

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

MULTI-UNIT MONITORING SYSTEM
CCR LANDFILL, LOWER AQC IMPOUNDMENT,
UPPER AQC IMPOUNDMENT
LA CYGNE GENERATING STATION
LA CYGNE, KANSAS

Presented to:
Eversource Energy, Inc.

SCS ENGINEERS

27224503.00 | January 31, 2025

8575 W 110th Street, Suite 100
Overland Park, Kansas 66210
913-681-0030

CERTIFICATIONS

I, John R. Rockhold, being a qualified groundwater scientist and Professional Geologist in the State of Kansas, do hereby certify that the 2024 Annual Groundwater Monitoring and Corrective Action Report for the CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment at the La Cygne Generating Station was prepared by me or under my direct supervision and fulfills the requirements of 40 CFR § 257.90(e).



John R. Rockhold, P.G.
SCS Engineers

I, Daniel Aaron Wiens, being a qualified licensed Professional Engineer in the State of Kansas, do hereby certify that the 2024 Annual Groundwater Monitoring and Corrective Action Report for the CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment at the La Cygne Generating Station was prepared by me or under my direct supervision and fulfills the requirements of 40 CFR § 257.90(e).



Daniel Aaron Wiens, P.E.
SCS Engineers

2024 Groundwater Monitoring and Corrective Action Report

Revision Number	Revision Date	Revision Sections	Summary of Revisions
0	January 31, 2025	NA	Original

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2024 Groundwater Monitoring and Corrective Action Report

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1 INTRODUCTION

This 2024 Annual Groundwater Monitoring and Corrective Action Report was prepared to support compliance with the groundwater monitoring requirements of the “Coal Combustion Residuals (CCR) Final Rule” (Rule) published by the United States Environmental Protection Agency (USEPA) in the *Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule*, dated April 17, 2015 (USEPA, 2015), and subsequent revisions/amendments. Specifically, this report was prepared for Evergy Metro, Inc. (Evergy) to fulfill the requirements of 40 CFR § 257.90 (e). The applicable sections of the Rule are provided below in *italics*, followed by applicable information relative to the 2024 Annual Groundwater Monitoring and Corrective Action Report for the CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment at the La Cygne Generating Station.

1.1 § 257.90(e)(6) Summary

A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:

1.1.1 § 257.90(e)(6)(i) Initial Monitoring Program

At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;

At the start of the current annual reporting period, (January 1, 2024), the CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment multi-unit groundwater monitoring system was operating under an assessment monitoring program in compliance with § 257.95.

1.1.2 § 257.90(e)(6)(ii) Final Monitoring Program

At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;

At the end of the current annual reporting period, (December 31, 2024), the CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment multi-unit groundwater monitoring system was operating under an assessment monitoring program in compliance with § 257.95.

1.1.3 § 257.90(e)(6)(iii) Statistically Significant Increases

If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III to this part pursuant to § 257.94(e):

(A) Identify those constituents listed in Appendix III to this part and the names of the monitoring wells associated with such an increase; and

Monitoring Event	Monitoring Well	Constituent	ASD
Fall 2023	MW-805	Calcium Chloride	Not Performed
Fall 2023	MW-706	Chloride	Not Performed
Fall 2023	MW-707B	Sulfate Total Dissolved Solids	Not Performed

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(B) Provide the date when the assessment monitoring program was initiated for the CCR unit.

The assessment monitoring program was initiated on March 1, 2024, and the initial assessment monitoring sampling event was performed on April 3, 2024.

1.1.4 § 257.90(e)(6)(iv) Statistically Significant Levels

If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in Appendix IV to this part pursuant to § 257.95(g) include all of the following:

(A) Identify those constituents listed in Appendix IV to this part and the names of the monitoring wells associated with such an increase;

Monitoring Well	Constituent
MW-707B	Cobalt Lithium

(B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;

Not applicable because an assessment of corrective measures was not initiated in 2024.

(C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and

Not applicable because an assessment of corrective measures was not initiated in 2024.

(D) Provide the date when the assessment of corrective measures was completed for the CCR unit.

Not applicable because an assessment of corrective measures was not initiated in 2024.

1.1.5 § 257.90(e)(6)(v) Selection of Remedy

Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection; and

Not applicable because corrective measures were not required.

1.1.6 § 257.90(e)(6)(vi) Remedial Activities

Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

Not applicable because corrective measures were not required in the current reporting period. An assessment of corrective measures will be initiated and a notification of initiation will be prepared in January 2025.

2 § 257.90(e) ANNUAL REPORT REQUIREMENTS

For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For CCR management units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31, 2029, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1). At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:

2.1 § 257.90(e)(1) Site Map

A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;

A site map with an aerial image showing the CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment and all background (or upgradient) and downgradient monitoring wells with identification numbers for the multi-unit groundwater monitoring system is provided as **Figure 1** in **Appendix A**.

2.2 § 257.90(e)(2) Monitoring System Changes

Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;

No new monitoring wells were installed, and no wells were decommissioned as part of the CCR groundwater monitoring program for the multi-unit monitoring system for the CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment in 2024.

2.3 § 257.90(e)(3) Summary of Sampling Events

In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

Assessment monitoring was required to be conducted during the reporting period (2024). The initial annual assessment monitoring groundwater samples were collected in April 2024 and analyzed for the full list of Appendix IV monitoring constituents. Semiannual assessment monitoring samples were collected in May 2024 and November 2024 and analyzed for Appendix III detection monitoring constituents and the Appendix IV assessment monitoring constituents detected during the initial assessment monitoring event performed in April 2024. Results of the

sampling events are provided in **Appendix B, Table 1** (Appendix III Detection Monitoring and Required Appendix IV Assessment Monitoring Results), and **Table 2** (Groundwater Monitoring Field Measurements). These tables include the initial annual assessment monitoring data (April 2024) and the Spring and Fall 2024 semiannual assessment monitoring data. The dates of sample collection and the monitoring program requiring the sample are also provided in these tables.

2.4 § 257.90(e)(4) Monitoring Transition Narrative

A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and

There was no transition between monitoring programs in 2024. Only assessment monitoring was conducted in 2024.

2.5 § 257.90(e)(5) Other Requirements

Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.

A summary of potentially required information and the corresponding section of the Rule is provided in the following sections.

2.5.1 § 257.90(e) Program Status

Status of Groundwater Monitoring and Corrective Action Program.

The groundwater monitoring and corrective action program is in assessment monitoring.

Summary of Key Actions Completed.

- a. Completion of the 2023 Annual Groundwater Monitoring and Corrective Action Report,
- b. Completion of the statistical evaluation of the Fall 2023 semiannual detection monitoring sampling and analysis event per the certified statistical method,
- c. Notification of Assessment Monitoring,
- d. Completion of the initial annual assessment monitoring sampling and analysis event,
- e. Completion of the Spring 2024 semiannual assessment monitoring sampling and analysis event,
- f. Completion of the statistical evaluation of the Spring 2024 semiannual detection monitoring sampling and analysis event per the certified statistical method,
- g. Notification of a statistically significant level above the groundwater protection standards (GWPSs)
- h. Initiation of the Fall 2024 semiannual monitoring sampling and analysis event

Description of Any Problems Encountered.

No noteworthy problems were encountered.

2024 Groundwater Monitoring and Corrective Action Report

Discussion of Actions to Resolve the Problems.

Not applicable because no noteworthy problems were encountered.

Projection of Key Activities for the Upcoming Year (2025).

- Completion of verification sampling and data analysis (if applicable), and the statistical evaluation of the Fall 2024 assessment monitoring sampling and analysis event.
- Initiation of an assessment of corrective measures.
- Semiannual Spring and Fall 2025 groundwater assessment monitoring and analysis events.
- Completion of the statistical evaluation of the Spring 2025 assessment monitoring sampling and analysis event.

2.5.2 § 257.94(d)(3) Demonstration for Alternative Detection Monitoring Frequency

The owner or operator must obtain a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority stating that the demonstration for an alternative groundwater sampling and analysis frequency meets the requirements of this section. The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer or the approval from the Participating State Director or approval from EPA where EPA is the permitting authority in the annual groundwater monitoring and corrective action report required by § 257.90(e).

Not applicable because no alternative monitoring frequency for detection monitoring and certification was pursued.

2.5.3 § 257.94(e)(2) Detection Monitoring Alternate Source Demonstration

The owner or operator may demonstrate that a source other than the CCR unit caused the statistically significant increase over background levels for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The owner or operator must complete the written demonstration within 90 days of detecting a statistically significant increase over background levels to include obtaining a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority verifying the accuracy of the information in the report. If a successful demonstration is completed within the 90-day period, the owner or operator of the CCR unit may continue with a detection monitoring program under this section. If a successful demonstration is not completed within the 90-day period, the owner or operator of the CCR unit must initiate an assessment monitoring program as required under § 257.95. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority.

A successful ASD for detection monitoring constituents was not completed within the allowable 90 days of the SSI determination.

2.5.4 § 257.95(c)(3) Demonstration for Alternative Assessment Monitoring Frequency

The owner or operator must obtain a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority stating that the demonstration for an alternative groundwater sampling and analysis frequency meets the requirements of this section. The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer or the approval from the Participating State Director or the approval from EPA where EPA is the permitting authority in the annual groundwater monitoring and corrective action report required by § 257.90(e).

Not applicable because there was no assessment monitoring conducted.

2.5.5 § 257.95(d)(3) Assessment Monitoring Concentrations and Groundwater Protection Standards

Include the recorded concentrations required by § 257.95(d)(1) [parameters in Appendix III to this part and for those constituents in Appendix IV to this part that are detected in response to paragraph § 257.95(b)], identify the background concentrations established under § 257.94(b), and identify the groundwater protection standards established under § 257.95(d)(2) in the annual groundwater monitoring and corrective action report required by § 257.90(e).

The concentrations of Appendix III and detected Appendix IV constituents from the assessment monitoring are provided in **Appendix B, Table 1 and Table 2**. The GWPSs as applicable are provided in **Appendix B, Table 3**.

The GWPSs for Appendix IV constituents were set equal to the highest value of the MCL, concentrations specified by § 257.95(h)(2), or background concentrations. The background concentrations for each of the Appendix IV constituents were determined following the prediction limit statistical procedures as specified in the “Statistical Method Certification by A Qualified Professional Engineer” dated October 27, 2023. The resulting GWPSs for Appendix IV constituents are provided in **Table 3 in Appendix B** along with the Appendix IV constituent background samples collected over nine sampling events between June 2016 and October 2017.

2.5.6 § 257.95(g)(3)(ii) Assessment Monitoring Alternate Source Demonstration

Demonstrate that a source other than the CCR unit caused the contamination, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. Any such demonstration must be supported by a report that includes the factual or evidentiary basis for any conclusions and must be certified to be accurate by a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority. If a successful demonstration is made, the owner or operator must continue monitoring in accordance with the assessment monitoring program pursuant to this section, and may return to detection monitoring if the constituents in appendices III and IV to this part are at or below background as specified in paragraph (e) of this section. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer or the approval from the Participating State Director or approval from EPA where EPA is the permitting authority.

Not applicable because an assessment monitoring alternative source demonstration was not performed.

2.5.7 § 257.96(a) Demonstration for Additional Time for Assessment of Corrective Measures

Within 90 days of finding that any constituent listed in appendix IV to this part has been detected at a statistically significant level exceeding the groundwater protection standard defined under § 257.95(h), or immediately upon detection of a release from a CCR unit, the owner or operator must initiate an assessment of corrective measures to prevent further releases, to remediate any releases and to restore affected area to original conditions. The assessment of corrective measures must be completed within 90 days, unless the owner or operator demonstrates the need for additional time to complete the assessment of corrective measures due to site-specific conditions or circumstances. The owner or operator must obtain a certification from a qualified professional engineer attesting that the demonstration is accurate. The 90-day deadline to complete the assessment of corrective measures may be extended for no longer than 60 days. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer or the approval from the Participating State Director or approval from EPA where EPA is the permitting authority.

Not applicable because an assessment of corrective measures was not performed.

2.6 § 257.90(e)(6) Overview Summary

A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit.

§ 257.90(e)(6) is addressed in Section 1.1 of this report.

3 SUPPLEMENTAL INFORMATION AND DATA

In addition to the requirements listed in 40 CFR 257.90(e), supplemental information has been included in this section in recognition of comments received by Evergy from the USEPA on January 11, 2022. The USEPA indicated in their comments that the GWMCA Report contain the following:

- Results of laboratory analysis of groundwater or other environmental media samples for 40 CFR 257 Appendix III and Appendix IV constituents or other constituents, such as those supporting characterization of site conditions that may ultimately affect a remedy.
- Required statistical analysis performed on laboratory analysis results; and
- Calculated groundwater flow rate and direction.

This information is not specifically referred to in 40 CFR 257.90(e) for inclusion in the GWMCA Reports; however, it is routinely collected, determined, and maintained in Evergy's files and is being provided in this GWMCA report. This supplemental information and data are provided as specified below:

- **Laboratory Analytical Reports (Appendix D):**

Includes laboratory data packages with supporting information such as case narrative, sample and method summary, analytical results, quality control, and chain-of-custody documentation. The laboratory data packages for the following sampling events are provided:

- o April 2024 – Initial annual assessment monitoring event.
- o May 2024 – Spring 2024 semiannual assessment monitoring event.
- o November 2024 - Fall 2024 semiannual assessment monitoring sampling event.

- **Statistical Analyses (Appendix E):**

Includes summary of statistical results, prediction limit plots, prediction limit background data, detection sample results, first and second verification re-sample results (when applicable), extra sample results for pH (collected as part of the approved sampling procedures), input parameters, and a Prediction Limit summary table. Statistical analyses completed in 2023 included the following:

- o Fall 2023 semiannual detection monitoring statistical analyses.
- o Spring 2024 semiannual assessment monitoring statistical analyses.

- **Groundwater Potentiometric Surface Maps (Appendix A):**

Includes revised groundwater potentiometric surface maps with the measured groundwater elevations at each well and the generalized groundwater flow direction and the calculated groundwater flow rate. Maps for the following sampling events are provided:

- o **Figure 2** – April 2024 Initial annual assessment monitoring event
- o **Figure 3** - Spring 2023 semiannual detection monitoring sampling event.
- o **Figure 4** - Fall 2023 semiannual detection monitoring sampling event.

4 GENERAL COMMENTS

This report has been prepared and reviewed under the direction of a qualified groundwater scientist and qualified professional engineer. The information contained in this report is a reflection of the conditions encountered at the La Cygne Generating Station at the time of fieldwork. This report includes a review of and compilation of the required information and does not reflect any variations of the subsurface, which may occur between sampling locations. Actual subsurface conditions may vary and the extent of such variations may not become evident without further investigation.

Conclusions drawn by others from the result of this work should recognize the limitations of the methods used. Please note that SCS Engineers does not warrant the work of regulatory agencies or other third parties supplying information used in the assimilation of this report. This report is prepared in accordance with generally accepted environmental engineering and geological practices, within the constraints of the client's directives. It is intended for the exclusive use of Evergy Metro, Inc. for specific application to the La Cygne Generating Station CCR Landfill and Lower AQC Impoundment. No warranties, express or implied, are intended or made.

APPENDIX A

FIGURES

Figure 1: Site Map

Figure 2: Potentiometric Surface Map (April 2024)

Figure 3: Potentiometric Surface Map (May 2024)

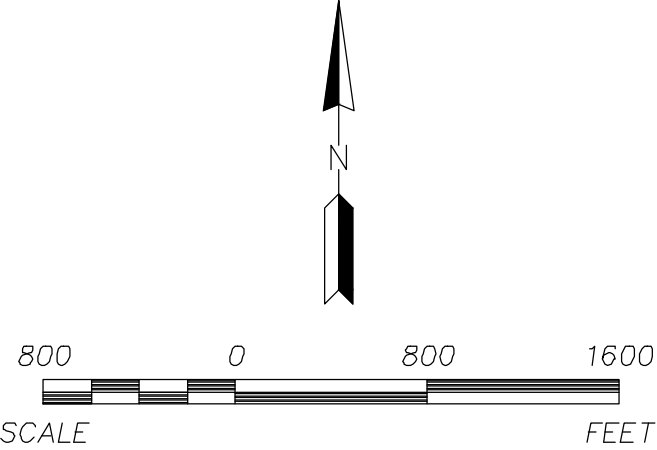
Figure 4: Potentiometric Surface Map (November 2024)

CCR UNIT BOUNDARY
(APPROXIMATE LIMITS)

- ▲ MW-704 CCR GROUNDWATER MONITORING SYSTEM WELLS
- MW-10 WATER LEVEL ONLY WELLS

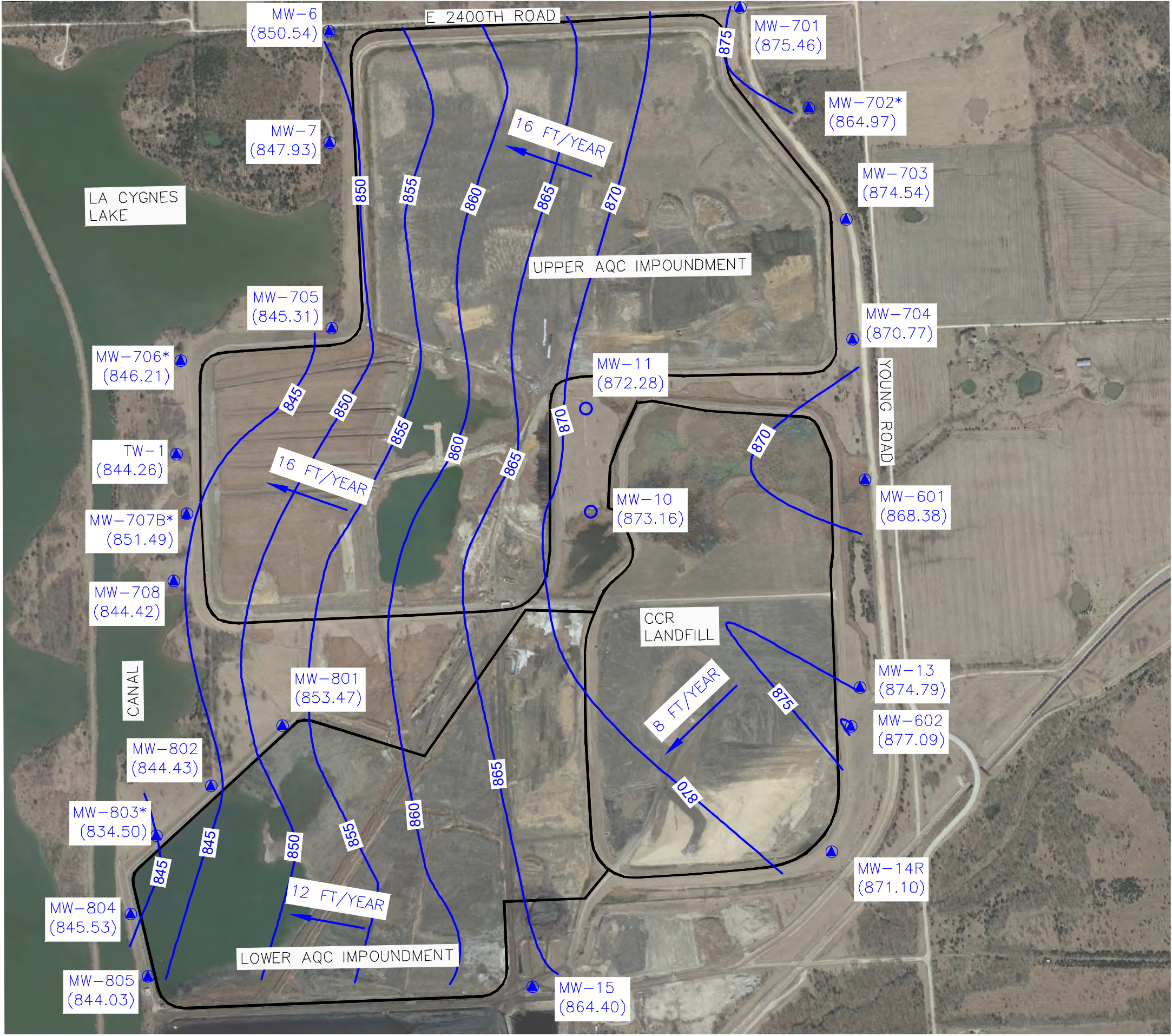
NOTES:

1. SOURCE: GOOGLE EARTH IMAGE DATED MARCH 2020. BOUNDARY AS SHOWN IS APPROXIMATE.
2. UNIT BOUNDARY AND MONITOR WELL LOCATIONS ARE PROVIDED BY AECOM.



SCS ENGINEERS 8575 WEST 110TH STREET, SUITE 100 OVERLAND PARK, KANSAS 66210 PH: (913) 681-0030 FAX: (913) 681-0012	CLIENT:		EVERGY METRO, INC. LA CYGNE GENERATING STATION LA CYGNE, KANSAS	
	DATE:		1/23/25	
	FIGURE NO.		1	
	PROJ. NO.		DRAW. BY:	D/A REV. BY:
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SCALE: SHEET		SUPL. BY:	DESIGN MGR	
50		JF	JF	
SHEET TITLE		GROUNDWATER MONITORING SYSTEM		
PROJECT TITLE		2024 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT		
NO.		REVISION		
DATE				

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LEGEND

CCR UNIT BOUNDARY
(APPROXIMATE LIMITS)

MW-704
(870.77)

CCR GROUNDWATER MONITORING SYSTEM WELLS
(GROUNDWATER ELEVATION)

870

GROUNDWATER POTENTIOMETRIC SURFACE ELEVATIONS

16 FT/YEAR

DIRECTION OF GROUNDWATER FLOW
AND GROUNDWATER FLOW RATE (FEET/YEAR)

MW-702*
(864.97)

* INDICATES WELL NOT USED TO DEVELOP POTENTIOMETRIC
SURFACE MAP

MW-10
(873.16)

WATER LEVEL ONLY WELLS

- NOTES:
1. KDHE FACILITY PERMIT AND LANDFILL
PERMIT BOUNDARIES VARY FROM THAT
SHOWN.

