
12/4/2023	ND<0.002	ND<0.002			

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	19	19 (100%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.002	ND<0.002

			11/16/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
			9/12/2023	ND<0.002	ND<0.002
			10/4/2023	ND<0.002	ND<0.002
			10/4/2023	ND<0.002	ND<0.002
			11/30/2023	ND<0.002	ND<0.002
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MW03-1	16	12 (75%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	0.124	0.124
			8/22/2018	0.143	0.143
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	0.00791	0.00791
			3/26/2019	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/16/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/13/2023	0.00462	0.00462
<hr/>					
MW03-2	18	17 (94.4444%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/11/2023	0.00124	0.00124
			10/4/2023	ND<0.002	ND<0.002
			12/1/2023	ND<0.002	ND<0.002
<hr/>					
MW22-02	11	11 (100%)	4/7/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
			9/12/2023	ND<0.002	ND<0.002
			11/30/2023	ND<0.002	ND<0.002

MW22-03	11	10 (90.9091%)	4/7/2022	ND<0.002	ND<0.002			
			5/9/2022	ND<0.002	ND<0.002			
			5/31/2022	ND<0.002	ND<0.002			
			6/20/2022	ND<0.002	ND<0.002			
			7/18/2022	ND<0.002	ND<0.002			
			8/18/2022	ND<0.002	ND<0.002			
			9/13/2022	ND<0.002	ND<0.002			
			10/3/2022	ND<0.002	ND<0.002			
			5/4/2023	0.000561	0.000561			
			9/12/2023	ND<0.002	ND<0.002			
			11/30/2023	ND<0.002	ND<0.002			
			MW22-04	11	11 (100%)	4/7/2022	ND<0.002	ND<0.002
						5/9/2022	ND<0.002	ND<0.002
5/31/2022	ND<0.002	ND<0.002						
6/20/2022	ND<0.002	ND<0.002						
7/18/2022	ND<0.002	ND<0.002						
8/18/2022	ND<0.002	ND<0.002						
9/13/2022	ND<0.002	ND<0.002						
10/3/2022	ND<0.002	ND<0.002						
5/4/2023	ND<0.002	ND<0.002						
9/12/2023	ND<0.002	ND<0.002						
11/30/2023	ND<0.002	ND<0.002						
MW22-05	12	10 (83.3333%)				4/7/2022	0.0012	0.0012
						5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002			
			6/20/2022	ND<0.002	ND<0.002			
			7/18/2022	ND<0.002	ND<0.002			
			8/18/2022	ND<0.002	ND<0.002			
			9/13/2022	ND<0.002	ND<0.002			
			10/3/2022	ND<0.002	ND<0.002			
			5/3/2023	ND<0.002	ND<0.002			
			5/3/2023	ND<0.002	ND<0.002			
			9/11/2023	0.000713	0.000713			
			12/1/2023	ND<0.002	ND<0.002			
			MW22-06	11	11 (100%)	4/8/2022	ND<0.002	ND<0.002
5/9/2022	ND<0.002	ND<0.002						
5/31/2022	ND<0.002	ND<0.002						
6/20/2022	ND<0.002	ND<0.002						
7/18/2022	ND<0.002	ND<0.002						
8/18/2022	ND<0.002	ND<0.002						
9/13/2022	ND<0.002	ND<0.002						
10/3/2022	ND<0.002	ND<0.002						
5/3/2023	ND<0.002	ND<0.002						
9/11/2023	ND<0.002	ND<0.002						
12/1/2023	ND<0.002	ND<0.002						
MW22-07	11	10 (90.9091%)				4/8/2022	ND<0.002	ND<0.002
						5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002			
			6/20/2022	ND<0.002	ND<0.002			
			7/18/2022	ND<0.002	ND<0.002			
			8/18/2022	ND<0.002	ND<0.002			
			9/13/2022	ND<0.002	ND<0.002			

			10/3/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
			9/12/2023	0.00124	0.00124
			12/4/2023	ND<0.002	ND<0.002
MW22-08	11	10 (90.9091%)	4/8/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/12/2023	0.000568	0.000568
			12/1/2023	ND<0.002	ND<0.002
MW93-3	18	18 (100%)	5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.002	ND<0.002
			11/16/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/12/2023	ND<0.002	ND<0.002
			10/4/2023	ND<0.002	ND<0.002
			11/30/2023	ND<0.002	ND<0.002
MW23-01	2	1 (50%)	9/13/2023	0.0009	0.0009
			12/1/2023	ND<0.002	ND<0.002
MW23-02	2	1 (50%)	9/13/2023	0.00105	0.00105
			12/1/2023	ND<0.002	ND<0.002
MW23-03	2	1 (50%)	9/13/2023	0.00061	0.00061
			12/1/2023	ND<0.002	ND<0.002
MW23-04	2	1 (50%)	9/13/2023	0.000688	0.000688
			12/4/2023	ND<0.002	ND<0.002
MW23-05	2	1 (50%)	9/12/2023	0.00116	0.00116
			12/4/2023	ND<0.002	ND<0.002
MW23-06	2	1 (50%)	9/13/2023	0.000571	0.000571
			12/4/2023	ND<0.002	ND<0.002

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Fluoride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 70%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 0.75

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	ND<0.15
	5/9/2022	ND<0.15
	5/31/2022	0.0735
	6/20/2022	ND<0.15
	7/19/2022	0.083
	8/18/2022	ND<0.15
	9/13/2022	0.0648
	10/4/2022	ND<0.15
	5/4/2023	ND<0.75
	9/12/2023	ND<0.15

Date	Count	Mean	Significant
11/30/2023	1	0.15	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Fluoride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 70%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 1.5

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	ND<1.5
	5/9/2022	0.397
	5/31/2022	0.678
	6/20/2022	ND<1.5
	7/19/2022	ND<1.5
	8/18/2022	0.232
	9/13/2022	ND<1.5
	10/3/2022	ND<1.5
	5/4/2023	ND<1.5
	9/12/2023	ND<1.5

Date	Count	Mean	Significant
11/30/2023	1	1.5	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Fluoride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 10.3448%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 29

Maximum Baseline Concentration = 3

Confidence Level = 96.7%

False Positive Rate = 3.3%

Baseline Measurements	Date	Value
	10/11/2016	0.81
	12/20/2016	1.06
	2/16/2017	0.68
	3/8/2017	0.79
	5/9/2017	0.7
	6/6/2017	0.68
	8/22/2017	0.35
	9/22/2017	0.51
	11/7/2017	0.12
	2/27/2018	ND<0.1
	5/24/2018	0.937
	6/19/2018	0.991
	7/19/2018	0.906
	8/22/2018	0.865
	9/19/2018	1
	10/18/2018	0.698
	11/20/2018	1.02
	12/20/2018	0.685
	5/7/2019	0.367
	11/21/2019	0.554
	6/25/2020	0.313
	11/16/2020	0.705
	5/26/2021	0.287
	11/17/2021	0.793
	4/8/2022	0.375
	10/4/2022	ND<3
	10/4/2022	ND<3
	5/4/2023	0.878
	9/12/2023	0.676

Date	Count	Mean	Significant
11/30/2023	1	1.5	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Fluoride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 28.5141%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 41

Maximum Background Value = 0.245

Confidence Level = 83.7%

False Positive Rate = 16.3%

Location	Date	Count	Mean	Significant
MW93-2	11/30/2023	1	1.5	TRUE
MW03-1	5/3/2023	1	0.0937	FALSE
MW03-2	12/1/2023	1	0.15	FALSE
MW22-02	11/30/2023	1	1.5	TRUE
MW22-03	11/30/2023	1	0.15	FALSE
MW22-04	11/30/2023	1	0.0998	FALSE
MW22-05	12/1/2023	1	0.117	FALSE
MW22-06	12/1/2023	1	0.15	FALSE
MW22-07	12/4/2023	1	0.143	FALSE
MW22-08	12/1/2023	1	0.206	FALSE
MW93-3	11/30/2023	1	0.222	FALSE
MW23-01	12/1/2023	1	0.11	FALSE
MW23-02	12/1/2023	1	0.15	FALSE
MW23-03	12/1/2023	1	0.392	TRUE
MW23-04	12/4/2023	1	0.187	FALSE
MW23-05	12/4/2023	1	0.15	FALSE
MW23-06	12/4/2023	1	0.2	FALSE

Concentrations (ppb)

Parameter: Fluoride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 249

Total Non-Detect: 71

Percent Non-Detects: 28.5141%

Total Background Measurements: 41

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	11	0 (0%)	4/7/2022	0.112	0.112
			5/9/2022	0.163	0.163
			5/31/2022	0.169	0.169
			6/20/2022	0.17	0.17
			7/18/2022	0.163	0.163
			8/18/2022	0.176	0.176
			9/13/2022	0.169	0.169
			10/3/2022	0.187	0.187
			5/3/2023	0.164	0.164
			9/11/2023	0.179	0.179
			11/30/2023	0.165	0.165
MW93-1	30	10 (33.3333%)	10/11/2016	0.1	0.1
			12/20/2016	0.2	0.2
			2/16/2017	0.16	0.16
			3/8/2017	0.19	0.19
			5/9/2017	0.13	0.13
			6/6/2017	0.14	0.14
			8/22/2017	0.1	0.1
			9/22/2017	0.11	0.11
			11/7/2017	0.12	0.12
			2/27/2018	0.16	0.16
			5/24/2018	ND<0.2	ND<0.2
			6/19/2018	ND<0.2	ND<0.2
			7/19/2018	ND<0.2	ND<0.2
			8/22/2018	ND<0.2	ND<0.2
			9/19/2018	0.243	0.243
			9/27/2018	ND<0.1	ND<0.1
			10/18/2018	ND<0.2	ND<0.2
			11/20/2018	ND<0.2	ND<0.2
			12/20/2018	ND<0.2	ND<0.2
			5/7/2019	ND<0.2	ND<0.2
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	0.168	0.168
			11/17/2020	0.183	0.183
			5/26/2021	0.245	0.245
			11/17/2021	0.168	0.168
			4/8/2022	0.194	0.194
			10/4/2022	0.162	0.162
5/4/2023	0.239	0.239			
9/11/2023	0.145	0.145			
12/4/2023	0.157	0.157			

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	30	4 (13.3333%)	10/11/2016	0.81	0.81
			12/20/2016	1.06	1.06
			2/16/2017	0.68	0.68
			3/8/2017	0.79	0.79
			5/9/2017	0.7	0.7
			6/6/2017	0.68	0.68
			8/22/2017	0.35	0.35
			9/22/2017	0.51	0.51
			11/7/2017	0.12	0.12
			2/27/2018	ND<0.1	ND<0.1
			5/24/2018	0.937	0.937
			6/19/2018	0.991	0.991
			7/19/2018	0.906	0.906
			8/22/2018	0.865	0.865
			9/19/2018	1	1
			10/18/2018	0.698	0.698
			11/20/2018	1.02	1.02
			12/20/2018	0.685	0.685
			5/7/2019	0.367	0.367
			11/21/2019	0.554	0.554
			6/25/2020	0.313	0.313
			11/16/2020	0.705	0.705
			5/26/2021	0.287	0.287
			11/17/2021	0.793	0.793
			4/8/2022	0.375	0.375
			10/4/2022	ND<3	ND<3
			10/4/2022	ND<3	ND<3
			5/4/2023	0.878	0.878
9/12/2023	0.676	0.676			
11/30/2023	ND<1.5	ND<1.5			
MW03-1	27	14 (51.8519%)	10/11/2016	ND<0.1	ND<0.1
			12/20/2016	0.18	0.18
			2/16/2017	0.13	0.13
			3/8/2017	0.19	0.19
			5/9/2017	0.1	0.1
			6/6/2017	ND<0.1	ND<0.1
			8/22/2017	0.1	0.1
			9/22/2017	0.1	0.1
			11/7/2017	0.12	0.12
			2/27/2018	0.1	0.1
			5/24/2018	ND<0.2	ND<0.2
			6/19/2018	ND<0.2	ND<0.2
			7/19/2018	ND<0.2	ND<0.2
			8/22/2018	ND<0.1	ND<0.1
			9/19/2018	0.21	0.21
			10/18/2018	ND<0.2	ND<0.2
			11/20/2018	ND<0.2	ND<0.2
			12/20/2018	ND<0.2	ND<0.2
			3/26/2019	ND<0.2	ND<0.2
			5/7/2019	ND<0.2	ND<0.2
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	0.0846	0.0846
			11/17/2020	0.109	0.109
			5/26/2021	ND<0.15	ND<0.15

			11/16/2021	0.134	0.134
			4/8/2022	ND<0.15	ND<0.15
			5/3/2023	0.0937	0.0937
MW03-2	29	15 (51.7241%)	10/11/2016	ND<0.1	ND<0.1
			12/20/2016	0.14	0.14
			2/16/2017	0.12	0.12
			3/8/2017	0.14	0.14
			5/9/2017	ND<0.1	ND<0.1
			6/6/2017	0.1	0.1
			8/22/2017	ND<0.1	ND<0.1
			9/22/2017	ND<0.1	ND<0.1
			11/7/2017	0.1	0.1
			2/27/2018	0.12	0.12
			5/24/2018	ND<0.2	ND<0.2
			6/19/2018	ND<0.2	ND<0.2
			7/19/2018	ND<0.2	ND<0.2
			8/22/2018	ND<0.2	ND<0.2
			9/19/2018	0.21	0.21
			10/18/2018	ND<0.2	ND<0.2
			11/20/2018	ND<0.2	ND<0.2
			12/20/2018	ND<0.2	ND<0.2
			5/7/2019	ND<0.2	ND<0.2
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	0.119	0.119
			11/17/2020	0.116	0.116
			5/26/2021	0.09	0.09
			11/17/2021	0.117	0.117
			4/8/2022	0.0746	0.0746
			10/3/2022	ND<0.15	ND<0.15
			5/3/2023	0.0814	0.0814
			9/11/2023	0.0895	0.0895
			12/1/2023	ND<0.15	ND<0.15
MW22-02	11	8 (72.7273%)	4/7/2022	ND<1.5	ND<1.5
			5/9/2022	0.397	0.397
			5/31/2022	0.678	0.678
			6/20/2022	ND<1.5	ND<1.5
			7/19/2022	ND<1.5	ND<1.5
			8/18/2022	0.232	0.232
			9/13/2022	ND<1.5	ND<1.5
			10/3/2022	ND<1.5	ND<1.5
			5/4/2023	ND<1.5	ND<1.5
			9/12/2023	ND<1.5	ND<1.5
			11/30/2023	ND<1.5	ND<1.5
MW22-03	11	8 (72.7273%)	4/7/2022	ND<0.15	ND<0.15
			5/9/2022	ND<0.15	ND<0.15
			5/31/2022	0.0735	0.0735
			6/20/2022	ND<0.15	ND<0.15
			7/19/2022	0.083	0.083
			8/18/2022	ND<0.15	ND<0.15
			9/13/2022	0.0648	0.0648
			10/4/2022	ND<0.15	ND<0.15
			5/4/2023	ND<0.75	ND<0.75
			9/12/2023	ND<0.15	ND<0.15
			11/30/2023	ND<0.15	ND<0.15

MW22-04	12	0 (0%)	4/7/2022	0.114	0.114
			5/9/2022	0.407	0.407
			5/31/2022	0.159	0.159
			6/20/2022	0.189	0.189
			6/20/2022	0.181	0.181
			7/18/2022	0.112	0.112
			8/18/2022	0.104	0.104
			9/13/2022	0.0839	0.0839
			10/4/2022	0.0913	0.0913
			5/4/2023	0.14	0.14
			9/12/2023	0.106	0.106
			11/30/2023	0.0998	0.0998
			MW22-05	12	1 (8.33333%)
5/9/2022	0.12	0.12			
5/31/2022	0.115	0.115			
6/20/2022	0.123	0.123			
7/18/2022	0.162	0.162			
8/18/2022	0.172	0.172			
9/13/2022	0.188	0.188			
10/3/2022	0.159	0.159			
5/3/2023	ND<0.75	ND<0.75			
5/3/2023	0.133	0.133			
9/11/2023	0.152	0.152			
12/1/2023	0.117	0.117			
MW22-06	12	2 (16.6667%)			
			5/9/2022	0.124	0.124
			5/31/2022	0.102	0.102
			6/20/2022	0.115	0.115
			7/18/2022	0.11	0.11
			8/18/2022	0.11	0.11
			8/18/2022	0.093	0.093
			9/13/2022	0.0773	0.0773
			10/3/2022	ND<0.15	ND<0.15
			5/3/2023	0.0844	0.0844
			9/11/2023	0.0946	0.0946
			12/1/2023	ND<0.15	ND<0.15
			MW22-07	11	0 (0%)
5/9/2022	0.375	0.375			
5/31/2022	0.35	0.35			
6/20/2022	0.321	0.321			
7/19/2022	0.178	0.178			
8/18/2022	0.152	0.152			
9/13/2022	0.141	0.141			
10/4/2022	0.153	0.153			
5/4/2023	0.253	0.253			
9/12/2023	0.124	0.124			
12/4/2023	0.143	0.143			
MW22-08	12	1 (8.33333%)	4/8/2022	0.227	0.227
			5/9/2022	0.255	0.255
			5/31/2022	0.296	0.296
			5/31/2022	0.217	0.217
			6/20/2022	0.202	0.202

			7/18/2022	0.21	0.21
			8/18/2022	0.235	0.235
			9/13/2022	ND<0.75	ND<0.75
			10/4/2022	0.239	0.239
			5/3/2023	0.551	0.551
			9/12/2023	0.19	0.19
			12/1/2023	0.206	0.206
MW93-3	29	6 (20.6897%)	10/11/2016	0.15	0.15
			12/20/2016	0.23	0.23
			2/16/2017	0.2	0.2
			3/8/2017	0.22	0.22
			5/9/2017	0.18	0.18
			6/6/2017	0.24	0.24
			8/22/2017	0.23	0.23
			9/22/2017	0.2	0.2
			11/7/2017	0.2	0.2
			2/27/2018	0.21	0.21
			5/24/2018	0.23	0.23
			6/19/2018	0.223	0.223
			7/19/2018	ND<0.21	ND<0.21
			8/22/2018	ND<0.2	ND<0.2
			9/19/2018	0.389	0.389
			10/18/2018	ND<0.2	ND<0.2
			11/20/2018	0.283	0.283
			12/20/2018	ND<0.2	ND<0.2
			5/7/2019	ND<0.2	ND<0.2
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	0.252	0.252
			11/16/2020	0.27	0.27
			5/26/2021	0.233	0.233
			11/17/2021	0.329	0.329
			4/8/2022	0.19	0.19
			10/4/2022	0.278	0.278
			5/3/2023	0.325	0.325
			9/12/2023	0.211	0.211
			11/30/2023	0.222	0.222
MW23-01	2	0 (0%)	9/13/2023	0.103	0.103
			12/1/2023	0.11	0.11
MW23-02	2	1 (50%)	9/13/2023	0.108	0.108
			12/1/2023	ND<0.15	ND<0.15
MW23-03	2	0 (0%)	9/13/2023	0.38	0.38
			12/1/2023	0.392	0.392
MW23-04	2	0 (0%)	9/13/2023	0.256	0.256
			12/4/2023	0.187	0.187
MW23-05	2	1 (50%)	9/12/2023	0.098	0.098
			12/4/2023	ND<0.15	ND<0.15
MW23-06	2	0 (0%)	9/13/2023	0.269	0.269
			12/4/2023	0.2	0.2

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-05

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 2950

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/7/2022	2640
	5/9/2022	2480
	5/31/2022	1800
	6/20/2022	1800
	7/18/2022	2950
	8/18/2022	2310
	9/13/2022	2160
	10/3/2022	2290
	5/3/2023	2310
	5/3/2023	2320
	9/11/2023	2040

Date	Count	Mean	Significant
12/1/2023	1	2000	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 4520

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	1230
	5/9/2022	2060
	5/31/2022	3680
	6/20/2022	4520
	7/19/2022	4190
	8/18/2022	1560
	9/13/2022	1590
	10/4/2022	684
	5/4/2023	3380
	9/12/2023	1440

Date	Count	Mean	Significant
11/30/2023	1	1410	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 7930

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	4530
	5/9/2022	4750
	5/31/2022	3680
	6/20/2022	6030
	7/19/2022	4880
	8/18/2022	6270
	9/13/2022	7930
	10/3/2022	6320
	5/4/2023	6900
	9/12/2023	3980

Date	Count	Mean	Significant
11/30/2023	1	5480	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 25

Maximum Baseline Concentration = 46400

Confidence Level = 96.2%

False Positive Rate = 3.8%

Baseline Measurements	Date	Value
	6/6/2012	7530
	12/12/2012	7920
	6/19/2013	7280
	12/11/2013	7440
	6/11/2014	7160
	12/3/2014	7700
	6/17/2015	730
	12/1/2015	7950
	6/22/2016	3160
	12/20/2016	8780
	6/6/2017	7350
	11/7/2017	7820
	2/27/2018	7560
	9/27/2018	8890
	5/7/2019	8480
	11/21/2019	8400
	6/25/2020	8860
	11/16/2020	46400
	5/26/2021	7520
	11/17/2021	8020
	4/8/2022	10000
	10/4/2022	8300
	10/4/2022	8060
	5/4/2023	9020
	9/12/2023	8100

Date	Count	Mean	Significant
11/30/2023	1	6140	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 36