2. GOOGLE EARTH IMAGE DATED MARCH
2020. BOUNDARY AND MONITOR WELL
LOCATIONS ARE APPROXIMATE.

3. BOUNDARY AND MONITOR WELL
LOCATIONS ARE PROVIDED BY AECOM.

4. WATER LEVEL MEASUREMENTS
COLLECTED ON APRIL 3, 2024.

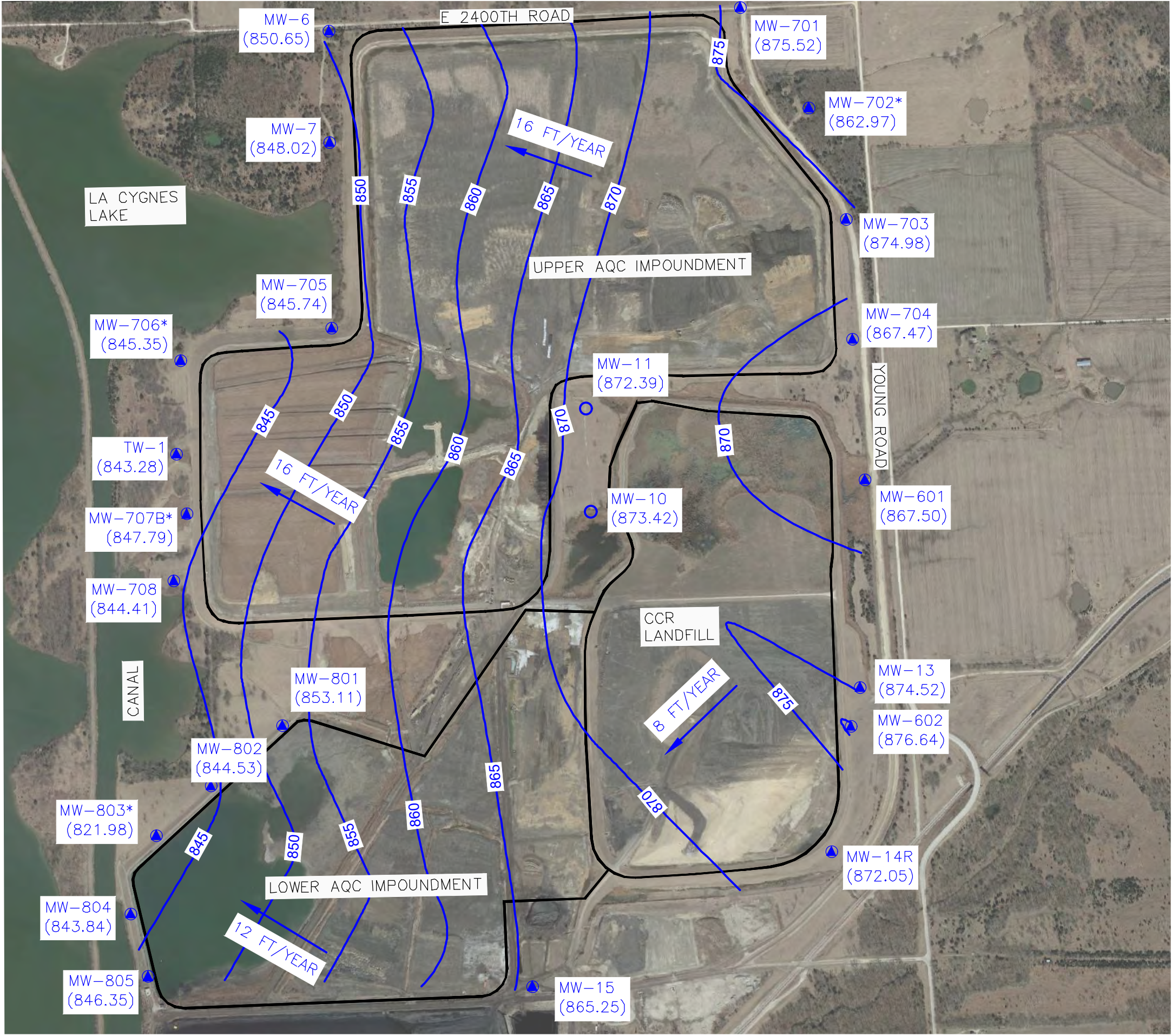
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SCALEFEET

NO.	DATE		NO.	REVISION	
SHEET TITLE			PROJECT TITLE		
POTENTIOMETRIC SURFACE MAP (APRIL 2024)			2024 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT		
CLIENT:			EVERGY METRO, INC. LA CYGNE GENERATING STATION LA CYGNE, KANSAS		
SCS ENGINEERS 8576 WEST 110 TH STREET, SUITE 100 OVERLAND PARK, KANSAS 66210 PH: (913) 881-4030 FAX: (913) 881-4012			DWN. BY: LAS	CHK. BY: JF	O/A RW BY: JF
DATE: 1/22/25			PROJ. NO. 27217233.23	DSK. BY: SO	PRCL. MGR JF
FIGURE NO. 2					

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LEGEND

CCR UNIT BOUNDARY
(APPROXIMATE LIMITS)

MW-704
(870.77)

CCR GROUNDWATER MONITORING SYSTEM WELLS
(GROUNDWATER ELEVATION)

870

GROUNDWATER POTENTIOMETRIC SURFACE ELEVATIONS

16 FT/YEAR

DIRECTION OF GROUNDWATER FLOW
AND GROUNDWATER FLOW RATE (FEET/YEAR)

MW-702*
(864.97)

* INDICATES WELL NOT USED TO DEVELOP POTENTIOMETRIC
SURFACE MAP

MW-10
(873.42)

WATER LEVEL ONLY WELLS

- NOTES:
1. KDHE FACILITY PERMIT AND LANDFILL
PERMIT BOUNDARIES VARY FROM THAT
SHOWN.

2. GOOGLE EARTH IMAGE DATED MARCH
2020. BOUNDARY AND MONITOR WELL
LOCATIONS ARE APPROXIMATE.

3. BOUNDARY AND MONITOR WELL
LOCATIONS ARE PROVIDED BY AECOM.

4. WATER LEVEL MEASUREMENTS
COLLECTED ON MAY 16, 2024.

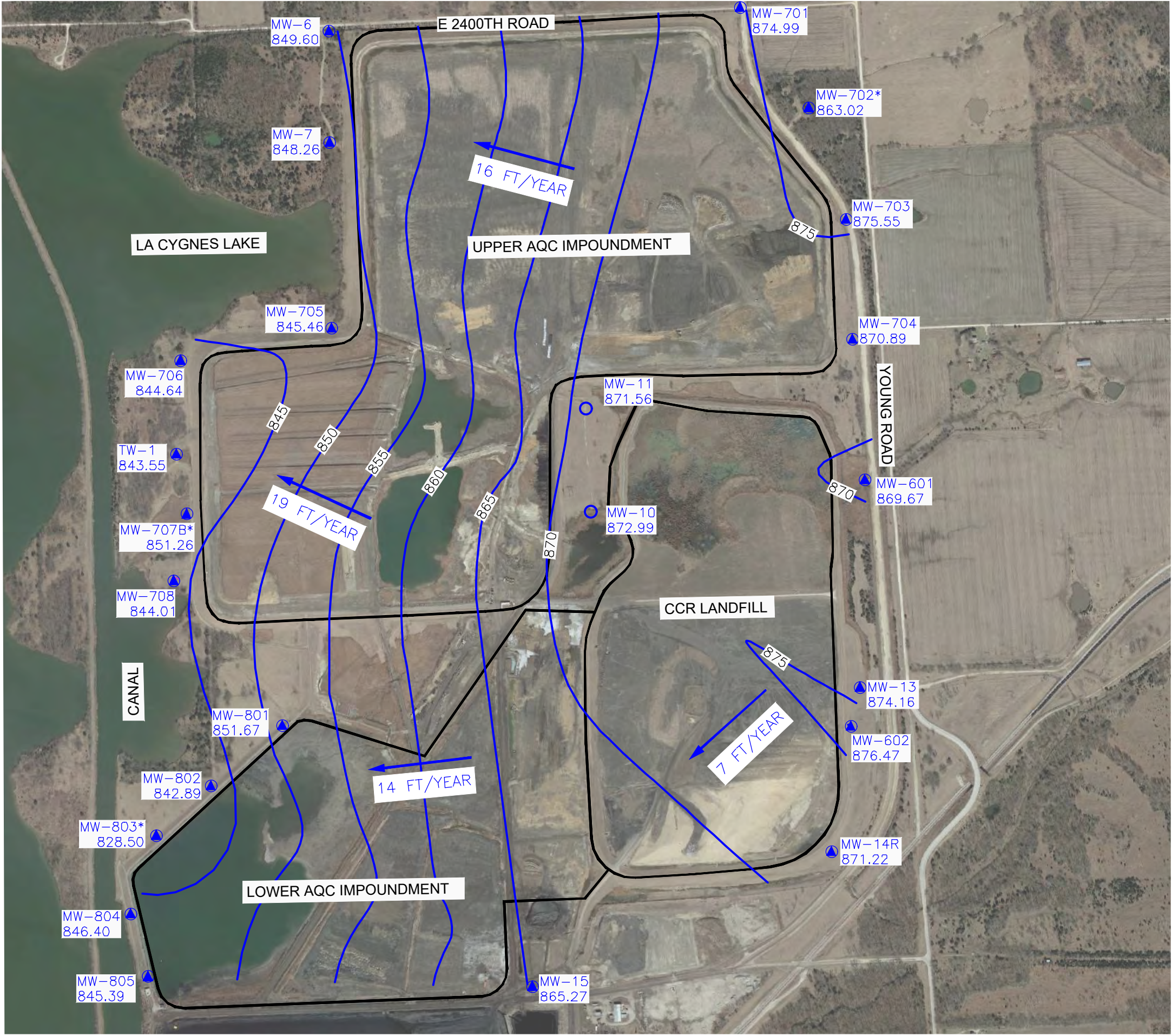
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80008001600

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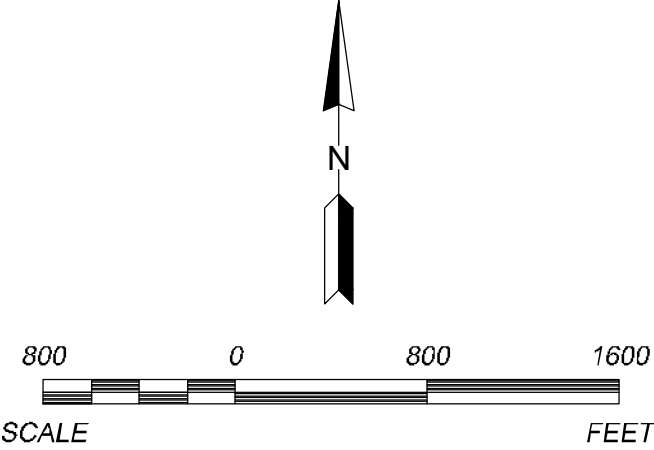
DATE		REVISION		NO.	
SHEET TITLE		PROJECT TITLE			
POTENTIOMETRIC SURFACE MAP (MAY 2024)		2024 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT			
CLIENT:		EVERGY METRO, INC. LA CYGNE GENERATING STATION LA CYGNE, KANSAS			
SCS ENGINEERS		8576 WEST 110 TH STREET, SUITE 100 OVERLAND PARK, KANSAS 66210 PH: (913) 881-4030 FAX: (913) 881-4012			
PROJ. NO.	DWN. BY:	CHK. BY:	Q/A RW BY:		
27217233.23	LAS	JF	JF		
DSK BY:	CHK. BY:	Q/A RW BY:	PRCL. MKR		
SO	JF	JF	JF		
DATE:		1/23/25			
FIGURE NO.		3			

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- LEGEND**
- CCR UNIT BOUNDARY (APPROXIMATE LIMITS)
 - CCR GROUNDWATER MONITORING SYSTEM WELLS (GROUNDWATER ELEVATION)
 - GROUNDWATER POTENTIOMETRIC SURFACE ELEVATIONS
 - 16 FT/YEAR DIRECTION OF GROUNDWATER FLOW AND GROUNDWATER FLOW RATE (FEET/YEAR)
 - * INDICATES WELL NOT USED TO DEVELOP POTENTIOMETRIC SURFACE MAP
 - WATER LEVEL ONLY WELLS

- NOTES:**
- KDHE FACILITY PERMIT AND LANDFILL PERMIT BOUNDARIES VARY FROM THAT SHOWN.
 - GOOGLE EARTH IMAGE DATED MARCH 2020. BOUNDARY AND MONITOR WELL LOCATIONS ARE APPROXIMATE.
 - BOUNDARY AND MONITOR WELL LOCATIONS ARE PROVIDED BY AECOM.
 - WATER LEVEL MEASUREMENTS COLLECTED ON NOVEMBER 25, 2024.



DATE		REVISION		NO.	
SHEET TITLE		PROJECT TITLE			
POTENTIOMETRIC SURFACE MAP (NOVEMBER 2024)		2024 GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT			
CLIENT:		EVERGY METRO, INC. LA CYGNE GENERATING STATION LA CYGNE, KANSAS			
SCS ENGINEERS		8576 WEST 110TH STREET, SUITE 100 OVERLAND PARK, KANSAS 66210 PH: (913) 881-4030 FAX: (913) 881-4012			
DATE:		1/23/25			
FIGURE NO.		4			

APPENDIX B

TABLES

Table 1: Appendix III and Appendix IV Assessment Monitoring Results

Table 2: Assessment Monitoring Field Measurements

Table 3: Appendix IV Background Data and Groundwater Protection Standards

Table 1
Multi-Unit Monitoring Network
Appendix III and Appendix IV Assessment Monitoring Results
Evergy LaCygne Generating Station

Well Number	Sample Date	Appendix III Constituents							Appendix IV Constituents														
		Boron (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MW-6	4/3/2024	---	---	---	0.637	7.43	---	---	<0.00400	<0.00200	0.146	<0.00200	<0.00100	<0.0100	<0.00200	0.637	<0.00200	0.0444	<0.000200	<0.00500	<0.00200	<0.00200	0.122 (U)
MW-6	5/17/2024	1.13	70.2	187	0.572	7.41	94.7	1050	<0.00400	0.00277	0.145	---	<0.00100	<0.0100	<0.00200	0.572	<0.00200	0.0469	<0.000200	<0.00500	<0.00200	---	0.812 (J)
MW-6	11/25/2024	1.12	75.6	180	0.678	7.33	96.8	1110	<0.00400	0.00354	0.166	---	<0.00100	<0.0100	<0.00200	0.678	<0.00200	0.0409	<0.000200	<0.00500	<0.00200	---	1.12
MW-7	4/3/2024	---	---	---	1.25	7.95	---	---	<0.00400	<0.00200	0.467	<0.00200	<0.00100	<0.0100	<0.00200	1.25	<0.00200	0.0708	<0.000200	<0.00500	<0.00200	<0.00200	0.813
MW-7	5/17/2024	1.53	20.6	95.4	1.37	7.95	<5.00	850	<0.00400	<0.00200	0.478	---	<0.00100	<0.0100	<0.00200	1.37	<0.00200	0.0738	<0.000200	<0.00500	<0.00200	---	1.20
MW-7	11/25/2024	1.54	19.7	96.5	1.33	7.84	<5.00	946	<0.00400	0.00244	0.554	---	<0.00100	<0.0100	<0.00200	1.33	<0.00200	0.0694	<0.000200	<0.00500	<0.00200	---	1.58
MW-13	4/3/2024	---	---	---	0.154	7.28	---	---	<0.00400	<0.00200	0.0173	<0.00200	<0.00100	<0.0100	<0.00200	0.154	<0.00200	0.0534	<0.000200	<0.00500	<0.00200	<0.00200	0.232 (U)
MW-13	5/17/2024	0.334	348	28.9	0.179	7.14	1420	2320	<0.00400	<0.00200	0.0168	---	<0.00100	<0.0100	<0.00200	0.179	<0.00200	0.0571	<0.000200	<0.00500	<0.00200	---	0.660 (J)
MW-13	11/25/2024	0.378	334	26.3	0.214	6.62	1460	2370	<0.00400	<0.00200	0.0169	---	<0.00100	<0.0100	<0.00200	0.214	<0.00200	0.0525	<0.000200	<0.00500	<0.00200	---	0.644
MW-14R	4/3/2024	---	---	---	0.380	7.71	---	---	<0.00400	<0.00200	0.0401	<0.00200	<0.00100	<0.0100	<0.00200	0.380	<0.00200	0.0458	<0.000200	<0.00500	<0.00200	<0.00200	0.961 (J)
MW-14R	5/17/2024	0.754	50.2	6.60	0.397	7.59	57.4	550	<0.00400	<0.00200	0.0403	---	<0.00100	<0.0100	<0.00200	0.397	<0.00200	0.0419	<0.000200	<0.00500	<0.00200	---	0.605 (J)
MW-14R	11/25/2024	0.826	50.6	7.46	0.402	7.14	64.8	578	<0.00400	<0.00200	0.0383	---	<0.00100	<0.0100	<0.00200	0.402	<0.00200	0.0395	<0.000200	<0.00500	<0.00200	---	0.735
MW-15	4/3/2024	---	---	---	0.306	7.23	---	---	<0.00400	<0.00200	0.0437	<0.00200	<0.00100	<0.0100	<0.00200	0.306	<0.00200	0.0261	<0.000200	<0.00500	<0.00200	<0.00200	0.795 (J)
MW-15	5/17/2024	0.221	96.9	10.8	0.296	7.41	189	732	<0.00400	<0.00200	0.0449	---	<0.00100	<0.0100	<0.00200	0.296	<0.00200	0.0254	<0.000200	<0.00500	<0.00200	---	1.10
MW-15	11/25/2024	0.235	105	10.7	0.314	6.93	207	772	<0.00400	<0.00200	0.0408	---	<0.00100	<0.0100	<0.00200	0.314	<0.00200	0.0208	<0.000200	<0.00500	<0.00200	---	0.951
MW-601	4/3/2024	---	---	---	<0.150	7.91	---	---	<0.00400	<0.00200	0.132	<0.00200	<0.00100	<0.0100	<0.00200	<0.150	<0.00200	0.0701	<0.000200	<0.00500	<0.00200	<0.00200	0.403 (J)
MW-601	5/17/2024	1.85	14.3	165	1.60	7.95	6.04	926	<0.00400	<0.00200	0.128	---	<0.00100	<0.0100	<0.00200	1.60	<0.00200	0.0691	<0.000200	<0.00500	<0.00200	---	0.606 (J)
MW-601	11/25/2024	1.85	15.1	323	1.78	7.54	6.43	994	<0.00400	<0.00200	0.130	---	<0.00100	<0.0100	<0.00200	1.78	<0.00200	0.0649	<0.000200	<0.00500	<0.00200	---	0.522 (J)
MW-602	4/3/2024	---	---	---	1.18	7.84	---	---	<0.00400	<0.00200	0.101	<0.00200	<0.00100	<0.0100	<0.00200	1.18	<0.00200	0.0561	<0.000200	<0.00500	<0.00200	<0.00200	0.700
MW-602	5/17/2024	2.24	21.4	15.7	1.35	8.00	25.5	578	<0.00400	<0.00200	0.0994	---	<0.00100	<0.0100	<0.00200	1.35	<0.00200	0.0569	<0.000200	<0.00500	<0.00200	---	0.914 (J)
MW-602	11/25/2024	2.24	22.2	16.5	1.29	7.45	27.3	606	<0.00400	<0.00200	0.0980	---	<0.00100	<0.0100	<0.00200	1.29	<0.00200	0.0535	<0.000200	<0.00500	<0.00200	---	0.146 (JU)
MW-701	4/3/2024	---	---	---	0.666	7.78	---	---	<0.00400	<0.00200	0.209	<0.00200	<0.00100	<0.0100	<0.00200	0.666	<0.00200	0.0422	<0.000200	<0.00500	<0.00200	<0.00200	0.857 (J)
MW-701	5/17/2024	0.902	42.1	45.5	0.612	7.95	80.0	571	<0.00400	<0.00200	0.211	---	<0.00100	<0.0100	<0.00200	0.612	<0.00200	0.0438	<0.000200	<0.00500	<0.00200	---	1.77
MW-701	11/25/2024	0.886	45.4	45.8	0.651	7.30	88.9	578	<0.00400	<0.00200	0.189	---	<0.00100	<0.0100	<0.00200	0.651	<0.00200	0.0417	<0.000200	<0.00500	<0.00200	---	1.27

Table 1
Multi-Unit Monitoring Network
Appendix III and Appendix IV Assessment Monitoring Results
Evergy LaCygne Generating Station

Well Number	Sample Date	Appendix III Constituents							Appendix IV Constituents														
		Boron (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MW-702	4/3/2024	---	---	---	1.42	7.79	---	---	<0.00400	<0.00200	0.590	<0.00200	<0.00100	<0.0100	<0.00200	1.42	<0.00200	0.0618	<0.000200	<0.00500	<0.00200	<0.00200	1.01 (J)
MW-702	5/17/2024	1.82	16.0	47.2	1.42	8.12	<5.00	653	<0.00400	<0.00200	0.529	---	<0.00100	<0.0100	<0.00200	1.42	<0.00200	0.0597	<0.000200	<0.00500	<0.00200	---	2.73
MW-702	11/25/2024	1.81	16.9	47.7	1.55	7.76	<5.00	679	<0.00400	<0.00200	0.551	---	<0.00100	<0.0100	<0.00200	1.55	<0.00200	0.0573	<0.000200	<0.00500	<0.00200	---	0.941
MW-703	4/3/2024	---	---	---	1.32	7.72	---	---	<0.00400	<0.00200	0.262	<0.00200	<0.00100	<0.0100	<0.00200	1.32	<0.00200	0.0606	<0.000200	<0.00500	<0.00200	<0.00200	2.49
MW-703	5/17/2024	1.62	19.1	72.4	1.20	7.90	48.4	854	<0.00400	<0.00200	0.264	---	<0.00100	<0.0100	<0.00200	1.20	<0.00200	0.0582	<0.000200	<0.00500	<0.00200	---	1.87
MW-703	11/25/2024	1.48	26.5	54.6	1.15	7.40	56.5	866	<0.00400	<0.00200	0.295	---	<0.00100	<0.0100	<0.00200	1.15	<0.00200	0.0518	<0.000200	<0.00500	<0.00200	---	2.98
MW-704	4/3/2024	---	---	---	0.897	7.72	---	---	<0.00400	<0.00200	0.0626	<0.00200	<0.00100	<0.0100	<0.00200	0.897	<0.00200	0.101	<0.000200	<0.00500	<0.00200	<0.00200	0.955
MW-704	5/17/2024	1.99	20.9	87.7	0.822	8.00	154	1170	<0.00400	<0.00200	0.0563	---	<0.00100	<0.0100	<0.00200	0.822	<0.00200	0.0998	<0.000200	<0.00500	<0.00200	---	1.07
MW-704	11/25/2024	1.95	22.0	86.2	0.968	7.38	167	1240	<0.00400	<0.00200	0.0539	---	<0.00100	<0.0100	<0.00200	0.968	<0.00200	0.0959	<0.000200	<0.00500	<0.00200	---	1.35
MW-705	4/3/2024	---	---	---	1.01	7.49	---	---	<0.00400	<0.00200	0.0918	<0.00200	<0.00100	<0.0100	<0.00200	1.01	<0.00200	0.118	<0.000200	<0.00500	<0.00200	<0.00200	0.784
MW-705	5/17/2024	2.11	27.2	135	0.992	7.49	37.5	968	<0.00400	<0.00200	0.0887	---	<0.00100	<0.0100	<0.00200	0.992	<0.00200	0.117	<0.000200	<0.00500	<0.00200	---	0.796 (J)
MW-705	11/25/2024	2.11	28.1	130	1.11	7.46	38.1	998	<0.00400	<0.00200	0.0910	---	<0.00100	<0.0100	<0.00200	1.11	<0.00200	0.115	<0.000200	<0.00500	<0.00200	---	1.05
MW-706	4/3/2024	---	---	---	1.07	7.72	---	---	<0.00400	<0.00200	0.193	<0.00200	<0.00100	<0.0100	<0.00200	1.07	<0.00200	0.126	<0.000200	<0.00500	<0.00200	<0.00200	1.63
MW-706	5/17/2024	1.99	22.6	223	1.06	7.67	15.7	1170	<0.00400	<0.00200	0.193	---	<0.00100	<0.0100	<0.00200	1.06	<0.00200	0.127	<0.000200	<0.00500	<0.00200	---	0.577 (J)
MW-706	11/25/2024	2.00	24.0	228	1.14	7.42	14.2	1210	<0.00400	<0.00200	0.197	---	<0.00100	<0.0100	<0.00200	1.14	<0.00200	0.124	<0.000200	<0.00500	<0.00200	---	0.953
MW-707B	4/3/2024	---	---	---	<0.150	6.76	---	---	<0.00400	<0.00200	0.0205	<0.00200	<0.00100	<0.0100	0.0144	<0.150	<0.00200	1.29	<0.000200	0.00593	<0.00200	<0.00200	0.776
MW-707B	5/16/2024	1.87	392	159	0.368	6.89	4880	5720	<0.00400	<0.00200	0.0170	---	<0.00100	<0.0100	0.00849	0.368	<0.00200	1.27	0.000238	<0.00500	<0.00200	---	0.730 (J)
MW-707B	11/25/2024	1.79	404	167	0.486	6.85	5040	8990	<0.00400	<0.00200	0.0187	---	<0.00100	<0.0100	0.00809	0.486	<0.00200	1.25	<0.000200	<0.00500	<0.00200	---	1.12
MW-708	4/3/2024	---	---	---	0.0705	7.54	---	---	<0.00400	<0.00200	0.234	<0.00200	<0.00100	<0.0100	<0.00200	0.0705	<0.00200	0.0776	<0.000200	<0.00500	<0.00200	<0.00200	0.592 (J)
MW-708	5/16/2024	1.42	27.9	48.2	0.6860	7.55	9.60	620	<0.00400	<0.00200	0.234	---	<0.00100	<0.0100	<0.00200	0.686	<0.00200	0.0793	<0.000200	<0.00500	<0.00200	---	0.408 (J)
MW-708	11/25/2024	1.43	28.1	50.1	0.7540	7.04	11.10	645	<0.00400	<0.00200	0.268	---	<0.00100	<0.0100	<0.00200	0.754	<0.00200	0.0748	<0.000200	<0.00500	<0.00200	---	0.814
MW-801	4/3/2024	---	---	---	1.08	7.47	---	---	<0.00400	<0.00200	0.500	<0.00200	<0.00100	<0.0100	<0.00200	1.08	<0.00200	0.0902	<0.000200	0.00702	<0.00200	<0.00200	0.594 (J)
MW-801	5/16/2024	2.21	23.8	89.1	1.08	7.62	<5.00	726	<0.00400	<0.00200	0.495	---	<0.00100	<0.0100	<0.00200	1.08	<0.00200	0.0912	<0.000200	0.00508	<0.00200	---	0.698 (J)
MW-801	11/25/2024	2.19	25.2	90.9	1.13	7.52	<5.00	818	<0.00400	<0.00200	0.507	---	<0.00100	<0.0100	<0.00200	1.13	<0.00200	0.0862	<0.000200	<0.00500	<0.00200	---	1.50

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Multi-Unit Monitoring Network
Appendix III and Appendix IV Assessment Monitoring Results
Evergy LaCygne Generating Station

Well Number	Sample Date	Appendix III Constituents							Appendix IV Constituents														
		Boron (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MW-802	4/3/2024	---	---	---	0.987	7.41	---	---	<0.00400	0.00242	0.981	<0.00200	<0.00100	<0.0100	<0.00200	0.987	0.00331	0.0912	<0.000200	<0.00500	<0.00200	<0.00200	1.55
MW-802	5/15/2024	2.37	28.4	38.1	0.918	7.35	<5.00	668	<0.00400	<0.00200	0.916	---	<0.00100	<0.0100	<0.00200	0.918	<0.00200	0.0869	<0.000200	<0.00500	<0.00200	---	0.978
MW-802	11/25/2024	2.46	28.6	41.9	1.08	7.40	<5.00	680	<0.00400	<0.00200	0.949	---	<0.00100	<0.0100	<0.00200	1.08	0.0026	0.0859	<0.000200	<0.00500	<0.00200	---	1.70
MW-803	4/3/2024	---	---	---	0.702	7.31	---	---	<0.00400	<0.00200	0.196	<0.00200	<0.00100	<0.0100	<0.00200	0.702	<0.00200	0.0618	<0.000200	0.00593	<0.00200	<0.00200	1.41
MW-803	5/15/2024	2.02	40.2	50.2	0.722	7.31	37.0	575	<0.00400	<0.00200	0.189	---	<0.00100	<0.0100	<0.00200	0.722	<0.00200	0.0618	<0.000200	<0.00500	<0.00200	---	1.74
MW-803	11/25/2024	2.05	45.2	52.4	0.730	7.43	43.3	620	<0.00400	<0.00200	0.240	---	<0.00100	<0.0100	<0.00200	0.730	<0.00200	0.0610	<0.000200	<0.00500	<0.00200	---	0.946
MW-804	4/3/2024	---	---	---	0.517	7.29	---	---	<0.00400	<0.00200	0.147	<0.00200	<0.00100	<0.0100	<0.00200	0.517	<0.00200	0.0394	<0.000200	<0.00500	<0.00200	<0.00200	1.64
MW-804	5/15/2024	1.56	66.5	32.7	0.433	7.23	25.5	541	<0.00400	<0.00200	0.149	---	<0.00100	<0.0100	<0.00200	0.433	<0.00200	0.0410	<0.000200	<0.00500	<0.00200	---	3.81
MW-804	11/25/2024	1.65	74.1	48.6	0.564	7.23	26.0	572	<0.00400	<0.00200	0.191	---	<0.00100	<0.0100	<0.00200	0.564	<0.00200	0.0373	<0.000200	<0.00500	<0.00200	---	1.38
MW-805	4/3/2024	---	---	---	0.155	6.45	---	---	<0.00400	<0.00200	0.0364	<0.00200	<0.00100	<0.0100	<0.00200	0.155	<0.00200	0.0260	<0.000200	<0.00500	<0.00200	<0.00200	1.01
MW-805	5/15/2024	0.494	466	497	0.165	6.40	711	2280	<0.00400	<0.00200	0.0302	---	<0.00100	<0.0100	<0.00200	0.165	<0.00200	0.0253	0.000213	<0.00500	<0.00200	---	0.721 (J)
MW-805	11/25/2024	0.471	482	502	0.205	6.34	763	2100	<0.00400	<0.00200	0.0316	---	<0.00100	<0.0100	<0.00200	0.205	<0.00200	0.0191	<0.000200	<0.00500	<0.00200	---	0.809
TW-1	4/3/2024	---	---	---	0.337	7.76	---	---	<0.00400	<0.00200	0.0628	<0.00200	<0.00100	<0.0100	<0.00200	0.337	<0.00200	0.137	<0.000200	<0.00500	<0.00200	<0.00200	1.95
TW-1	5/16/2024	1.30	22.9	39.3	0.326	7.78	71.5	1040	<0.00400	<0.00200	0.0586	---	<0.00100	<0.0100	<0.00200	0.326	<0.00200	0.129	<0.000200	<0.00500	<0.00200	---	2.79
TW-1	11/25/2024	1.36	23.5	40.5	0.365	7.38	74.3	984	<0.00400	<0.00200	0.0619	---	<0.00100	<0.0100	<0.00200	0.365	<0.00200	0.137	<0.000200	<0.00500	<0.00200	---	1.01

* Verification Sample obtained per certified statistical method and Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009.

**Extra Sample for Quality Control Validation or per Standard Sampling Procedure

mg/L - miligrams per liter

pCi/L - picocuries per liter

S.U. - Standard Units

--- Not Sampled

(U) - Reported concentration is below detectable limits, therefore the analyte was not detected.

(J) - Reported concentration for Radium 226 and/or Radium 228 was below the minimum detectable activity (MDA) and was estimated, therefore the combined Radium concentration is reported as estimated.

(B) - Based on the Stage II data quality review the sample result is potentially biased high due to analyte detection in the associated sample blank.

(M) - Method Detection Limit (MDL)

(J) - Reported concentration is below the laboratory reported detection limit (RDL), however is above the MDL and is estimated.

(U) - Reported concentration is below detectable limits, which indicates the analyte was not detected.

(E) - Eurofins Laboratories data

(J-) – Based on the Stage II data quality review the sample result is potentially biased low.

Table 2
Multi-Unit Monitoring Network
Field Measurements
Evergy LaCygne Generating Station

Well Number	Sample Date	pH (S.U.)	Specific Conductivity (µS)	Temperature (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	***Water Level (ft btoc)	Groundwater Elevation (ft NGVD)
MW-6	4/3/2024	7.43	1820	13.63	1.3	-54	0.00	10.14	850.54
MW-6	5/17/2024	7.41	1900	16.22	0.9	-43	0.00	10.03	850.65
MW-6	11/25/2024	7.33	2260	12.55	0.31	-165.0	0.00	11.22	849.46
MW-7	4/3/2024	7.95	1490	13.33	1.8	30	0.00	7.73	847.93
MW-7	5/17/2024	7.95	1560	15.13	2.5	-109	0.00	7.64	848.02
MW-7	11/25/2024	7.84	1860	13.77	0.33	-216.0	3.15	7.40	848.26
MW-10	4/3/2024	NS	NS	NS	NS	NS	NS	1.79	873.16
MW-10	5/17/2024	NS	NS	NS	NS	NS	NS	1.53	873.42
MW-10	11/25/2024	NS	NS	NS	NS	NS	NS	1.61	873.34
MW-11	4/3/2024	NS	NS	NS	NS	NS	NS	4.70	872.28
MW-11	5/17/2024	NS	NS	NS	NS	NS	NS	4.59	872.39
MW-11	11/25/2024	NS	NS	NS	NS	NS	NS	4.63	872.35
MW-13	4/3/2024	7.28	2710	13.57	1.90	186	5.01	2.43	874.79
MW-13	5/17/2024	7.14	2550	19.28	0.00	84	1.88	2.70	874.52
MW-13	11/25/2024	6.62	2437	15.50	6.08	11.2	0.96	3.06	874.16
MW-14R	4/3/2024	7.71	967	13.76	3.20	107	1.55	7.73	871.10
MW-14R	5/17/2024	7.59	1010	17.09	2.80	-13	0.00	6.78	872.05
MW-14R	11/25/2024	7.14	887	15.10	15.06	-155.6	0.52	7.61	871.22
MW-15	4/3/2024	7.23	1100	14.62	0.00	118	8.35	9.48	864.40
MW-15	5/17/2024	7.41	1230	18.62	0.40	78	1.84	8.63	865.25
MW-15	11/25/2024	6.93	1093	17.00	16.31	-15.8	0.51	8.61	865.27
MW-601	4/3/2024	7.91	1590	12.82	12.50	115	0.22	10.80	868.38
MW-601	5/17/2024	7.95	1500	15.87	0.00	-66	1.01	11.68	867.50
MW-601	11/25/2024	7.54	1525	15.20	11.08	-6.9	1.51	9.51	869.67
MW-602	4/3/2024	7.84	998	13.26	19.80	45	2.80	2.80	877.09
MW-602	5/17/2024	8.00	999	16.51	15.10	-78	0.99	3.25	876.64
MW-602	11/25/2024	7.45	915	15.40	11.97	-61.5	1.08	3.42	876.47

Table 2
Multi-Unit Monitoring Network
Field Measurements
Evergy LaCygne Generating Station

Well Number	Sample Date	pH (S.U.)	Specific Conductivity (µS)	Temperature (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	***Water Level (ft btoc)	Groundwater Elevation (ft NGVD)
MW-701	4/3/2024	7.78	945	13.38	18.0	68	3.60	9.77	875.46
MW-701	5/17/2024	7.95	967	15.99	2.7	-29	0.04	9.71	875.52
MW-701	11/25/2024	7.30	878	15.10	16.84	-129.6	0.46	10.24	874.99
MW-702	4/3/2024	7.79	1110	13.48	5.0	45	3.70	18.20	864.97
MW-702	5/17/2024	8.12	1150	14.70	0.0	-36	1.70	20.20	862.97
MW-702	11/25/2024	7.76	1043	14.70	7.42	-82.4	1.88	20.15	863.02
MW-703	4/3/2024	7.72	1430	13.25	16.2	-95	0.60	9.30	874.54
MW-703	5/17/2024	7.90	1400	15.79	20.2	-181	0.00	8.86	874.98
MW-703	11/25/2024	7.40	1335	16.20	13.89	-173.4	0.49	8.29	875.55
MW-704	4/3/2024	7.72	1900	13.35	9.1	124	3.38	12.40	870.77
MW-704	5/17/2024	8.00	1870	16.85	0.0	0	1.33	15.70	867.47
MW-704	11/25/2024	7.38	1828	15.60	8.45	-57.5	1.58	12.28	870.89
MW-705	4/3/2024	7.49	1660	13.72	7.4	-75	0.00	10.64	845.31
MW-705	5/17/2024	7.49	1730	17.11	4.7	-60	0.00	10.21	845.74
MW-705	11/25/2024	7.46	2020	14.75	1.40	-107.0	2.46	10.49	845.46
MW-706	4/3/2024	7.72	2040	12.97	17.1	-54	2.04	8.07	846.21
MW-706	5/17/2024	7.67	2110	16.97	9.1	-73	0.00	8.93	845.35
MW-706	11/25/2024	7.42	2550	14.86	4.10	-97.0	0.00	9.64	844.64
MW-707B	4/3/2024	6.76	7960	12.80	29.9	30	6.57	7.31	851.49
MW-707B	5/16/2024	6.89	8340	17.43	13.2	60	0.00	11.01	847.79
MW-707B	11/25/2024	6.85	10100	14.22	4.40	43.0	4.61	7.54	851.26
MW-708	4/3/2024	7.54	1080	14.54	0.0	-3	1.08	8.61	844.42
MW-708	5/16/2024	7.55	1180	16.64	2.9	74	0.53	8.62	844.41
MW-708	11/25/2024	7.04	1370	14.87	0.54	152.0	0.00	9.02	844.01
MW-801	4/3/2024	7.47	1350	13.42	0.00	-212	0.00	4.18	853.47
MW-801	5/16/2024	7.62	1450	17.10	3.40	-104	3.78	4.54	853.11
MW-801	11/25/2024	7.52	1374	14.20	10.86	-132.6	0.90	5.98	851.67

Table 2
Multi-Unit Monitoring Network
Field Measurements
Evergy LaCygne Generating Station

Well Number	Sample Date	pH (S.U.)	Specific Conductivity (µS)	Temperature (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	***Water Level (ft btoc)	Groundwater Elevation (ft NGVD)
MW-802	4/3/2024	7.41	1130	13.56	0.00	-190	0.51	9.04	844.43
MW-802	5/15/2024	7.35	1230	16.31	3.10	-139	0.00	8.94	844.53
MW-802	11/25/2024	7.40	1145	14.80	32.46	-145.3	0.23	10.58	842.89
MW-803	4/3/2024	7.31	1010	13.47	0.00	-3	0.25	20.50	834.50
MW-803	5/15/2024	7.31	1130	17.42	0.20	31	0.63	33.02	821.98
MW-803	11/25/2024	7.43	1035	14.10	50.77	78.4	2.81	26.50	828.50
MW-804	4/3/2024	7.29	916	15.81	0.00	85	4.54	9.87	845.33
MW-804	5/15/2024	7.23	1020	19.39	0.00	82	1.40	11.36	843.84
MW-804	11/25/2024	7.23	971	17.70	13.80	97.7	0.72	8.80	846.40
MW-805	4/3/2024	6.45	2990	14.80	14.80	65	2.06	10.60	844.03
MW-805	5/15/2024	6.40	3210	19.21	13.70	75	0.86	8.28	846.35
MW-805	11/25/2024	6.34	3078	17.00	33.90	129.3	0.29	9.24	845.39
TW-1	4/3/2024	7.76	1690	13.67	0.0	152	4.73	17.84	844.26
TW-1	5/16/2024	7.78	1730	17.25	1.1	86	4.03	18.82	843.28
TW-1	11/25/2024	7.38	2100	14.87	0.18	67.0	0.00	18.55	843.55

* Verification Sample obtained per certified statistical method and Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009.

**Extra Sample for Quality Control Validation or per Standard Sampling Procedure

***Depth to water measured in all monitoring wells within 24 hour period prior to the sampling event

S.U. - Standard Units

µS - microsiemens

°C - Degrees Celsius

ft btoc - Feet Below Top of Casing

ft NGVD - National Geodetic Vertical Datum (NAVD 88)

NTU - Nephelometric Turbidity Unit

Table 3
Multi-Unit Monitoring Network
Appendix IV Background Data and Groundwater Protection Standards
Evergy LaCygne Generating Station

Well Number	Sample Date	Appendix IV Constituents														
		Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MCL		0.006	0.010	2.0	0.004	0.005	0.10	NA	4.0	0.015	NA	0.002	NA	0.05	0.002	5.00
40 CFR 257.95(h) GWPS		NA	NA	NA	NA	NA	NA	0.006	NA	NA	0.040	NA	0.100	NA	NA	NA
La Cygne Prediction Limit		0.012	0.00301	0.3312	0.002	0.001	0.00327	0.002	1.81	0.00209	0.278	0.000246	0.0191	0.002	0.002	2.299
La Cygne Multi-Unit GWPS		0.012	0.010	2.0	0.004	0.005	0.10	0.006	4.0	0.015	0.278	0.002	0.100	0.05	0.002	5.00
MW-6	6/8/2016	<0.002	0.00721	0.204	<0.002	<0.001	<0.002	<0.002	0.545	<0.002	0.0634	<0.0002	<0.005	<0.002	<0.002	0.385
MW-6	8/10/2016	<0.002	0.00370	0.175	<0.002	<0.001	<0.002	<0.002	0.495	<0.002	0.0482	<0.0002	<0.005	<0.002	<0.002	0.521
MW-6	10/13/2016	<0.002	0.00421	0.174	<0.002	<0.001	<0.002	<0.002	0.497	<0.002	0.0507	<0.0002	<0.005	<0.002	<0.002	1.89
MW-6	12/12/2016	<0.002	0.00515	0.168	<0.002	<0.001	<0.002	<0.002	0.401	<0.002	0.0456	<0.0002	<0.005	<0.002	<0.002	1.37
MW-6	2/9/2017	<0.002	<0.002	0.141	<0.002	<0.001	<0.002	<0.002	0.492	<0.002	0.0553	<0.0002	<0.005	<0.002	<0.002	0.431
MW-6	4/5/2017	<0.002	<0.002	0.147	<0.002	<0.001	<0.002	<0.002	0.447	<0.002	0.0521	<0.0002	<0.005	<0.002	<0.002	0.674
MW-6	6/15/2017	<0.002	0.00715	0.181	<0.002	<0.001	<0.002	<0.002	1.75	<0.002	0.0538	<0.0002	<0.005	<0.002	<0.002	1.53
MW-6	8/9/2017	<0.002	0.00480	0.178	<0.002	<0.001	<0.002	<0.002	0.473	<0.002	0.0570	<0.0002	<0.005	<0.002	<0.002	1.98
MW-6	10/5/2017	<0.002	0.00475	0.185	<0.002	<0.001	<0.002	<0.002	0.464	<0.002	0.0483	<0.0002	<0.005	<0.002	<0.002	1.38
MW-6	4/3/2024	<0.00400	<0.00200	0.146	<0.00200	<0.00100	<0.0100	<0.00200	0.637	<0.00200	0.0444	<0.000200	<0.00500	<0.00200	<0.00200	0.122 (U)
MW-6	5/17/2024	<0.00400	0.00277	0.145	---	<0.00100	<0.0100	<0.00200	0.572	<0.00200	0.0469	<0.000200	<0.00500	<0.00200	---	0.812 (J)
MW-6	11/25/2024	<0.00400	0.00354	0.166	---	<0.00100	<0.0100	<0.00200	0.678	<0.00200	0.0409	<0.000200	<0.00500	<0.00200	---	1.12
MW-7	6/8/2016	<0.002	0.00393	0.611	<0.002	<0.001	<0.002	<0.002	1.36	<0.002	0.0867	<0.0002	<0.005	<0.002	<0.002	1.66
MW-7	8/10/2016	<0.002	0.00212	0.530	<0.002	<0.001	<0.002	<0.002	1.27	<0.002	0.0736	<0.0002	<0.005	<0.002	<0.002	1.795
MW-7	10/13/2016	<0.002	0.00302	0.532	<0.002	<0.001	<0.002	<0.002	1.28	<0.002	0.0759	<0.0002	<0.005	<0.002	<0.002	1.82
MW-7	12/12/2016	<0.002	0.00278	0.552	<0.002	<0.001	<0.002	<0.002	1.13	<0.002	0.0713	<0.0002	<0.005	<0.002	<0.002	1.55
MW-7	2/8/2017	<0.002	<0.002	0.509	<0.002	<0.001	<0.002	<0.002	1.20	<0.002	0.0773	0.000235	<0.005	<0.002	<0.002	0.366
MW-7	4/5/2017	<0.002	<0.002	0.497	<0.002	<0.001	<0.002	<0.002	1.28	<0.002	0.0755	<0.0002	<0.005	<0.002	<0.002	1.23
MW-7	6/15/2017	<0.002	0.00223	0.527	<0.002	<0.001	<0.002	<0.002	1.27	<0.002	0.0817	<0.0002	<0.005	<0.002	<0.002	1.38
MW-7	8/9/2017	<0.002	0.00301	0.565	<0.002	<0.001	<0.002	<0.002	1.20	<0.002	0.0842	<0.0002	<0.005	<0.002	<0.002	2.93
MW-7	10/5/2017	<0.002	0.00280	0.563	<0.002	<0.001	<0.002	<0.002	1.19	<0.002	0.0759	<0.0002	<0.005	<0.002	<0.002	2.09
MW-7	4/3/2024	<0.00400	<0.00200	0.467	<0.00200	<0.00100	<0.0100	<0.00200	1.25	<0.00200	0.0708	<0.000200	<0.00500	<0.00200	<0.00200	0.813
MW-7	5/17/2024	<0.00400	<0.00200	0.478	---	<0.00100	<0.0100	<0.00200	1.37	<0.00200	0.0738	<0.000200	<0.00500	<0.00200	---	1.2
MW-7	11/25/2024	<0.00400	0.00244	0.554	---	<0.00100	<0.0100	<0.00200	1.33	<0.00200	0.0694	<0.000200	<0.00500	<0.00200	---	1.58