Maximum Background Value = 1230

Confidence Level = 81.8%

False Positive Rate = 18.2%

Location	Date	Count	Mean	Significant
MW93-2	11/30/2023	1	6140	TRUE
MW03-1	9/13/2023	1	340	FALSE
MW03-2	12/1/2023	1	1160	FALSE
MW22-02	11/30/2023	1	5480	TRUE
MW22-03	11/30/2023	1	1410	TRUE
MW22-04	11/30/2023	1	367	FALSE
MW22-05	12/1/2023	1	2000	TRUE
MW22-06	12/1/2023	1	916	FALSE
MW22-07	12/4/2023	1	812	FALSE
MW22-08	12/1/2023	1	1030	FALSE
MW93-3	11/30/2023	1	1170	FALSE
MW23-01	12/1/2023	1	1300	TRUE
MW23-02	12/1/2023	1	884	FALSE
MW23-03	12/1/2023	1	337	FALSE
MW23-04	12/4/2023	1	303	FALSE
MW23-05	12/4/2023	1	632	FALSE
MW23-06	12/4/2023	1	752	FALSE

Concentrations (ppb)

Parameter: Dissolved Solids

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 201

Total Non-Detect: 0

Percent Non-Detects: 0%

Total Background Measurements: 36

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW22-01	11	0 (0%)	4/7/2022	1230	1230
			5/9/2022	1120	1120
			5/31/2022	1000	1000
			6/20/2022	1010	1010
			7/18/2022	956	956
			8/18/2022	978	978
			9/13/2022	968	968
			10/3/2022	864	864
			5/3/2023	1010	1010
			9/11/2023	1000	1000
			11/30/2023	916	916
MW93-1	25	0 (0%)	6/6/2012	868	868
			12/12/2012	880	880
			6/19/2013	942	942
			12/11/2013	961	961
			6/11/2014	971	971
			12/3/2014	907	907
			6/17/2015	882	882
			12/1/2015	860	860
			6/22/2016	840	840
			12/20/2016	838	838
			6/6/2017	810	810
			11/7/2017	878	878
			2/27/2018	830	830
			9/27/2018	1050	1050
			5/7/2019	952	952
			11/21/2019	966	966
			6/25/2020	1000	1000
			11/17/2020	966	966
			5/26/2021	988	988
			11/17/2021	1000	1000
4/8/2022	1130	1130			
10/4/2022	1000	1000			
5/4/2023	968	968			
9/11/2023	1010	1010			
12/4/2023	974	974			

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	26	0 (0%)	6/6/2012	7530	7530
			12/12/2012	7920	7920
			6/19/2013	7280	7280

			12/11/2013	7440	7440
			6/11/2014	7160	7160
			12/3/2014	7700	7700
			6/17/2015	730	730
			12/1/2015	7950	7950
			6/22/2016	3160	3160
			12/20/2016	8780	8780
			6/6/2017	7350	7350
			11/7/2017	7820	7820
			2/27/2018	7560	7560
			9/27/2018	8890	8890
			5/7/2019	8480	8480
			11/21/2019	8400	8400
			6/25/2020	8860	8860
			11/16/2020	46400	46400
			5/26/2021	7520	7520
			11/17/2021	8020	8020
			4/8/2022	10000	10000
			10/4/2022	8300	8300
			10/4/2022	8060	8060
			5/4/2023	9020	9020
			9/12/2023	8100	8100
			11/30/2023	6140	6140
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MW03-1	9	0 (0%)	5/7/2019	102	102
			11/21/2019	80	80
			6/25/2020	151	151
			11/17/2020	320	320
			5/26/2021	88	88
			11/16/2021	160	160
			4/8/2022	81	81
			5/3/2023	101	101
			9/13/2023	340	340
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MW03-2	12	0 (0%)	9/27/2018	1630	1630
			5/7/2019	1240	1240
			11/21/2019	1760	1760
			6/25/2020	1940	1940
			11/17/2020	1770	1770
			5/26/2021	1790	1790
			11/17/2021	1490	1490
			4/8/2022	1720	1720
			10/3/2022	2060	2060
			5/3/2023	1550	1550
			9/11/2023	1320	1320
			12/1/2023	1160	1160
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MW22-02	11	0 (0%)	4/7/2022	4530	4530
			5/9/2022	4750	4750
			5/31/2022	3680	3680
			6/20/2022	6030	6030
			7/19/2022	4880	4880
			8/18/2022	6270	6270
			9/13/2022	7930	7930
			10/3/2022	6320	6320
			5/4/2023	6900	6900
			9/12/2023	3980	3980

			11/30/2023	5480	5480
MW22-03	11	0 (0%)	4/7/2022	1230	1230
			5/9/2022	2060	2060
			5/31/2022	3680	3680
			6/20/2022	4520	4520
			7/19/2022	4190	4190
			8/18/2022	1560	1560
			9/13/2022	1590	1590
			10/4/2022	684	684
			5/4/2023	3380	3380
			9/12/2023	1440	1440
			11/30/2023	1410	1410
MW22-04	12	0 (0%)	4/7/2022	322	322
			5/9/2022	900	900
			5/31/2022	613	613
			6/20/2022	648	648
			6/20/2022	639	639
			7/18/2022	500	500
			8/18/2022	491	491
			9/13/2022	431	431
			10/4/2022	408	408
			5/4/2023	608	608
			9/12/2023	508	508
			11/30/2023	367	367
MW22-05	12	0 (0%)	4/7/2022	2640	2640
			5/9/2022	2480	2480
			5/31/2022	1800	1800
			6/20/2022	1800	1800
			7/18/2022	2950	2950
			8/18/2022	2310	2310
			9/13/2022	2160	2160
			10/3/2022	2290	2290
			5/3/2023	2310	2310
			5/3/2023	2320	2320
			9/11/2023	2040	2040
			12/1/2023	2000	2000
MW22-06	12	0 (0%)	4/8/2022	1030	1030
			5/9/2022	945	945
			5/31/2022	932	932
			6/20/2022	904	904
			7/18/2022	932	932
			8/18/2022	851	851
			8/18/2022	940	940
			9/13/2022	812	812
			10/3/2022	847	847
			5/3/2023	1020	1020
			9/11/2023	880	880
			12/1/2023	916	916
MW22-07	11	0 (0%)	4/8/2022	519	519
			5/9/2022	440	440
			5/31/2022	408	408
			6/20/2022	391	391

			7/19/2022	638	638
			8/18/2022	813	813
			9/13/2022	755	755
			10/4/2022	739	739
			5/4/2023	459	459
			9/12/2023	716	716
			12/4/2023	812	812
MW22-08	12	0 (0%)	4/8/2022	1140	1140
			5/9/2022	1030	1030
			5/31/2022	984	984
			5/31/2022	996	996
			6/20/2022	976	976
			7/18/2022	1020	1020
			8/18/2022	1050	1050
			9/13/2022	1000	1000
			10/4/2022	1080	1080
			5/3/2023	1090	1090
			9/12/2023	1060	1060
			12/1/2023	1030	1030
MW93-3	25	0 (0%)	6/6/2012	834	834
			12/12/2012	669	669
			6/19/2013	861	861
			12/11/2013	697	697
			6/11/2014	986	986
			12/3/2014	743	743
			6/17/2015	911	911
			12/1/2015	1050	1050
			6/22/2016	1390	1390
			12/20/2016	1189	1189
			6/6/2017	780	780
			11/7/2017	1250	1250
			2/27/2018	1190	1190
			9/27/2018	1420	1420
			5/7/2019	1510	1510
			11/21/2019	1550	1550
			6/25/2020	1310	1310
			11/16/2020	1310	1310
			5/26/2021	1240	1240
			11/17/2021	1120	1120
			4/8/2022	1300	1300
			10/4/2022	1230	1230
			5/3/2023	1150	1150
			9/12/2023	1180	1180
			11/30/2023	1170	1170
MW23-01	2	0 (0%)	9/13/2023	1350	1350
			12/1/2023	1300	1300
MW23-02	2	0 (0%)	9/13/2023	998	998
			12/1/2023	884	884
MW23-03	2	0 (0%)	9/13/2023	376	376
			12/1/2023	337	337
MW23-04	2	0 (0%)	9/13/2023	265	265

			12/4/2023	303	303
MW23-05	2	0 (0%)	9/12/2023	754	754
			12/4/2023	632	632
MW23-06	2	0 (0%)	9/13/2023	776	776
			12/4/2023	752	752

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Concentrations (ppb)

Parameter: Cobalt

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 193

Total Non-Detect: 109

Percent Non-Detects: 56.4767%

Total Background Measurements: 29

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	18	16 (88.8889%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.006	ND<0.006
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	0.000252	0.000252
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
			9/11/2023	0.000171	0.000171
12/4/2023	ND<0.002	ND<0.002			
MW22-01	11	0 (0%)	4/7/2022	0.00536	0.00536
			5/9/2022	0.00738	0.00738
			5/31/2022	0.00402	0.00402
			6/20/2022	0.00303	0.00303
			7/18/2022	0.00308	0.00308
			8/18/2022	0.0032	0.0032
			9/13/2022	0.00344	0.00344
			10/3/2022	0.0038	0.0038
			5/3/2023	0.00293	0.00293
			9/11/2023	0.00331	0.00331
			11/30/2023	0.00283	0.00283

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	19	12 (63.1579%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.006	ND<0.006
			6/25/2020	0.000252	0.000252

			11/16/2020	0.000281	0.000281
			5/26/2021	0.00023	0.00023
			11/17/2021	0.000222	0.000222
			4/8/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
			5/4/2023	0.000234	0.000234
			9/12/2023	0.00018	0.00018
			11/30/2023	0.000174	0.000174
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MW03-1	16	11 (68.75%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	0.0321	0.0321
			8/22/2018	0.115	0.115
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.006	ND<0.006
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	0.000211	0.000211
			5/26/2021	ND<0.002	ND<0.002
			11/16/2021	0.000164	0.000164
			4/8/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/13/2023	0.00249	0.00249
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MW03-2	18	18 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.006	ND<0.006
			6/25/2020	ND<0.002	ND<0.002
			11/17/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/11/2023	ND<0.002	ND<0.002
			12/1/2023	ND<0.002	ND<0.002
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MW22-02	11	1 (9.09091%)	4/7/2022	0.000914	0.000914
			5/9/2022	0.000686	0.000686
			5/31/2022	0.000493	0.000493
			6/20/2022	0.000575	0.000575
			7/19/2022	0.000543	0.000543
			8/18/2022	0.000412	0.000412
			9/13/2022	0.000502	0.000502
			10/3/2022	ND<0.02	ND<0.02
			5/4/2023	0.000434	0.000434
			9/12/2023	0.000436	0.000436
			11/30/2023	0.000386	0.000386

MW22-03	11	0 (0%)	4/7/2022	0.0062	0.0062
			5/9/2022	0.00774	0.00774
			5/31/2022	0.00663	0.00663
			6/20/2022	0.00667	0.00667
			7/19/2022	0.00582	0.00582
			8/18/2022	0.00653	0.00653
			9/13/2022	0.00657	0.00657
			10/4/2022	0.00617	0.00617
			5/4/2023	0.00987	0.00987
			9/12/2023	0.00649	0.00649
			11/30/2023	0.00433	0.00433
			MW22-04	12	6 (50%)
5/9/2022	0.000277	0.000277			
5/31/2022	ND<0.002	ND<0.002			
6/20/2022	0.000144	0.000144			
6/20/2022	ND<0.002	ND<0.002			
7/18/2022	ND<0.002	ND<0.002			
8/18/2022	ND<0.002	ND<0.002			
9/13/2022	0.000221	0.000221			
10/4/2022	0.000206	0.000206			
5/4/2023	ND<0.002	ND<0.002			
9/12/2023	0.000177	0.000177			
11/30/2023	ND<0.002	ND<0.002			
MW22-05	12	5 (41.6667%)	4/7/2022	0.00755	0.00755
			5/9/2022	0.00433	0.00433
			5/31/2022	0.00349	0.00349
			6/20/2022	0.00298	0.00298
			7/18/2022	0.00138	0.00138
			8/18/2022	0.000238	0.000238
			9/13/2022	0.000196	0.000196
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/11/2023	ND<0.002	ND<0.002
			12/1/2023	ND<0.002	ND<0.002
MW22-06	12	11 (91.6667%)	4/8/2022	ND<0.002	ND<0.002
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/3/2022	ND<0.002	ND<0.002
			5/3/2023	ND<0.002	ND<0.002
			9/11/2023	0.000161	0.000161
			12/1/2023	ND<0.002	ND<0.002
MW22-07	11	9 (81.8182%)	4/8/2022	0.000229	0.000229
			5/9/2022	ND<0.002	ND<0.002
			5/31/2022	ND<0.002	ND<0.002
			6/20/2022	ND<0.002	ND<0.002
			7/19/2022	0.0002	0.0002

			8/18/2022	ND<0.002	ND<0.002
			9/13/2022	ND<0.002	ND<0.002
			10/4/2022	ND<0.002	ND<0.002
			5/4/2023	ND<0.002	ND<0.002
			9/12/2023	ND<0.002	ND<0.002
			12/4/2023	ND<0.002	ND<0.002
MW22-08	12	1 (8.33333%)	4/8/2022	0.00183	0.00183
			5/9/2022	0.0013	0.0013
			5/31/2022	0.000717	0.000717
			5/31/2022	0.000695	0.000695
			6/20/2022	0.000525	0.000525
			7/18/2022	0.000454	0.000454
			8/18/2022	0.000499	0.000499
			9/13/2022	0.00062	0.00062
			10/4/2022	0.000716	0.000716
			5/3/2023	0.000183	0.000183
			9/12/2023	0.00031	0.00031
			12/1/2023	ND<0.002	ND<0.002
MW93-3	18	16 (88.8889%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.006	ND<0.006
			6/25/2020	ND<0.002	ND<0.002
			11/16/2020	ND<0.002	ND<0.002
			5/26/2021	ND<0.002	ND<0.002
			11/17/2021	ND<0.002	ND<0.002
			4/8/2022	ND<0.002	ND<0.002
			10/4/2022	0.000143	0.000143
			5/3/2023	ND<0.002	ND<0.002
			9/12/2023	0.000152	0.000152
			11/30/2023	ND<0.002	ND<0.002
MW23-01	2	0 (0%)	9/13/2023	0.00158	0.00158
			12/1/2023	0.000236	0.000236
MW23-02	2	1 (50%)	9/13/2023	0.000287	0.000287
			12/1/2023	ND<0.002	ND<0.002
MW23-03	2	0 (0%)	9/13/2023	0.000489	0.000489
			12/1/2023	0.000387	0.000387
MW23-05	2	0 (0%)	9/12/2023	0.000799	0.000799
			12/4/2023	0.000232	0.000232
MW23-06	2	0 (0%)	9/13/2023	0.00081	0.00081
			12/4/2023	0.000767	0.000767
MW23-04	2	2 (100%)	9/13/2023	ND<0.002	ND<0.002
			12/4/2023	ND<0.002	ND<0.002

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Concentrations (ppb)

Parameter: Chromium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 198

Total Non-Detect: 195

Percent Non-Detects: 98.4848%

Total Background Measurements: 29

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	18	18 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.02	ND<0.02
			11/17/2020	ND<0.02	ND<0.02
			5/26/2021	ND<0.02	ND<0.02
			11/17/2021	ND<0.02	ND<0.02
			4/8/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
			5/4/2023	ND<0.02	ND<0.02
			9/11/2023	ND<0.02	ND<0.02
12/4/2023	ND<0.02	ND<0.02			
MW22-01	11	11 (100%)	4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
			9/11/2023	ND<0.02	ND<0.02
			11/30/2023	ND<0.02	ND<0.02

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	19	19 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.02	ND<0.02

			11/16/2020	ND<0.02	ND<0.02
			5/26/2021	ND<0.02	ND<0.02
			11/17/2021	ND<0.02	ND<0.02
			4/8/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
			5/4/2023	ND<0.02	ND<0.02
			9/12/2023	ND<0.02	ND<0.02
			11/30/2023	ND<0.02	ND<0.02
<hr/>					
MW03-1	16	13 (81.25%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	0.0808	0.0808
			8/22/2018	0.38	0.38
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.02	ND<0.02
			11/17/2020	ND<0.02	ND<0.02
			5/26/2021	ND<0.02	ND<0.02
			11/16/2021	ND<0.02	ND<0.02
			4/8/2022	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
			9/13/2023	0.00656	0.00656
<hr/>					
MW03-2	18	18 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.02	ND<0.02
			11/17/2020	ND<0.02	ND<0.02
			5/26/2021	ND<0.02	ND<0.02
			11/17/2021	ND<0.02	ND<0.02
			4/8/2022	ND<0.02	ND<0.02
			10/4/2022	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
			9/11/2023	ND<0.02	ND<0.02
			12/1/2023	ND<0.02	ND<0.02
<hr/>					
MW22-02	11	11 (100%)	4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/4/2023	ND<0.02	ND<0.02
			9/12/2023	ND<0.02	ND<0.02
			11/30/2023	ND<0.02	ND<0.02

MW22-03	11	11 (100%)	4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/4/2023	ND<0.02	ND<0.02
			9/12/2023	ND<0.02	ND<0.02
			11/30/2023	ND<0.02	ND<0.02
			MW22-04	11	11 (100%)
5/9/2022	ND<0.02	ND<0.02			
5/31/2022	ND<0.02	ND<0.02			
6/20/2022	ND<0.02	ND<0.02			
7/18/2022	ND<0.02	ND<0.02			
8/18/2022	ND<0.02	ND<0.02			
9/13/2022	ND<0.02	ND<0.02			
10/3/2022	ND<0.02	ND<0.02			
5/4/2023	ND<0.02	ND<0.02			
9/12/2023	ND<0.02	ND<0.02			
11/30/2023	ND<0.02	ND<0.02			
MW22-05	20	20 (100%)			
			4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
9/11/2023	ND<0.02	ND<0.02			
12/1/2023	ND<0.02	ND<0.02			
MW22-06	11	11 (100%)	4/8/2022	ND<0.02	ND<0.02
			5/9/2022	ND<0.02	ND<0.02
			5/31/2022	ND<0.02	ND<0.02
			6/20/2022	ND<0.02	ND<0.02
			7/18/2022	ND<0.02	ND<0.02
			8/18/2022	ND<0.02	ND<0.02
			9/13/2022	ND<0.02	ND<0.02
			10/3/2022	ND<0.02	ND<0.02
			5/3/2023	ND<0.02	ND<0.02
			9/11/2023	ND<0.02	ND<0.02
			12/1/2023	ND<0.02	ND<0.02

MW22-07	11	11 (100%)	4/8/2022	ND<0.02	ND<0.02			
			5/9/2022	ND<0.02	ND<0.02			
			5/31/2022	ND<0.02	ND<0.02			
			6/20/2022	ND<0.02	ND<0.02			
			7/18/2022	ND<0.02	ND<0.02			
			8/18/2022	ND<0.02	ND<0.02			
			9/13/2022	ND<0.02	ND<0.02			
			10/3/2022	ND<0.02	ND<0.02			
			5/4/2023	ND<0.02	ND<0.02			
			9/12/2023	ND<0.02	ND<0.02			
			12/4/2023	ND<0.02	ND<0.02			
			MW22-08	11	11 (100%)	4/8/2022	ND<0.02	ND<0.02
						5/9/2022	ND<0.02	ND<0.02
5/31/2022	ND<0.02	ND<0.02						
6/20/2022	ND<0.02	ND<0.02						
7/18/2022	ND<0.02	ND<0.02						
8/18/2022	ND<0.02	ND<0.02						
9/13/2022	ND<0.02	ND<0.02						
10/3/2022	ND<0.02	ND<0.02						
5/3/2023	ND<0.02	ND<0.02						
9/12/2023	ND<0.02	ND<0.02						
12/1/2023	ND<0.02	ND<0.02						
MW93-3	18	18 (100%)				5/24/2018	ND<0.01	ND<0.01
						6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01			
			8/22/2018	ND<0.01	ND<0.01			
			9/19/2018	ND<0.01	ND<0.01			
			10/18/2018	ND<0.01	ND<0.01			
			11/20/2018	ND<0.01	ND<0.01			
			12/20/2018	ND<0.01	ND<0.01			
			11/21/2019	ND<0.01	ND<0.01			
			6/25/2020	ND<0.02	ND<0.02			
			11/16/2020	ND<0.02	ND<0.02			
			5/26/2021	ND<0.02	ND<0.02			
			11/17/2021	ND<0.02	ND<0.02			
			4/8/2022	ND<0.02	ND<0.02			
			10/4/2022	ND<0.02	ND<0.02			
			5/3/2023	ND<0.02	ND<0.02			
			9/12/2023	ND<0.02	ND<0.02			
			11/30/2023	ND<0.02	ND<0.02			
MW23-01	2	2 (100%)	9/13/2023	ND<0.02	ND<0.02			
			12/1/2023	ND<0.02	ND<0.02			
MW23-02	2	2 (100%)	9/13/2023	ND<0.02	ND<0.02			
			12/1/2023	ND<0.02	ND<0.02			
MW23-03	2	2 (100%)	9/13/2023	ND<0.02	ND<0.02			
			12/1/2023	ND<0.02	ND<0.02			
MW23-04	2	2 (100%)	9/13/2023	ND<0.02	ND<0.02			
			12/4/2023	ND<0.02	ND<0.02			
MW23-05	2	2 (100%)	9/12/2023	ND<0.02	ND<0.02			