Table 3
Multi-Unit Monitoring Network
Appendix IV Background Data and Groundwater Protection Standards
Evergy LaCygne Generating Station

Well Number	Sample Date	Appendix IV Constituents														
		Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MCL		0.006	0.010	2.0	0.004	0.005	0.10	NA	4.0	0.015	NA	0.002	NA	0.05	0.002	5.00
40 CFR 257.95(h) GWPS		NA	NA	NA	NA	NA	NA	0.006	NA	NA	0.040	NA	0.100	NA	NA	NA
La Cygne Prediction Limit		0.012	0.00301	0.3312	0.002	0.001	0.00327	0.002	1.81	0.00209	0.278	0.000246	0.0191	0.002	0.002	2.299
La Cygne Multi-Unit GWPS		0.012	0.010	2.0	0.004	0.005	0.10	0.006	4.0	0.015	0.278	0.002	0.100	0.05	0.002	5.00
MW-13	6/9/2016	<0.002	<0.002	0.0360	<0.002	<0.001	0.00327	<0.002	0.170	<0.002	0.0608	<0.0002	<0.005	<0.002	<0.002	0.636
MW-13	8/11/2016	<0.002	<0.002	0.0235	<0.002	<0.001	<0.002	<0.002	0.128	<0.002	0.0567	<0.0002	<0.005	<0.002	<0.002	0.668
MW-13	10/13/2016	<0.002	<0.002	0.0187	<0.002	<0.001	<0.002	<0.002	0.171	<0.002	0.0568	<0.0002	<0.005	<0.002	<0.002	0.613
MW-13	12/13/2016	<0.002	<0.002	0.0181	<0.002	<0.001	<0.002	<0.002	0.142	<0.002	0.0507	<0.0002	<0.005	<0.002	<0.002	0.000
MW-13	2/10/2017	<0.002	<0.002	0.0161	<0.002	<0.001	<0.002	<0.002	0.167	<0.002	0.0644	<0.0002	<0.005	<0.002	<0.002	0.354
MW-13	4/6/2017	<0.002	<0.002	0.0160	<0.002	<0.001	<0.002	<0.002	0.171	<0.002	0.0554	<0.0002	<0.005	<0.002	<0.002	0.34
MW-13	6/15/2017	<0.002	<0.002	0.0162	<0.002	<0.001	<0.002	<0.002	0.137	<0.002	0.0565	<0.0002	<0.005	<0.002	<0.002	1.33
MW-13	8/8/2017	<0.002	<0.002	0.0159	<0.002	<0.001	<0.002	<0.002	0.139	<0.002	0.0620	<0.0002	<0.005	<0.002	<0.002	0.075
MW-13	10/5/2017	<0.002	<0.002	0.0192	<0.002	<0.001	<0.002	<0.002	0.138	<0.002	0.0556	<0.0002	<0.005	<0.002	<0.002	0.141
MW-13	4/3/2024	<0.00400	<0.00200	0.0173	<0.00200	<0.00100	<0.0100	<0.00200	0.154	<0.00200	0.0534	<0.000200	<0.00500	<0.00200	<0.00200	0.232 (U)
MW-13	5/17/2024	<0.00400	<0.00200	0.0168	---	<0.00100	<0.0100	<0.00200	0.179	<0.00200	0.0571	<0.000200	<0.00500	<0.00200	---	0.660 (J)
MW-13	11/25/2024	<0.00400	<0.00200	0.0169	---	<0.00100	<0.0100	<0.00200	0.214	<0.00200	0.0525	<0.000200	<0.00500	<0.00200	---	0.644
MW-14R	6/9/2016	<0.002	<0.002	0.0448	<0.002	<0.001	<0.002	<0.002	0.265	<0.002	0.0429	<0.0002	<0.005	<0.002	<0.002	1.51
MW-14R	8/11/2016	<0.002	<0.002	0.0411	<0.002	<0.001	<0.002	<0.002	0.299	<0.002	0.0449	<0.0002	<0.005	<0.002	<0.002	1.224
MW-14R	10/13/2016	<0.002	<0.002	0.0370	<0.002	<0.001	<0.002	<0.002	0.215	<0.002	0.0347	<0.0002	<0.005	<0.002	<0.002	1.30
MW-14R	12/9/2016	<0.002	<0.002	0.0374	<0.002	<0.001	<0.002	<0.002	0.178	<0.002	0.0326	<0.0002	<0.005	<0.002	<0.002	0.634
MW-14R	2/9/2017	<0.002	<0.002	0.0411	<0.002	<0.001	<0.002	<0.002	0.211	<0.002	0.0421	<0.0002	<0.005	<0.002	<0.002	0.279
MW-14R	4/7/2017	<0.002	<0.002	0.0376	<0.002	<0.001	<0.002	<0.002	0.201	<0.002	0.0393	<0.0002	<0.005	<0.002	<0.002	0.762
MW-14R	6/15/2017	<0.002	<0.002	0.0411	<0.002	<0.001	<0.002	<0.002	0.237	<0.002	0.0401	<0.0002	<0.005	<0.002	<0.002	0.573
MW-14R	8/10/2017	<0.002	<0.002	0.0394	<0.002	<0.001	<0.002	<0.002	0.239	<0.002	0.0372	<0.0002	<0.005	<0.002	<0.002	1.54
MW-14R	10/5/2017	<0.002	<0.002	0.0436	<0.002	<0.001	<0.002	<0.002	0.169	<0.002	0.0346	<0.0002	<0.005	<0.002	<0.002	1.12
MW-14R	4/3/2024	<0.00400	<0.00200	0.0401	<0.00200	<0.00100	<0.0100	<0.00200	0.380	<0.00200	0.0458	<0.000200	<0.00500	<0.00200	<0.00200	0.961 (J)
MW-14R	5/17/2024	<0.00400	<0.00200	0.0403	---	<0.00100	<0.0100	<0.00200	0.397	<0.00200	0.0419	<0.000200	<0.00500	<0.00200	---	0.605 (J)
MW-14R	11/25/2024	<0.00400	<0.00200	0.0383	---	<0.00100	<0.0100	<0.00200	0.402	<0.00200	0.0395	<0.000200	<0.00500	<0.00200	---	0.735

Table 3
Multi-Unit Monitoring Network
Appendix IV Background Data and Groundwater Protection Standards
Evergy LaCygne Generating Station

Well Number	Sample Date	Appendix IV Constituents														
		Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MCL		0.006	0.010	2.0	0.004	0.005	0.10	NA	4.0	0.015	NA	0.002	NA	0.05	0.002	5.00
40 CFR 257.95(h) GWPS		NA	NA	NA	NA	NA	NA	0.006	NA	NA	0.040	NA	0.100	NA	NA	NA
La Cygne Prediction Limit		0.012	0.00301	0.3312	0.002	0.001	0.00327	0.002	1.81	0.00209	0.278	0.000246	0.0191	0.002	0.002	2.299
La Cygne Multi-Unit GWPS		0.012	0.010	2.0	0.004	0.005	0.10	0.006	4.0	0.015	0.278	0.002	0.100	0.05	0.002	5.00
MW-15	6/9/2016	<0.002	<0.002	0.0472	<0.002	<0.001	<0.002	<0.002	0.257	<0.002	0.0271	<0.0002	<0.005	<0.002	<0.002	1.80
MW-15	8/9/2016	<0.002	<0.002	0.0476	<0.002	<0.001	<0.002	<0.002	0.220	<0.002	0.0231	<0.0002	<0.005	<0.002	<0.002	0.991
MW-15	10/12/2016	<0.002	<0.002	0.0466	<0.002	<0.001	<0.002	<0.002	0.232	<0.002	0.0263	<0.0002	<0.005	<0.002	<0.002	1.97
MW-15	12/7/2016	<0.002	<0.002	0.0556	<0.002	<0.001	<0.002	<0.002	0.262	<0.002	0.0242	<0.0002	<0.005	<0.002	<0.002	1.76
MW-15	2/7/2017	<0.002	<0.002	0.0527	<0.002	<0.001	<0.002	<0.002	0.258	<0.002	0.0269	<0.0002	<0.005	<0.002	<0.002	1.60
MW-15	4/5/2017	<0.002	<0.002	0.0500	<0.002	<0.001	<0.002	<0.002	0.235	<0.002	0.0237	<0.0002	<0.005	<0.002	<0.002	2.12
MW-15	6/14/2017	<0.002	<0.002	0.0546	<0.002	<0.001	<0.002	<0.002	0.304	<0.002	0.0211	<0.0002	<0.005	<0.002	<0.002	1.00
MW-15	8/10/2017	<0.002	<0.002	0.0515	<0.002	<0.001	<0.002	<0.002	0.280	<0.002	<0.015	<0.0002	0.00876	<0.002	<0.002	0.184
MW-15	10/3/2017	<0.002	<0.002	0.0541	<0.002	<0.001	<0.002	<0.002	0.244	<0.002	0.0209	<0.0002	<0.005	<0.002	<0.002	1.64
MW-15	4/3/2024	<0.00400	<0.00200	0.0437	<0.00200	<0.00100	<0.0100	<0.00200	0.306	<0.00200	0.0261	<0.000200	<0.00500	<0.00200	<0.00200	0.795 (J)
MW-15	5/17/2024	<0.00400	<0.00200	0.0449	---	<0.00100	<0.0100	<0.00200	0.296	<0.00200	0.0254	<0.000200	<0.00500	<0.00200	---	1.10
MW-15	11/25/2024	<0.00400	<0.00200	0.0408	---	<0.00100	<0.0100	<0.00200	0.314	<0.00200	0.0208	<0.000200	<0.00500	<0.00200	---	0.95
MW-601	6/9/2016	<0.002	<0.002	0.134	<0.002	<0.001	<0.002	<0.002	1.63	<0.002	0.0712	<0.0002	<0.005	<0.002	<0.002	0.567
MW-601	8/9/2016	<0.002	<0.002	0.120	<0.002	<0.001	<0.002	<0.002	1.69	<0.002	0.0727	<0.0002	<0.005	<0.002	<0.002	0.460
MW-601	10/13/2016	<0.002	<0.002	0.117	<0.002	<0.001	<0.002	<0.002	1.68	<0.002	0.0725	<0.0002	<0.005	<0.002	<0.002	0.698
MW-601	12/7/2016	<0.002	<0.002	0.130	<0.002	<0.001	<0.002	<0.002	1.81	<0.002	0.0747	<0.0002	<0.005	<0.002	<0.002	0.160
MW-601	2/8/2017	<0.002	<0.002	0.135	<0.002	<0.001	<0.002	<0.002	1.75	<0.002	0.0782	0.000236	<0.005	<0.002	<0.002	0.944
MW-601	4/6/2017	<0.002	<0.002	0.122	<0.002	<0.001	<0.002	<0.002	1.59	<0.002	0.0746	<0.0002	<0.005	<0.002	<0.002	0.967
MW-601	6/15/2017	<0.002	<0.002	0.123	<0.002	<0.001	<0.002	<0.002	1.63	<0.002	0.0778	<0.0002	<0.005	<0.002	<0.002	0.088
MW-601	8/9/2017	<0.002	<0.002	0.125	<0.002	<0.001	<0.002	<0.002	1.80	<0.002	0.0830	<0.0002	<0.005	<0.002	<0.002	0.847
MW-601	10/6/2017	<0.002	<0.002	0.132	<0.002	<0.001	<0.002	<0.002	1.26	<0.002	0.0737	<0.0002	<0.005	<0.002	<0.002	0.343
MW-601	4/3/2024	<0.00400	<0.00200	0.132	<0.00200	<0.00100	<0.0100	<0.00200	<0.150	<0.00200	0.0701	<0.000200	<0.00500	<0.00200	<0.00200	0.403 (J)
MW-601	5/17/2024	<0.00400	<0.00200	0.128	---	<0.00100	<0.0100	<0.00200	1.60	<0.00200	0.0691	<0.000200	<0.00500	<0.00200	---	0.606 (J)
MW-601	11/25/2024	<0.00400	<0.00200	0.13	---	<0.00100	<0.0100	<0.00200	1.78	<0.00200	0.0649	<0.000200	<0.00500	<0.00200	---	0.522 (J)

Table 3
Multi-Unit Monitoring Network
Appendix IV Background Data and Groundwater Protection Standards
Evergy LaCygne Generating Station

Well Number	Sample Date	Appendix IV Constituents														
		Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MCL		0.006	0.010	2.0	0.004	0.005	0.10	NA	4.0	0.015	NA	0.002	NA	0.05	0.002	5.00
40 CFR 257.95(h) GWPS		NA	NA	NA	NA	NA	NA	0.006	NA	NA	0.040	NA	0.100	NA	NA	NA
La Cygne Prediction Limit		0.012	0.00301	0.3312	0.002	0.001	0.00327	0.002	1.81	0.00209	0.278	0.000246	0.0191	0.002	0.002	2.299
La Cygne Multi-Unit GWPS		0.012	0.010	2.0	0.004	0.005	0.10	0.006	4.0	0.015	0.278	0.002	0.100	0.05	0.002	5.00
MW-602	6/10/2016	<0.002	<0.002	0.101	<0.002	<0.001	<0.002	<0.002	1.21	<0.002	0.0628	<0.0002	<0.005	<0.002	<0.002	0.014
MW-602	8/9/2016	<0.002	<0.002	0.0927	<0.002	<0.001	<0.002	<0.002	1.27	<0.002	0.0587	<0.0002	<0.005	<0.002	<0.002	0.123
MW-602	10/13/2016	<0.002	<0.002	0.0906	<0.002	<0.001	<0.002	<0.002	1.30	<0.002	0.0615	<0.0002	<0.005	<0.002	<0.002	0.896
MW-602	12/9/2016	<0.002	<0.002	0.0913	<0.002	<0.001	<0.002	<0.002	1.16	<0.002	0.0533	<0.0002	<0.005	<0.002	<0.002	0.650
MW-602	2/8/2017	<0.002	<0.002	0.0956	<0.002	<0.001	<0.002	<0.002	1.24	<0.002	0.0630	0.000205	<0.005	<0.002	<0.002	0.936
MW-602	4/7/2017	<0.002	<0.002	0.0921	<0.002	<0.001	<0.002	<0.002	1.18	<0.002	0.0624	<0.0002	<0.005	<0.002	<0.002	1.26
MW-602	6/15/2017	<0.002	<0.002	0.094	<0.002	<0.001	<0.002	<0.002	1.20	<0.002	0.0652	<0.0002	<0.005	<0.002	<0.002	0.000
MW-602	8/10/2017	<0.002	<0.002	0.0883	<0.002	<0.001	<0.002	<0.002	1.36	<0.002	0.0662	<0.0002	<0.005	<0.002	<0.002	0.000
MW-602	10/5/2017	<0.002	<0.002	0.101	<0.002	<0.001	<0.002	<0.002	0.972	<0.002	0.0612	<0.0002	<0.005	<0.002	<0.002	1.77
MW-602	4/3/2024	<0.00400	<0.00200	0.101	<0.00200	<0.00100	<0.0100	<0.00200	1.18	<0.00200	0.0561	<0.000200	<0.00500	<0.00200	<0.00200	0.700
MW-602	5/17/2024	<0.00400	<0.00200	0.0994	---	<0.00100	<0.0100	<0.00200	1.35	<0.00200	0.0569	<0.000200	<0.00500	<0.00200	---	0.914 (J)
MW-602	11/25/2024	<0.00400	<0.00200	0.098	---	<0.00100	<0.0100	<0.00200	1.29	<0.00200	0.0535	<0.000200	<0.00500	<0.00200	---	0.146 (JU)
MW-701	6/7/2016	<0.002	<0.002	0.149	<0.002	<0.001	<0.002	<0.002	0.717	<0.002	0.0375	<0.0002	0.00519	<0.002	<0.002	0.245
MW-701	8/9/2016	<0.002	<0.002	0.144	<0.002	<0.001	<0.002	<0.002	0.719	<0.002	0.0314	<0.0002	<0.005	<0.002	<0.002	0.215
MW-701	10/11/2016	<0.002	<0.002	0.159	<0.002	<0.001	<0.002	<0.002	0.751	<0.002	0.0374	<0.0002	<0.005	<0.002	<0.002	1.39
MW-701	12/6/2016	<0.002	<0.002	0.168	<0.002	<0.001	<0.002	<0.002	0.816	<0.002	0.0409	<0.0002	<0.005	<0.002	<0.002	0.734
MW-701	2/7/2017	<0.002	<0.002	0.181	<0.002	<0.001	<0.002	<0.002	0.679	<0.002	0.0397	<0.0002	<0.005	<0.002	<0.002	0.284
MW-701	4/4/2017	<0.002	<0.002	0.186	<0.002	<0.001	<0.002	<0.002	0.790	<0.002	0.0399	<0.0002	<0.005	<0.002	<0.002	0.371
MW-701	6/13/2017	<0.002	<0.002	0.172	<0.002	<0.001	<0.002	<0.002	0.692	<0.002	0.0403	<0.0002	<0.005	<0.002	<0.002	0.956
MW-701	8/8/2017	<0.002	<0.002	0.190	<0.002	<0.001	<0.002	<0.002	0.857	0.00209	0.0451	<0.0002	<0.005	<0.002	<0.002	2.29
MW-701	10/3/2017	<0.002	<0.002	0.190	<0.002	<0.001	<0.002	<0.002	0.798	<0.002	0.0429	<0.0002	<0.005	<0.002	<0.002	1.25
MW-701	4/3/2024	<0.00400	<0.00200	0.209	<0.00200	<0.00100	<0.0100	<0.00200	0.666	<0.00200	0.0422	<0.000200	<0.00500	<0.00200	<0.00200	0.857 (J)
MW-701	5/17/2024	<0.00400	<0.00200	0.211	---	<0.00100	<0.0100	<0.00200	0.612	<0.00200	0.0438	<0.000200	<0.00500	<0.00200	---	1.77
MW-701	11/25/2024	<0.00400	<0.00200	0.189	---	<0.00100	<0.0100	<0.00200	0.651	<0.00200	0.0417	<0.000200	<0.00500	<0.00200	---	1.27

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MCL		0.006	0.010	2.0	0.004	0.005	0.10	NA	4.0	0.015	NA	0.002	NA	0.05	0.002	5.00
40 CFR 257.95(h) GWPS		NA	NA	NA	NA	NA	NA	0.006	NA	NA	0.040	NA	0.100	NA	NA	NA
La Cygne Prediction Limit		0.012	0.00301	0.3312	0.002	0.001	0.00327	0.002	1.81	0.00209	0.278	0.000246	0.0191	0.002	0.002	2.299
La Cygne Multi-Unit GWPS		0.012	0.010	2.0	0.004	0.005	0.10	0.006	4.0	0.015	0.278	0.002	0.100	0.05	0.002	5.00
MW-702	6/8/2016	<0.002	<0.002	0.242	<0.002	<0.001	<0.002	<0.002	1.60	<0.002	0.213	<0.0002	<0.005	<0.002	<0.002	0.924
MW-702	8/9/2016	<0.002	<0.002	0.232	<0.002	<0.001	<0.002	<0.002	1.44	<0.002	0.251	<0.0002	<0.005	<0.002	<0.002	1.692
MW-702	10/11/2016	<0.002	<0.002	0.199	<0.002	<0.001	<0.002	<0.002	1.37	<0.002	0.278	<0.0002	<0.005	<0.002	<0.002	1.06
MW-702	12/8/2016	<0.002	<0.002	0.376	<0.002	<0.001	<0.002	<0.002	1.39	<0.002	0.0671	<0.0002	<0.005	<0.002	<0.002	0.522
MW-702	2/8/2017	<0.002	<0.002	0.396	<0.002	<0.001	<0.002	<0.002	1.46	<0.002	0.0655	0.000209	<0.005	<0.002	<0.002	1.02
MW-702	4/5/2017	<0.002	<0.002	0.373	<0.002	<0.001	<0.002	<0.002	1.50	<0.002	0.0841	<0.0002	<0.005	<0.002	<0.002	0.331
MW-702	6/15/2017	<0.002	<0.002	0.302	<0.002	<0.001	<0.002	<0.002	1.32	<0.002	0.174	<0.0002	<0.005	<0.002	<0.002	0.605
MW-702	8/9/2017	<0.002	<0.002	0.403	<0.002	<0.001	<0.002	<0.002	1.41	<0.002	0.0970	<0.0002	<0.005	<0.002	<0.002	1.46
MW-702	10/3/2017	<0.002	<0.002	0.408	<0.002	<0.001	<0.002	<0.002	1.53	<0.002	0.0735	<0.0002	<0.005	<0.002	<0.002	0.939
MW-702	4/3/2024	<0.00400	<0.00200	0.590	<0.00200	<0.00100	<0.0100	<0.00200	1.42	<0.00200	0.0618	<0.000200	<0.00500	<0.00200	<0.00200	1.01 (J)
MW-702	5/17/2024	<0.00400	<0.00200	0.529	---	<0.00100	<0.0100	<0.00200	1.42	<0.00200	0.0597	<0.000200	<0.00500	<0.00200	---	2.73
MW-702	11/25/2024	<0.00400	<0.00200	0.551	---	<0.00100	<0.0100	<0.00200	1.55	<0.00200	0.0573	<0.000200	<0.00500	<0.00200	---	0.941
MW-703	6/7/2016	<0.002	0.00301	0.292	<0.002	<0.001	<0.002	<0.002	1.37	<0.002	0.0718	<0.0002	<0.005	<0.002	<0.002	1.36
MW-703	8/9/2016	<0.002	<0.002	0.273	<0.002	<0.001	<0.002	<0.002	1.44	<0.002	0.0623	<0.0002	<0.005	<0.002	<0.002	1.903
MW-703	10/11/2016	<0.002	<0.002	0.259	<0.002	<0.001	<0.002	<0.002	1.45	<0.002	0.0656	<0.0002	<0.005	<0.002	<0.002	1.19
MW-703	12/6/2016	<0.002	<0.002	0.270	<0.002	<0.001	<0.002	<0.002	1.55	<0.002	0.0671	<0.0002	<0.005	<0.002	<0.002	4.48
MW-703	2/7/2017	<0.002	<0.002	0.271	<0.002	<0.001	<0.002	<0.002	1.44	<0.002	0.0721	<0.0002	<0.005	<0.002	<0.002	2.11
MW-703	4/4/2017	<0.002	<0.002	0.299	<0.002	<0.001	<0.002	<0.002	1.40	<0.002	0.0626	<0.0002	<0.005	<0.002	<0.002	1.30
MW-703	6/14/2017	<0.002	<0.002	0.255	<0.002	<0.001	<0.002	<0.002	1.45	<0.002	0.0742	<0.0002	<0.005	<0.002	<0.002	1.05
MW-703	8/10/2017	<0.002	<0.002	0.251	<0.002	<0.001	<0.002	<0.002	1.58	<0.002	0.0684	<0.0002	<0.005	<0.002	<0.002	1.88
MW-703	10/5/2017	<0.002	<0.002	0.290	<0.002	<0.001	<0.002	<0.002	1.37	<0.002	0.0689	<0.0002	<0.005	<0.002	<0.002	2.59
MW-703	4/3/2024	<0.00400	<0.00200	0.262	<0.00200	<0.00100	<0.0100	<0.00200	1.32	<0.00200	0.0606	<0.000200	<0.00500	<0.00200	<0.00200	2.49
MW-703	5/17/2024	<0.00400	<0.00200	0.264	---	<0.00100	<0.0100	<0.00200	1.20	<0.00200	0.0582	<0.000200	<0.00500	<0.00200	---	1.87
MW-703	11/25/2024	<0.00400	<0.00200	0.295	---	<0.00100	<0.0100	<0.00200	1.15	<0.00200	0.0518	<0.000200	<0.00500	<0.00200	---	2.98

Table 3
Multi-Unit Monitoring Network
Appendix IV Background Data and Groundwater Protection Standards
Evergy LaCygne Generating Station

Well Number	Sample Date	Appendix IV Constituents														
		Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MCL		0.006	0.010	2.0	0.004	0.005	0.10	NA	4.0	0.015	NA	0.002	NA	0.05	0.002	5.00
40 CFR 257.95(h) GWPS		NA	NA	NA	NA	NA	NA	0.006	NA	NA	0.040	NA	0.100	NA	NA	NA
La Cygne Prediction Limit		0.012	0.00301	0.3312	0.002	0.001	0.00327	0.002	1.81	0.00209	0.278	0.000246	0.0191	0.002	0.002	2.299
La Cygne Multi-Unit GWPS		0.012	0.010	2.0	0.004	0.005	0.10	0.006	4.0	0.015	0.278	0.002	0.100	0.05	0.002	5.00
MW-704	6/7/2016	0.012	<0.002	0.113	<0.002	<0.001	<0.002	<0.002	0.852	<0.002	0.0938	<0.0002	0.0191	<0.002	<0.002	0.986
MW-704	8/9/2016	0.0115	<0.002	0.104	<0.002	<0.001	<0.002	<0.002	0.874	<0.002	0.0867	<0.0002	0.0143	<0.002	<0.002	0.824
MW-704	10/11/2016	0.0112	<0.002	0.0776	<0.002	<0.001	<0.002	<0.002	0.865	<0.002	0.0953	<0.0002	0.0128	<0.002	<0.002	1.45
MW-704	12/6/2016	0.00867	<0.002	0.0844	<0.002	<0.001	<0.002	<0.002	0.939	<0.002	0.0974	<0.0002	0.0124	<0.002	<0.002	0.957
MW-704	2/7/2017	0.00769	0.00205	0.0847	<0.002	<0.001	<0.002	<0.002	0.825	<0.002	0.101	0.000246	0.0112	<0.002	<0.002	0.994
MW-704	4/4/2017	0.00719	<0.002	0.0747	<0.002	<0.001	<0.002	<0.002	0.882	<0.002	0.101	<0.0002	0.0102	<0.002	<0.002	0.505
MW-704	6/13/2017	0.00488	<0.002	0.0774	<0.002	<0.001	<0.002	<0.002	0.740	<0.002	0.106	<0.0002	0.00858	<0.002	<0.002	1.27
MW-704	8/8/2017	0.00423	<0.002	0.0799	<0.002	<0.001	<0.002	<0.002	0.783	<0.002	0.109	<0.0002	0.00876	<0.002	<0.002	1.17
MW-704	10/3/2017	0.00521	<0.002	0.0842	<0.002	<0.001	<0.002	<0.002	0.917	<0.002	0.107	<0.0002	0.008	<0.002	<0.002	2.18
MW-704	4/3/2024	<0.00400	<0.00200	0.0626	<0.00200	<0.00100	<0.0100	<0.00200	0.897	<0.00200	0.101	<0.000200	<0.00500	<0.00200	<0.00200	0.955
MW-704	5/17/2024	<0.00400	<0.00200	0.0563	---	<0.00100	<0.0100	<0.00200	0.822	<0.00200	0.0998	<0.000200	<0.00500	<0.00200	---	1.07
MW-704	11/25/2024	<0.00400	<0.00200	0.0539	---	<0.00100	<0.0100	<0.00200	0.968	<0.00200	0.0959	<0.000200	<0.00500	<0.00200	---	1.35
MW-705	6/7/2016	<0.002	<0.002	0.0918	<0.002	<0.001	<0.002	<0.002	0.944	<0.002	0.133	<0.0002	<0.005	<0.002	<0.002	0.601
MW-705	8/9/2016	<0.002	<0.002	0.0892	<0.002	<0.001	<0.002	<0.002	0.985	<0.002	0.113	<0.0002	<0.005	<0.002	<0.002	0.258
MW-705	10/11/2016	<0.002	<0.002	0.0881	<0.002	<0.001	<0.002	<0.002	0.998	<0.002	0.119	<0.0002	<0.005	<0.002	<0.002	1.39
MW-705	12/7/2016	<0.002	<0.002	0.0930	<0.002	<0.001	<0.002	<0.002	1.07	<0.002	0.125	<0.0002	<0.005	<0.002	<0.002	0.608
MW-705	2/9/2017	<0.002	<0.002	0.0890	<0.002	<0.001	<0.002	<0.002	1.04	<0.002	0.130	<0.0002	<0.005	<0.002	<0.002	0.555
MW-705	4/6/2017	<0.002	<0.002	0.0873	<0.002	<0.001	<0.002	<0.002	0.905	<0.002	0.121	<0.0002	<0.005	<0.002	<0.002	0.264
MW-705	6/13/2017	<0.002	<0.002	0.0837	<0.002	<0.001	<0.002	<0.002	0.924	<0.002	0.129	<0.0002	<0.005	<0.002	<0.002	0.278
MW-705	8/9/2017	<0.002	<0.002	0.0938	<0.002	<0.001	<0.002	<0.002	0.920	<0.002	0.134	<0.0002	<0.005	<0.002	<0.002	0.831
MW-705	10/3/2017	<0.002	<0.002	0.0873	<0.002	<0.001	<0.002	<0.002	1.04	<0.002	0.115	<0.0002	<0.005	<0.002	<0.002	0.568
MW-705	4/3/2024	<0.00400	<0.00200	0.0918	<0.00200	<0.00100	<0.0100	<0.00200	1.01	<0.00200	0.118	<0.000200	<0.00500	<0.00200	<0.00200	0.784
MW-705	5/17/2024	<0.00400	<0.00200	0.0887	---	<0.00100	<0.0100	<0.00200	0.992	<0.00200	0.117	<0.000200	<0.00500	<0.00200	---	0.796 (J)
MW-705	11/25/2024	<0.00400	<0.00200	0.0910	---	<0.00100	<0.0100	<0.00200	1.11	<0.00200	0.115	<0.000200	<0.00500	<0.00200	---	1.05

Table 3
Multi-Unit Monitoring Network
Appendix IV Background Data and Groundwater Protection Standards
Evergy LaCygne Generating Station

Well Number	Sample Date	Appendix IV Constituents														
		Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MCL		0.006	0.010	2.0	0.004	0.005	0.10	NA	4.0	0.015	NA	0.002	NA	0.05	0.002	5.00
40 CFR 257.95(h) GWPS		NA	NA	NA	NA	NA	NA	0.006	NA	NA	0.040	NA	0.100	NA	NA	NA
La Cygne Prediction Limit		0.012	0.00301	0.3312	0.002	0.001	0.00327	0.002	1.81	0.00209	0.278	0.000246	0.0191	0.002	0.002	2.299
La Cygne Multi-Unit GWPS		0.012	0.010	2.0	0.004	0.005	0.10	0.006	4.0	0.015	0.278	0.002	0.100	0.05	0.002	5.00
MW-706	6/8/2016	<0.002	<0.002	0.273	<0.002	<0.001	<0.002	<0.002	1.22	<0.002	0.146	<0.0002	<0.005	<0.002	<0.002	1.26
MW-706	8/9/2016	<0.002	<0.002	0.280	<0.002	<0.001	<0.002	<0.002	1.12	<0.002	0.126	<0.0002	<0.005	<0.002	<0.002	0.704
MW-706	10/11/2016	<0.002	<0.002	0.274	<0.002	<0.001	<0.002	<0.002	1.21	<0.002	0.136	<0.0002	<0.005	<0.002	<0.002	1.38
MW-706	12/6/2016	<0.002	<0.002	0.281	<0.002	<0.001	<0.002	<0.002	1.25	<0.002	0.141	<0.0002	<0.005	<0.002	<0.002	4.74
MW-706	2/7/2017	<0.002	<0.002	0.290	<0.002	<0.001	<0.002	<0.002	1.12	<0.002	0.140	0.00025	<0.005	<0.002	<0.002	1.16
MW-706	4/4/2017	<0.002	<0.002	0.276	<0.002	<0.001	<0.002	<0.002	1.20	<0.002	0.138	<0.0002	<0.005	<0.002	<0.002	0.628
MW-706	6/13/2017	<0.002	<0.002	0.245	<0.002	<0.001	<0.002	<0.002	1.09	<0.002	0.146	<0.0002	<0.005	<0.002	<0.002	0.812
MW-706	8/9/2017	<0.002	<0.002	0.280	<0.002	<0.001	<0.002	<0.002	1.14	<0.002	0.152	<0.0002	<0.005	<0.002	<0.002	1.54
MW-706	10/4/2017	<0.002	<0.002	0.296	<0.002	<0.001	<0.002	<0.002	1.11	<0.002	0.146	<0.0002	<0.005	<0.002	<0.002	0.510
MW-706	4/3/2024	<0.00400	<0.00200	0.193	<0.00200	<0.00100	<0.0100	<0.00200	1.07	<0.00200	0.126	<0.000200	<0.00500	<0.00200	<0.00200	1.63
MW-706	5/17/2024	<0.00400	<0.00200	0.193	---	<0.00100	<0.0100	<0.00200	1.06	<0.00200	0.127	<0.000200	<0.00500	<0.00200	---	1.96 (J)
MW-706	11/25/2024	<0.00400	<0.00200	0.197	---	<0.00100	<0.0100	<0.00200	1.14	<0.00200	0.124	<0.000200	<0.00500	<0.00200	---	1.96 (J)
MW-707B	6/23/2016	<0.002	<0.002	0.0253	<0.002	<0.001	0.00225	0.00548	0.386	0.00333	0.445	<0.0002	<0.005	0.00337	<0.002	3.59
MW-707B	8/9/2016	<0.002	<0.002	0.0315	<0.002	<0.001	<0.002	0.00347	0.347	<0.002	0.623	<0.0002	<0.005	0.00422	<0.002	0.613
MW-707B	10/11/2016	0.00235	<0.002	0.0347	<0.002	<0.001	0.00684	0.0234	0.382	<0.002	0.715	<0.0002	<0.005	0.00326	<0.002	1.41
MW-707B	12/6/2016	<0.002	<0.002	0.0215	<0.002	<0.001	0.00254	0.00543	0.353	<0.002	0.737	<0.0002	<0.005	0.00233	<0.002	1.25
MW-707B	2/7/2017	<0.002	<0.002	0.0198	<0.002	<0.001	0.00252	0.00288	0.293	0.00267	0.780	0.000244	<0.005	<0.002	<0.002	0.440
MW-707B	4/4/2017	<0.002	<0.002	0.0133	<0.002	<0.001	<0.002	0.00506	0.323	<0.002	0.821	<0.0002	<0.005	<0.002	<0.002	0.701
MW-707B	6/13/2017	<0.002	<0.002	0.0143	<0.002	<0.001	<0.002	0.00542	0.613	<0.002	0.976	<0.0002	<0.005	0.00218	<0.002	1.00
MW-707B	8/8/2017	<0.002	<0.002	0.0134	<0.002	<0.001	<0.002	0.00492	0.402	<0.002	0.993	<0.0002	<0.005	0.00223	<0.002	0.310
MW-707B	10/3/2017	<0.002	<0.002	0.0244	<0.002	<0.001	<0.002	0.00467	0.391	<0.002	0.974	<0.0002	<0.005	<0.002	<0.002	0.970
MW-707B	4/3/2024	<0.00400	<0.00200	0.0205	<0.00200	<0.00100	<0.0100	0.0144	<0.150	<0.00200	1.29	<0.000200	0.00593	<0.00200	<0.00200	0.776
MW-707B	5/16/2024	<0.00400	<0.00200	0.0170	---	<0.00100	<0.0100	0.00849	0.368	<0.00200	1.27	0.000238	<0.00500	<0.00200	---	0.730 (J)
MW-707B	11/25/2024	<0.00400	<0.00200	0.0187	---	<0.00100	<0.0100	0.00809	0.486	<0.00200	1.25	<0.000200	<0.00500	<0.00200	---	1.12

Table 3
Multi-Unit Monitoring Network
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Well Number	Sample Date	Appendix IV Constituents														
		Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MCL		0.006	0.010	2.0	0.004	0.005	0.10	NA	4.0	0.015	NA	0.002	NA	0.05	0.002	5.00
40 CFR 257.95(h) GWPS		NA	NA	NA	NA	NA	NA	0.006	NA	NA	0.040	NA	0.100	NA	NA	NA
La Cygne Prediction Limit		0.012	0.00301	0.3312	0.002	0.001	0.00327	0.002	1.81	0.00209	0.278	0.000246	0.0191	0.002	0.002	2.299
La Cygne Multi-Unit GWPS		0.012	0.010	2.0	0.004	0.005	0.10	0.006	4.0	0.015	0.278	0.002	0.100	0.05	0.002	5.00
MW-708	6/7/2016	<0.002	<0.002	0.212	<0.002	<0.001	<0.002	<0.002	0.569	<0.002	0.0780	<0.0002	<0.005	<0.002	<0.002	1.83
MW-708	8/10/2016	<0.002	<0.002	0.240	<0.002	<0.001	<0.002	<0.002	0.619	<0.002	0.0673	<0.0002	<0.005	<0.002	<0.002	1.544
MW-708	10/12/2016	<0.002	<0.002	0.244	<0.002	<0.001	<0.002	<0.002	0.632	<0.002	0.0731	<0.0002	<0.005	<0.002	<0.002	1.52
MW-708	12/9/2016	<0.002	<0.002	0.257	<0.002	<0.001	<0.002	<0.002	0.548	<0.002	0.0687	<0.0002	<0.005	<0.002	<0.002	1.29
MW-708	2/9/2017	<0.002	<0.002	0.255	<0.002	<0.001	<0.002	<0.002	0.695	<0.002	0.0843	<0.0002	<0.005	<0.002	<0.002	0.502
MW-708	4/6/2017	<0.002	<0.002	0.244	<0.002	<0.001	<0.002	<0.002	0.612	<0.002	0.0762	<0.0002	<0.005	<0.002	<0.002	1.62
MW-708	6/14/2017	<0.002	<0.002	0.222	<0.002	<0.001	<0.002	<0.002	0.624	<0.002	0.0792	<0.0002	<0.005	<0.002	<0.002	0.176
MW-708	8/8/2017	<0.002	<0.002	0.229	<0.002	<0.001	<0.002	<0.002	0.705	<0.002	0.0822	<0.0002	<0.005	<0.002	<0.002	0.866
MW-708	10/4/2017	<0.002	<0.002	0.277	<0.002	<0.001	<0.002	<0.002	0.642	<0.002	0.0816	<0.0002	<0.005	<0.002	<0.002	0.149
MW-708	4/3/2024	<0.00400	<0.00200	0.234	<0.00200	<0.00100	<0.0100	<0.00200	0.0705	<0.00200	0.0776	<0.000200	<0.00500	<0.00200	<0.00200	0.592 (J)
MW-708	5/16/2024	<0.00400	<0.00200	0.234	---	<0.00100	<0.0100	<0.00200	0.686	<0.00200	0.0793	<0.000200	<0.00500	<0.00200	---	0.408 (J)
MW-708	11/25/2024	<0.00400	<0.00200	0.268	---	<0.00100	<0.0100	<0.00200	0.754	<0.00200	0.0748	<0.000200	<0.00500	<0.00200	---	0.814
MW-801	6/7/2016	<0.002	<0.002	0.638	<0.002	<0.001	<0.002	<0.002	1.08	<0.002	0.119	<0.0002	<0.005	<0.002	<0.002	1.15
MW-801	8/9/2016	<0.002	<0.002	0.592	<0.002	<0.001	<0.002	<0.002	1.11	<0.002	0.0957	<0.0002	<0.005	<0.002	<0.002	0.87
MW-801	10/11/2016	<0.002	<0.002	0.573	<0.002	<0.001	<0.002	<0.002	1.11	<0.002	0.102	<0.0002	<0.005	<0.002	<0.002	1.25
MW-801	12/6/2016	<0.002	<0.002	0.589	<0.002	<0.001	<0.002	<0.002	1.19	<0.002	0.0994	<0.0002	<0.005	<0.002	<0.002	1.88
MW-801	2/7/2017	<0.002	<0.002	0.604	<0.002	<0.001	<0.002	<0.002	1.14	<0.002	0.104	0.000247	<0.005	<0.002	<0.002	0.955
MW-801	4/6/2017	<0.002	<0.002	0.560	<0.002	<0.001	<0.002	<0.002	1.03	0.00296	0.101	<0.0002	<0.005	<0.002	<0.002	1.27
MW-801	6/14/2017	<0.002	<0.002	0.565	<0.002	<0.001	<0.002	<0.002	1.12	0.00212	0.114	<0.0002	<0.005	<0.002	<0.002	0.973
MW-801	8/9/2017	<0.002	<0.002	0.562	<0.002	<0.001	<0.002	<0.002	1.05	0.00326	0.114	<0.0002	<0.005	<0.002	<0.002	0.972
MW-801	10/4/2017	<0.002	<0.002	0.588	<0.002	<0.001	<0.002	<0.002	1.16	0.00708	0.0981	<0.0002	<0.005	<0.002	<0.002	1.15
MW-801	4/3/2024	<0.00400	<0.00200	0.500	<0.00200	<0.00100	<0.0100	<0.00200	1.08	<0.00200	0.0902	<0.000200	0.00702	<0.00200	<0.00200	0.594 (J)
MW-801	5/16/2024	<0.00400	<0.00200	0.495	---	<0.00100	<0.0100	<0.00200	1.08	<0.00200	0.0912	<0.000200	0.00508	<0.00200	---	0.698 (J)
MW-801	11/25/2024	<0.00400	<0.00200	0.507	---	<0.00100	<0.0100	<0.00200	1.13	<0.00200	0.0862	<0.000200	<0.00500	<0.00200	---	1.50

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Well Number	Sample Date	Appendix IV Constituents														
		Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MCL		0.006	0.010	2.0	0.004	0.005	0.10	NA	4.0	0.015	NA	0.002	NA	0.05	0.002	5.00
40 CFR 257.95(h) GWPS		NA	NA	NA	NA	NA	NA	0.006	NA	NA	0.040	NA	0.100	NA	NA	NA
La Cygne Prediction Limit		0.012	0.00301	0.3312	0.002	0.001	0.00327	0.002	1.81	0.00209	0.278	0.000246	0.0191	0.002	0.002	2.299
La Cygne Multi-Unit GWPS		0.012	0.010	2.0	0.004	0.005	0.10	0.006	4.0	0.015	0.278	0.002	0.100	0.05	0.002	5.00
MW-802	6/7/2016	<0.002	<0.002	0.967	<0.002	<0.001	<0.002	<0.002	0.920	<0.002	0.105	<0.0002	<0.005	<0.002	<0.002	2.19
MW-802	8/10/2016	<0.002	<0.002	0.878	<0.002	<0.001	<0.002	<0.002	0.972	<0.002	0.087	<0.0002	<0.005	<0.002	<0.002	2.228
MW-802	10/11/2016	<0.002	<0.002	0.868	<0.002	<0.001	<0.002	<0.002	0.986	<0.002	0.0908	<0.0002	<0.005	<0.002	<0.002	1.99
MW-802	12/6/2016	<0.002	<0.002	0.889	<0.002	<0.001	<0.002	<0.002	1.04	<0.002	0.0925	<0.0002	<0.005	<0.002	<0.002	1.16
MW-802	2/7/2017	<0.002	<0.002	0.908	<0.002	<0.001	<0.002	<0.002	1.01	<0.002	0.0931	0.000213	<0.005	<0.002	<0.002	0.559
MW-802	4/4/2017	<0.002	<0.002	0.861	<0.002	<0.001	<0.002	<0.002	0.947	<0.002	0.0919	<0.0002	<0.005	<0.002	<0.002	1.78
MW-802	6/13/2017	<0.002	<0.002	0.860	<0.002	<0.001	<0.002	<0.002	0.995	<0.002	0.0971	<0.0002	<0.005	<0.002	<0.002	2.26
MW-802	8/7/2017	<0.002	<0.002	0.855	<0.002	<0.001	<0.002	<0.002	1.09	<0.002	0.0999	<0.0002	<0.005	<0.002	<0.002	1.22
MW-802	10/4/2017	<0.002	<0.002	0.883	<0.002	<0.001	<0.002	<0.002	1.07	<0.002	0.0890	<0.0002	<0.005	<0.002	<0.002	1.90
MW-802	4/3/2024	<0.00400	0.00242	0.981	<0.00200	<0.00100	<0.0100	<0.00200	0.987	0.00331	0.0912	<0.000200	<0.00500	<0.00200	<0.00200	1.55
MW-802	5/15/2024	<0.00400	<0.00200	0.916	---	<0.00100	<0.0100	<0.00200	0.918	<0.00200	0.0869	<0.000200	<0.00500	<0.00200	---	0.978
MW-802	11/25/2024	<0.00400	<0.00200	0.949	---	<0.00100	<0.0100	<0.00200	1.08	0.0026	0.0859	<0.000200	<0.00500	<0.00200	---	1.70
MW-803	6/9/2016	0.00256	<0.002	0.244	<0.002	<0.001	<0.002	<0.002	0.636	<0.002	0.0649	<0.0002	<0.005	<0.002	<0.002	0.992
MW-803	8/12/2016	0.00250	<0.002	0.224	<0.002	<0.001	<0.002	<0.002	0.653	<0.002	0.0650	<0.0002	<0.005	<0.002	<0.002	1.656
MW-803	10/13/2016	<0.002	<0.002	0.220	<0.002	<0.001	<0.002	<0.002	0.645	<0.002	0.0686	<0.0002	<0.005	<0.002	<0.002	1.93
MW-803	12/6/2016	<0.002	<0.002	0.242	<0.002	<0.001	<0.002	<0.002	0.696	<0.002	0.0915	<0.0002	0.00593	<0.002	<0.002	1.55
MW-803	2/8/2017	<0.002	<0.002	0.239	<0.002	<0.001	<0.002	<0.002	0.607	<0.002	0.0779	0.000207	<0.005	<0.002	<0.002	1.62
MW-803	4/7/2017	<0.002	<0.002	0.217	<0.002	<0.001	<0.002	<0.002	0.586	<0.002	0.0690	<0.0002	<0.005	<0.002	<0.002	0.988
MW-803	6/13/2017	<0.002	<0.002	0.234	<0.002	<0.001	<0.002	<0.002	0.665	<0.002	0.0968	<0.0002	<0.005	<0.002	<0.002	1.10
MW-803	8/8/2017	<0.002	<0.002	0.234	<0.002	<0.001	<0.002	<0.002	0.693	<0.002	0.0898	<0.0002	0.00521	<0.002	<0.002	1.84
MW-803	10/4/2017	<0.002	<0.002	0.240	<0.002	<0.001	<0.002	<0.002	0.594	<0.002	0.0909	<0.0002	0.00549	<0.002	<0.002	3.38
MW-803	4/3/2024	<0.00400	<0.00200	0.196	<0.00200	<0.00100	<0.0100	<0.00200	0.702	<0.00200	0.0618	<0.000200	0.00593	<0.00200	<0.00200	1.41
MW-803	5/15/2024	<0.00400	<0.00200	0.189	---	<0.00100	<0.0100	<0.00200	0.722	<0.00200	0.0618	<0.000200	<0.00500	<0.00200	---	1.74
MW-803	11/25/2024	<0.00400	<0.00200	0.240	---	<0.00100	<0.0100	<0.00200	0.730	<0.00200	0.061	<0.000200	<0.00500	<0.00200	---	0.946