			12/4/2023	ND<0.02	ND<0.02
MW23-06	2	2 (100%)	9/13/2023	ND<0.02	ND<0.02
			12/4/2023	ND<0.02	ND<0.02

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-3

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 80

Maximum Baseline Concentration = 1070

Confidence Level = 98.8%

False Positive Rate = 1.2%

Baseline Measurements	Date	Value
	12/15/1994	440
	3/14/1995	420
	6/21/1995	420
	12/14/1995	406
	3/6/1996	368
	4/25/1996	384
	10/2/1996	430
	12/10/1996	377
	3/11/1997	375
	4/15/1997	400
	8/14/1997	916
	12/4/1997	249
	3/31/1998	275
	6/23/1998	246
	8/11/1998	500
	12/8/1998	260
	3/9/1999	280
	6/8/1999	214
	8/19/1999	260
	12/14/1999	200
	3/7/2000	232
	6/23/2000	270
	12/12/2000	196
	3/27/2001	190
	6/28/2001	180
	9/10/2001	202
	12/18/2001	149
	3/19/2002	203
	6/26/2002	180
	9/18/2002	185
	12/11/2002	178
	3/13/2003	207
	6/25/2003	190
	9/26/2003	158
	12/10/2003	140
	3/9/2004	13
	6/24/2004	160
	9/15/2004	139
	12/15/2004	122
	3/16/2005	180
	6/15/2005	150
	9/21/2005	215

12/21/2005	180
3/15/2006	221
6/21/2006	210
12/20/2006	210
6/12/2007	110
12/17/2007	131
6/11/2008	144
12/3/2008	152
6/17/2009	120
12/9/2009	175
6/17/2010	150
12/22/2010	170
6/29/2011	170
12/7/2011	98.9
6/6/2012	194
12/12/2012	168
6/19/2013	194
12/11/2013	173
6/11/2014	254
12/3/2014	194
6/17/2015	168
12/1/2015	280
6/22/2016	518
12/20/2016	475
6/6/2017	113
11/7/2017	402
2/27/2018	435
9/27/2018	426
5/7/2019	421
11/21/2019	1070
6/25/2020	143
11/16/2020	187
5/26/2021	232
11/17/2021	183
4/8/2022	231
10/4/2022	186
5/3/2023	202
9/12/2023	240

Date	Count	Mean	Significant
11/30/2023	1	218	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-08

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 212

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/8/2022	165
	5/9/2022	172
	5/31/2022	198
	5/31/2022	189
	6/20/2022	192
	7/18/2022	202
	8/18/2022	209
	9/13/2022	195
	10/4/2022	194
	5/3/2023	207
	9/12/2023	212

Date	Count	Mean	Significant
12/1/2023	1	218	TRUE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-06

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 161

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/8/2022	153
	5/9/2022	136
	5/31/2022	161
	6/20/2022	158
	7/18/2022	156
	8/18/2022	140
	8/18/2022	144
	9/13/2022	141
	10/3/2022	135
	5/3/2023	161
	9/11/2023	141

Date	Count	Mean	Significant
12/1/2023	1	159	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-05

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 1630

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/7/2022	1060
	5/9/2022	1090
	5/31/2022	1160
	6/20/2022	1630
	7/18/2022	1200
	8/18/2022	1140
	9/13/2022	1090
	10/3/2022	1070
	5/3/2023	972
	5/3/2023	1040
	9/11/2023	986

Date	Count	Mean	Significant
12/1/2023	1	1010	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 2440

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	539
	5/9/2022	937
	5/31/2022	1840
	6/20/2022	2440
	7/19/2022	2420
	8/18/2022	858
	9/13/2022	826
	10/4/2022	132
	5/4/2023	1650
	9/12/2023	808

Date	Count	Mean	Significant
11/30/2023	1	678	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 327

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	240
	5/9/2022	244
	5/31/2022	219
	6/20/2022	261
	7/19/2022	278
	8/18/2022	305
	9/13/2022	302
	10/3/2022	327
	5/4/2023	234
	9/12/2023	271

Date	Count	Mean	Significant
11/30/2023	1	269	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW03-2

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 2.22222%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 45

Maximum Baseline Concentration = 543

Confidence Level = 97.8%

False Positive Rate = 2.2%

Baseline Measurements	Date	Value
	6/24/2004	36
	9/15/2004	4
	12/15/2004	28
	3/16/2005	30
	6/15/2005	30
	9/21/2005	27
	12/21/2005	26
	3/15/2006	27
	6/21/2006	23
	12/20/2006	35
	6/12/2007	30
	12/17/2007	20
	6/11/2008	41
	12/3/2008	46
	6/17/2009	60
	12/9/2009	45
	6/17/2010	33
	12/22/2010	29
	6/29/2011	28.4
	12/7/2011	23.5
	6/6/2012	29.3
	12/12/2012	28.3
	6/19/2013	32.1
	12/11/2013	32.8
	6/11/2014	ND<5
	12/3/2014	51.2
	6/17/2015	54.7
	12/1/2015	67.8
	6/22/2016	79.7
	10/11/2016	88.4
	12/20/2016	126
	6/6/2017	117
	11/7/2017	288
	2/27/2018	247
	9/27/2018	283
	5/7/2019	313
	11/21/2019	543
	6/25/2020	448
	11/17/2020	435
	5/26/2021	511
	11/17/2021	501
	4/8/2022	440

10/3/2022	370
5/3/2023	389
9/11/2023	320

Date	Count	Mean	Significant
12/1/2023	1	277	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 1.21951%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 82

Maximum Baseline Concentration = 2149

Confidence Level = 98.8%

False Positive Rate = 1.2%

Baseline Measurements	Date	Value
	12/15/1994	400
	3/14/1995	1500
	6/21/1995	75
	12/14/1995	1749
	3/6/1996	1674
	4/25/1996	1999
	10/2/1996	1553
	12/10/1996	1560
	3/11/1997	1634
	4/15/1997	1700
	8/14/1997	2149
	12/4/1997	1769
	3/31/1998	2000
	6/23/1998	2099
	8/11/1998	1874
	12/8/1998	1922
	3/9/1999	1700
	6/8/1999	1739
	8/19/1999	1800
	12/14/1999	1800
	3/7/2000	1328
	6/23/2000	950
	12/12/2000	1789
	3/27/2001	1749
	6/28/2001	1799
	9/10/2001	2050
	12/18/2001	1600
	3/19/2002	1730
	6/26/2002	1699
	9/18/2002	1674
	12/11/2002	1613
	3/13/2003	1510
	6/25/2003	1800
	9/26/2003	1616
	12/10/2003	1509
	3/9/2004	1800
	6/24/2004	1892
	9/15/2004	1435
	12/15/2004	1600
	3/16/2005	1325
	6/15/2005	1400
	9/21/2005	1412

12/21/2005	1550
3/15/2006	1375
6/21/2006	1500
12/20/2006	1250
2/21/2007	1250
6/12/2007	1350
12/17/2007	1399
6/11/2008	1210
12/3/2008	1584
6/17/2009	750
12/9/2009	875
6/17/2010	1500
12/22/2010	1600
6/29/2011	1670
12/7/2011	1510
6/6/2012	1610
12/12/2012	1750
6/19/2013	1390
12/11/2013	1410
6/11/2014	1360
12/3/2014	1520
6/17/2015	47.7
12/1/2015	1760
6/22/2016	1300
12/20/2016	1690
6/6/2017	1580
11/7/2017	1160
2/27/2018	1270
9/27/2018	1250
5/7/2019	1360
11/21/2019	ND<5
6/25/2020	109
11/16/2020	1210
5/26/2021	1670
11/17/2021	1800
4/8/2022	1460
10/4/2022	1580
10/4/2022	1590
5/4/2023	1410
9/12/2023	1600

Date	Count	Mean	Significant
11/30/2023	1	1580	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 1.38889%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 92

Maximum Background Value = 63

Confidence Level = 92%

False Positive Rate = 8%

Location	Date	Count	Mean	Significant
MW93-2	11/30/2023	1	1580	TRUE
MW03-1	5/3/2023	1	1.65	FALSE
MW03-2	12/1/2023	1	277	TRUE
MW22-02	11/30/2023	1	269	TRUE
MW22-03	11/30/2023	1	678	TRUE
MW22-04	11/30/2023	1	37.1	FALSE
MW22-05	12/1/2023	1	1010	TRUE
MW22-06	12/1/2023	1	159	TRUE
MW22-07	12/4/2023	1	16.5	FALSE
MW22-08	12/1/2023	1	218	TRUE
MW93-3	11/30/2023	1	218	TRUE
MW23-01	12/1/2023	1	79.2	TRUE
MW23-02	12/1/2023	1	239	TRUE
MW23-03	12/1/2023	1	6.1	FALSE
MW23-04	12/4/2023	1	8.45	FALSE
MW23-05	12/4/2023	1	13.1	FALSE
MW23-06	12/4/2023	1	20.1	FALSE

Concentrations (ppb)

Parameter: Chloride

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 432

Total Non-Detect: 6

Percent Non-Detects: 1.38889%

Total Background Measurements: 92

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	81	0 (0%)	12/15/1994	30	30
			3/14/1995	38	38
			6/21/1995	37	37
			12/14/1995	24	24
			3/6/1996	20	20
			4/25/1996	32	32
			10/2/1996	40	40
			12/10/1996	30	30
			3/11/1997	4	4
			4/15/1997	28	28
			8/14/1997	33	33
			12/4/1997	29	29
			3/31/1998	30	30
			6/23/1998	37	37
			8/11/1998	24	24
			12/8/1998	31	31
			3/9/1999	30	30
			6/8/1999	35	35
			8/19/1999	40	40
			12/14/1999	40	40
			3/7/2000	50	50
			6/23/2000	52	52
			12/12/2000	54	54
			3/27/2001	60	60
			6/28/2001	58	58
			9/10/2001	46	46
			12/18/2001	46	46
			3/19/2002	42	42
			6/26/2002	51	51
			9/18/2002	57	57
			12/11/2002	56	56
			3/13/2003	56	56
			6/25/2003	63	63
			9/26/2003	59	59
			12/10/2003	40	40
			3/9/2004	58	58
			6/24/2004	61	61
			9/15/2004	44	44
			12/15/2004	48	48
			3/16/2005	42	42
			6/15/2005	42	42
			9/21/2005	42	42
			12/21/2005	58	58
			3/15/2006	50	50
			6/21/2006	31	31

12/20/2006	35	35
6/12/2007	24	24
12/17/2007	27	27
6/11/2008	29	29
12/3/2008	28	28
6/17/2009	20	20
12/9/2009	24	24
6/17/2010	17	17
12/22/2010	20	20
6/29/2011	20.8	20.8
12/7/2011	17.6	17.6
6/6/2012	23.8	23.8
12/12/2012	22.2	22.2
6/19/2013	21.5	21.5
12/11/2013	17.6	17.6
6/11/2014	19.3	19.3
12/3/2014	16.9	16.9
6/17/2015	13	13
12/1/2015	15.2	15.2
6/22/2016	13	13
12/20/2016	15.2	15.2
6/6/2017	16.1	16.1
11/7/2017	16.2	16.2
2/27/2018	15.6	15.6
9/27/2018	16.8	16.8
5/7/2019	18.8	18.8
11/21/2019	22	22
6/25/2020	11	11
11/17/2020	14.4	14.4
5/26/2021	12.9	12.9
11/17/2021	17.7	17.7
4/8/2022	14.3	14.3
10/4/2022	14.9	14.9
5/4/2023	10.3	10.3
9/11/2023	14	14
12/4/2023	13.4	13.4

MW22-01	11	0 (0%)	4/7/2022	6.41	6.41
			5/9/2022	7.86	7.86
			5/31/2022	8.14	8.14
			6/20/2022	8.03	8.03
			7/18/2022	9.12	9.12
			8/18/2022	9.45	9.45
			9/13/2022	8.96	8.96
			10/3/2022	10.2	10.2
			5/3/2023	9.35	9.35
			9/11/2023	10.7	10.7
			11/30/2023	11.1	11.1

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	83	1 (1.20482%)	12/15/1994	400	400
			3/14/1995	1500	1500
			6/21/1995	75	75
			12/14/1995	1749	1749

3/6/1996	1674	1674
4/25/1996	1999	1999
10/2/1996	1553	1553
12/10/1996	1560	1560
3/11/1997	1634	1634
4/15/1997	1700	1700
8/14/1997	2149	2149
12/4/1997	1769	1769
3/31/1998	2000	2000
6/23/1998	2099	2099
8/11/1998	1874	1874
12/8/1998	1922	1922
3/9/1999	1700	1700
6/8/1999	1739	1739
8/19/1999	1800	1800
12/14/1999	1800	1800
3/7/2000	1328	1328
6/23/2000	950	950
12/12/2000	1789	1789
3/27/2001	1749	1749
6/28/2001	1799	1799
9/10/2001	2050	2050
12/18/2001	1600	1600
3/19/2002	1730	1730
6/26/2002	1699	1699
9/18/2002	1674	1674
12/11/2002	1613	1613
3/13/2003	1510	1510
6/25/2003	1800	1800
9/26/2003	1616	1616
12/10/2003	1509	1509
3/9/2004	1800	1800
6/24/2004	1892	1892
9/15/2004	1435	1435
12/15/2004	1600	1600
3/16/2005	1325	1325
6/15/2005	1400	1400
9/21/2005	1412	1412
12/21/2005	1550	1550
3/15/2006	1375	1375
6/21/2006	1500	1500
12/20/2006	1250	1250
2/21/2007	1250	1250
6/12/2007	1350	1350
12/17/2007	1399	1399
6/11/2008	1210	1210
12/3/2008	1584	1584
6/17/2009	750	750
12/9/2009	875	875
6/17/2010	1500	1500
12/22/2010	1600	1600
6/29/2011	1670	1670
12/7/2011	1510	1510
6/6/2012	1610	1610
12/12/2012	1750	1750
6/19/2013	1390	1390
12/11/2013	1410	1410

			6/11/2014	1360	1360
			12/3/2014	1520	1520
			6/17/2015	47.7	47.7
			12/1/2015	1760	1760
			6/22/2016	1300	1300
			12/20/2016	1690	1690
			6/6/2017	1580	1580
			11/7/2017	1160	1160
			2/27/2018	1270	1270
			9/27/2018	1250	1250
			5/7/2019	1360	1360
			11/21/2019	ND<5	ND<5
			6/25/2020	109	109
			11/16/2020	1210	1210
			5/26/2021	1670	1670
			11/17/2021	1800	1800
			4/8/2022	1460	1460
			10/4/2022	1580	1580
			10/4/2022	1590	1590
			5/4/2023	1410	1410
			9/12/2023	1600	1600
			11/30/2023	1580	1580
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MW03-1	37	4 (10.8108%)	6/24/2004	10	10
			9/15/2004	22	22
			12/15/2004	6	6
			3/16/2005	4	4
			6/15/2005	6	6
			9/21/2005	5	5
			12/20/2006	5	5
			6/12/2007	4	4
			12/17/2007	3	3
			6/11/2008	11	11
			12/3/2008	11	11
			6/17/2009	4	4
			12/9/2009	32	32
			6/17/2010	5	5
			12/22/2010	8.7	8.7
			6/29/2011	4.86	4.86
			12/7/2011	5.88	5.88
			6/6/2012	9.36	9.36
			6/19/2013	ND<5	ND<5
			12/11/2013	ND<5	ND<5
			6/11/2014	44	44
			12/3/2014	ND<5	ND<5
			6/17/2015	ND<5	ND<5
			12/1/2015	0.777	0.777
			6/22/2016	0.628	0.628
			12/20/2016	0.786	0.786
			6/6/2017	0.887	0.887
			11/7/2017	1.13	1.13
			2/27/2018	1.07	1.07
			5/7/2019	5.9	5.9
			11/21/2019	410	410
			6/25/2020	0.652	0.652
			11/17/2020	2.29	2.29
			5/26/2021	1.64	1.64

			11/16/2021	0.704	0.704
			4/8/2022	0.942	0.942
			5/3/2023	1.65	1.65
MW03-2	46	1 (2.17391%)	6/24/2004	36	36
			9/15/2004	4	4
			12/15/2004	28	28
			3/16/2005	30	30
			6/15/2005	30	30
			9/21/2005	27	27
			12/21/2005	26	26
			3/15/2006	27	27
			6/21/2006	23	23
			12/20/2006	35	35
			6/12/2007	30	30
			12/17/2007	20	20
			6/11/2008	41	41
			12/3/2008	46	46
			6/17/2009	60	60
			12/9/2009	45	45
			6/17/2010	33	33
			12/22/2010	29	29
			6/29/2011	28.4	28.4
			12/7/2011	23.5	23.5
			6/6/2012	29.3	29.3
			12/12/2012	28.3	28.3
			6/19/2013	32.1	32.1
			12/11/2013	32.8	32.8
			6/11/2014	ND<5	ND<5
			12/3/2014	51.2	51.2
			6/17/2015	54.7	54.7
			12/1/2015	67.8	67.8
			6/22/2016	79.7	79.7
			10/11/2016	88.4	88.4
			12/20/2016	126	126
			6/6/2017	117	117
			11/7/2017	288	288
			2/27/2018	247	247
			9/27/2018	283	283
			5/7/2019	313	313
			11/21/2019	543	543
			6/25/2020	448	448
			11/17/2020	435	435
			5/26/2021	511	511
			11/17/2021	501	501
			4/8/2022	440	440
			10/3/2022	370	370
			5/3/2023	389	389
			9/11/2023	320	320
			12/1/2023	277	277
MW22-02	11	0 (0%)	4/7/2022	240	240
			5/9/2022	244	244
			5/31/2022	219	219
			6/20/2022	261	261
			7/19/2022	278	278
			8/18/2022	305	305

			9/13/2022	302	302
			10/3/2022	327	327
			5/4/2023	234	234
			9/12/2023	271	271
			11/30/2023	269	269
MW22-03	11	0 (0%)	4/7/2022	539	539
			5/9/2022	937	937
			5/31/2022	1840	1840
			6/20/2022	2440	2440
			7/19/2022	2420	2420
			8/18/2022	858	858
			9/13/2022	826	826
			10/4/2022	132	132
			5/4/2023	1650	1650
			9/12/2023	808	808
			11/30/2023	678	678
MW22-04	12	0 (0%)	4/7/2022	32.3	32.3
			5/9/2022	43.5	43.5
			5/31/2022	50.6	50.6
			6/20/2022	32.3	32.3
			6/20/2022	33.8	33.8
			7/18/2022	35.6	35.6
			8/18/2022	38	38
			9/13/2022	40.2	40.2
			10/4/2022	43.1	43.1
			5/4/2023	18.4	18.4
			9/12/2023	31.6	31.6
			11/30/2023	37.1	37.1
MW22-05	12	0 (0%)	4/7/2022	1060	1060
			5/9/2022	1090	1090
			5/31/2022	1160	1160
			6/20/2022	1630	1630
			7/18/2022	1200	1200
			8/18/2022	1140	1140
			9/13/2022	1090	1090
			10/3/2022	1070	1070
			5/3/2023	972	972
			5/3/2023	1040	1040
			9/11/2023	986	986
			12/1/2023	1010	1010
MW22-06	12	0 (0%)	4/8/2022	153	153
			5/9/2022	136	136
			5/31/2022	161	161
			6/20/2022	158	158
			7/18/2022	156	156
			8/18/2022	140	140
			8/18/2022	144	144
			9/13/2022	141	141
			10/3/2022	135	135
			5/3/2023	161	161
			9/11/2023	141	141
			12/1/2023	159	159

MW22-07	11	0 (0%)	4/8/2022	5.98	5.98
			5/9/2022	2.41	2.41
			5/31/2022	3.25	3.25
			6/20/2022	3.41	3.41
			7/19/2022	10.1	10.1
			8/18/2022	13.8	13.8
			9/13/2022	14.1	14.1
			10/4/2022	15.2	15.2
			5/4/2023	4.64	4.64
			9/12/2023	13.5	13.5
			12/4/2023	16.5	16.5
			<hr/>		
MW22-08	12	0 (0%)	4/8/2022	165	165
			5/9/2022	172	172
			5/31/2022	198	198
			5/31/2022	189	189
			6/20/2022	192	192
			7/18/2022	202	202
			8/18/2022	209	209
			9/13/2022	195	195
			10/4/2022	194	194
			5/3/2023	207	207
			9/12/2023	212	212
			12/1/2023	218	218
<hr/>					
MW93-3	81	0 (0%)	12/15/1994	440	440
			3/14/1995	420	420
			6/21/1995	420	420
			12/14/1995	406	406
			3/6/1996	368	368
			4/25/1996	384	384
			10/2/1996	430	430
			12/10/1996	377	377
			3/11/1997	375	375
			4/15/1997	400	400
			8/14/1997	916	916
			12/4/1997	249	249
			3/31/1998	275	275
			6/23/1998	246	246
			8/11/1998	500	500
			12/8/1998	260	260
			3/9/1999	280	280
			6/8/1999	214	214
			8/19/1999	260	260
			12/14/1999	200	200
			3/7/2000	232	232
			6/23/2000	270	270
			12/12/2000	196	196
			3/27/2001	190	190
			6/28/2001	180	180
			9/10/2001	202	202
			12/18/2001	149	149
			3/19/2002	203	203
			6/26/2002	180	180
			9/18/2002	185	185
12/11/2002	178	178			
3/13/2003	207	207			

			6/25/2003	190	190
			9/26/2003	158	158
			12/10/2003	140	140
			3/9/2004	13	13
			6/24/2004	160	160
			9/15/2004	139	139
			12/15/2004	122	122
			3/16/2005	180	180
			6/15/2005	150	150
			9/21/2005	215	215
			12/21/2005	180	180
			3/15/2006	221	221
			6/21/2006	210	210
			12/20/2006	210	210
			6/12/2007	110	110
			12/17/2007	131	131
			6/11/2008	144	144
			12/3/2008	152	152
			6/17/2009	120	120
			12/9/2009	175	175
			6/17/2010	150	150
			12/22/2010	170	170
			6/29/2011	170	170
			12/7/2011	98.9	98.9
			6/6/2012	194	194
			12/12/2012	168	168
			6/19/2013	194	194
			12/11/2013	173	173
			6/11/2014	254	254
			12/3/2014	194	194
			6/17/2015	168	168
			12/1/2015	280	280
			6/22/2016	518	518
			12/20/2016	475	475
			6/6/2017	113	113
			11/7/2017	402	402
			2/27/2018	435	435
			9/27/2018	426	426
			5/7/2019	421	421
			11/21/2019	1070	1070
			6/25/2020	143	143
			11/16/2020	187	187
			5/26/2021	232	232
			11/17/2021	183	183
			4/8/2022	231	231
			10/4/2022	186	186
			5/3/2023	202	202
			9/12/2023	240	240
			11/30/2023	218	218
<hr/>					
MW23-01	2	0 (0%)	9/13/2023	88.1	88.1
			12/1/2023	79.2	79.2
<hr/>					
MW23-02	2	0 (0%)	9/13/2023	234	234
			12/1/2023	239	239
<hr/>					
MW23-03	2	0 (0%)	9/13/2023	14.1	14.1

			12/1/2023	6.1	6.1
MW23-04	2	0 (0%)	9/13/2023	10.9	10.9
			12/4/2023	8.45	8.45
MW23-05	2	0 (0%)	9/12/2023	10.2	10.2
			12/4/2023	13.1	13.1
MW23-06	2	0 (0%)	9/13/2023	20.1	20.1
			12/4/2023	20.1	20.1

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Calcium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 2.27273%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 37

Maximum Background Value = 670

Confidence Level = 82.2%

False Positive Rate = 17.8%

Location	Date	Count	Mean	Significant
MW93-2	11/30/2023	1	226	FALSE
MW03-1	9/13/2023	1	70.6	FALSE
MW03-2	12/1/2023	1	202	FALSE
MW22-02	11/30/2023	1	333	FALSE
MW22-03	11/30/2023	1	127	FALSE
MW22-04	11/30/2023	1	60.9	FALSE
MW22-05	12/1/2023	1	223	FALSE
MW22-06	12/1/2023	1	198	FALSE
MW22-07	12/4/2023	1	143	FALSE
MW22-08	12/1/2023	1	60.4	FALSE
MW93-3	11/30/2023	1	73.4	FALSE
MW23-01	12/1/2023	1	216	FALSE
MW23-02	12/1/2023	1	146	FALSE
MW23-03	12/1/2023	1	73.5	FALSE
MW23-04	12/4/2023	1	81.4	FALSE
MW23-05	12/4/2023	1	145	FALSE
MW23-06	12/4/2023	1	105	FALSE

Concentrations (ppb)

Parameter: Calcium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 220

Total Non-Detect: 5

Percent Non-Detects: 2.27273%

Total Background Measurements: 37

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	26	1 (3.84615%)	6/6/2012	484	484
			12/12/2012	560	560
			6/19/2013	670	670
			12/11/2013	549	549
			6/11/2014	192	192
			12/3/2014	213	213
			6/17/2015	184	184
			12/1/2015	199	199
			6/22/2016	205	205
			12/20/2016	202	202
			6/6/2017	206	206
			11/7/2017	212	212
			2/27/2018	211	211
			9/27/2018	240	240
			11/20/2018	ND<0.5	ND<0.5
			5/7/2019	212	212
			11/21/2019	228	228
			6/25/2020	210	210
			11/17/2020	212	212
			5/26/2021	179	179
11/17/2021	210	210			
4/8/2022	227	227			
10/4/2022	223	223			
5/4/2023	213	213			
9/11/2023	217	217			
12/4/2023	196	196			
MW22-01	11	0 (0%)	4/7/2022	323	323
			5/9/2022	304	304
			5/31/2022	309	309
			6/20/2022	306	306
			7/18/2022	269	269
			8/18/2022	264	264
			9/13/2022	270	270
			10/3/2022	275	275
			5/3/2023	266	266
			9/11/2023	286	286
			11/30/2023	239	239

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	27	1 (3.7037%)	6/6/2012	78.9	78.9
			12/12/2012	101	101

			6/19/2013	100	100
			12/11/2013	88	88
			6/11/2014	41.8	41.8
			12/3/2014	53.8	53.8
			6/17/2015	2.29	2.29
			12/1/2015	42.8	42.8
			6/22/2016	40	40
			12/20/2016	41.8	41.8
			6/6/2017	45.2	45.2
			11/7/2017	68.5	68.5
			2/27/2018	74.7	74.7
			9/27/2018	68.9	68.9
			11/20/2018	ND<0.5	ND<0.5
			5/7/2019	86.3	86.3
			11/21/2019	117	117
			6/25/2020	198	198
			11/16/2020	225	225
			5/26/2021	200	200
			11/17/2021	195	195
			4/8/2022	228	228
			10/4/2022	217	217
			10/4/2022	235	235
			5/4/2023	196	196
			9/12/2023	226	226
			11/30/2023	226	226
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MW03-1	17	1 (5.88235%)	5/24/2018	22.2	22.2
			6/19/2018	43.6	43.6
			7/19/2018	154	154
			8/22/2018	613	613
			11/20/2018	ND<0.5	ND<0.5
			11/20/2018	35.6	35.6
			12/20/2018	13.3	13.3
			3/26/2019	16.6	16.6
			5/7/2019	15	15
			11/21/2019	16.9	16.9
			6/25/2020	35.6	35.6
			11/17/2020	76.2	76.2
			5/26/2021	8.58	8.58
			11/16/2021	27.4	27.4
			4/8/2022	10.8	10.8
			5/3/2023	20.5	20.5
			9/13/2023	70.6	70.6
<hr/>					
MW03-2	20	1 (5%)	5/24/2018	197	197
			6/19/2018	291	291
			7/19/2018	338	338
			8/22/2018	325	325
			9/19/2018	303	303
			9/27/2018	352	352
			11/20/2018	ND<0.5	ND<0.5
			11/20/2018	331	331
			12/20/2018	350	350
			5/7/2019	267	267
			11/21/2019	386	386
			6/25/2020	338	338
			11/17/2020	321	321

			5/26/2021	302	302
			11/17/2021	294	294
			4/8/2022	291	291
			10/3/2022	257	257
			5/3/2023	256	256
			9/11/2023	246	246
			12/1/2023	202	202
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MW22-02	11	0 (0%)	4/7/2022	238	238
			5/9/2022	236	236
			5/31/2022	297	297
			6/20/2022	339	339
			7/19/2022	307	307
			8/18/2022	338	338
			9/13/2022	334	334
			10/3/2022	370	370
			5/4/2023	457	457
			9/12/2023	396	396
			11/30/2023	333	333
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MW22-03	11	0 (0%)	4/7/2022	122	122
			5/9/2022	144	144
			5/31/2022	241	241
			6/20/2022	343	343
			7/19/2022	306	306
			8/18/2022	134	134
			9/13/2022	133	133
			10/4/2022	57.4	57.4
			5/4/2023	246	246
			9/12/2023	128	128
			11/30/2023	127	127
<hr/>					
MW22-04	12	0 (0%)	4/7/2022	59.4	59.4
			5/9/2022	73.9	73.9
			5/31/2022	78.8	78.8
			6/20/2022	89.4	89.4
			6/20/2022	89.5	89.5
			7/18/2022	75.3	75.3
			8/18/2022	72.8	72.8
			9/13/2022	71.4	71.4
			10/4/2022	65.5	65.5
			5/4/2023	90.2	90.2
			9/12/2023	79.3	79.3
			11/30/2023	60.9	60.9
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MW22-05	12	0 (0%)	4/7/2022	269	269
			5/9/2022	251	251
			5/31/2022	249	249
			6/20/2022	280	280
			7/18/2022	247	247
			8/18/2022	240	240
			9/13/2022	230	230
			10/3/2022	251	251
			5/3/2023	222	222
			5/3/2023	202	202
			9/11/2023	228	228
			12/1/2023	223	223

MW22-06	12	0 (0%)	4/8/2022	245	245			
			5/9/2022	216	216			
			5/31/2022	232	232			
			6/20/2022	241	241			
			7/18/2022	208	208			
			8/18/2022	210	210			
			8/18/2022	223	223			
			9/13/2022	201	201			
			10/3/2022	208	208			
			5/3/2023	221	221			
			9/11/2023	203	203			
			12/1/2023	198	198			
			MW22-07	11	0 (0%)	4/8/2022	87.6	87.6
5/9/2022	57	57						
5/31/2022	59.8	59.8						
6/20/2022	68	68						
7/19/2022	110	110						
8/18/2022	137	137						
9/13/2022	134	134						
10/4/2022	152	152						
5/4/2023	70.4	70.4						
9/12/2023	143	143						
12/4/2023	143	143						
MW22-08	12	0 (0%)				4/8/2022	73.3	73.3
						5/9/2022	66.9	66.9
			5/31/2022	65.4	65.4			
			5/31/2022	64.4	64.4			
			6/20/2022	66.6	66.6			
			7/18/2022	59.6	59.6			
			8/18/2022	59.9	59.9			
			9/13/2022	59.5	59.5			
			10/4/2022	60.7	60.7			
			5/3/2023	65.5	65.5			
			9/12/2023	69.6	69.6			
			12/1/2023	60.4	60.4			
			MW93-3	26	1 (3.84615%)	6/6/2012	86.4	86.4
12/12/2012	97	97						
6/19/2013	163	163						
12/11/2013	102	102						
6/11/2014	49.5	49.5						
12/3/2014	31.7	31.7						
6/17/2015	43.4	43.4						
12/1/2015	58	58						
6/22/2016	95.6	95.6						
12/20/2016	82.1	82.1						
6/6/2017	56	56						
11/7/2017	80.2	80.2						
2/27/2018	91.8	91.8						
9/27/2018	94.8	94.8						
11/20/2018	ND<0.5	ND<0.5						
5/7/2019	110	110						
11/21/2019	107	107						
6/25/2020	92.2	92.2						

			11/16/2020	82.8	82.8
			5/26/2021	75.1	75.1
			11/17/2021	80.7	80.7
			4/8/2022	80.2	80.2
			10/4/2022	75.2	75.2
			5/3/2023	70.8	70.8
			9/12/2023	75.8	75.8
			11/30/2023	73.4	73.4
MW23-01	2	0 (0%)	9/13/2023	259	259
			12/1/2023	216	216
MW23-02	2	0 (0%)	9/13/2023	175	175
			12/1/2023	146	146
MW23-03	2	0 (0%)	9/13/2023	78.9	78.9
			12/1/2023	73.5	73.5
MW23-04	2	0 (0%)	9/13/2023	73.2	73.2
			12/4/2023	81.4	81.4
MW23-05	2	0 (0%)	9/12/2023	186	186
			12/4/2023	145	145
MW23-06	2	0 (0%)	9/13/2023	124	124
			12/4/2023	105	105

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Concentrations (ppb)

Parameter: Cadmium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 193

Total Non-Detect: 161

Percent Non-Detects: 83.4197%

Total Background Measurements: 29

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	18	9 (50%)	5/24/2018	ND<0.001	ND<0.001
			6/19/2018	ND<0.001	ND<0.001
			7/19/2018	ND<0.001	ND<0.001
			8/22/2018	ND<0.001	ND<0.001
			9/19/2018	ND<0.00117	ND<0.00117
			10/18/2018	ND<0.001	ND<0.001
			11/20/2018	0.00125	0.00125
			12/20/2018	ND<0.001	ND<0.001
			11/21/2019	0.00112	0.00112
			6/25/2020	0.000369	0.000369
			11/17/2020	0.000541	0.000541
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	0.00043	0.00043
			4/8/2022	0.000376	0.000376
			10/4/2022	0.000631	0.000631
			5/4/2023	ND<0.001	ND<0.001
			9/11/2023	0.000573	0.000573
12/4/2023	0.00034	0.00034			
MW22-01	11	7 (63.6364%)	4/7/2022	0.000263	0.000263
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	0.000216	0.000216
			5/3/2023	ND<0.001	ND<0.001
			9/11/2023	0.000204	0.000204
			11/30/2023	0.000755	0.000755

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	19	16 (84.2105%)	5/24/2018	ND<0.001	ND<0.001
			6/19/2018	ND<0.001	ND<0.001
			7/19/2018	ND<0.001	ND<0.001
			8/22/2018	ND<0.001	ND<0.001
			9/19/2018	ND<0.001	ND<0.001
			10/18/2018	ND<0.001	ND<0.001
			11/20/2018	ND<0.001	ND<0.001
			12/20/2018	ND<0.001	ND<0.001
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001

			11/16/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	0.000207	0.000207
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.01	ND<0.01
			10/4/2022	ND<0.01	ND<0.01
			5/4/2023	ND<0.001	ND<0.001
			9/12/2023	0.000164	0.000164
			11/30/2023	0.000203	0.000203
<hr/>					
MW03-1	16	13 (81.25%)	5/24/2018	ND<0.001	ND<0.001
			6/19/2018	ND<0.001	ND<0.001
			7/19/2018	0.00486	0.00486
			8/22/2018	0.0204	0.0204
			10/18/2018	ND<0.001	ND<0.001
			11/20/2018	ND<0.001	ND<0.001
			12/20/2018	ND<0.001	ND<0.001
			3/26/2019	ND<0.001	ND<0.001
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/16/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/13/2023	0.000576	0.000576
<hr/>					
MW03-2	18	18 (100%)	5/24/2018	ND<0.001	ND<0.001
			6/19/2018	ND<0.001	ND<0.001
			7/19/2018	ND<0.001	ND<0.001
			8/22/2018	ND<0.001	ND<0.001
			9/19/2018	ND<0.001	ND<0.001
			10/18/2018	ND<0.001	ND<0.001
			11/20/2018	ND<0.001	ND<0.001
			12/20/2018	ND<0.001	ND<0.001
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/11/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
<hr/>					
MW22-02	11	11 (100%)	4/7/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/19/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.01	ND<0.01
			5/4/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001

MW22-03	11	9 (81.8182%)	4/7/2022	0.000341	0.000341
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/19/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			11/30/2023	0.000164	0.000164
			MW22-04	12	12 (100%)
5/9/2022	ND<0.001	ND<0.001			
5/31/2022	ND<0.001	ND<0.001			
6/20/2022	ND<0.001	ND<0.001			
6/20/2022	ND<0.001	ND<0.001			
7/18/2022	ND<0.001	ND<0.001			
8/18/2022	ND<0.001	ND<0.001			
9/13/2022	ND<0.001	ND<0.001			
10/4/2022	ND<0.001	ND<0.001			
5/4/2023	ND<0.001	ND<0.001			
9/12/2023	ND<0.001	ND<0.001			
11/30/2023	ND<0.001	ND<0.001			
MW22-05	12	4 (33.3333%)	4/7/2022	0.000395	0.000395
			5/9/2022	0.000252	0.000252
			5/31/2022	0.000256	0.000256
			6/20/2022	0.000236	0.000236
			7/18/2022	0.000323	0.000323
			8/18/2022	0.000165	0.000165
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	0.000197	0.000197
			5/3/2023	0.000194	0.000194
			9/11/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
MW22-06	12	11 (91.6667%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	0.000338	0.000338
			9/11/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
MW22-07	11	11 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/19/2022	ND<0.001	ND<0.001

			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			12/4/2023	ND<0.001	ND<0.001
MW22-08	12	12 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			8/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
MW93-3	18	18 (100%)	5/24/2018	ND<0.001	ND<0.001
			6/19/2018	ND<0.001	ND<0.001
			7/19/2018	ND<0.001	ND<0.001
			8/22/2018	ND<0.001	ND<0.001
			9/19/2018	ND<0.001	ND<0.001
			10/18/2018	ND<0.001	ND<0.001
			11/20/2018	ND<0.001	ND<0.001
			12/20/2018	ND<0.001	ND<0.001
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/16/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001
MW23-01	2	1 (50%)	9/13/2023	0.000381	0.000381
			12/1/2023	ND<0.001	ND<0.001
MW23-02	2	1 (50%)	9/13/2023	0.000236	0.000236
			12/1/2023	ND<0.001	ND<0.001
MW23-03	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
MW23-04	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/4/2023	ND<0.001	ND<0.001
MW23-05	2	2 (100%)	9/12/2023	ND<0.001	ND<0.001
			12/4/2023	ND<0.001	ND<0.001
MW23-06	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/4/2023	ND<0.001	ND<0.001

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-02

Parameter: Boron

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 3.25

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	1.87
	5/9/2022	2.93
	5/31/2022	3.08
	6/20/2022	3.08
	7/19/2022	2.94
	8/18/2022	3.16
	9/13/2022	3.03
	10/3/2022	3.25
	5/4/2023	2.84
	9/12/2023	3.12

Date	Count	Mean	Significant
11/30/2023	1	3.02	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Boron

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 22

Maximum Baseline Concentration = 2.86

Confidence Level = 95.7%

False Positive Rate = 4.3%

Baseline Measurements	Date	Value
	10/11/2016	2.86
	12/20/2016	2.31
	2/16/2017	2.09
	3/8/2017	2.07
	5/9/2017	1.97
	6/6/2017	1.83
	8/22/2017	2.38
	9/22/2017	2.48
	11/7/2017	0.46
	2/27/2018	0.064
	9/27/2018	2.01
	5/7/2019	1.61
	11/21/2019	1.76
	6/25/2020	1.74
	11/16/2020	1.76
	5/26/2021	1.59
	11/17/2021	1.71
	4/8/2022	1.42
	10/4/2022	1.84
	10/4/2022	1.92
	5/4/2023	1.68
	9/12/2023	1.59

Date	Count	Mean	Significant
11/30/2023	1	1.8	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Boron

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 36.019%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 33

Maximum Background Value = 0.499

Confidence Level = 80.5%

False Positive Rate = 19.5%

Location	Date	Count	Mean	Significant
MW93-2	11/30/2023	1	1.8	TRUE
MW03-1	9/13/2023	1	0.2	FALSE
MW03-2	12/1/2023	1	0.2	FALSE
MW22-02	11/30/2023	1	3.02	TRUE
MW22-03	11/30/2023	1	0.155	FALSE
MW22-04	11/30/2023	1	0.2	FALSE
MW22-05	12/1/2023	1	0.2	FALSE
MW22-06	12/1/2023	1	0.2	FALSE
MW22-07	12/4/2023	1	0.103	FALSE
MW22-08	12/1/2023	1	0.194	FALSE
MW93-3	11/30/2023	1	0.094	FALSE
MW23-01	12/1/2023	1	0.104	FALSE
MW23-03	12/1/2023	1	0.1	FALSE
MW23-05	12/4/2023	1	0.509	TRUE
MW23-06	12/4/2023	1	0.131	FALSE
MW23-02	12/1/2023	1	0.2	FALSE
MW23-04	12/4/2023	1	0.2	FALSE

Concentrations (ppb)

Parameter: Boron

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 211

Total Non-Detect: 76

Percent Non-Detects: 36.019%

Total Background Measurements: 33

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	22	0 (0%)	10/11/2016	0.429	0.429
			12/20/2016	0.386	0.386
			2/16/2017	0.341	0.341
			3/8/2017	0.348	0.348
			5/9/2017	0.366	0.366
			6/6/2017	0.371	0.371
			8/22/2017	0.458	0.458
			9/22/2017	0.499	0.499
			11/7/2017	0.46	0.46
			2/27/2018	0.33	0.33
			9/27/2018	0.386	0.386
			5/7/2019	0.178	0.178
			11/21/2019	0.303	0.303
			6/25/2020	0.185	0.185
			11/17/2020	0.211	0.211
			5/26/2021	0.227	0.227
			11/17/2021	0.322	0.322
4/8/2022	0.321	0.321			
10/4/2022	0.338	0.338			
5/4/2023	0.291	0.291			
9/11/2023	0.356	0.356			
12/4/2023	0.298	0.298			
MW22-01	11	0 (0%)	4/7/2022	0.247	0.247
			5/9/2022	0.339	0.339
			5/31/2022	0.213	0.213
			6/20/2022	0.139	0.139
			7/18/2022	0.107	0.107
			8/18/2022	0.093	0.093
			9/13/2022	0.106	0.106
			10/3/2022	0.0962	0.0962
			5/3/2023	0.154	0.154
			9/11/2023	0.121	0.121
			11/30/2023	0.115	0.115

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	23	0 (0%)	10/11/2016	2.86	2.86
			12/20/2016	2.31	2.31
			2/16/2017	2.09	2.09
			3/8/2017	2.07	2.07
			5/9/2017	1.97	1.97
			6/6/2017	1.83	1.83