Table 3
Multi-Unit Monitoring Network
Appendix IV Background Data and Groundwater Protection Standards
Evergy LaCygne Generating Station

Well Number	Sample Date	Appendix IV Constituents														
		Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MCL		0.006	0.010	2.0	0.004	0.005	0.10	NA	4.0	0.015	NA	0.002	NA	0.05	0.002	5.00
40 CFR 257.95(h) GWPS		NA	NA	NA	NA	NA	NA	0.006	NA	NA	0.040	NA	0.100	NA	NA	NA
La Cygne Prediction Limit		0.012	0.00301	0.3312	0.002	0.001	0.00327	0.002	1.81	0.00209	0.278	0.000246	0.0191	0.002	0.002	2.299
La Cygne Multi-Unit GWPS		0.012	0.010	2.0	0.004	0.005	0.10	0.006	4.0	0.015	0.278	0.002	0.100	0.05	0.002	5.00
MW-804	6/8/2016	<0.002	<0.002	0.178	<0.002	<0.001	<0.002	<0.002	0.491	<0.002	0.0453	<0.0002	<0.005	<0.002	<0.002	0.853
MW-804	8/10/2016	<0.002	<0.002	0.147	<0.002	<0.001	<0.002	<0.002	0.443	<0.002	0.0382	<0.0002	<0.005	<0.002	<0.002	0.930
MW-804	10/11/2016	<0.002	<0.002	0.146	<0.002	<0.001	<0.002	<0.002	0.448	<0.002	0.0408	<0.0002	<0.005	<0.002	<0.002	0.344
MW-804	12/7/2016	<0.002	<0.002	0.151	<0.002	<0.001	<0.002	<0.002	0.441	<0.002	0.0421	<0.0002	<0.005	<0.002	<0.002	1.81
MW-804	2/7/2017	<0.002	<0.002	0.153	<0.002	<0.001	<0.002	<0.002	0.453	<0.002	0.0421	<0.0002	<0.005	<0.002	<0.002	0.317
MW-804	4/4/2017	<0.002	<0.002	0.147	<0.002	<0.001	<0.002	<0.002	0.429	<0.002	0.0414	<0.0002	<0.005	<0.002	<0.002	0.825
MW-804	6/13/2017	<0.002	<0.002	0.150	<0.002	<0.001	<0.002	<0.002	0.474	<0.002	0.0422	<0.0002	<0.005	<0.002	<0.002	1.61
MW-804	8/8/2017	<0.002	<0.002	0.143	<0.002	<0.001	<0.002	<0.002	0.476	<0.002	0.0444	<0.0002	<0.005	<0.002	<0.002	1.19
MW-804	10/5/2017	<0.002	<0.002	0.162	<0.002	<0.001	<0.002	<0.002	0.327	<0.002	0.0397	<0.0002	<0.005	<0.002	<0.002	1.18
MW-804	4/3/2024	<0.00400	<0.00200	0.147	<0.00200	<0.00100	<0.0100	<0.00200	0.517	<0.00200	0.0394	<0.000200	<0.00500	<0.00200	<0.00200	1.64
MW-804	5/15/2024	<0.00400	<0.00200	0.149	---	<0.00100	<0.0100	<0.00200	0.433	<0.00200	0.0410	<0.000200	<0.00500	<0.00200	---	3.81
MW-804	11/25/2024	<0.00400	<0.00200	0.191	---	<0.00100	<0.0100	<0.00200	0.564	<0.00200	0.0373	<0.000200	<0.00500	<0.00200	---	1.38
MW-805	6/7/2016	<0.002	<0.002	0.0387	<0.002	<0.001	<0.002	<0.002	0.122	<0.002	0.0530	<0.0002	<0.005	<0.002	<0.002	0.158
MW-805	8/10/2016	<0.002	<0.002	0.0471	<0.002	<0.001	0.00284	<0.002	0.126	<0.002	0.0217	<0.0002	<0.005	<0.002	<0.002	0.928
MW-805	10/11/2016	<0.002	0.00267	0.0401	<0.002	<0.001	<0.002	0.00790	0.136	<0.002	0.0234	<0.0002	<0.005	<0.002	<0.002	0.698
MW-805	12/6/2016	<0.002	<0.002	0.0356	<0.002	<0.001	<0.002	0.00431	0.181	<0.002	0.0277	<0.0002	<0.005	<0.002	<0.002	0.764
MW-805	2/6/2017	<0.002	<0.002	0.0340	<0.002	<0.001	<0.002	0.00218	0.145	<0.002	<0.015	<0.0002	<0.005	<0.002	<0.002	1.81
MW-805	4/4/2017	<0.002	<0.002	0.0334	<0.002	<0.001	<0.002	<0.002	0.142	<0.002	0.0178	<0.0002	<0.005	<0.002	<0.002	0.018
MW-805	6/13/2017	<0.002	<0.002	0.0337	<0.002	<0.001	<0.002	<0.002	0.214	<0.002	<0.015	<0.0002	<0.005	<0.002	<0.002	0.060
MW-805	8/8/2017	<0.002	<0.002	0.0327	<0.002	<0.001	<0.002	<0.002	0.143	<0.002	0.0272	<0.0002	<0.005	<0.002	<0.002	0.175
MW-805	10/5/2017	<0.002	<0.002	0.0344	<0.002	<0.001	<0.002	<0.002	<0.100	<0.002	0.0173	<0.0002	<0.005	<0.002	<0.002	0.123
MW-805	4/3/2024	<0.00400	<0.00200	0.0364	<0.00200	<0.00100	<0.0100	<0.00200	0.155	<0.00200	0.0260	<0.000200	<0.00500	<0.00200	<0.00200	1.01
MW-805	5/15/2024	<0.00400	<0.00200	0.0302	---	<0.00100	<0.0100	<0.00200	0.165	<0.00200	0.0253	0.000213	<0.00500	<0.00200	---	0.721 (J)
MW-805	11/25/2024	<0.00400	<0.00200	0.0316	---	<0.00100	<0.0100	<0.00200	0.205	<0.00200	0.0191	<0.000200	<0.00500	<0.00200	---	0.809

Table 3
Multi-Unit Monitoring Network
Appendix IV Background Data and Groundwater Protection Standards
Evergy LaCygne Generating Station

Well Number	Sample Date	Appendix IV Constituents														
		Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Thallium (mg/L)	Radium Combined (pCi/L)
MCL		0.006	0.010	2.0	0.004	0.005	0.10	NA	4.0	0.015	NA	0.002	NA	0.05	0.002	5.00
40 CFR 257.95(h) GWPS		NA	NA	NA	NA	NA	NA	0.006	NA	NA	0.040	NA	0.100	NA	NA	NA
La Cygne Prediction Limit		0.012	0.00301	0.3312	0.002	0.001	0.00327	0.002	1.81	0.00209	0.278	0.000246	0.0191	0.002	0.002	2.299
La Cygne Multi-Unit GWPS		0.012	0.010	2.0	0.004	0.005	0.10	0.006	4.0	0.015	0.278	0.002	0.100	0.05	0.002	5.00
TW-1	6/9/2016	<0.002	<0.002	0.0671	<0.002	<0.001	<0.002	<0.002	0.404	<0.002	0.136	<0.0002	<0.005	<0.002	<0.002	1.88
TW-1	8/9/2016	<0.002	<0.002	0.0686	<0.002	<0.001	<0.002	<0.002	0.431	<0.002	0.127	<0.0002	<0.005	<0.002	<0.002	0.526
TW-1	10/11/2016	<0.002	<0.002	0.0701	<0.002	<0.001	<0.002	<0.002	0.431	<0.002	0.137	<0.0002	<0.005	<0.002	<0.002	1.27
TW-1	12/6/2016	<0.002	<0.002	0.0823	<0.002	<0.001	<0.002	<0.002	0.459	<0.002	0.140	<0.0002	<0.005	<0.002	<0.002	1.60
TW-1	2/7/2017	<0.002	<0.002	0.0733	<0.002	<0.001	<0.002	<0.002	0.399	<0.002	0.145	0.000258	<0.005	<0.002	<0.002	0.328
TW-1	4/4/2017	<0.002	<0.002	0.0706	<0.002	<0.001	<0.002	<0.002	0.420	<0.002	0.147	<0.0002	<0.005	<0.002	<0.002	0.375
TW-1	6/13/2017	<0.002	<0.002	0.0711	<0.002	<0.001	<0.002	<0.002	0.384	<0.002	0.151	<0.0002	<0.005	<0.002	<0.002	2.64
TW-1	8/8/2017	<0.002	<0.002	0.0737	<0.002	<0.001	<0.002	<0.002	0.461	<0.002	0.155	<0.0002	<0.005	<0.002	<0.002	1.05
TW-1	10/3/2017	<0.002	<0.002	0.0829	<0.002	<0.001	<0.002	<0.002	0.403	<0.002	0.151	<0.0002	<0.005	<0.002	<0.002	1.17
TW-1	4/3/2024	<0.00400	<0.00200	0.0628	<0.00200	<0.00100	<0.0100	<0.00200	0.337	<0.00200	0.137	<0.000200	<0.00500	<0.00200	<0.00200	1.95
TW-1	5/16/2024	<0.00400	<0.00200	0.0586	---	<0.00100	<0.0100	<0.00200	0.326	<0.00200	0.129	<0.000200	<0.00500	<0.00200	---	2.79
TW-1	11/25/2024	<0.00400	<0.00200	0.0619	---	<0.00100	<0.0100	<0.00200	0.365	<0.00200	0.137	<0.000200	<0.00500	<0.00200	---	1.01

* Verification Sample obtained per certified statistical method and Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009.

**Extra Sample for Quality Control Validation or per Standard Sampling Procedure

mg/L - miligrams per liter

pCi/L - picocuries per liter

S.U. - Standard Units

--- Not Sampled

(B) - Based on the Stage II data quality review the sample result is potentially biased high due to analyte detection in the associated sample blank.

(M) - Method Detection Limit (MDL)

(J) - Reported concentration is below the laboratory reported detection limit (RDL), however is above the MDL and is estimated.

(E) - Eurofins Laboratories data

(J-) – Based on the Stage II data quality review the sample result is potentially biased low.

APPENDIX C

LABORATORY ANALYTICAL REPORTS

- April 2024 – Initial annual assessment monitoring event.
- May 2024 – Spring 2024 semiannual assessment monitoring event.
- November 2024 - Fall 2024 semiannual assessment monitoring sampling event.



ANALYTICAL REPORT

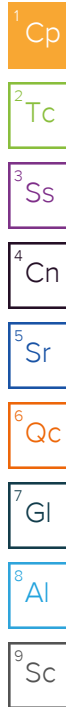
April 18, 2024

Revised Report

SCS Engineers - KS

Sample Delivery Group: L1722347
Samples Received: 04/04/2024
Project Number: 27217233.20
Description: Evergy - LaCygne Generating Station

Report To: Jason Franks
8575 West 110th Street
Suite 100
Overland Park, KS 66210



Entire Report Reviewed By:

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

SAMPLE SUMMARY

MW-6 L1722347-01 GW

Collected by
B. Coleman

Collected date/time
04/03/24 14:55

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/08/24 23:59	04/08/24 23:59	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:06	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262487	1	04/09/24 17:15	04/09/24 21:03	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261165	1	04/10/24 03:18	04/12/24 01:37	JPD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-7 L1722347-02 GW

Collected by
B. Coleman

Collected date/time
04/03/24 14:20

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 00:33	04/09/24 00:33	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:13	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262487	1	04/09/24 17:15	04/09/24 21:05	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261165	1	04/10/24 03:18	04/12/24 01:40	JPD	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

MW-13 L1722347-03 GW

Collected by
B. Coleman

Collected date/time
04/03/24 12:45

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 00:50	04/09/24 00:50	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:15	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262487	1	04/09/24 17:15	04/09/24 21:07	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261165	1	04/10/24 03:18	04/12/24 01:44	JPD	Mt. Juliet, TN

⁹ Sc

MW-14R L1722347-04 GW

Collected by
B. Coleman

Collected date/time
04/03/24 13:45

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 01:07	04/09/24 01:07	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:18	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262487	1	04/09/24 17:15	04/09/24 21:08	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261165	1	04/10/24 03:18	04/12/24 01:47	JPD	Mt. Juliet, TN

MW-15 L1722347-05 GW

Collected by
B. Coleman

Collected date/time
04/03/24 09:50

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 01:24	04/09/24 01:24	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:20	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 20:43	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261165	1	04/10/24 03:18	04/12/24 01:50	JPD	Mt. Juliet, TN

MW-601 L1722347-06 GW

Collected by
B. Coleman

Collected date/time
04/03/24 09:55

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 02:14	04/09/24 02:14	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:23	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 20:52	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261165	1	04/10/24 03:18	04/12/24 00:16	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

MW-602 L1722347-07 GW

Collected by
B. Coleman

Collected date/time
04/03/24 13:15

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 02:31	04/09/24 02:31	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:25	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 20:55	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261165	1	04/10/24 03:18	04/12/24 00:19	JPD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-701 L1722347-08 GW

Collected by
B. Coleman

Collected date/time
04/03/24 11:25

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 02:48	04/09/24 02:48	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 21:46	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 20:23	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261165	1	04/10/24 03:18	04/12/24 00:46	JPD	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

MW-702 L1722347-09 GW

Collected by
B. Coleman

Collected date/time
04/03/24 10:55

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 03:39	04/09/24 03:39	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:28	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 20:58	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261165	1	04/10/24 03:18	04/12/24 00:23	JPD	Mt. Juliet, TN

⁹ Sc

MW-703 L1722347-10 GW

Collected by
B. Coleman

Collected date/time
04/03/24 10:30

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 03:55	04/09/24 03:55	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:31	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:01	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261165	1	04/10/24 03:18	04/12/24 00:26	JPD	Mt. Juliet, TN

MW-704 L1722347-11 GW

Collected by
B. Coleman

Collected date/time
04/03/24 12:00

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 04:12	04/09/24 04:12	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:33	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:04	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261165	1	04/10/24 03:18	04/12/24 00:29	JPD	Mt. Juliet, TN

MW-705 L1722347-12 GW

Collected by
B. Coleman

Collected date/time
04/03/24 13:30

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 04:29	04/09/24 04:29	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:36	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:07	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 12:32	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

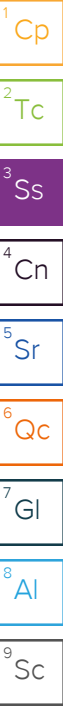
MW-707B L1722347-13 GW

Collected by
B. Coleman

Collected date/time
04/03/24 11:05

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 04:46	04/09/24 04:46	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:43	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:10	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 12:35	SJM	Mt. Juliet, TN



MW-708 L1722347-14 GW

Collected by
B. Coleman

Collected date/time
04/03/24 15:00

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 05:37	04/09/24 05:37	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:45	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:13	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 12:38	SJM	Mt. Juliet, TN

MW-801 L1722347-15 GW

Collected by
B. Coleman

Collected date/time
04/03/24 14:15

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 05:54	04/09/24 05:54	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:48	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:16	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 12:42	SJM	Mt. Juliet, TN

MW-802 L1722347-16 GW

Collected by
B. Coleman

Collected date/time
04/03/24 13:30

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 06:11	04/09/24 06:11	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:51	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:19	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 12:45	SJM	Mt. Juliet, TN

MW-803 L1722347-17 GW

Collected by
B. Coleman

Collected date/time
04/03/24 12:10

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 06:27	04/09/24 06:27	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 21:56	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 20:34	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 11:23	SJM	Mt. Juliet, TN

MW-804 L1722347-18 GW

Collected by
B. Coleman

Collected date/time
04/03/24 11:25

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262425	1	04/09/24 07:35	04/09/24 07:35	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:53	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:28	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 12:48	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

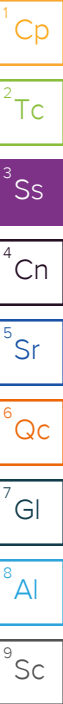
MW-805 L1722347-19 GW

Collected by
B. Coleman

Collected date/time
04/03/24 10:35

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2263144	1	04/09/24 14:53	04/09/24 14:53	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:56	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:31	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 13:06	SJM	Mt. Juliet, TN



TW-1 L1722347-20 GW

Collected by
B. Coleman

Collected date/time
04/03/24 11:55

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2263144	1	04/09/24 15:09	04/09/24 15:09	GEB	Mt. Juliet, TN
Mercury by Method 7470A	WG2262311	1	04/07/24 22:07	04/08/24 22:58	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:34	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 13:09	SJM	Mt. Juliet, TN

DUPLICATE 1 L1722347-21 GW

Collected by
B. Coleman

Collected date/time
04/03/24 00:00

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262434	1	04/11/24 12:18	04/11/24 12:18	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261019	1	04/05/24 18:34	04/06/24 19:45	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:37	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 13:12	SJM	Mt. Juliet, TN

DUPLICATE 2 L1722347-22 GW

Collected by
B. Coleman

Collected date/time
04/03/24 00:00

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262434	1	04/11/24 13:35	04/11/24 13:35	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261019	1	04/05/24 18:34	04/06/24 19:52	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:40	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 13:16	SJM	Mt. Juliet, TN

MW-706 L1722347-23 GW

Collected by
B. Coleman

Collected date/time
04/03/24 12:45

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2262434	1	04/11/24 13:47	04/11/24 13:47	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2261019	1	04/05/24 18:34	04/06/24 19:54	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2262488	1	04/09/24 17:55	04/09/24 21:43	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2261167	1	04/06/24 12:03	04/10/24 13:19	SJM	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.



Jeff Carr
Project Manager

Report Revision History

Level II Report - Version 1: 04/18/24 08:25

Project Narrative

Revised by reporting to RDLs.



Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	637		150	1	04/08/2024 23:59	WG2262425

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:06	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	146		5.00	1	04/09/2024 21:03	WG2262487
Chromium	ND		10.0	1	04/09/2024 21:03	WG2262487
Lithium	44.4		15.0	1	04/09/2024 21:03	WG2262487
Molybdenum	ND		5.00	1	04/09/2024 21:03	WG2262487

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/12/2024 01:37	WG2261165
Arsenic	2.51		2.00	1	04/12/2024 01:37	WG2261165
Beryllium	ND		2.00	1	04/12/2024 01:37	WG2261165
Cadmium	ND		1.00	1	04/12/2024 01:37	WG2261165
Cobalt	ND		2.00	1	04/12/2024 01:37	WG2261165
Lead	ND		2.00	1	04/12/2024 01:37	WG2261165
Selenium	ND		2.00	1	04/12/2024 01:37	WG2261165
Thallium	ND		2.00	1	04/12/2024 01:37	WG2261165

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	1250		150	1	04/09/2024 00:33	WG2262425

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:13	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	467		5.00	1	04/09/2024 21:05	WG2262487
Chromium	ND		10.0	1	04/09/2024 21:05	WG2262487
Lithium	70.8		15.0	1	04/09/2024 21:05	WG2262487
Molybdenum	ND		5.00	1	04/09/2024 21:05	WG2262487

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/12/2024 01:40	WG2261165
Arsenic	ND		2.00	1	04/12/2024 01:40	WG2261165
Beryllium	ND		2.00	1	04/12/2024 01:40	WG2261165
Cadmium	ND		1.00	1	04/12/2024 01:40	WG2261165
Cobalt	ND		2.00	1	04/12/2024 01:40	WG2261165
Lead	ND		2.00	1	04/12/2024 01:40	WG2261165
Selenium	ND		2.00	1	04/12/2024 01:40	WG2261165
Thallium	ND		2.00	1	04/12/2024 01:40	WG2261165

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	154		150	1	04/09/2024 00:50	WG2262425

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:15	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	17.3		5.00	1	04/09/2024 21:07	WG2262487
Chromium	ND		10.0	1	04/09/2024 21:07	WG2262487
Lithium	53.4		15.0	1	04/09/2024 21:07	WG2262487
Molybdenum	ND		5.00	1	04/09/2024 21:07	WG2262487

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/12/2024 01:44	WG2261165
Arsenic	ND		2.00	1	04/12/2024 01:44	WG2261165
Beryllium	ND		2.00	1	04/12/2024 01:44	WG2261165
Cadmium	ND		1.00	1	04/12/2024 01:44	WG2261165
Cobalt	ND		2.00	1	04/12/2024 01:44	WG2261165
Lead	ND		2.00	1	04/12/2024 01:44	WG2261165
Selenium	ND		2.00	1	04/12/2024 01:44	WG2261165
Thallium	ND		2.00	1	04/12/2024 01:44	WG2261165

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	380		150	1	04/09/2024 01:07	WG2262425

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:18	WG2262311

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	40.1		5.00	1	04/09/2024 21:08	WG2262487
Chromium	ND		10.0	1	04/09/2024 21:08	WG2262487
Lithium	45.8		15.0	1	04/09/2024 21:08	WG2262487
Molybdenum	ND		5.00	1	04/09/2024 21:08	WG2262487

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/12/2024 01:47	WG2261165
Arsenic	ND		2.00	1	04/12/2024 01:47	WG2261165
Beryllium	ND		2.00	1	04/12/2024 01:47	WG2261165
Cadmium	ND		1.00	1	04/12/2024 01:47	WG2261165
Cobalt	ND		2.00	1	04/12/2024 01:47	WG2261165
Lead	ND		2.00	1	04/12/2024 01:47	WG2261165
Selenium	ND		2.00	1	04/12/2024 01:47	WG2261165
Thallium	ND		2.00	1	04/12/2024 01:47	WG2261165