8/22/2017	2.38	2.38
9/22/2017	2.48	2.48
11/7/2017	0.46	0.46
2/27/2018	0.064	0.064
9/27/2018	2.01	2.01
5/7/2019	1.61	1.61
11/21/2019	1.76	1.76
6/25/2020	1.74	1.74
11/16/2020	1.76	1.76
5/26/2021	1.59	1.59
11/17/2021	1.71	1.71
4/8/2022	1.42	1.42
10/4/2022	1.84	1.84
10/4/2022	1.92	1.92
5/4/2023	1.68	1.68
9/12/2023	1.59	1.59
11/30/2023	1.8	1.8

MW03-1	19	16 (84.2105%)	10/11/2016	ND<0.025	ND<0.025
			12/20/2016	ND<0.025	ND<0.025
			2/16/2017	ND<0.025	ND<0.025
			3/8/2017	ND<0.025	ND<0.025
			5/9/2017	0.041	0.041
			6/6/2017	ND<0.025	ND<0.025
			8/22/2017	ND<0.025	ND<0.025
			9/22/2017	0.025	0.025
			11/7/2017	ND<0.1	ND<0.1
			2/27/2018	0.05	0.05
			5/7/2019	ND<0.1	ND<0.1
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	ND<0.2	ND<0.2
			11/17/2020	ND<0.2	ND<0.2
			5/26/2021	ND<0.2	ND<0.2
			11/16/2021	ND<0.2	ND<0.2
			4/8/2022	ND<0.2	ND<0.2
			5/3/2023	ND<0.2	ND<0.2
			9/13/2023	ND<0.2	ND<0.2

MW03-2	21	20 (95.2381%)	10/11/2016	ND<0.025	ND<0.025
			12/20/2016	ND<0.025	ND<0.025
			2/16/2017	ND<0.025	ND<0.025
			3/8/2017	ND<0.025	ND<0.025
			5/9/2017	0.032	0.032
			6/6/2017	ND<0.025	ND<0.025
			8/22/2017	ND<0.025	ND<0.025
			9/22/2017	ND<0.025	ND<0.025
			11/7/2017	ND<0.1	ND<0.1
			2/27/2018	ND<0.05	ND<0.05
			5/7/2019	ND<0.1	ND<0.1
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	ND<0.2	ND<0.2
			11/17/2020	ND<0.2	ND<0.2
			5/26/2021	ND<0.2	ND<0.2
			11/17/2021	ND<0.2	ND<0.2
			4/8/2022	ND<0.2	ND<0.2
			10/3/2022	ND<0.2	ND<0.2
			5/3/2023	ND<0.2	ND<0.2

			9/11/2023	ND<0.2	ND<0.2
			12/1/2023	ND<0.2	ND<0.2
MW22-02	11	0 (0%)	4/7/2022	1.87	1.87
			5/9/2022	2.93	2.93
			5/31/2022	3.08	3.08
			6/20/2022	3.08	3.08
			7/19/2022	2.94	2.94
			8/18/2022	3.16	3.16
			9/13/2022	3.03	3.03
			10/3/2022	3.25	3.25
			5/4/2023	2.84	2.84
			9/12/2023	3.12	3.12
			11/30/2023	3.02	3.02
MW22-03	11	0 (0%)	4/7/2022	0.109	0.109
			5/9/2022	0.126	0.126
			5/31/2022	0.11	0.11
			6/20/2022	0.0975	0.0975
			7/19/2022	0.106	0.106
			8/18/2022	0.177	0.177
			9/13/2022	0.174	0.174
			10/4/2022	0.209	0.209
			5/4/2023	0.11	0.11
			9/12/2023	0.175	0.175
			11/30/2023	0.155	0.155
MW22-04	12	5 (41.6667%)	4/7/2022	ND<0.2	ND<0.2
			5/9/2022	0.0953	0.0953
			5/31/2022	0.0578	0.0578
			6/20/2022	0.0609	0.0609
			6/20/2022	0.0556	0.0556
			7/18/2022	0.0434	0.0434
			8/18/2022	ND<0.2	ND<0.2
			9/13/2022	ND<0.2	ND<0.2
			10/4/2022	ND<0.2	ND<0.2
			5/4/2023	0.0623	0.0623
			9/12/2023	0.045	0.045
			11/30/2023	ND<0.2	ND<0.2
MW22-05	12	12 (100%)	4/7/2022	ND<0.2	ND<0.2
			5/9/2022	ND<0.2	ND<0.2
			5/31/2022	ND<0.2	ND<0.2
			6/20/2022	ND<0.2	ND<0.2
			7/18/2022	ND<0.2	ND<0.2
			8/18/2022	ND<0.2	ND<0.2
			9/13/2022	ND<0.2	ND<0.2
			10/3/2022	ND<0.2	ND<0.2
			5/3/2023	ND<0.2	ND<0.2
			5/3/2023	ND<0.2	ND<0.2
			9/11/2023	ND<0.2	ND<0.2
			12/1/2023	ND<0.2	ND<0.2
MW22-06	12	12 (100%)	4/8/2022	ND<0.2	ND<0.2
			5/9/2022	ND<0.2	ND<0.2
			5/31/2022	ND<0.2	ND<0.2
			6/20/2022	ND<0.2	ND<0.2

			7/18/2022	ND<0.2	ND<0.2
			8/18/2022	ND<0.2	ND<0.2
			8/18/2022	ND<0.2	ND<0.2
			9/13/2022	ND<0.2	ND<0.2
			10/3/2022	ND<0.2	ND<0.2
			5/3/2023	ND<0.2	ND<0.2
			9/11/2023	ND<0.2	ND<0.2
			12/1/2023	ND<0.2	ND<0.2
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MW22-07	11	1 (9.09091%)	4/8/2022	ND<0.2	ND<0.2
			5/9/2022	0.0811	0.0811
			5/31/2022	0.172	0.172
			6/20/2022	0.136	0.136
			7/19/2022	0.0881	0.0881
			8/18/2022	0.0798	0.0798
			9/13/2022	0.0888	0.0888
			10/4/2022	0.0895	0.0895
			5/4/2023	0.0888	0.0888
			9/12/2023	0.0829	0.0829
			12/4/2023	0.103	0.103
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MW22-08	12	1 (8.33333%)	4/8/2022	0.184	0.184
			5/9/2022	0.171	0.171
			5/31/2022	0.0958	0.0958
			5/31/2022	ND<0.2	ND<0.2
			6/20/2022	0.163	0.163
			7/18/2022	0.168	0.168
			8/18/2022	0.167	0.167
			9/13/2022	0.166	0.166
			10/4/2022	0.19	0.19
			5/3/2023	0.174	0.174
			9/12/2023	0.2	0.2
			12/1/2023	0.194	0.194
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MW93-3	22	5 (22.7273%)	10/11/2016	0.079	0.079
			12/20/2016	0.08	0.08
			2/16/2017	0.126	0.126
			3/8/2017	0.09	0.09
			5/9/2017	0.139	0.139
			6/6/2017	ND<0.025	ND<0.025
			8/22/2017	0.119	0.119
			9/22/2017	0.118	0.118
			11/7/2017	ND<0.1	ND<0.1
			2/27/2018	0.089	0.089
			9/27/2018	ND<0.1	ND<0.1
			5/7/2019	ND<0.1	ND<0.1
			11/21/2019	ND<0.2	ND<0.2
			6/25/2020	0.0726	0.0726
			11/16/2020	0.0762	0.0762
			5/26/2021	0.0889	0.0889
			11/17/2021	0.0912	0.0912
			4/8/2022	0.0765	0.0765
			10/4/2022	0.0927	0.0927
			5/3/2023	0.0751	0.0751
			9/12/2023	0.0803	0.0803
			11/30/2023	0.094	0.094

MW23-01	2	0 (0%)	9/13/2023 12/1/2023	0.0968 0.104	0.0968 0.104
MW23-03	2	0 (0%)	9/13/2023 12/1/2023	0.0778 0.1	0.0778 0.1
MW23-05	2	0 (0%)	9/12/2023 12/4/2023	0.44 0.509	0.44 0.509
MW23-06	2	0 (0%)	9/13/2023 12/4/2023	0.123 0.131	0.123 0.131
MW23-02	2	2 (100%)	9/13/2023 12/1/2023	ND<0.2 ND<0.2	ND<0.2 ND<0.2
MW23-04	2	2 (100%)	9/13/2023 12/4/2023	ND<0.2 ND<0.2	ND<0.2 ND<0.2

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Concentrations (ppb)

Parameter: Beryllium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 198

Total Non-Detect: 195

Percent Non-Detects: 98.4848%

Total Background Measurements: 29

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	18	18 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			9/11/2023	ND<0.001	ND<0.001
12/4/2023	ND<0.001	ND<0.001			
MW22-01	11	11 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			8/18/2023	ND<0.001	ND<0.001
			9/11/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	19	19 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001

			11/16/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001
<hr/>					
MW03-1	16	13 (81.25%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	0.0201	0.0201
			8/22/2018	0.0108	0.0108
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/16/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/13/2023	0.000441	0.000441
<hr/>					
MW03-2	18	18 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/11/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
<hr/>					
MW22-02	11	11 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			8/18/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001

MW22-03	11	11 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			8/18/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001
MW22-04	11	11 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			8/18/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001
MW22-05	20	20 (100%)	4/8/2022	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			8/18/2023	ND<0.001	ND<0.001
8/18/2023	ND<0.001	ND<0.001			
9/11/2023	ND<0.001	ND<0.001			
12/1/2023	ND<0.001	ND<0.001			
MW22-06	11	11 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			8/18/2023	ND<0.001	ND<0.001
			9/11/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001

MW22-07	11	11 (100%)	4/8/2022	ND<0.001	ND<0.001
			5/9/2022	ND<0.001	ND<0.001
			5/31/2022	ND<0.001	ND<0.001
			6/20/2022	ND<0.001	ND<0.001
			7/18/2022	ND<0.001	ND<0.001
			9/13/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/4/2023	ND<0.001	ND<0.001
			8/18/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			12/4/2023	ND<0.001	ND<0.001
			MW22-08	11	11 (100%)
5/9/2022	ND<0.001	ND<0.001			
5/31/2022	ND<0.001	ND<0.001			
6/20/2022	ND<0.001	ND<0.001			
7/18/2022	ND<0.001	ND<0.001			
9/13/2022	ND<0.001	ND<0.001			
10/3/2022	ND<0.001	ND<0.001			
5/3/2023	ND<0.001	ND<0.001			
8/18/2023	ND<0.001	ND<0.001			
9/12/2023	ND<0.001	ND<0.001			
12/1/2023	ND<0.001	ND<0.001			
MW93-3	18	18 (100%)			
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	ND<0.001	ND<0.001
			11/16/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/4/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/12/2023	ND<0.001	ND<0.001
			11/30/2023	ND<0.001	ND<0.001
MW23-01	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
MW23-02	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
MW23-03	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
MW23-04	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/4/2023	ND<0.001	ND<0.001
MW23-05	2	2 (100%)	9/12/2023	ND<0.001	ND<0.001

			12/4/2023	ND<0.001	ND<0.001
MW23-06	2	2 (100%)	9/13/2023	ND<0.001	ND<0.001
			12/4/2023	ND<0.001	ND<0.001

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-06

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 0.121

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/8/2022	0.121
	5/9/2022	0.0798
	5/31/2022	0.0765
	6/20/2022	0.079
	7/18/2022	0.0692
	8/18/2022	0.0721
	8/18/2022	0.0742
	9/13/2022	0.0643
	10/3/2022	0.0633
	5/3/2023	0.0727
	9/11/2023	0.0781

Date	Count	Mean	Significant
12/1/2023	1	0.0695	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-05

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 11

Maximum Baseline Concentration = 0.515

Confidence Level = 91.7%

False Positive Rate = 8.3%

Baseline Measurements	Date	Value
	4/7/2022	0.484
	5/9/2022	0.456
	5/31/2022	0.461
	6/20/2022	0.515
	7/18/2022	0.45
	8/18/2022	0.388
	9/13/2022	0.357
	10/3/2022	0.356
	5/3/2023	0.335
	5/3/2023	0.307
	9/11/2023	0.286

Date	Count	Mean	Significant
12/1/2023	1	0.295	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW22-03

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 10

Maximum Baseline Concentration = 0.382

Confidence Level = 90.9%

False Positive Rate = 9.1%

Baseline Measurements	Date	Value
	4/7/2022	0.269
	5/9/2022	0.191
	5/31/2022	0.274
	6/20/2022	0.382
	7/19/2022	0.346
	8/18/2022	0.189
	9/13/2022	0.245
	10/4/2022	0.109
	5/4/2023	0.231
	9/12/2023	0.164

Date	Count	Mean	Significant
11/30/2023	1	0.156	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW03-1

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 15

Maximum Baseline Concentration = 2

Confidence Level = 93.8%

False Positive Rate = 6.2%

Baseline Measurements	Date	Value
	5/24/2018	0.0519
	6/19/2018	0.0752
	7/19/2018	0.671
	8/22/2018	2
	10/18/2018	0.184
	11/20/2018	0.0663
	12/20/2018	0.0375
	3/26/2019	0.0384
	11/21/2019	0.0449
	6/25/2020	0.0776
	11/17/2020	0.19
	5/26/2021	0.0293
	11/16/2021	0.064
	4/8/2022	0.0301
	5/3/2023	0.0403

Date	Count	Mean	Significant
9/13/2023	1	0.106	FALSE

Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 18

Maximum Baseline Concentration = 0.151

Confidence Level = 94.7%

False Positive Rate = 5.3%

Baseline Measurements	Date	Value
	5/24/2018	0.0604
	6/19/2018	0.0538
	7/19/2018	0.0583
	8/22/2018	0.0612
	9/19/2018	0.0641
	10/18/2018	0.0669
	11/20/2018	0.069
	12/20/2018	0.0651
	11/21/2019	0.1
	6/25/2020	0.147
	11/16/2020	0.151
	5/26/2021	0.126
	11/17/2021	0.127
	4/8/2022	0.141
	10/4/2022	0.127
	10/4/2022	0.132
	5/4/2023	0.117
	9/12/2023	0.128

Date	Count	Mean	Significant
11/30/2023	1	0.124	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 1.03627%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 29

Maximum Background Value = 0.0621

Confidence Level = 78.4%

False Positive Rate = 21.6%

Location	Date	Count	Mean	Significant
MW93-2	11/30/2023	1	0.124	TRUE
MW03-1	9/13/2023	1	0.106	TRUE
MW03-2	12/1/2023	1	0.0292	FALSE
MW22-02	11/30/2023	1	0.0305	FALSE
MW22-03	11/30/2023	1	0.156	TRUE
MW22-04	11/30/2023	1	0.0576	FALSE
MW22-05	12/1/2023	1	0.295	TRUE
MW22-06	12/1/2023	1	0.0695	TRUE
MW22-07	12/4/2023	1	0.0441	FALSE
MW22-08	12/1/2023	1	0.049	FALSE
MW93-3	11/30/2023	1	0.062	FALSE
MW23-01	12/1/2023	1	0.0338	FALSE
MW23-02	12/1/2023	1	0.0731	TRUE
MW23-03	12/1/2023	1	0.126	TRUE
MW23-04	12/4/2023	1	0.132	TRUE
MW23-05	12/4/2023	1	0.0848	TRUE
MW23-06	12/4/2023	1	0.0488	FALSE

Concentrations (ppb)

Parameter: Barium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 193

Total Non-Detect: 2

Percent Non-Detects: 1.03627%

Total Background Measurements: 29

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	18	0 (0%)	5/24/2018	0.0246	0.0246
			6/19/2018	0.0239	0.0239
			7/19/2018	0.0202	0.0202
			8/22/2018	0.0152	0.0152
			9/19/2018	0.0267	0.0267
			10/18/2018	0.0213	0.0213
			11/20/2018	0.0267	0.0267
			12/20/2018	0.0175	0.0175
			11/21/2019	0.0321	0.0321
			6/25/2020	0.0283	0.0283
			11/17/2020	0.0405	0.0405
			5/26/2021	0.0132	0.0132
			11/17/2021	0.0173	0.0173
			4/8/2022	0.0199	0.0199
			10/4/2022	0.0189	0.0189
			5/4/2023	0.0225	0.0225
			9/11/2023	0.0184	0.0184
12/4/2023	0.0124	0.0124			
MW22-01	11	0 (0%)	4/7/2022	0.0621	0.0621
			5/9/2022	0.0554	0.0554
			5/31/2022	0.0431	0.0431
			6/20/2022	0.0399	0.0399
			7/18/2022	0.0365	0.0365
			8/18/2022	0.0373	0.0373
			9/13/2022	0.0349	0.0349
			10/3/2022	0.0347	0.0347
			5/3/2023	0.0363	0.0363
			9/11/2023	0.0405	0.0405
			11/30/2023	0.0362	0.0362

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-2	19	0 (0%)	5/24/2018	0.0604	0.0604
			6/19/2018	0.0538	0.0538
			7/19/2018	0.0583	0.0583
			8/22/2018	0.0612	0.0612
			9/19/2018	0.0641	0.0641
			10/18/2018	0.0669	0.0669
			11/20/2018	0.069	0.069
			12/20/2018	0.0651	0.0651
			11/21/2019	0.1	0.1
			6/25/2020	0.147	0.147

			11/16/2020	0.151	0.151
			5/26/2021	0.126	0.126
			11/17/2021	0.127	0.127
			4/8/2022	0.141	0.141
			10/4/2022	0.127	0.127
			10/4/2022	0.132	0.132
			5/4/2023	0.117	0.117
			9/12/2023	0.128	0.128
			11/30/2023	0.124	0.124
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MW03-1	16	0 (0%)	5/24/2018	0.0519	0.0519
			6/19/2018	0.0752	0.0752
			7/19/2018	0.671	0.671
			8/22/2018	2	2
			10/18/2018	0.184	0.184
			11/20/2018	0.0663	0.0663
			12/20/2018	0.0375	0.0375
			3/26/2019	0.0384	0.0384
			11/21/2019	0.0449	0.0449
			6/25/2020	0.0776	0.0776
			11/17/2020	0.19	0.19
			5/26/2021	0.0293	0.0293
			11/16/2021	0.064	0.064
			4/8/2022	0.0301	0.0301
			5/3/2023	0.0403	0.0403
			9/13/2023	0.106	0.106
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MW03-2	18	1 (5.55556%)	5/24/2018	0.0519	0.0519
			6/19/2018	0.0391	0.0391
			7/19/2018	0.044	0.044
			8/22/2018	0.0409	0.0409
			9/19/2018	0.0447	0.0447
			10/18/2018	0.0463	0.0463
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	0.0443	0.0443
			11/21/2019	0.044	0.044
			6/25/2020	0.0348	0.0348
			11/17/2020	0.0395	0.0395
			5/26/2021	0.0335	0.0335
			11/17/2021	0.0329	0.0329
			4/8/2022	0.0301	0.0301
			10/3/2022	0.0281	0.0281
			5/3/2023	0.0291	0.0291
			9/11/2023	0.0285	0.0285
			12/1/2023	0.0292	0.0292
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MW22-02	11	0 (0%)	4/7/2022	0.0435	0.0435
			5/9/2022	0.0691	0.0691
			5/31/2022	0.0635	0.0635
			6/20/2022	0.0687	0.0687
			7/19/2022	0.0562	0.0562
			8/18/2022	0.0444	0.0444
			9/13/2022	0.0381	0.0381
			10/3/2022	0.032	0.032
			5/4/2023	0.0667	0.0667
			9/12/2023	0.0482	0.0482
			11/30/2023	0.0305	0.0305

MW22-03	11	0 (0%)	4/7/2022	0.269	0.269
			5/9/2022	0.191	0.191
			5/31/2022	0.274	0.274
			6/20/2022	0.382	0.382
			7/19/2022	0.346	0.346
			8/18/2022	0.189	0.189
			9/13/2022	0.245	0.245
			10/4/2022	0.109	0.109
			5/4/2023	0.231	0.231
			9/12/2023	0.164	0.164
			11/30/2023	0.156	0.156
MW22-04	12	0 (0%)	4/7/2022	0.108	0.108
			5/9/2022	0.0487	0.0487
			5/31/2022	0.0731	0.0731
			6/20/2022	0.0662	0.0662
			6/20/2022	0.0661	0.0661
			7/18/2022	0.0742	0.0742
			8/18/2022	0.0719	0.0719
			9/13/2022	0.0745	0.0745
			10/4/2022	0.0633	0.0633
			5/4/2023	0.0426	0.0426
			9/12/2023	0.0466	0.0466
11/30/2023	0.0576	0.0576			
MW22-05	12	0 (0%)	4/7/2022	0.484	0.484
			5/9/2022	0.456	0.456
			5/31/2022	0.461	0.461
			6/20/2022	0.515	0.515
			7/18/2022	0.45	0.45
			8/18/2022	0.388	0.388
			9/13/2022	0.357	0.357
			10/3/2022	0.356	0.356
			5/3/2023	0.335	0.335
			5/3/2023	0.307	0.307
			9/11/2023	0.286	0.286
12/1/2023	0.295	0.295			
MW22-06	12	0 (0%)	4/8/2022	0.121	0.121
			5/9/2022	0.0798	0.0798
			5/31/2022	0.0765	0.0765
			6/20/2022	0.079	0.079
			7/18/2022	0.0692	0.0692
			8/18/2022	0.0721	0.0721
			8/18/2022	0.0742	0.0742
			9/13/2022	0.0643	0.0643
			10/3/2022	0.0633	0.0633
			5/3/2023	0.0727	0.0727
			9/11/2023	0.0781	0.0781
12/1/2023	0.0695	0.0695			
MW22-07	11	0 (0%)	4/8/2022	0.0944	0.0944
			5/9/2022	0.0961	0.0961
			5/31/2022	0.106	0.106
			6/20/2022	0.119	0.119
			7/19/2022	0.0742	0.0742

			8/18/2022	0.0719	0.0719
			9/13/2022	0.056	0.056
			10/4/2022	0.0532	0.0532
			5/4/2023	0.106	0.106
			9/12/2023	0.052	0.052
			12/4/2023	0.0441	0.0441
MW22-08	12	0 (0%)	4/8/2022	0.104	0.104
			5/9/2022	0.0993	0.0993
			5/31/2022	0.0801	0.0801
			5/31/2022	0.0791	0.0791
			6/20/2022	0.0712	0.0712
			7/18/2022	0.0659	0.0659
			8/18/2022	0.0737	0.0737
			9/13/2022	0.0708	0.0708
			10/4/2022	0.0747	0.0747
			5/3/2023	0.0552	0.0552
			9/12/2023	0.056	0.056
			12/1/2023	0.049	0.049
MW93-3	18	1 (5.55556%)	5/24/2018	0.214	0.214
			6/19/2018	0.201	0.201
			7/19/2018	0.259	0.259
			8/22/2018	0.184	0.184
			9/19/2018	0.228	0.228
			10/18/2018	0.241	0.241
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	0.259	0.259
			11/21/2019	0.116	0.116
			6/25/2020	0.0604	0.0604
			11/16/2020	0.0604	0.0604
			5/26/2021	0.0627	0.0627
			11/17/2021	0.0604	0.0604
			4/8/2022	0.064	0.064
			10/4/2022	0.0503	0.0503
			5/3/2023	0.0572	0.0572
			9/12/2023	0.0589	0.0589
			11/30/2023	0.062	0.062
MW23-01	2	0 (0%)	9/13/2023	0.072	0.072
			12/1/2023	0.0338	0.0338
MW23-02	2	0 (0%)	9/13/2023	0.0867	0.0867
			12/1/2023	0.0731	0.0731
MW23-03	2	0 (0%)	9/13/2023	0.142	0.142
			12/1/2023	0.126	0.126
MW23-04	2	0 (0%)	9/13/2023	0.128	0.128
			12/4/2023	0.132	0.132
MW23-05	2	0 (0%)	9/12/2023	0.138	0.138
			12/4/2023	0.0848	0.0848
MW23-06	2	0 (0%)	9/13/2023	0.0546	0.0546
			12/4/2023	0.0488	0.0488

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Intra-Well Comparison for MW93-2

Parameter: Arsenic

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 6.97674%

Future Samples (k) = 1

Recent Dates = 1

Baseline Measurements (n) = 43

Maximum Baseline Concentration = 0.0635

Confidence Level = 97.7%

False Positive Rate = 2.3%

Baseline Measurements	Date	Value
	6/12/2007	0.0343
	12/17/2007	0.0603
	6/11/2008	0.051
	12/3/2008	0.033
	6/17/2009	0.0525
	12/9/2009	0.0635
	6/17/2010	0.0179
	12/22/2010	0.0215
	6/29/2011	0.061
	12/7/2011	ND<0.005
	6/6/2012	0.0098
	12/12/2012	0.0562
	6/19/2013	ND<0.005
	12/11/2013	0.0353
	6/11/2014	0.0197
	12/3/2014	0.0274
	6/17/2015	ND<0.005
	12/1/2015	0.03
	6/22/2016	0.047
	12/20/2016	0.06
	6/6/2017	0.038
	11/7/2017	0.028
	2/27/2018	0.024
	5/24/2018	0.0292
	6/19/2018	0.0274
	7/19/2018	0.0367
	8/22/2018	0.0333
	9/19/2018	0.0344
	9/27/2018	0.0389
	10/18/2018	0.0378
	11/20/2018	0.0313
	12/20/2018	0.0285
	5/7/2019	0.0259
	11/21/2019	0.0197
	6/25/2020	0.0176
	11/16/2020	0.0204
	5/26/2021	0.0148
	11/17/2021	0.0266
	4/8/2022	0.0213
	10/4/2022	0.0535
	10/4/2022	0.0556
	5/4/2023	0.0244

9/12/2023 0.0433

Date	Count	Mean	Significant
11/30/2023	1	0.0387	FALSE

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Arsenic

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 44.9367%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 54

Maximum Background Value = 0.0109

Confidence Level = 87.1%

False Positive Rate = 12.9%

Location	Date	Count	Mean	Significant
MW03-1	9/13/2023	1	0.0032	FALSE
MW03-2	12/1/2023	1	0.001	FALSE
MW22-02	11/30/2023	1	0.00194	FALSE
MW22-03	11/30/2023	1	0.000459	FALSE
MW22-04	11/30/2023	1	0.000353	FALSE
MW22-05	12/1/2023	1	0.000271	FALSE
MW22-06	12/1/2023	1	0.00029	FALSE
MW22-07	12/4/2023	1	0.000322	FALSE
MW22-08	12/1/2023	1	0.000396	FALSE
MW93-2	11/30/2023	1	0.0387	TRUE
MW93-3	11/30/2023	1	0.00057	FALSE
MW23-01	12/1/2023	1	0.000467	FALSE
MW23-02	12/1/2023	1	0.000224	FALSE
MW23-03	12/1/2023	1	0.00373	FALSE
MW23-04	12/4/2023	1	0.00123	FALSE
MW23-05	12/4/2023	1	0.000533	FALSE
MW23-06	12/4/2023	1	0.00066	FALSE

Rosner's Test for Outliers

Parameter: Arsenic

All Locations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 0.00760559

10 most extreme of 316 measurements

by order of magnitude difference from the mean

1	8/22/2018	MW03-1	0.123	0.115394
2	12/9/2009	MW93-2	0.0635	0.0558944
3	6/29/2011	MW93-2	0.061	0.0533944
4	12/17/2007	MW93-2	0.0603	0.0526944
5	12/20/2016	MW93-2	0.06	0.0523944
6	12/12/2012	MW93-2	0.0562	0.0485944
7	10/4/2022	MW93-2	0.0556	0.0479944
8	10/4/2022	MW93-2	0.0535	0.0458944
9	6/17/2009	MW93-2	0.0525	0.0448944
10	6/11/2008	MW93-2	0.051	0.0433944

Iteration i = 9

Mean of 307 measurements = 0.00592106

Std Dev = 0.00928876

$x_{(i+1)} = 0.051$ from measurement 6/11/2008 from location MW93-2

Rosner Statistic $R = |0.051 - 0.00592106|/0.00928876 = 4.85306$

$\Lambda(316, 10, 0.05) = 3.726$

4.85306 > 3.726 -- Measurement 6/11/2008 for location MW93-2 is an outlier

Iteration i = 8

Mean of 308 measurements = 0.00607229

Std Dev = 0.00964594

$x_{(i+1)} = 0.0525$ from measurement 6/17/2009 from location MW93-2

Rosner Statistic $R = |0.0525 - 0.00607229|/0.00964594 = 4.81319$

$\Lambda(316, 9, 0.05) = 3.72736$

Measurement 6/17/2009 for location MW93-2 is an outlier

Iteration i = 7

Mean of 309 measurements = 0.00622578

Std Dev = 0.0100011

$x_{(i+1)} = 0.0535$ from measurement 10/4/2022 from location MW93-2

Rosner Statistic $R = |0.0535 - 0.00622578|/0.0100011 = 4.72691$

$\Lambda(316, 8, 0.05) = 3.72872$

Measurement 10/4/2022 for location MW93-2 is an outlier

Iteration i = 6

Mean of 310 measurements = 0.00638505

Std Dev = 0.0103712

$x_{(i+1)} = 0.0556$ from measurement 10/4/2022 from location MW93-2

Rosner Statistic $R = |0.0556 - 0.00638505|/0.0103712 = 4.74535$

$\Lambda(316, 7, 0.05) = 3.73008$

Measurement 10/4/2022 for location MW93-2 is an outlier

Iteration i = 5

Mean of 311 measurements = 0.00654523

Std Dev = 0.0107328

$x(i+1) = 0.0562$ from measurement 12/12/2012 from location MW93-2

Rosner Statistic $R = |0.0562 - 0.00654523|/0.0107328 = 4.62643$

$\Lambda(316, 6, 0.05) = 3.73144$

Measurement 12/12/2012 for location MW93-2 is an outlier

Iteration i = 4

Mean of 312 measurements = 0.00671656

Std Dev = 0.0111347

$x(i+1) = 0.06$ from measurement 12/20/2016 from location MW93-2

Rosner Statistic $R = |0.06 - 0.00671656|/0.0111347 = 4.78534$

$\Lambda(316, 5, 0.05) = 3.7328$

Measurement 12/20/2016 for location MW93-2 is an outlier

Iteration i = 3

Mean of 313 measurements = 0.00688775

Std Dev = 0.0115221

$x(i+1) = 0.0603$ from measurement 12/17/2007 from location MW93-2

Rosner Statistic $R = |0.0603 - 0.00688775|/0.0115221 = 4.63565$

$\Lambda(316, 4, 0.05) = 3.7336$

Measurement 12/17/2007 for location MW93-2 is an outlier

Iteration i = 2

Mean of 314 measurements = 0.00706008

Std Dev = 0.0119021

$x(i+1) = 0.061$ from measurement 6/29/2011 from location MW93-2

Rosner Statistic $R = |0.061 - 0.00706008|/0.0119021 = 4.53198$

$\Lambda(316, 3, 0.05) = 3.7344$

Measurement 6/29/2011 for location MW93-2 is an outlier

Iteration i = 1

Mean of 315 measurements = 0.00723926

Std Dev = 0.0123012

$x(i+1) = 0.0635$ from measurement 12/9/2009 from location MW93-2

Rosner Statistic $R = |0.0635 - 0.00723926|/0.0123012 = 4.57359$

$\Lambda(316, 2, 0.05) = 3.7352$

Measurement 12/9/2009 for location MW93-2 is an outlier

Iteration i = 0

Mean of 316 measurements = 0.00760559

Std Dev = 0.0139013

$x(i+1) = 0.123$ from measurement 8/22/2018 from location MW03-1

Rosner Statistic $R = |0.123 - 0.00760559|/0.0139013 = 8.30097$

$\Lambda(316, 1, 0.05) = 3.736$

Measurement 8/22/2018 for location MW03-1 is an outlier

Concentrations (ppb)

Parameter: Arsenic

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 316

Total Non-Detect: 142

Percent Non-Detects: 44.9367%

Total Background Measurements: 54

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	43	31 (72.093%)	6/12/2007	0.0109	0.0109
			12/17/2007	ND<0.005	ND<0.005
			6/11/2008	ND<0.005	ND<0.005
			12/3/2008	ND<0.005	ND<0.005
			6/17/2009	ND<0.005	ND<0.005
			12/9/2009	ND<0.005	ND<0.005
			6/17/2010	ND<0.005	ND<0.005
			12/22/2010	ND<0.005	ND<0.005
			6/29/2011	ND<0.005	ND<0.005
			12/7/2011	ND<0.005	ND<0.005
			6/6/2012	ND<0.005	ND<0.005
			12/12/2012	0.0068	0.0068
			6/19/2013	ND<0.005	ND<0.005
			12/11/2013	ND<0.005	ND<0.005
			6/11/2014	ND<0.005	ND<0.005
			12/3/2014	ND<0.005	ND<0.005
			6/17/2015	ND<0.005	ND<0.005
			12/1/2015	ND<0.005	ND<0.005
			6/22/2016	ND<0	ND<0
			12/20/2016	ND<0.0005	ND<0.0005
			6/6/2017	ND<0.005	ND<0.005
			11/7/2017	ND<0.005	ND<0.005
			2/27/2018	0.006	0.006
			5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			9/27/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			5/7/2019	ND<0.005	ND<0.005
11/21/2019	ND<0.001	ND<0.001			
6/25/2020	0.000405	0.000405			
11/17/2020	0.000336	0.000336			
5/26/2021	0.000268	0.000268			
11/17/2021	0.000277	0.000277			
4/8/2022	0.000291	0.000291			
10/4/2022	0.000393	0.000393			
5/4/2023	0.00027	0.00027			
9/11/2023	0.000317	0.000317			
12/4/2023	0.000303	0.000303			
MW22-01	11	0 (0%)	4/7/2022	0.000639	0.000639

5/9/2022	0.000949	0.000949
5/31/2022	0.000386	0.000386
6/20/2022	0.000436	0.000436
7/18/2022	0.000347	0.000347
8/18/2022	0.000348	0.000348
9/13/2022	0.000382	0.000382
10/3/2022	0.000421	0.000421
5/3/2023	0.00033	0.00033
9/11/2023	0.000374	0.000374
11/30/2023	0.000311	0.000311

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	39	29 (74.359%)	6/12/2007	ND<0.005	ND<0.005
			12/17/2007	ND<0.005	ND<0.005
			6/11/2008	ND<0.005	ND<0.005
			12/3/2008	ND<0.005	ND<0.005
			6/17/2009	ND<0.005	ND<0.005
			12/9/2009	ND<0.005	ND<0.005
			6/17/2010	ND<0.005	ND<0.005
			12/22/2010	ND<0.005	ND<0.005
			6/29/2011	ND<0.005	ND<0.005
			12/7/2011	ND<0.005	ND<0.005
			6/6/2012	ND<0.005	ND<0.005
			6/19/2013	0.008	0.008
			12/11/2013	ND<0.005	ND<0.005
			6/11/2014	ND<0.005	ND<0.005
			12/3/2014	ND<0.005	ND<0.005
			6/17/2015	ND<0.005	ND<0.005
			12/1/2015	ND<0.005	ND<0.005
			6/22/2016	ND<0	ND<0
			12/20/2016	ND<0.0005	ND<0.0005
			6/6/2017	ND<0.005	ND<0.005
			11/7/2017	ND<0.005	ND<0.005
			2/27/2018	ND<0.005	ND<0.005
			5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	0.0445	0.0445
			8/22/2018	0.123	0.123
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			3/26/2019	ND<0.005	ND<0.005
			5/7/2019	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	0.000538	0.000538
11/17/2020	0.000677	0.000677			
5/26/2021	0.000249	0.000249			
11/16/2021	0.00062	0.00062			
4/8/2022	0.000455	0.000455			
5/3/2023	0.000483	0.000483			
9/13/2023	0.0032	0.0032			
MW03-2	43	41 (95.3488%)	6/12/2007	ND<0.005	ND<0.005
			12/17/2007	ND<0.005	ND<0.005

			6/11/2008	ND<0.005	ND<0.005
			12/3/2008	ND<0.005	ND<0.005
			6/17/2009	ND<0.005	ND<0.005
			12/9/2009	ND<0.005	ND<0.005
			6/17/2010	ND<0.005	ND<0.005
			12/22/2010	ND<0.005	ND<0.005
			6/29/2011	ND<0.005	ND<0.005
			12/7/2011	ND<0.005	ND<0.005
			6/6/2012	ND<0.005	ND<0.005
			12/12/2012	ND<0.005	ND<0.005
			6/19/2013	ND<0.005	ND<0.005
			12/11/2013	ND<0.005	ND<0.005
			6/11/2014	ND<0.005	ND<0.005
			12/3/2014	ND<0.005	ND<0.005
			6/17/2015	ND<0.005	ND<0.005
			12/1/2015	ND<0.005	ND<0.005
			6/22/2016	ND<0.005	ND<0.005
			12/20/2016	ND<0.0005	ND<0.0005
			6/6/2017	ND<0.005	ND<0.005
			11/7/2017	ND<0.005	ND<0.005
			2/27/2018	0.008	0.008
			5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			9/27/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			5/7/2019	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	0.000329	0.000329
			11/17/2020	ND<0.001	ND<0.001
			5/26/2021	ND<0.001	ND<0.001
			11/17/2021	ND<0.001	ND<0.001
			4/8/2022	ND<0.001	ND<0.001
			10/3/2022	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/11/2023	ND<0.001	ND<0.001
			12/1/2023	ND<0.001	ND<0.001
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MW22-02	11	1 (9.09091%)	4/7/2022	0.000948	0.000948
			5/9/2022	0.00231	0.00231
			5/31/2022	0.00233	0.00233
			6/20/2022	0.00307	0.00307
			7/19/2022	0.00217	0.00217
			8/18/2022	0.00165	0.00165
			9/13/2022	0.00208	0.00208
			10/3/2022	ND<0.01	ND<0.01
			5/4/2023	0.00249	0.00249
			9/12/2023	0.00204	0.00204
			11/30/2023	0.00194	0.00194
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MW22-03	11	0 (0%)	4/7/2022	0.00073	0.00073
			5/9/2022	0.00292	0.00292
			5/31/2022	0.00711	0.00711

			6/20/2022	0.0083	0.0083
			7/19/2022	0.00952	0.00952
			8/18/2022	0.0106	0.0106
			9/13/2022	0.00662	0.00662
			10/4/2022	0.00399	0.00399
			5/4/2023	0.00235	0.00235
			9/12/2023	0.00942	0.00942
			11/30/2023	0.000459	0.000459
MW22-04	12	0 (0%)	4/7/2022	0.000632	0.000632
			5/9/2022	0.000787	0.000787
			5/31/2022	0.000355	0.000355
			6/20/2022	0.000569	0.000569
			6/20/2022	0.00044	0.00044
			7/18/2022	0.000399	0.000399
			8/18/2022	0.000352	0.000352
			9/13/2022	0.00068	0.00068
			10/4/2022	0.000606	0.000606
			5/4/2023	0.000395	0.000395
			9/12/2023	0.000643	0.000643
			11/30/2023	0.000353	0.000353
MW22-05	12	2 (16.6667%)	4/7/2022	0.00115	0.00115
			5/9/2022	0.000327	0.000327
			5/31/2022	0.000227	0.000227
			6/20/2022	0.000324	0.000324
			7/18/2022	0.000234	0.000234
			8/18/2022	0.00022	0.00022
			9/13/2022	0.000266	0.000266
			10/3/2022	0.00028	0.00028
			5/3/2023	ND<0.001	ND<0.001
			5/3/2023	ND<0.001	ND<0.001
			9/11/2023	0.000229	0.000229
			12/1/2023	0.000271	0.000271
MW22-06	12	0 (0%)	4/8/2022	0.000247	0.000247
			5/9/2022	0.000381	0.000381
			5/31/2022	0.00028	0.00028
			6/20/2022	0.000435	0.000435
			7/18/2022	0.000317	0.000317
			8/18/2022	0.000344	0.000344
			8/18/2022	0.000269	0.000269
			9/13/2022	0.000288	0.000288
			10/3/2022	0.000357	0.000357
			5/3/2023	0.000455	0.000455
			9/11/2023	0.000416	0.000416
			12/1/2023	0.00029	0.00029
MW22-07	11	0 (0%)	4/8/2022	0.000522	0.000522
			5/9/2022	0.000517	0.000517
			5/31/2022	0.000596	0.000596
			6/20/2022	0.000611	0.000611
			7/19/2022	0.000502	0.000502
			8/18/2022	0.000314	0.000314
			9/13/2022	0.00036	0.00036
			10/4/2022	0.000341	0.000341
			5/4/2023	0.000508	0.000508

			9/12/2023	0.000242	0.000242
			12/4/2023	0.000322	0.000322
MW22-08	12	0 (0%)	4/8/2022	0.000622	0.000622
			5/9/2022	0.000463	0.000463
			5/31/2022	0.000432	0.000432
			5/31/2022	0.000402	0.000402
			6/20/2022	0.000583	0.000583
			7/18/2022	0.000506	0.000506
			8/18/2022	0.000504	0.000504
			9/13/2022	0.000502	0.000502
			10/4/2022	0.000542	0.000542
			5/3/2023	0.000393	0.000393
			9/12/2023	0.000529	0.000529
			12/1/2023	0.000396	0.000396
MW93-2	44	3 (6.81818%)	6/12/2007	0.0343	0.0343
			12/17/2007	0.0603	0.0603
			6/11/2008	0.051	0.051
			12/3/2008	0.033	0.033
			6/17/2009	0.0525	0.0525
			12/9/2009	0.0635	0.0635
			6/17/2010	0.0179	0.0179
			12/22/2010	0.0215	0.0215
			6/29/2011	0.061	0.061
			12/7/2011	ND<0.005	ND<0.005
			6/6/2012	0.0098	0.0098
			12/12/2012	0.0562	0.0562
			6/19/2013	ND<0.005	ND<0.005
			12/11/2013	0.0353	0.0353
			6/11/2014	0.0197	0.0197
			12/3/2014	0.0274	0.0274
			6/17/2015	ND<0.005	ND<0.005
			12/1/2015	0.03	0.03
			6/22/2016	0.047	0.047
			12/20/2016	0.06	0.06
			6/6/2017	0.038	0.038
			11/7/2017	0.028	0.028
			2/27/2018	0.024	0.024
			5/24/2018	0.0292	0.0292
			6/19/2018	0.0274	0.0274
			7/19/2018	0.0367	0.0367
			8/22/2018	0.0333	0.0333
			9/19/2018	0.0344	0.0344
			9/27/2018	0.0389	0.0389
			10/18/2018	0.0378	0.0378
			11/20/2018	0.0313	0.0313
			12/20/2018	0.0285	0.0285
			5/7/2019	0.0259	0.0259
			11/21/2019	0.0197	0.0197
			6/25/2020	0.0176	0.0176
			11/16/2020	0.0204	0.0204
			5/26/2021	0.0148	0.0148
			11/17/2021	0.0266	0.0266
			4/8/2022	0.0213	0.0213
			10/4/2022	0.0535	0.0535
			10/4/2022	0.0556	0.0556