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	306		150	1	04/09/2024 01:24	WG2262425

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:20	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	43.7		5.00	1	04/09/2024 20:43	WG2262488
Chromium	ND		10.0	1	04/09/2024 20:43	WG2262488
Lithium	26.1		15.0	1	04/09/2024 20:43	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 20:43	WG2262488

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/12/2024 01:50	WG2261165
Arsenic	ND		2.00	1	04/12/2024 01:50	WG2261165
Beryllium	ND		2.00	1	04/12/2024 01:50	WG2261165
Cadmium	ND		1.00	1	04/12/2024 01:50	WG2261165
Cobalt	ND		2.00	1	04/12/2024 01:50	WG2261165
Lead	ND		2.00	1	04/12/2024 01:50	WG2261165
Selenium	ND		2.00	1	04/12/2024 01:50	WG2261165
Thallium	ND		2.00	1	04/12/2024 01:50	WG2261165

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	ND		150	1	04/09/2024 02:14	WG2262425

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:23	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	132		5.00	1	04/09/2024 20:52	WG2262488
Chromium	ND		10.0	1	04/09/2024 20:52	WG2262488
Lithium	70.1		15.0	1	04/09/2024 20:52	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 20:52	WG2262488

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/12/2024 00:16	WG2261165
Arsenic	ND		2.00	1	04/12/2024 00:16	WG2261165
Beryllium	ND		2.00	1	04/12/2024 00:16	WG2261165
Cadmium	ND		1.00	1	04/12/2024 00:16	WG2261165
Cobalt	ND		2.00	1	04/12/2024 00:16	WG2261165
Lead	ND		2.00	1	04/12/2024 00:16	WG2261165
Selenium	ND		2.00	1	04/12/2024 00:16	WG2261165
Thallium	ND		2.00	1	04/12/2024 00:16	WG2261165

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	1180		150	1	04/09/2024 02:31	WG2262425

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:25	WG2262311

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	101		5.00	1	04/09/2024 20:55	WG2262488
Chromium	ND		10.0	1	04/09/2024 20:55	WG2262488
Lithium	56.1		15.0	1	04/09/2024 20:55	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 20:55	WG2262488

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/12/2024 00:19	WG2261165
Arsenic	ND		2.00	1	04/12/2024 00:19	WG2261165
Beryllium	ND		2.00	1	04/12/2024 00:19	WG2261165
Cadmium	ND		1.00	1	04/12/2024 00:19	WG2261165
Cobalt	ND		2.00	1	04/12/2024 00:19	WG2261165
Lead	ND		2.00	1	04/12/2024 00:19	WG2261165
Selenium	ND		2.00	1	04/12/2024 00:19	WG2261165
Thallium	ND		2.00	1	04/12/2024 00:19	WG2261165

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	666		150	1	04/09/2024 02:48	WG2262425

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 21:46	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	209	Q1	5.00	1	04/09/2024 20:23	WG2262488
Chromium	ND		10.0	1	04/09/2024 20:23	WG2262488
Lithium	42.2		15.0	1	04/09/2024 20:23	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 20:23	WG2262488

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/12/2024 00:46	WG2261165
Arsenic	ND		2.00	1	04/12/2024 00:46	WG2261165
Beryllium	ND		2.00	1	04/12/2024 00:46	WG2261165
Cadmium	ND		1.00	1	04/12/2024 00:46	WG2261165
Cobalt	ND		2.00	1	04/12/2024 00:46	WG2261165
Lead	ND		2.00	1	04/12/2024 00:46	WG2261165
Selenium	ND		2.00	1	04/12/2024 00:46	WG2261165
Thallium	ND		2.00	1	04/12/2024 00:46	WG2261165

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	1420		150	1	04/09/2024 03:39	WG2262425

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:28	WG2262311

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	590		5.00	1	04/09/2024 20:58	WG2262488
Chromium	ND		10.0	1	04/09/2024 20:58	WG2262488
Lithium	61.8		15.0	1	04/09/2024 20:58	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 20:58	WG2262488

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/12/2024 00:23	WG2261165
Arsenic	ND		2.00	1	04/12/2024 00:23	WG2261165
Beryllium	ND		2.00	1	04/12/2024 00:23	WG2261165
Cadmium	ND		1.00	1	04/12/2024 00:23	WG2261165
Cobalt	ND		2.00	1	04/12/2024 00:23	WG2261165
Lead	ND		2.00	1	04/12/2024 00:23	WG2261165
Selenium	ND		2.00	1	04/12/2024 00:23	WG2261165
Thallium	ND		2.00	1	04/12/2024 00:23	WG2261165

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	1320		150	1	04/09/2024 03:55	WG2262425

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:31	WG2262311

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	262		5.00	1	04/09/2024 21:01	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:01	WG2262488
Lithium	60.6		15.0	1	04/09/2024 21:01	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 21:01	WG2262488

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/12/2024 00:26	WG2261165
Arsenic	ND		2.00	1	04/12/2024 00:26	WG2261165
Beryllium	ND		2.00	1	04/12/2024 00:26	WG2261165
Cadmium	ND		1.00	1	04/12/2024 00:26	WG2261165
Cobalt	ND		2.00	1	04/12/2024 00:26	WG2261165
Lead	ND		2.00	1	04/12/2024 00:26	WG2261165
Selenium	ND		2.00	1	04/12/2024 00:26	WG2261165
Thallium	ND		2.00	1	04/12/2024 00:26	WG2261165

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	897		150	1	04/09/2024 04:12	WG2262425

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:33	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	62.6		5.00	1	04/09/2024 21:04	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:04	WG2262488
Lithium	101		15.0	1	04/09/2024 21:04	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 21:04	WG2262488

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/12/2024 00:29	WG2261165
Arsenic	ND		2.00	1	04/12/2024 00:29	WG2261165
Beryllium	ND		2.00	1	04/12/2024 00:29	WG2261165
Cadmium	ND		1.00	1	04/12/2024 00:29	WG2261165
Cobalt	ND		2.00	1	04/12/2024 00:29	WG2261165
Lead	ND		2.00	1	04/12/2024 00:29	WG2261165
Selenium	ND		2.00	1	04/12/2024 00:29	WG2261165
Thallium	ND		2.00	1	04/12/2024 00:29	WG2261165

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	1010		150	1	04/09/2024 04:29	WG2262425

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:36	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	91.8		5.00	1	04/09/2024 21:07	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:07	WG2262488
Lithium	118		15.0	1	04/09/2024 21:07	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 21:07	WG2262488

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 12:32	WG2261167
Arsenic	ND		2.00	1	04/10/2024 12:32	WG2261167
Beryllium	ND		2.00	1	04/10/2024 12:32	WG2261167
Cadmium	ND		1.00	1	04/10/2024 12:32	WG2261167
Cobalt	ND		2.00	1	04/10/2024 12:32	WG2261167
Lead	ND		2.00	1	04/10/2024 12:32	WG2261167
Selenium	ND		2.00	1	04/10/2024 12:32	WG2261167
Thallium	ND		2.00	1	04/10/2024 12:32	WG2261167

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	ND		150	1	04/09/2024 04:46	WG2262425

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:43	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	20.5		5.00	1	04/09/2024 21:10	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:10	WG2262488
Lithium	1290		15.0	1	04/09/2024 21:10	WG2262488
Molybdenum	5.93		5.00	1	04/09/2024 21:10	WG2262488

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 12:35	WG2261167
Arsenic	ND		2.00	1	04/10/2024 12:35	WG2261167
Beryllium	ND		2.00	1	04/10/2024 12:35	WG2261167
Cadmium	ND		1.00	1	04/10/2024 12:35	WG2261167
Cobalt	14.4		2.00	1	04/10/2024 12:35	WG2261167
Lead	ND		2.00	1	04/10/2024 12:35	WG2261167
Selenium	ND		2.00	1	04/10/2024 12:35	WG2261167
Thallium	ND		2.00	1	04/10/2024 12:35	WG2261167

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	705		150	1	04/09/2024 05:37	WG2262425

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:45	WG2262311

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	234		5.00	1	04/09/2024 21:13	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:13	WG2262488
Lithium	77.6		15.0	1	04/09/2024 21:13	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 21:13	WG2262488

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 12:38	WG2261167
Arsenic	ND		2.00	1	04/10/2024 12:38	WG2261167
Beryllium	ND		2.00	1	04/10/2024 12:38	WG2261167
Cadmium	ND		1.00	1	04/10/2024 12:38	WG2261167
Cobalt	ND		2.00	1	04/10/2024 12:38	WG2261167
Lead	ND		2.00	1	04/10/2024 12:38	WG2261167
Selenium	ND		2.00	1	04/10/2024 12:38	WG2261167
Thallium	ND		2.00	1	04/10/2024 12:38	WG2261167

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	1080		150	1	04/09/2024 05:54	WG2262425

¹ Cp

² Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:48	WG2262311

³ Ss

⁴ Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	500		5.00	1	04/09/2024 21:16	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:16	WG2262488
Lithium	90.2		15.0	1	04/09/2024 21:16	WG2262488
Molybdenum	7.02		5.00	1	04/09/2024 21:16	WG2262488

⁵ Sr

⁶ Qc

⁷ Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 12:42	WG2261167
Arsenic	ND		2.00	1	04/10/2024 12:42	WG2261167
Beryllium	ND		2.00	1	04/10/2024 12:42	WG2261167
Cadmium	ND		1.00	1	04/10/2024 12:42	WG2261167
Cobalt	ND		2.00	1	04/10/2024 12:42	WG2261167
Lead	ND		2.00	1	04/10/2024 12:42	WG2261167
Selenium	ND		2.00	1	04/10/2024 12:42	WG2261167
Thallium	ND		2.00	1	04/10/2024 12:42	WG2261167

⁸ Al

⁹ Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	987		150	1	04/09/2024 06:11	WG2262425

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:51	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	981		5.00	1	04/09/2024 21:19	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:19	WG2262488
Lithium	91.2		15.0	1	04/09/2024 21:19	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 21:19	WG2262488

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 12:45	WG2261167
Arsenic	2.42		2.00	1	04/10/2024 12:45	WG2261167
Beryllium	ND		2.00	1	04/10/2024 12:45	WG2261167
Cadmium	ND		1.00	1	04/10/2024 12:45	WG2261167
Cobalt	ND		2.00	1	04/10/2024 12:45	WG2261167
Lead	3.31		2.00	1	04/10/2024 12:45	WG2261167
Selenium	ND		2.00	1	04/10/2024 12:45	WG2261167
Thallium	ND		2.00	1	04/10/2024 12:45	WG2261167

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	702		150	1	04/09/2024 06:27	WG2262425

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 21:56	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	196		5.00	1	04/09/2024 20:34	WG2262488
Chromium	ND		10.0	1	04/09/2024 20:34	WG2262488
Lithium	61.8		15.0	1	04/09/2024 20:34	WG2262488
Molybdenum	5.93		5.00	1	04/09/2024 20:34	WG2262488

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 11:23	WG2261167
Arsenic	ND		2.00	1	04/10/2024 11:23	WG2261167
Beryllium	ND		2.00	1	04/10/2024 11:23	WG2261167
Cadmium	ND		1.00	1	04/10/2024 11:23	WG2261167
Cobalt	ND		2.00	1	04/10/2024 11:23	WG2261167
Lead	ND		2.00	1	04/10/2024 11:23	WG2261167
Selenium	ND		2.00	1	04/10/2024 11:23	WG2261167
Thallium	ND		2.00	1	04/10/2024 11:23	WG2261167

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	517		150	1	04/09/2024 07:35	WG2262425

¹ Cp

² Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:53	WG2262311

³ Ss

⁴ Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	147		5.00	1	04/09/2024 21:28	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:28	WG2262488
Lithium	39.4		15.0	1	04/09/2024 21:28	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 21:28	WG2262488

⁵ Sr

⁶ Qc

⁷ Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 12:48	WG2261167
Arsenic	ND		2.00	1	04/10/2024 12:48	WG2261167
Beryllium	ND		2.00	1	04/10/2024 12:48	WG2261167
Cadmium	ND		1.00	1	04/10/2024 12:48	WG2261167
Cobalt	ND		2.00	1	04/10/2024 12:48	WG2261167
Lead	ND		2.00	1	04/10/2024 12:48	WG2261167
Selenium	ND		2.00	1	04/10/2024 12:48	WG2261167
Thallium	ND		2.00	1	04/10/2024 12:48	WG2261167

⁸ Al

⁹ Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	155		150	1	04/09/2024 14:53	WG2263144

¹Cp

²Tc

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:56	WG2262311

³Ss

⁴Cn

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	36.4		5.00	1	04/09/2024 21:31	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:31	WG2262488
Lithium	26.0		15.0	1	04/09/2024 21:31	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 21:31	WG2262488

⁵Sr

⁶Qc

⁷Gl

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 13:06	WG2261167
Arsenic	ND		2.00	1	04/10/2024 13:06	WG2261167
Beryllium	ND		2.00	1	04/10/2024 13:06	WG2261167
Cadmium	ND		1.00	1	04/10/2024 13:06	WG2261167
Cobalt	ND		2.00	1	04/10/2024 13:06	WG2261167
Lead	ND		2.00	1	04/10/2024 13:06	WG2261167
Selenium	ND		2.00	1	04/10/2024 13:06	WG2261167
Thallium	ND		2.00	1	04/10/2024 13:06	WG2261167

⁸Al

⁹Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	337		150	1	04/09/2024 15:09	WG2263144

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/08/2024 22:58	WG2262311

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	62.8		5.00	1	04/09/2024 21:34	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:34	WG2262488
Lithium	137		15.0	1	04/09/2024 21:34	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 21:34	WG2262488

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 13:09	WG2261167
Arsenic	ND		2.00	1	04/10/2024 13:09	WG2261167
Beryllium	ND		2.00	1	04/10/2024 13:09	WG2261167
Cadmium	ND		1.00	1	04/10/2024 13:09	WG2261167
Cobalt	ND		2.00	1	04/10/2024 13:09	WG2261167
Lead	ND		2.00	1	04/10/2024 13:09	WG2261167
Selenium	ND		2.00	1	04/10/2024 13:09	WG2261167
Thallium	ND		2.00	1	04/10/2024 13:09	WG2261167

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	576		150	1	04/11/2024 12:18	WG2262434

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/06/2024 19:45	WG2261019

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	209		5.00	1	04/09/2024 21:37	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:37	WG2262488
Lithium	43.2		15.0	1	04/09/2024 21:37	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 21:37	WG2262488

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 13:12	WG2261167
Arsenic	ND		2.00	1	04/10/2024 13:12	WG2261167
Beryllium	ND		2.00	1	04/10/2024 13:12	WG2261167
Cadmium	ND		1.00	1	04/10/2024 13:12	WG2261167
Cobalt	ND		2.00	1	04/10/2024 13:12	WG2261167
Lead	ND		2.00	1	04/10/2024 13:12	WG2261167
Selenium	ND		2.00	1	04/10/2024 13:12	WG2261167
Thallium	ND		2.00	1	04/10/2024 13:12	WG2261167

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	570		150	1	04/11/2024 13:35	WG2262434

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/06/2024 19:52	WG2261019

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	195		5.00	1	04/09/2024 21:40	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:40	WG2262488
Lithium	64.3		15.0	1	04/09/2024 21:40	WG2262488
Molybdenum	5.05		5.00	1	04/09/2024 21:40	WG2262488

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 13:16	WG2261167
Arsenic	ND		2.00	1	04/10/2024 13:16	WG2261167
Beryllium	ND		2.00	1	04/10/2024 13:16	WG2261167
Cadmium	ND		1.00	1	04/10/2024 13:16	WG2261167
Cobalt	ND		2.00	1	04/10/2024 13:16	WG2261167
Lead	ND		2.00	1	04/10/2024 13:16	WG2261167
Selenium	ND		2.00	1	04/10/2024 13:16	WG2261167
Thallium	ND		2.00	1	04/10/2024 13:16	WG2261167

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Fluoride	1070		150	1	04/11/2024 13:47	WG2262434

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	04/06/2024 19:54	WG2261019

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	193		5.00	1	04/09/2024 21:43	WG2262488
Chromium	ND		10.0	1	04/09/2024 21:43	WG2262488
Lithium	126		15.0	1	04/09/2024 21:43	WG2262488
Molybdenum	ND		5.00	1	04/09/2024 21:43	WG2262488

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	04/10/2024 13:19	WG2261167
Arsenic	ND		2.00	1	04/10/2024 13:19	WG2261167
Beryllium	ND		2.00	1	04/10/2024 13:19	WG2261167
Cadmium	ND		1.00	1	04/10/2024 13:19	WG2261167
Cobalt	ND		2.00	1	04/10/2024 13:19	WG2261167
Lead	ND		2.00	1	04/10/2024 13:19	WG2261167
Selenium	ND		2.00	1	04/10/2024 13:19	WG2261167
Thallium	ND		2.00	1	04/10/2024 13:19	WG2261167

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4055384-1 04/08/24 22:52

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Fluoride	U		64.0	150

L1722347-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1722347-01 04/08/24 23:59 • (DUP) R4055384-3 04/09/24 00:16

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Fluoride	637	636	1	0.126		15

L1722347-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1722347-17 04/09/24 06:27 • (DUP) R4055384-6 04/09/24 06:44

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Fluoride	702	697	1	0.672		15

Laboratory Control Sample (LCS)

(LCS) R4055384-2 04/08/24 23:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Fluoride	8000	8480	106	80.0-120	

L1722347-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722347-08 04/09/24 02:48 • (MS) R4055384-4 04/09/24 03:05 • (MSD) R4055384-5 04/09/24 03:22

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Fluoride	8000	666	8810	8850	102	102	1	80.0-120			0.406	15

L1722347-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722347-17 04/09/24 06:27 • (MS) R4055384-7 04/09/24 07:01 • (MSD) R4055384-8 04/09/24 07:18

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Fluoride	8000	702	8780	8830	101	102	1	80.0-120			0.611	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4058922-1 04/11/24 09:06

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Fluoride	U		64.0	150

L1722347-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1722347-21 04/11/24 12:18 • (DUP) R4058922-3 04/11/24 12:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Fluoride	576	619	1	7.10		15

Laboratory Control Sample (LCS)

(LCS) R4058922-2 04/11/24 09:19

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Fluoride	8000	8020	100	80.0-120	

L1722347-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722347-21 04/11/24 12:18 • (MS) R4058922-4 04/11/24 13:09 • (MSD) R4058922-5 04/11/24 13:22

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Fluoride	8000	576	8770	8810	102	103	1	80.0-120			0.488	15

Sample Narrative:

- MS: S04 spike failed due to sample matrix
- MSD: S04 spike failed due to sample matrix

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4056712-1 04/09/24 08:43

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Fluoride	U		64.0	150

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1723428-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1723428-03 04/09/24 17:54 • (DUP) R4056712-3 04/09/24 18:10

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Fluoride	ND	ND	1	3.45		15

L1723433-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1723433-06 04/10/24 01:14 • (DUP) R4056712-7 04/10/24 01:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Fluoride	ND	ND	50	200	P1	15

Laboratory Control Sample (LCS)

(LCS) R4056712-2 04/09/24 08:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Fluoride	8000	8120	102	80.0-120	

L1723428-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1723428-03 04/09/24 17:54 • (MS) R4056712-5 04/09/24 18:58 • (MSD) R4056712-6 04/09/24 19:14

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Fluoride	8000	ND	8100	8060	99.6	99.1	1	80.0-120			0.452	15

L1723433-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1723433-06 04/10/24 01:14 • (MS) R4056712-10 04/10/24 03:22 • (MSD) R4056712-11 04/10/24 03:38

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Fluoride	8000	ND	9120	13900	114	174	50	80.0-120		J3 J5	41.4	15

L1723433-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1723433-06 04/10/24 01:14 • (MS) R4056712-10 04/10/24 03:22 • (MSD) R4056712-11 04/10/24 03:38

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
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Sample Narrative:

- MS: Spike failure due to matrix interference
- MSD: Spike failure due to matrix interference

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4054679-1 04/06/24 18:56

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Mercury	U		0.100	0.200

Laboratory Control Sample (LCS)

(LCS) R4054679-2 04/06/24 18:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Mercury	3.00	2.97	98.9	80.0-120	

L1722394-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722394-01 04/06/24 19:01 • (MS) R4054679-4 04/06/24 19:05 • (MSD) R4054679-5 04/06/24 19:08

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	ND	3.14	3.08	105	103	1	75.0-125			2.00	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4055278-1 04/08/24 21:36

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Mercury	U		0.100	0.200

Laboratory Control Sample (LCS)

(LCS) R4055278-2 04/08/24 21:43

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Mercury	3.00	2.87	95.8	80.0-120	

L1722347-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722347-08 04/08/24 21:46 • (MS) R4055278-4 04/08/24 21:50 • (MSD) R4055278-5 04/08/24 21:53

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	ND	2.85	2.79	95.1	92.9	1	75.0-125			2.40	20

L1722347-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722347-17 04/08/24 21:56 • (MS) R4055278-7 04/08/24 22:00 • (MSD) R4055278-8 04/08/24 22:03

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	ND	2.80	2.90	93.4	96.5	1	75.0-125			3.29	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4055801-1 04/09/24 20:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Barium	U		0.736	5.00
Chromium	U		1.40	10.0
Lithium	U		4.85	15.0
Molybdenum	U		1.16	5.00

Laboratory Control Sample (LCS)

(LCS) R4055801-2 04/09/24 20:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	1030	103	80.0-120	
Chromium	1000	1030	103	80.0-120	
Lithium	1000	1010	101	80.0-120	
Molybdenum	1000	1020	102	80.0-120	

L1722292-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722292-02 04/09/24 20:24 • (MS) R4055801-4 04/09/24 20:28 • (MSD) R4055801-5 04/09/24 20:29

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	5.27	1010	1010	101	101	1	75.0-125			0.0293	20
Chromium	1000	ND	1000	1000	100	100	1	75.0-125			0.218	20
Lithium	1000	ND	976	1010	97.0	100	1	75.0-125			3.05	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4055759-1 04/09/24 20:17

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Barium	U		0.736	5.00
Chromium	U		1.40	10.0
Lithium	U		4.85	15.0
Molybdenum	U		1.16	5.00

Laboratory Control Sample (LCS)

(LCS) R4055759-2 04/09/24 20:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	1020	102	80.0-120	
Chromium	1000	1000	100	80.0-120	
Lithium	1000	993	99.3	80.0-120	
Molybdenum	1000	1020	102	80.0-120	

L1722347-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722347-08 04/09/24 20:23 • (MS) R4055759-4 04/09/24 20:29 • (MSD) R4055759-5 04/09/24 20:31

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	209	1220	1220	101	101	1	75.0-125			0.526	20
Chromium	1000	ND	1020	1000	102	100	1	75.0-125			1.43	20
Lithium	1000	42.2	1050	1040	101	99.8	1	75.0-125			1.03	20
Molybdenum	1000	ND	1030	1020	103	102	1	75.0-125			0.604	20