			5/4/2023	0.0244	0.0244
			9/12/2023	0.0433	0.0433
			11/30/2023	0.0387	0.0387
MW93-3	43	34 (79.0698%)	6/12/2007	ND<0.005	ND<0.005
			12/17/2007	ND<0.005	ND<0.005
			6/11/2008	ND<0.005	ND<0.005
			12/3/2008	ND<0.005	ND<0.005
			6/17/2009	ND<0.005	ND<0.005
			12/9/2009	ND<0.005	ND<0.005
			6/17/2010	ND<0.005	ND<0.005
			12/22/2010	ND<0.005	ND<0.005
			6/29/2011	ND<0.005	ND<0.005
			12/7/2011	ND<0.005	ND<0.005
			6/6/2012	ND<0.005	ND<0.005
			12/12/2012	ND<0.005	ND<0.005
			6/19/2013	ND<0.005	ND<0.005
			12/11/2013	ND<0.005	ND<0.005
			6/11/2014	ND<0.005	ND<0.005
			12/3/2014	ND<0.005	ND<0.005
			6/17/2015	ND<0.005	ND<0.005
			12/1/2015	ND<0.005	ND<0.005
			6/22/2016	ND<0.005	ND<0.005
			12/20/2016	ND<0.0005	ND<0.0005
			6/6/2017	ND<0.005	ND<0.005
			11/7/2017	ND<0.005	ND<0.005
			2/27/2018	ND<0.005	ND<0.005
			5/24/2018	ND<0.005	ND<0.005
			6/19/2018	ND<0.005	ND<0.005
			7/19/2018	ND<0.005	ND<0.005
			8/22/2018	ND<0.005	ND<0.005
			9/19/2018	ND<0.005	ND<0.005
			9/27/2018	ND<0.005	ND<0.005
			10/18/2018	ND<0.005	ND<0.005
			11/20/2018	ND<0.005	ND<0.005
			12/20/2018	ND<0.005	ND<0.005
			5/7/2019	ND<0.005	ND<0.005
			11/21/2019	ND<0.001	ND<0.001
			6/25/2020	0.000572	0.000572
			11/16/2020	0.00059	0.00059
			5/26/2021	0.000522	0.000522
			11/17/2021	0.00062	0.00062
			4/8/2022	0.000685	0.000685
			10/4/2022	0.000641	0.000641
			5/3/2023	0.000506	0.000506
			9/12/2023	0.000515	0.000515
			11/30/2023	0.00057	0.00057
MW23-01	2	0 (0%)	9/13/2023	0.00132	0.00132
			12/1/2023	0.000467	0.000467
MW23-02	2	1 (50%)	9/13/2023	ND<0.001	ND<0.001
			12/1/2023	0.000224	0.000224
MW23-03	2	0 (0%)	9/13/2023	0.00191	0.00191
			12/1/2023	0.00373	0.00373

MW23-04	2	0 (0%)	9/13/2023	0.00117	0.00117
			12/4/2023	0.00123	0.00123
MW23-05	2	0 (0%)	9/12/2023	0.000444	0.000444
			12/4/2023	0.000533	0.000533
MW23-06	2	0 (0%)	9/13/2023	0.000649	0.000649
			12/4/2023	0.00066	0.00066

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Concentrations (ppb)

Parameter: Antimony

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 190

Total Non-Detect: 189

Percent Non-Detects: 99.4737%

Total Background Measurements: 29

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	18	18 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.01	ND<0.01
			6/25/2020	ND<0.005	ND<0.005
			11/17/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
			9/11/2023	ND<0.005	ND<0.005
12/4/2023	ND<0.005	ND<0.005			
MW22-01	11	11 (100%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			9/11/2023	ND<0.005	ND<0.005
			11/30/2023	ND<0.005	ND<0.005

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	16	16 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			3/26/2019	ND<0.01	ND<0.01
			11/21/2019	ND<0.002	ND<0.002
			6/25/2020	ND<0.005	ND<0.005

			11/17/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/16/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			9/13/2023	ND<0.005	ND<0.005
MW03-2	18	18 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.002	ND<0.002
			6/25/2020	ND<0.005	ND<0.005
			11/17/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0	ND<0
			5/3/2023	ND<0.005	ND<0.005
			9/11/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005
MW22-03	11	11 (100%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
			9/12/2023	ND<0.005	ND<0.005
			11/30/2023	ND<0.005	ND<0.005
MW22-04	11	11 (100%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
			9/12/2023	ND<0.005	ND<0.005
			11/30/2023	ND<0.005	ND<0.005
MW22-05	12	12 (100%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005

			10/3/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			9/11/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005
MW22-06	11	11 (100%)	4/8/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			9/11/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005
MW22-07	11	11 (100%)	4/8/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
			9/12/2023	ND<0.005	ND<0.005
			12/4/2023	ND<0.005	ND<0.005
MW22-08	11	11 (100%)	4/8/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/3/2023	ND<0.005	ND<0.005
			9/12/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005
MW22-02	11	11 (100%)	4/7/2022	ND<0.005	ND<0.005
			5/9/2022	ND<0.005	ND<0.005
			5/31/2022	ND<0.005	ND<0.005
			6/20/2022	ND<0.005	ND<0.005
			7/18/2022	ND<0.005	ND<0.005
			8/18/2022	ND<0.005	ND<0.005
			9/13/2022	ND<0.005	ND<0.005
			10/3/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
			9/12/2023	ND<0.005	ND<0.005
			11/30/2023	ND<0.005	ND<0.005
MW93-2	19	19 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01

			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.002	ND<0.002
			6/25/2020	ND<0.005	ND<0.005
			11/16/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0.005	ND<0.005
			5/4/2023	ND<0.005	ND<0.005
			9/12/2023	ND<0.005	ND<0.005
			11/30/2023	ND<0.005	ND<0.005

MW93-3	18	18 (100%)	5/24/2018	ND<0.01	ND<0.01
			6/19/2018	ND<0.01	ND<0.01
			7/19/2018	ND<0.01	ND<0.01
			8/22/2018	ND<0.01	ND<0.01
			9/19/2018	ND<0.01	ND<0.01
			10/18/2018	ND<0.01	ND<0.01
			11/20/2018	ND<0.01	ND<0.01
			12/20/2018	ND<0.01	ND<0.01
			11/21/2019	ND<0.002	ND<0.002
			6/25/2020	ND<0.005	ND<0.005
			11/16/2020	ND<0.005	ND<0.005
			5/26/2021	ND<0.005	ND<0.005
			11/17/2021	ND<0.005	ND<0.005
			4/8/2022	ND<0.005	ND<0.005
			10/4/2022	ND<0	ND<0
			5/3/2023	ND<0.005	ND<0.005
			9/12/2023	ND<0.005	ND<0.005
			11/30/2023	ND<0.005	ND<0.005

MW23-03	2	1 (50%)	9/13/2023	0.00294	0.00294
			12/1/2023	ND<0.005	ND<0.005

MW23-01	2	2 (100%)	9/13/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005

MW23-02	2	2 (100%)	9/13/2023	ND<0.005	ND<0.005
			12/1/2023	ND<0.005	ND<0.005

MW23-04	2	2 (100%)	9/13/2023	ND<0.005	ND<0.005
			12/4/2023	ND<0.005	ND<0.005

MW23-05	2	2 (100%)	9/12/2023	ND<0.005	ND<0.005
			12/4/2023	ND<0.005	ND<0.005

MW23-06	2	2 (100%)	9/13/2023	ND<0.005	ND<0.005
			12/4/2023	ND<0.005	ND<0.005

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Alkalinity

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 0%

Number of comparisons = 17

Future Samples (k) = 8

Recent Dates = 1

Background Measurements (n) = 90

Maximum Background Value = 637

Confidence Level = 91.8%

False Positive Rate = 8.2%

Location	Date	Count	Mean	Significant
MW03-1	5/3/2023	1	77.6	FALSE
MW03-2	12/1/2023	1	217	FALSE
MW22-02	11/30/2023	1	374	FALSE
MW22-03	11/30/2023	1	257	FALSE
MW22-04	11/30/2023	1	118	FALSE
MW22-05	12/1/2023	1	396	FALSE
MW22-06	12/1/2023	1	276	FALSE
MW22-07	12/4/2023	1	314	FALSE
MW22-08	12/1/2023	1	404	FALSE
MW93-2	11/30/2023	1	89.2	FALSE
MW93-3	11/30/2023	1	577	FALSE
MW23-01	12/1/2023	1	241	FALSE
MW23-02	12/1/2023	1	197	FALSE
MW23-03	12/1/2023	1	238	FALSE
MW23-04	12/4/2023	1	266	FALSE
MW23-05	12/4/2023	1	435	FALSE
MW23-06	12/4/2023	1	169	FALSE

Shapiro-Francia Test of Normality

Parameter: Alkalinity

All Locations

Normality Test of Parameter Concentrations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Number of Measurements = 425

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	30.2	-2.87815	8.28375	-86.9201
2	40.8	-2.65209	15.3173	-195.125
3	55	-2.45727	21.3555	-330.275
4	55	-2.36561	26.9516	-460.384
5	56	-2.29036	32.1974	-588.644
6	72	-2.19728	37.0255	-746.849
7	76	-2.14441	41.6239	-909.824
8	77.6	-2.09693	46.0211	-1072.55
9	83	-2.03352	50.1563	-1241.33
10	83.4	-1.99539	54.1379	-1407.74
11	83.8	-1.95996	57.9793	-1571.99
12	88.5	-1.91103	61.6313	-1741.11
13	89.2	-1.88079	65.1687	-1908.88
14	92	-1.85218	68.5993	-2079.28
15	96.2	-1.81191	71.8823	-2253.59
16	97.1	-1.78661	75.0743	-2427.07
17	103	-1.76241	78.1804	-2608.6
18	108	-1.72793	81.1661	-2795.21
19	115	-1.70604	84.0767	-2991.41
20	118	-1.68494	86.9157	-3190.23
21	123	-1.65463	89.6535	-3393.75
22	126	-1.63524	92.3275	-3599.79
23	130	-1.61644	94.9404	-3809.93
24	134	-1.58927	97.4661	-4022.89
25	140	-1.57179	99.9367	-4242.94
26	144	-1.54643	102.328	-4465.62
27	144	-1.53007	104.669	-4685.95
28	144	-1.5141	106.962	-4903.98
29	149	-1.49085	109.184	-5126.12
30	150	-1.47579	111.362	-5347.49
31	154	-1.46106	113.497	-5572.49
32	160	-1.43953	115.569	-5802.82
33	162.2	-1.42554	117.601	-6034.04
34	169	-1.41183	119.595	-6272.64
35	170	-1.39175	121.532	-6509.24
36	175	-1.37866	123.432	-6750.5
37	176	-1.36581	125.298	-6990.88
38	180	-1.34694	127.112	-7233.33
39	180	-1.33462	128.893	-7473.57
40	183	-1.32251	130.642	-7715.58
41	184	-1.30469	132.344	-7955.65
42	184	-1.29303	134.016	-8193.56
43	185	-1.28155	135.659	-8430.65
44	190	-1.26464	137.258	-8670.93
45	191	-1.25357	138.83	-8910.36
46	192	-1.24264	140.374	-9148.95
47	192	-1.22653	141.878	-9384.45

48	194	-1.21596	143.357	-9620.34
49	196	-1.20036	144.797	-9855.61
50	196	-1.19012	146.214	-10088.9
51	197	-1.18	147.606	-10321.3
52	199.4	-1.16505	148.964	-10553.6
53	200	-1.15522	150.298	-10784.7
54	200	-1.1455	151.61	-11013.8
55	200	-1.13113	152.89	-11240
56	200	-1.12168	154.148	-11464.4
57	200	-1.11232	155.385	-11686.8
58	200	-1.09847	156.592	-11906.5
59	200	-1.08935	157.779	-12124.4
60	200	-1.08032	158.946	-12340.4
61	200	-1.06694	160.084	-12553.8
62	200	-1.05812	161.204	-12765.5
63	200	-1.04939	162.305	-12975.3
64	200	-1.03643	163.379	-13182.6
65	201	-1.02789	164.436	-13389.2
66	202	-1.01943	165.475	-13595.2
67	204	-1.00687	166.489	-13800.6
68	204	-0.998575	167.486	-14004.3
69	204	-0.990356	168.467	-14206.3
70	206	-0.97815	169.423	-14407.8
71	206	-0.970094	170.364	-14607.6
72	208	-0.958125	171.282	-14806.9
73	208	-0.950222	172.185	-15004.6
74	208	-0.942375	173.073	-15200.6
75	208	-0.930718	173.94	-15394.2
76	208	-0.923014	174.792	-15586.2
77	209	-0.915365	175.629	-15777.5
78	209	-0.903992	176.447	-15966.4
79	210	-0.896473	177.25	-16154.7
80	210	-0.889006	178.041	-16341.4
81	210	-0.877897	178.811	-16525.7
82	210	-0.87055	179.569	-16708.5
83	210	-0.863249	180.314	-16889.8
84	211.6	-0.852385	181.041	-17070.2
85	212	-0.845198	181.755	-17249.4
86	212	-0.838054	182.458	-17427
87	212	-0.827417	183.142	-17602.4
88	214	-0.820379	183.815	-17778
89	214	-0.813379	184.477	-17952.1
90	214	-0.802956	185.122	-18123.9
91	215	-0.796056	185.755	-18295
92	215	-0.789191	186.378	-18464.7
93	216	-0.778966	186.985	-18633
94	216	-0.772193	187.581	-18799.8
95	216	-0.7621	188.162	-18964.4
96	216	-0.755415	188.733	-19127.6
97	216	-0.748762	189.293	-19289.3
98	216	-0.738846	189.839	-19448.9
99	217	-0.732275	190.375	-19607.8
100	217	-0.725736	190.902	-19765.3
101	219	-0.715986	191.415	-19922.1
102	220	-0.709522	191.918	-20078.2
103	220	-0.703089	192.413	-20232.8
104	220	-0.693493	192.893	-20385.4

105	220	-0.687131	193.366	-20536.6
106	220	-0.680797	193.829	-20686.4
107	220	-0.671346	194.28	-20834.1
108	220	-0.665079	194.722	-20980.4
109	220	-0.658838	195.156	-21125.3
110	220	-0.649522	195.578	-21268.2
111	220	-0.643345	195.992	-21409.7
112	220	-0.637192	196.398	-21549.9
113	221	-0.628006	196.792	-21688.7
114	222	-0.621911	197.179	-21826.8
115	222	-0.615839	197.558	-21963.5
116	222	-0.606775	197.927	-22098.2
117	222	-0.60076	198.288	-22231.6
118	223	-0.594766	198.641	-22364.2
119	224	-0.585815	198.984	-22495.4
120	224	-0.579873	199.321	-22625.3
121	224	-0.570999	199.647	-22753.2
122	224	-0.565108	199.966	-22879.8
123	225	-0.559237	200.279	-23005.6
124	225	-0.550465	200.582	-23129.5
125	225	-0.544642	200.878	-23252
126	226	-0.538836	201.169	-23373.8
127	226	-0.530162	201.45	-23493.6
128	226	-0.524401	201.725	-23612.1
129	226	-0.518658	201.994	-23729.4
130	226	-0.510074	202.254	-23844.6
131	226	-0.504372	202.508	-23958.6
132	227	-0.498687	202.757	-24071.8
133	228	-0.490189	202.997	-24183.6
134	228	-0.484544	203.232	-24294.1
135	228	-0.478914	203.462	-24403.3
136	228	-0.470498	203.683	-24510.5
137	230	-0.464904	203.899	-24617.5
138	230	-0.459327	204.11	-24723.1
139	230	-0.450985	204.313	-24826.8
140	230	-0.445443	204.512	-24929.3
141	230	-0.439913	204.705	-25030.5
142	230	-0.431644	204.892	-25129.7
143	230	-0.426148	205.073	-25227.8
144	232	-0.417928	205.248	-25324.7
145	232	-0.412463	205.418	-25420.4
146	232	-0.40701	205.584	-25514.8
147	234	-0.398855	205.743	-25608.2
148	234	-0.393433	205.898	-25700.2
149	235	-0.388022	206.048	-25791.4
150	235	-0.379927	206.193	-25880.7
151	236	-0.374544	206.333	-25969.1
152	236	-0.369171	206.469	-26056.2
153	236	-0.361133	206.6	-26141.4
154	236	-0.355788	206.726	-26225.4
155	238	-0.350451	206.849	-26308.8
156	239	-0.342466	206.966	-26390.7
157	240	-0.337155	207.08	-26471.6
158	240	-0.331854	207.19	-26551.2
159	240	-0.323919	207.295	-26629
160	240	-0.318639	207.396	-26705.4
161	240	-0.31337	207.495	-26780.6

162	240	-0.305481	207.588	-26854
163	240	-0.300232	207.678	-26926
164	240	-0.294992	207.765	-26996.8
165	240	-0.287147	207.848	-27065.7
166	240	-0.281926	207.927	-27133.4
167	240	-0.27411	208.002	-27199.2
168	241	-0.268908	208.075	-27264
169	242	-0.263715	208.144	-27327.8
170	244	-0.255936	208.21	-27390.3
171	244	-0.250759	208.272	-27451.4
172	244	-0.24559	208.333	-27511.4
173	244	-0.237847	208.389	-27569.4
174	245	-0.232693	208.443	-27626.4
175	245	-0.227545	208.495	-27682.2
176	246	-0.219834	208.544	-27736.2
177	246	-0.214702	208.59	-27789
178	246	-0.209575	208.634	-27840.6
179	246	-0.201894	208.674	-27890.3
180	247	-0.196779	208.713	-27938.9
181	247	-0.191671	208.75	-27986.2
182	248	-0.184017	208.784	-28031.9
183	249	-0.17892	208.816	-28076.4
184	249	-0.173829	208.846	-28119.7
185	250	-0.166199	208.874	-28161.2
186	250	-0.161119	208.899	-28201.5
187	250	-0.156042	208.924	-28240.5
188	250	-0.148434	208.946	-28277.6
189	250	-0.143367	208.966	-28313.5
190	250	-0.135774	208.985	-28347.4
191	250	-0.130716	209.002	-28380.1
192	252	-0.125661	209.018	-28411.8
193	252	-0.118085	209.032	-28441.5
194	252	-0.113039	209.044	-28470
195	252	-0.107995	209.056	-28497.2
196	253	-0.100433	209.066	-28522.6
197	254	-0.0953969	209.075	-28546.9
198	254	-0.0903606	209.083	-28569.8
199	255	-0.0828129	209.09	-28590.9
200	255	-0.0777834	209.096	-28610.8
201	255	-0.0727562	209.102	-28629.3
202	256	-0.0652187	209.106	-28646
203	256	-0.0601949	209.11	-28661.4
204	256	-0.0551734	209.113	-28675.6
205	257	-0.0476439	209.115	-28687.8
206	258	-0.0426257	209.117	-28698.8
207	260	-0.0376076	209.118	-28708.6
208	261	-0.0300838	209.119	-28716.4
209	262	-0.0250691	209.12	-28723
210	262	-0.0200544	209.12	-28728.2
211	262	-0.0125328	209.12	-28731.5
212	263	-0.00751925	209.12	-28733.5
213	264	0	209.12	-28733.5
214	264	0.00751925	209.12	-28731.5
215	264	0.0125328	209.12	-28728.2
216	264	0.0200544	209.121	-28722.9
217	264	0.0250691	209.121	-28716.3
218	266	0.0300838	209.122	-28708.3

219	266	0.0376076	209.124	-28698.3
220	266	0.0426257	209.126	-28687
221	266	0.0476439	209.128	-28674.3
222	268	0.0551734	209.131	-28659.5
223	268	0.0601949	209.135	-28643.4
224	268	0.0652187	209.139	-28625.9
225	268	0.0727562	209.144	-28606.4
226	269	0.0777834	209.15	-28585.5
227	269	0.0828129	209.157	-28563.2
228	270	0.0903606	209.165	-28538.8
229	270	0.0953969	209.174	-28513
230	271	0.100433	209.184	-28485.8
231	271	0.107995	209.196	-28456.6
232	272	0.113039	209.209	-28425.8
233	273	0.118085	209.223	-28393.6
234	274	0.125661	209.239	-28359.1
235	276	0.130716	209.256	-28323.1
236	276	0.135774	209.274	-28285.6
237	277	0.143367	209.295	-28245.9
238	278	0.148434	209.317	-28204.6
239	280	0.156042	209.341	-28160.9
240	280	0.161119	209.367	-28115.8
241	280	0.166199	209.395	-28069.3
242	281	0.173829	209.425	-28020.4
243	282	0.17892	209.457	-27970
244	282	0.184017	209.491	-27918.1
245	284	0.191671	209.527	-27863.6
246	288	0.196779	209.566	-27807
247	288	0.201894	209.607	-27748.8
248	288	0.209575	209.651	-27688.5
249	288	0.214702	209.697	-27626.6
250	288	0.219834	209.745	-27563.3
251	289	0.227545	209.797	-27497.6
252	290	0.232693	209.851	-27430.1
253	290	0.237847	209.908	-27361.1
254	290	0.24559	209.968	-27289.9
255	290	0.250759	210.031	-27217.2
256	293	0.255936	210.096	-27142.2
257	294	0.263715	210.166	-27064.6
258	296	0.268908	210.238	-26985
259	296	0.27411	210.313	-26903.9
260	297	0.281926	210.393	-26820.2
261	299	0.287147	210.475	-26734.3
262	300	0.294992	210.562	-26645.8
263	300	0.300232	210.653	-26555.7
264	300	0.305481	210.746	-26464.1
265	301	0.31337	210.844	-26369.8
266	303	0.318639	210.946	-26273.2
267	304	0.323919	211.051	-26174.8
268	306	0.331854	211.161	-26073.2
269	308	0.337155	211.274	-25969.4
270	308	0.342466	211.392	-25863.9
271	309	0.350451	211.514	-25755.6
272	310	0.355788	211.641	-25645.3
273	311	0.361133	211.771	-25533
274	312	0.369171	211.908	-25417.8
275	314	0.374544	212.048	-25300.2

276	314	0.379927	212.192	-25180.9
277	316	0.388022	212.343	-25058.3
278	318	0.393433	212.498	-24933.2
279	320	0.398855	212.657	-24805.5
280	320	0.40701	212.822	-24675.3
281	320	0.412463	212.993	-24543.3
282	320	0.417928	213.167	-24409.6
283	324	0.426148	213.349	-24271.5
284	326	0.431644	213.535	-24130.8
285	326	0.439913	213.729	-23987.4
286	327	0.445443	213.927	-23841.7
287	328	0.450985	214.13	-23693.8
288	329	0.459327	214.341	-23542.7
289	329	0.464904	214.558	-23389.7
290	330	0.470498	214.779	-23234.5
291	330	0.478914	215.008	-23076.4
292	330	0.484544	215.243	-22916.5
293	330	0.490189	215.483	-22754.8
294	330	0.498687	215.732	-22590.2
295	330	0.504372	215.986	-22423.7
296	330.4	0.510074	216.247	-22255.2
297	332	0.518658	216.516	-22083
298	332	0.524401	216.791	-21908.9
299	334	0.530162	217.072	-21731.8
300	336	0.538836	217.362	-21550.8
301	338	0.544642	217.659	-21366.7
302	340	0.550465	217.962	-21179.6
303	340	0.559237	218.274	-20989.4
304	340	0.565108	218.594	-20797.3
305	340	0.570999	218.92	-20603.1
306	340	0.579873	219.256	-20406
307	340	0.585815	219.599	-20206.8
308	340	0.594766	219.953	-20004.6
309	342	0.60076	220.314	-19799.1
310	342	0.606775	220.682	-19591.6
311	344	0.615839	221.061	-19379.8
312	344	0.621911	221.448	-19165.8
313	346	0.628006	221.843	-18948.5
314	347	0.637192	222.249	-18727.4
315	348	0.643345	222.662	-18503.5
316	350	0.649522	223.084	-18276.2
317	350	0.658838	223.518	-18045.6
318	350	0.665079	223.961	-17812.8
319	353	0.671346	224.411	-17575.8
320	356	0.680797	224.875	-17333.5
321	358	0.687131	225.347	-17087.5
322	360	0.693493	225.828	-16837.8
323	360	0.703089	226.322	-16584.7
324	360	0.709522	226.826	-16329.3
325	360	0.715986	227.338	-16071.5
326	360	0.725736	227.865	-15810.3
327	360	0.732275	228.401	-15546.7
328	360	0.738846	228.947	-15280.7
329	362	0.748762	229.508	-15009.6
330	363	0.755415	230.078	-14735.4
331	364	0.7621	230.659	-14458
332	364	0.772193	231.256	-14176.9

333	365	0.778966	231.862	-13892.6
334	365	0.789191	232.485	-13604.5
335	366	0.796056	233.119	-13313.2
336	367	0.802956	233.764	-13018.5
337	367	0.813379	234.425	-12720
338	368	0.820379	235.098	-12418.1
339	368	0.827417	235.783	-12113.6
340	370	0.838054	236.485	-11803.5
341	370	0.845198	237.2	-11490.8
342	370	0.852385	237.926	-11175.4
343	370	0.863249	238.671	-10856
344	371	0.87055	239.429	-10533
345	373	0.877897	240.2	-10205.6
346	374	0.889006	240.99	-9873.1
347	374	0.896473	241.794	-9537.82
348	375	0.903992	242.611	-9198.82
349	376	0.915365	243.449	-8854.64
350	377	0.923014	244.301	-8506.67
351	380	0.930718	245.167	-8152.99
352	380	0.942375	246.055	-7794.89
353	380	0.950222	246.958	-7433.81
354	381	0.958125	247.876	-7068.76
355	382	0.970094	248.817	-6698.18
356	383	0.97815	249.774	-6323.55
357	384	0.990356	250.755	-5943.26
358	384	0.998575	251.752	-5559.8
359	384	1.00687	252.766	-5173.17
360	384	1.01943	253.805	-4781.71
361	384	1.02789	254.862	-4387
362	387	1.03643	255.936	-3985.9
363	388	1.04939	257.037	-3578.73
364	389	1.05812	258.157	-3167.13
365	390	1.06694	259.295	-2751.02
366	390	1.08032	260.462	-2329.69
367	391	1.08935	261.649	-1903.76
368	393	1.09847	262.855	-1472.06
369	393	1.11232	264.093	-1034.92
370	393	1.12168	265.351	-594.099
371	394	1.13113	266.63	-148.433
372	395	1.1455	267.942	304.041
373	395	1.15522	269.277	760.354
374	395.4	1.16505	270.634	1221.01
375	396	1.18	272.027	1688.29
376	397	1.19012	273.443	2160.77
377	398	1.20036	274.884	2638.51
378	400	1.21596	276.362	3124.9
379	400	1.22653	277.867	3615.51
380	404	1.24264	279.411	4117.54
381	404	1.25357	280.982	4623.98
382	404	1.26464	282.582	5134.89
383	405	1.28155	284.224	5653.92
384	406	1.29303	285.896	6178.89
385	409	1.30469	287.598	6712.51
386	412	1.32251	289.347	7257.38
387	414	1.33462	291.128	7809.92
388	415	1.34694	292.943	8368.9
389	416	1.36581	294.808	8937.07

390	422	1.37866	296.709	9518.86
391	423	1.39175	298.646	10107.6
392	424	1.41183	300.639	10706.2
393	430	1.42554	302.671	11319.2
394	435	1.43953	304.743	11945.4
395	437	1.46106	306.878	12583.9
396	440	1.47579	309.056	13233.2
397	441	1.49085	311.279	13890.7
398	450	1.5141	313.571	14572
399	473	1.53007	315.912	15295.7
400	480	1.54643	318.304	16038
401	514	1.57179	320.774	16845.9
402	514	1.58927	323.3	17662.8
403	515	1.61644	325.913	18495.3
404	517	1.63524	328.587	19340.7
405	517	1.65463	331.325	20196.1
406	520	1.68494	334.164	21072.3
407	524	1.70604	337.074	21966.3
408	525	1.72793	340.06	22873.4
409	527	1.76241	343.166	23802.2
410	532	1.78661	346.358	24752.7
411	542	1.81191	349.641	25734.7
412	549	1.85218	353.072	26751.6
413	550	1.88079	356.609	27786
414	552	1.91103	360.261	28840.9
415	555	1.95996	364.103	29928.7
416	576	1.99539	368.084	31078
417	577	2.03352	372.219	32251.4
418	581	2.09693	376.617	33469.7
419	585	2.14441	381.215	34724.2
420	585	2.19728	386.043	36009.6
421	590	2.29036	391.289	37360.9
422	598	2.36561	396.885	38775.5
423	619	2.45727	402.923	40296.6
424	631	2.65209	409.957	41970.1
425	637	2.87815	418.241	43803.4

Data Set Standard Deviation = 106.489

Numerator = 1.91874e+009

Denominator = 2.01094e+009

W Statistic = 0.954152 = 1.91874e+009 / 2.01094e+009

5% Critical value of 0.976 exceeds 0.954152

Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.954152

Evidence of non-normality at 99% level of significance

Concentrations (ppb)

Parameter: Alkalinity

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 425

Total Non-Detect: 0

Percent Non-Detects: 0%

Total Background Measurements: 90

There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW93-1	79	0 (0%)	12/15/1994	367	367
			12/14/1995	334	334
			3/6/1996	384	384
			4/25/1996	363	363
			10/2/1996	365	365
			12/10/1996	346	346
			3/11/1997	350	350
			4/15/1997	330	330
			8/14/1997	400	400
			12/4/1997	380	380
			3/31/1998	360	360
			6/23/1998	390	390
			8/11/1998	389	389
			12/8/1998	376	376
			3/9/1999	340	340
			6/8/1999	395	395
			8/19/1999	400	400
			12/14/1999	360	360
			3/7/2000	384	384
			6/23/2000	364	364
			12/12/2000	450	450
			3/27/2001	362	362
			6/28/2001	340	340
			9/10/2001	326	326
			12/18/2001	326	326
			3/19/2002	330	330
			6/26/2002	350	350
			9/18/2002	353	353
			12/11/2002	344	344
			3/13/2003	320	320
			6/25/2003	336	336
			9/26/2003	320	320
			12/10/2003	324	324
			3/9/2004	329	329
			6/24/2004	348	348
			9/15/2004	332	332
			12/15/2004	327	327
			3/16/2005	340	340
			6/15/2005	330	330
			9/21/2005	347	347
			12/21/2005	340	340
			3/15/2006	320	320
			6/21/2006	314	314
			12/20/2006	300	300
			6/12/2007	310	310

12/17/2007	330	330
6/11/2008	370	370
12/3/2008	344	344
6/17/2009	350	350
12/9/2009	370	370
6/17/2010	380	380
12/22/2010	370	370
6/29/2011	366	366
12/7/2011	370	370
6/6/2012	384	384
12/12/2012	330	330
6/19/2013	360	360
12/11/2013	358	358
6/11/2014	342	342
12/3/2014	368	368
6/17/2015	380	380
12/1/2015	383	383
6/22/2016	390	390
12/20/2016	395.4	395.4
6/6/2017	398	398
11/7/2017	394	394
2/27/2018	384	384
9/27/2018	360	360
5/7/2019	550	550
11/21/2019	480	480
6/25/2020	542	542
11/17/2020	473	473
5/26/2021	441	441
11/17/2021	393	393
4/8/2022	406	406
10/4/2022	405	405
5/4/2023	374	374
9/11/2023	387	387
12/4/2023	416	416

MW22-01	11	0 (0%)	4/7/2022	637	637
			5/9/2022	631	631
			5/31/2022	555	555
			6/20/2022	532	532
			7/18/2022	514	514
			8/18/2022	552	552
			9/13/2022	514	514
			10/3/2022	517	517
			5/3/2023	517	517
			9/11/2023	515	515
			11/30/2023	524	524

There are 17 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW03-1	37	0 (0%)	6/24/2004	209	209
			9/15/2004	220	220
			12/15/2004	184	184
			3/16/2005	160	160
			6/15/2005	252	252
			9/21/2005	180	180

12/20/2006	204	204
6/12/2007	200	200
12/17/2007	190	190
6/11/2008	200	200
12/3/2008	206	206
6/17/2009	204	204
12/9/2009	216	216
6/17/2010	232	232
12/22/2010	216	216
6/29/2011	210	210
12/7/2011	222	222
6/6/2012	216	216
6/19/2013	144	144
12/11/2013	212	212
6/11/2014	222	222
12/3/2014	194	194
6/17/2015	134	134
12/1/2015	150	150
6/22/2016	130	130
12/20/2016	211.6	211.6
6/6/2017	56	56
11/7/2017	217	217
2/27/2018	72	72
5/7/2019	55	55
11/21/2019	55	55
6/25/2020	126	126
11/17/2020	234	234
5/26/2021	30.2	30.2
11/16/2021	103	103
4/8/2022	40.8	40.8
5/3/2023	77.6	77.6

MW03-2 45 0 (0%)

6/24/2004	235	235
9/15/2004	200	200
12/15/2004	222	222
3/16/2005	220	220
6/15/2005	252	252
9/21/2005	224	224
12/21/2005	230	230
3/15/2006	220	220
6/21/2006	228	228
12/20/2006	220	220
6/12/2007	228	228
12/17/2007	200	200
6/11/2008	200	200
12/3/2008	210	210
6/17/2009	200	200
12/9/2009	208	208
6/17/2010	216	216
12/22/2010	230	230
6/29/2011	224	224
12/7/2011	236	236
6/6/2012	230	230
12/12/2012	242	242
6/19/2013	232	232
12/11/2013	230	230
6/11/2014	92	92

			12/3/2014	76	76
			6/17/2015	220	220
			12/1/2015	214	214
			6/22/2016	204	204
			12/20/2016	199.4	199.4
			6/6/2017	192	192
			11/7/2017	192	192
			2/27/2018	196	196
			9/27/2018	185	185
			5/7/2019	220	220
			11/21/2019	220	220
			6/25/2020	223	223
			11/17/2020	209	209
			5/26/2021	220	220
			11/17/2021	208	208
			4/8/2022	230	230
			10/3/2022	219	219
			5/3/2023	215	215
			9/11/2023	221	221
			12/1/2023	217	217
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MW22-02	11	0 (0%)	4/7/2022	277	277
			5/9/2022	367	367
			5/31/2022	225	225
			6/20/2022	212	212
			7/19/2022	360	360
			8/18/2022	414	414
			9/13/2022	381	381
			10/3/2022	371	371
			5/4/2023	183	183
			9/12/2023	423	423
			11/30/2023	374	374
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MW22-03	11	0 (0%)	4/7/2022	216	216
			5/9/2022	216	216
			5/31/2022	245	245
			6/20/2022	245	245
			7/19/2022	249	249
			8/18/2022	271	271
			9/13/2022	226	226
			10/4/2022	200	200
			5/4/2023	289	289
			9/12/2023	258	258
			11/30/2023	257	257
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MW22-04	12	0 (0%)	4/7/2022	96.2	96.2
			5/9/2022	382	382
			5/31/2022	175	175
			6/20/2022	222	222
			6/20/2022	208	208
			7/18/2022	123	123
			8/18/2022	115	115
			9/13/2022	97.1	97.1
			10/4/2022	88.5	88.5
			5/4/2023	200	200
			9/12/2023	144	144
			11/30/2023	118	118

MW22-05	12	0 (0%)	4/7/2022	212	212			
			5/9/2022	154	154			
			5/31/2022	149	149			
			6/20/2022	196	196			
			7/18/2022	236	236			
			8/18/2022	373	373			
			9/13/2022	365	365			
			10/3/2022	377	377			
			5/3/2023	311	311			
			5/3/2023	294	294			
			9/11/2023	395	395			
			12/1/2023	396	396			
			MW22-06	12	0 (0%)	4/8/2022	276	276
5/9/2022	274	274						
5/31/2022	269	269						
6/20/2022	264	264						
7/18/2022	262	262						
8/18/2022	293	293						
8/18/2022	288	288						
9/13/2022	269	269						
10/3/2022	266	266						
5/3/2023	273	273						
9/11/2023	288	288						
12/1/2023	276	276						
MW22-07	11	0 (0%)				4/8/2022	297	297
			5/9/2022	308	308			
			5/31/2022	299	299			
			6/20/2022	281	281			
			7/19/2022	278	278			
			8/18/2022	318	318			
			9/13/2022	301	301			
			10/4/2022	303	303			
			5/4/2023	282	282			
			9/12/2023	306	306			
			12/4/2023	314	314			
			MW22-08	12	0 (0%)	4/8/2022	437	437
						5/9/2022	422	422
5/31/2022	404	404						
5/31/2022	412	412						
6/20/2022	397	397						
7/18/2022	393	393						
8/18/2022	424	424						
9/13/2022	391	391						
10/4/2022	393	393						
5/3/2023	415	415						
9/12/2023	404	404						
12/1/2023	404	404						
MW93-2	81	0 (0%)				12/15/1994	170	170
			12/14/1995	191	191			
			3/6/1996	308	308			
			4/25/1996	340	340			
			10/2/1996	340	340			

12/10/1996	270	270
3/11/1997	210	210
4/15/1997	220	220
8/14/1997	240	240
12/4/1997	200	200
3/31/1998	184	184
6/23/1998	250	250
8/11/1998	208	208
12/8/1998	200	200
3/9/1999	224	224
6/8/1999	220	220
8/19/1999	226	226
12/14/1999	240	240
3/7/2000	244	244
6/23/2000	264	264
12/12/2000	220	220
3/27/2001	215	215
6/28/2001	240	240
9/10/2001	208	208
12/18/2001	235	235
3/19/2002	263	263
6/26/2002	290	290
9/18/2002	256	256
12/11/2002	249	249
3/13/2003	240	240
6/25/2003	246	246
9/26/2003	250	250
12/10/2003	200	200
3/9/2004	280	280
6/24/2004	329	329
9/15/2004	272	272
12/15/2004	288	288
3/16/2005	240	240
6/15/2005	246	246
9/21/2005	228	228
12/21/2005	232	232
3/15/2006	250	250
6/21/2006	290	290
12/20/2006	356	356
2/21/2007	340	340
6/12/2007	312	312
12/17/2007	210	210
6/11/2008	240	240
12/3/2008	280	280
6/17/2009	250	250
12/9/2009	236	236
6/17/2010	252	252
12/22/2010	240	240
6/29/2011	266	266
12/7/2011	288	288
6/6/2012	256	256
12/12/2012	248	248
6/19/2013	364	364
12/11/2013	328	328
6/11/2014	342	342
12/3/2014	296	296
6/17/2015	384	384

			12/1/2015	226	226
			6/22/2016	176	176
			12/20/2016	162.2	162.2
			6/6/2017	246	246
			11/7/2017	430	430
			2/27/2018	282	282
			9/27/2018	270	270
			5/7/2019	360	360
			11/21/2019	360	360
			6/25/2020	261	261
			11/16/2020	266	266
			5/26/2021	201	201
			11/17/2021	108	108
			4/8/2022	144	144
			10/4/2022	83.4	83.4
			10/4/2022	83.8	83.8
			5/4/2023	268	268
			9/12/2023	83	83
			11/30/2023	89.2	89.2
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MW93-3	79	0 (0%)	12/15/1994	240	240
			12/14/1995	206	206
			3/6/1996	226	226
			4/25/1996	228	228
			10/2/1996	240	240
			12/10/1996	225	225
			3/11/1997	210	210
			4/15/1997	200	200
			8/14/1997	255	255
			12/4/1997	140	140
			3/31/1998	240	240
			6/23/1998	225	225
			8/11/1998	224	224
			12/8/1998	214	214
			3/9/1999	234	234
			6/8/1999	236	236
			8/19/1999	260	260
			12/14/1999	300	300
			3/7/2000	264	264
			6/23/2000	244	244
			12/12/2000	320	320
			3/27/2001	254	254
			6/28/2001	255	255
			9/10/2001	332	332
			12/18/2001	230	230
			3/19/2002	255	255
			6/26/2002	250	250
			9/18/2002	268	268
			12/11/2002	268	268
			3/13/2003	247	247
			6/25/2003	252	252
			9/26/2003	244	244
			12/10/2003	271	271
			3/9/2004	284	284
			6/24/2004	309	309
			9/15/2004	264	264
			12/15/2004	254	254

			3/16/2005	290	290
			6/15/2005	268	268
			9/21/2005	264	264
			12/21/2005	246	246
			3/15/2006	227	227
			6/21/2006	253	253
			12/20/2006	250	250
			6/12/2007	280	280
			12/17/2007	290	290
			6/11/2008	300	300
			12/3/2008	226	226
			6/17/2009	240	240
			12/9/2009	214	214
			6/17/2010	296	296
			12/22/2010	230	230
			6/29/2011	256	256
			12/7/2011	244	244
			6/6/2012	288	288
			12/12/2012	226	226
			6/19/2013	316	316
			12/11/2013	262	262
			6/11/2014	338	338
			12/3/2014	262	262
			6/17/2015	388	388
			5/25/2016	440	440
			6/22/2016	330	330
			12/20/2016	330.4	330.4
			6/6/2017	304	304
			11/7/2017	409	409
			2/27/2018	368	368
			9/27/2018	375	375
			5/7/2019	585	585
			11/21/2019	525	525
			6/25/2020	619	619
			11/16/2020	549	549
			5/26/2021	576	576
			11/17/2021	527	527
			4/8/2022	590	590
			10/4/2022	581	581
			5/3/2023	585	585
			9/12/2023	598	598
			11/30/2023	577	577
MW23-01	2	0 (0%)	9/13/2023	239	239
			12/1/2023	241	241
MW23-02	2	0 (0%)	9/13/2023	250	250
			12/1/2023	197	197
MW23-03	2	0 (0%)	9/13/2023	247	247
			12/1/2023	238	238
MW23-04	2	0 (0%)	9/13/2023	202	202
			12/4/2023	266	266
MW23-05	2	0 (0%)	9/12/2023	520	520
			12/4/2023	435	435

MW23-06	2	0 (0%)	9/13/2023	180	180
			12/4/2023	169	169

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original
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