L1722347-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722347-17 04/09/24 20:34 • (MS) R4055759-6 04/09/24 20:37 • (MSD) R4055759-7 04/09/24 20:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	196	1210	1200	101	100	1	75.0-125			1.26	20
Chromium	1000	ND	1010	991	101	99.1	1	75.0-125			1.78	20
Lithium	1000	61.8	1070	1060	101	99.9	1	75.0-125			0.701	20
Molybdenum	1000	5.93	1030	1020	103	101	1	75.0-125			1.41	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4056918-1 04/12/24 00:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	U		1.03	4.00
Arsenic	U		0.180	2.00
Beryllium	U		0.190	2.00
Cadmium	U		0.150	1.00
Cobalt	U		0.0596	2.00
Lead	U		0.849	2.00
Selenium	U		0.300	2.00
Thallium	U		0.121	2.00

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Laboratory Control Sample (LCS)

(LCS) R4056918-2 04/12/24 00:43

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	46.5	93.0	80.0-120	
Arsenic	50.0	48.3	96.6	80.0-120	
Beryllium	50.0	47.6	95.3	80.0-120	
Cadmium	50.0	49.5	99.0	80.0-120	
Cobalt	50.0	49.1	98.2	80.0-120	
Lead	50.0	49.5	99.0	80.0-120	
Selenium	50.0	49.3	98.5	80.0-120	
Thallium	50.0	50.2	100	80.0-120	

L1722347-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722347-08 04/12/24 00:46 • (MS) R4056918-4 04/12/24 00:53 • (MSD) R4056918-5 04/12/24 00:56

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	ND	48.5	48.6	96.9	97.2	1	75.0-125			0.252	20
Arsenic	50.0	ND	48.9	48.5	96.2	95.5	1	75.0-125			0.742	20
Beryllium	50.0	ND	46.8	46.9	93.5	93.7	1	75.0-125			0.229	20
Cadmium	50.0	ND	47.7	48.7	95.4	97.3	1	75.0-125			2.06	20
Cobalt	50.0	ND	47.8	47.3	95.3	94.4	1	75.0-125			1.03	20
Lead	50.0	ND	47.6	47.9	95.3	95.8	1	75.0-125			0.579	20
Selenium	50.0	ND	50.1	49.5	100	99.0	1	75.0-125			1.18	20
Thallium	50.0	ND	47.1	47.5	94.1	95.1	1	75.0-125			1.00	20

Method Blank (MB)

(MB) R4056012-1 04/10/24 11:16

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	U		1.03	4.00
Arsenic	U		0.180	2.00
Beryllium	U		0.190	2.00
Cadmium	U		0.150	1.00
Cobalt	U		0.0596	2.00
Lead	U		0.849	2.00
Selenium	U		0.300	2.00
Thallium	0.381	U	0.121	2.00

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Laboratory Control Sample (LCS)

(LCS) R4056012-2 04/10/24 11:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	52.1	104	80.0-120	
Arsenic	50.0	55.7	111	80.0-120	
Beryllium	50.0	47.0	94.1	80.0-120	
Cadmium	50.0	56.2	112	80.0-120	
Cobalt	50.0	57.2	114	80.0-120	
Lead	50.0	54.0	108	80.0-120	
Selenium	50.0	53.0	106	80.0-120	
Thallium	50.0	51.5	103	80.0-120	

L1722347-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722347-17 04/10/24 11:23 • (MS) R4056012-4 04/10/24 11:30 • (MSD) R4056012-5 04/10/24 11:33

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	ND	54.1	51.6	108	103	1	75.0-125			4.79	20
Arsenic	50.0	ND	54.9	53.0	109	105	1	75.0-125			3.57	20
Beryllium	50.0	ND	46.2	46.4	92.5	92.7	1	75.0-125			0.299	20
Cadmium	50.0	ND	55.2	53.2	110	106	1	75.0-125			3.66	20
Cobalt	50.0	ND	53.2	52.5	106	105	1	75.0-125			1.37	20
Lead	50.0	ND	54.5	53.5	109	107	1	75.0-125			1.87	20
Selenium	50.0	ND	52.9	51.7	106	103	1	75.0-125			2.20	20
Thallium	50.0	ND	52.4	50.4	105	101	1	75.0-125			3.97	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

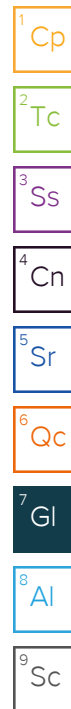
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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.
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.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.



ACCREDITATIONS & LOCATIONS

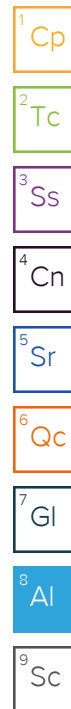
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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: SCS Engineers - KS 8575 West 110th Street Suite 100 Overland Park, KS 66210 Report to: Jason Franks Project Description: Evergry - LaCygne Generating Station						Billing Information: Accounts Payable 8575 W. 110th Street Suite 100 Overland Park, KS 66210 Email To: jfranks@scsengineers.com;jrockhold@scsengine						Pres Chk														
						City/State Collected: Lu Cygne, KS Please Circle: PT MT CT ET																				
Phone: 913-681-0030				Client Project # 27217233.20				Lab Project # AQUAOPKS-LACYGNE				CCR Metals 250mLHDPE-HNO3 FLUORIDE 125mLHDPE-NoPres														
Collected by (print): B. Coleman				Site/Facility ID #				P.O. #																		
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 #																		
Immediately Packed on Ice N ___ Y ___				Date Results Needed 1TD				No. of Cntrs																		
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time																					
MW-6	G	GW	-	4-3-24	1455	2	X	X																		
MW-7		GW			1420	2	X	X																		
MW-13		GW			1245	2	X	X																		
MW-14R		GW			1345	2	X	X																		
MW-15		GW			950	2	X	X																		
MW-601		GW			955	2	X	X																		
MW-602		GW			1315	2	X	X																		
MW-701		GW			1125	2	X	X																		
MW-702		GW			1055	2	X	X																		
MW-703		GW			1030	2	X	X																		
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other Remarks: 6010 Metals-BA,CR,LI,MO, 6020 Metals-SB,AS,BE,CD,CO,PB,SE,TL, 7470 Metals-HG. pH _____ Temp _____ Flow _____ Other _____																										
Samples returned via: UPS ___ FedEx ___ Courier _____						Tracking #																				
Relinquished by : (Signature) [Signature]				Date: 4-3-24		Time: 1400		Received by: (Signature)				Trip Blank Received: Yes / No HCL / MeoH TBR				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:		Time:		Received by: (Signature)				Temp: °C				Bottles Received: 50				If preservation required by Login: Date/Time						
Relinquished by : (Signature)				Date:		Time:		Received for lab by: (Signature) Alex M. Fisher				Date: 4/4/24				Time: 0900				Hold: Condition: NCF / OK						

Company Name/Address: SCS Engineers - KS 8575 West 110th Street Suite 100 Overland Park, KS 66210		Billing Information: Accounts Payable 8575 W. 110th Street Suite 100 Overland Park, KS 66210		Pres Chk ✓		Analysis / Container / Preservative										Chain of Custody Page ____ of ____ Pace® PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf			
Report to: Jason Franks		Email To: jfranks@scsengineers.com;jrockhold@scsengine																	
Project Description: Eergy - LaCygne Generating Station		City/State Collected: La Cygne, KS		Please Circle: PT MT CT ET															
Phone: 913-681-0030		Client Project # 27217233.20		Lab Project # AQUAOPKS-LACYGNE		CCR Metals 250mlHDPE-HNO3 FLUORIDE 125mlHDPE-NoPres													
Collected by (print): B. Coleman		Site/Facility ID #		P.O. #															
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 #															
Immediately Packed on Ice N ___ Y ☒		Date Results Needed STD		No. of Cntrs															
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No.	Cntrs	X	X										
MW-704	G	GW	-	4-3-24	1200	2		X	X										- 11
MW-705		GW			1330	2		X	X										- 12
MW-707B		GW			1105	2		X	X										- 13
MW-708		GW			1500	2		X	X										- 14
MW-801		GW			1415	2		X	X										- 15
MW-802		GW			1330	2		X	X										- 16
MW-803		GW			1210	2		X	X										- 17
MW-804		GW			1125	2		X	X										- 18
MW-805		GW			1035	2		X	X										- 19
TW-1		GW			1155	2		X	X										- 20
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks: 6010 Metals-BA,CR,LI,MO, 6020 Metals-SB,AS,BE,CD,CO,PB,SE,Tl, 7470 Metals-HG. pH _____ Temp _____ Flow _____ Other _____										<u>Sample Receipt Checklist</u> 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: 4-3-24		Time: 1600		Received by: (Signature)		Trip Blank Received: Yes/ ☒ No HCL/ MeOH TBR		Temp: °C Bottles Received: 50		If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: °C Bottles Received:		If preservation required by Login: Date/Time		Condition: NCF ☒ OK							
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: 4/4/24 Time: 0900		Hold:		Condition: NCF ☒ OK							

L1722347

[illegible]

Name Alisa Muthher

Name

4/14/24

Date

Date _____

SCS Engineers - KS

Sample Delivery Group: L1722466
Samples Received: 04/04/2024
Project Number: 27217233.24 - A
Description: Evergy La Cygne Gen Station GW 2024

Report To: Jason Franks
8575 West 110th Street
Suite 100
Overland Park, KS 66210

Entire Report Reviewed By:



Jeff Carr
Project Manager

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

Pace Analytical National

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

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

SAMPLE SUMMARY

MW-6 L1722466-01 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 14:55

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2253921	1	04/16/24 08:41	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2253921	1	04/16/24 08:41	04/17/24 23:41	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-7 L1722466-02 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 14:20

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2253921	1	04/16/24 08:41	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2253921	1	04/16/24 08:41	04/17/24 23:41	ZRG	Mt. Juliet, TN

MW-13 L1722466-03 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 12:45

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2253921	1	04/16/24 08:41	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2253921	1	04/16/24 08:41	04/17/24 23:42	ZRG	Mt. Juliet, TN

MW-14R L1722466-04 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 13:45

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2253921	1	04/16/24 08:41	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2253921	1	04/16/24 08:41	04/17/24 23:42	ZRG	Mt. Juliet, TN

MW-15 L1722466-05 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 09:50

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2253921	1	04/16/24 08:41	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2253921	1	04/16/24 08:41	04/17/24 23:42	ZRG	Mt. Juliet, TN

MW-601 L1722466-06 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 09:55

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-602 L1722466-07 Non-Potable Water

Collected by B. Coleman
Collected date/time 04/03/24 13:15
Received date/time 04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-701 L1722466-08 Non-Potable Water

Collected by B. Coleman
Collected date/time 04/03/24 11:25
Received date/time 04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

MW-702 L1722466-09 Non-Potable Water

Collected by B. Coleman
Collected date/time 04/03/24 10:55
Received date/time 04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

MW-703 L1722466-10 Non-Potable Water

Collected by B. Coleman
Collected date/time 04/03/24 10:30
Received date/time 04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

MW-704 L1722466-11 Non-Potable Water

Collected by B. Coleman
Collected date/time 04/03/24 12:00
Received date/time 04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

MW-705 L1722466-12 Non-Potable Water

Collected by B. Coleman
Collected date/time 04/03/24 13:30
Received date/time 04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-707B L1722466-13 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 11:05

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-708 L1722466-14 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 15:00

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

MW-801 L1722466-15 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 14:15

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

MW-802 L1722466-16 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 13:30

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

MW-803 L1722466-17 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 12:10

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272999	1	04/24/24 12:59	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2261156	1	04/05/24 12:55	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2261156	1	04/05/24 12:55	04/08/24 22:54	ZRG	Mt. Juliet, TN

MW-804 L1722466-18 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 11:25

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272996	1	04/25/24 17:20	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/30/24 22:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-805 L1722466-19 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 10:35

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272999	1	04/24/24 12:59	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

TW-1 L1722466-20 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 11:55

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272999	1	04/24/24 12:59	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

DUPLICATE 1 L1722466-21 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 00:00

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272999	1	04/24/24 12:59	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

DUPLICATE 2 L1722466-22 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 00:00

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272999	1	04/24/24 12:59	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

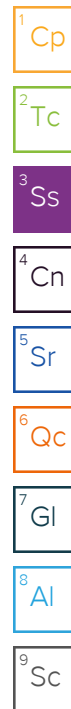
MW-706 L1722466-23 Non-Potable Water

Collected by
B. Coleman

Collected date/time
04/03/24 12:45

Received date/time
04/04/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2272999	1	04/24/24 12:59	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2267991	1	04/16/24 12:58	04/29/24 22:03	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2267991	1	04/16/24 12:58	04/17/24 18:54	ZRG	Mt. Juliet, TN

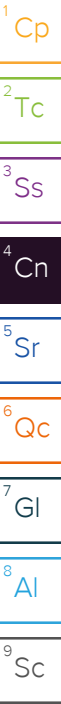


CASE NARRATIVE

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.



Jeff Carr
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.122	U	0.248	2.07	0.457	0.239	04/30/2024 22:17	WG2272996
(T) Barium	98.6					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	104					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.122	U	0.331	0.695	04/30/2024 22:17	WG2253921

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	-0.0534	U	0.219	0.0453	0.523	0.362	04/17/2024 23:41	WG2253921
(T) Barium-133	58.2					30.0-143	04/17/2024 23:41	WG2253921

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.286	U	0.295	2.33	0.554	0.290	04/30/2024 22:17	WG2272996
(T) Barium	88.9					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	93.3					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.813		0.559	0.737	04/30/2024 22:17	WG2253921

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.813		0.475	0.171	0.486	0.321	04/17/2024 23:41	WG2253921
(T) Barium-133	74.0					30.0-143	04/17/2024 23:41	WG2253921

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.341	U	0.227	1.65	0.438	0.231	04/30/2024 22:17	WG2272996
(T) Barium	99.0					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	87.6					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.232	U	0.455	0.736	04/30/2024 22:17	WG2253921

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.232	J	0.394	0.116	0.592	0.384	04/17/2024 23:42	WG2253921
(T) Barium-133	67.2					30.0-143	04/17/2024 23:42	WG2253921

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.736		0.303	0.958	0.538	0.284	04/30/2024 22:17	WG2272996
(T) Barium	105					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	95.4					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.961		0.436	0.706	04/30/2024 22:17	WG2253921

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.226	J	0.313	0.0970	0.457	0.313	04/17/2024 23:42	WG2253921
(T) Barium-133	67.9					30.0-143	04/17/2024 23:42	WG2253921

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.622		0.214	0.738	0.377	0.199	04/30/2024 22:17	WG2272996
(T) Barium	99.8					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	111					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.795		0.361	0.584	04/30/2024 22:17	WG2253921

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.172	J	0.291	0.0998	0.446	0.299	04/17/2024 23:42	WG2253921
(T) Barium-133	77.1					30.0-143	04/17/2024 23:42	WG2253921

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.300	J	0.225	1.30	0.409	0.216	04/30/2024 22:17	WG2272996
(T) Barium	101					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	91.9					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.403	J	0.259	0.443	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

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	0.129	0.0595	0.170	0.140	04/17/2024 18:54	WG2267991
(T) Barium-133	92.5					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.133	U	0.211	1.62	0.389	0.205	04/30/2024 22:17	WG2272996
(T) Barium	103					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	108					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.700		0.353	0.423	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.567		0.283	0.135	0.166	0.137	04/17/2024 18:54	WG2267991
(T) Barium-133	93.0					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.410	J	0.349	1.85	0.636	0.334	04/30/2024 22:17	WG2272996
(T) Barium	98.9					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	87.1					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.857		0.439	0.668	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.448		0.266	0.120	0.204	0.160	04/17/2024 18:54	WG2267991
(T) Barium-133	88.3					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.412	J	0.262	1.19	0.473	0.247	04/30/2024 22:17	WG2272996
(T) Barium	115					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	111					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.01		0.392	0.501	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.602		0.291	0.143	0.165	0.136	04/17/2024 18:54	WG2267991
(T) Barium-133	95.5					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.579		0.254	0.908	0.452	0.236	04/30/2024 22:17	WG2272996
(T) Barium	106					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	112					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.49		0.577	0.482	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.91		0.518	0.252	0.167	0.138	04/17/2024 18:54	WG2267991
(T) Barium-133	91.5					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.649		0.261	0.884	0.464	0.242	04/30/2024 22:17	WG2272996
(T) Barium	109					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	110					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.955		0.342	0.498	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.307		0.221	0.0952	0.181	0.150	04/17/2024 18:54	WG2267991
(T) Barium-133	84.8					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.594		0.263	0.930	0.469	0.245	04/30/2024 22:17	WG2272996
(T) Barium	113					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	113					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.784		0.317	0.503	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.190		0.177	0.0755	0.182	0.151	04/17/2024 18:54	WG2267991
(T) Barium-133	84.7					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.515		0.266	1.01	0.477	0.249	04/30/2024 22:17	WG2272996
(T) Barium	113					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	101					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.776		0.334	0.509	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.261		0.202	0.0868	0.177	0.146	04/17/2024 18:54	WG2267991
(T) Barium-133	84.9					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.273	J	0.296	2.17	0.537	0.279	04/30/2024 22:17	WG2272996
(T) Barium	112					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	134					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.592		0.366	0.562	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.319		0.216	0.0976	0.167	0.138	04/17/2024 18:54	WG2267991
(T) Barium-133	88.9					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.336	J	0.267	1.51	0.484	0.252	04/30/2024 22:17	WG2272996
(T) Barium	104					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	121					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.594		0.334	0.515	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.259		0.200	0.0919	0.175	0.145	04/17/2024 18:54	WG2267991
(T) Barium-133	90.6					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.570		0.273	0.986	0.489	0.255	04/30/2024 22:17	WG2272996
(T) Barium	101					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	112					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.55		0.469	0.519	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.981		0.381	0.178	0.175	0.145	04/17/2024 18:54	WG2267991
(T) Barium-133	90.1					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.875		0.219	0.636	0.368	0.194	04/29/2024 22:03	WG2272999
(T) Barium	103					30.0-143	04/29/2024 22:03	WG2272999
(T) Yttrium	112					30.0-136	04/29/2024 22:03	WG2272999

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.41		0.351	0.403	04/29/2024 22:03	WG2261156

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.531		0.274	0.132	0.165	0.137	04/08/2024 22:54	WG2261156
(T) Barium-133	93.4					30.0-143	04/08/2024 22:54	WG2261156

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.783		0.257	0.792	0.453	0.237	04/30/2024 22:17	WG2272996
(T) Barium	116					30.0-143	04/30/2024 22:17	WG2272996
(T) Yttrium	114					30.0-136	04/30/2024 22:17	WG2272996

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.64		0.443	0.496	04/30/2024 22:17	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.861		0.361	0.158	0.201	0.158	04/17/2024 18:54	WG2267991
(T) Barium-133	84.9					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.831		0.328	0.983	0.570	0.297	04/29/2024 22:03	WG2272999
(T) Barium	90.2					30.0-143	04/29/2024 22:03	WG2272999
(T) Yttrium	95.8					30.0-136	04/29/2024 22:03	WG2272999

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.01		0.370	0.597	04/29/2024 22:03	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.183		0.171	0.0744	0.176	0.146	04/17/2024 18:54	WG2267991
(T) Barium-133	86.5					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.50		0.275	0.621	0.450	0.237	04/29/2024 22:03	WG2272999
(T) Barium	93.9					30.0-143	04/29/2024 22:03	WG2272999
(T) Yttrium	92.2					30.0-136	04/29/2024 22:03	WG2272999

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.95		0.381	0.484	04/29/2024 22:03	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.453		0.263	0.115	0.177	0.146	04/17/2024 18:54	WG2267991
(T) Barium-133	85.9					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.51		0.268	0.603	0.437	0.230	04/29/2024 22:03	WG2272999
(T) Barium	104					30.0-143	04/29/2024 22:03	WG2272999
(T) Yttrium	89.5					30.0-136	04/29/2024 22:03	WG2272999

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.03		0.385	0.470	04/29/2024 22:03	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.517		0.276	0.127	0.173	0.143	04/17/2024 18:54	WG2267991
(T) Barium-133	89.3					30.0-143	04/17/2024 18:54	WG2267991

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.66		0.244	0.529	0.389	0.205	04/29/2024 22:03	WG2272999
(T) Barium	100					30.0-143	04/29/2024 22:03	WG2272999
(T) Yttrium	101					30.0-136	04/29/2024 22:03	WG2272999

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.89		0.311	0.430	04/29/2024 22:03	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.230		0.193	0.0851	0.183	0.151	04/17/2024 18:54	WG2267991
(T) Barium-133	87.0					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.03		0.208	0.559	0.340	0.181	04/29/2024 22:03	WG2272999
(T) Barium	107					30.0-143	04/29/2024 22:03	WG2272999
(T) Yttrium	107					30.0-136	04/29/2024 22:03	WG2272999

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.63		0.368	0.395	04/29/2024 22:03	WG2267991

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.598		0.304	0.141	0.202	0.159	04/17/2024 18:54	WG2267991
(T) Barium-133	90.8					30.0-143	04/17/2024 18:54	WG2267991

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4064701-1 04/30/24 22:17

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.437		0.168	0.298	0.157
(T) Barium	100		100		
(T) Yttrium	105		105		

L1722466-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1722466-04 04/30/24 22:17 • (DUP) R4064701-5 04/30/24 22:17

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	0.736	0.303	0.538	0.284	-0.231	0.276	0.526	0.278	200	2.36	U	20	3
(T) Barium	105				100	100							
(T) Yttrium	95.4				104	104							

Laboratory Control Sample (LCS)

(LCS) R4064701-2 04/30/24 22:17

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.59	91.8	80.0-120	
(T) Barium			98.2		
(T) Yttrium			99.0		

L1722466-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722466-08 04/30/24 22:17 • (MS) R4064701-3 04/30/24 22:17 • (MSD) R4064701-4 04/30/24 22:17

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	0.410	14.4	15.7	83.5	91.3	1	70.0-130			8.60		20
(T) Barium		98.9			105	108							
(T) Yttrium		87.1			103	91.7							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4064695-1 04/29/24 22:03

	MB Result	MB Qualifier	MB 2 sigma CE	MB MDA	MB Lc
Analyte	pCi/l		+ / -	pCi/l	pCi/l
Radium-228	0.813		0.206	0.349	0.183
(T) Barium	104		104		
(T) Yttrium	93.2		93.2		

L1727064-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1727064-05 04/29/24 22:03 • (DUP) R4064695-5 04/29/24 22:03

	Original Result	Original 2 sigma CE	Original MDA	Original Lc	DUP Result	DUP 2 sigma CE	DUP MDA	DUP Lc	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
Analyte	pCi/l	+ / -	pCi/l	pCi/l	pCi/l	+ / -	pCi/l	pCi/l	%			%	
Radium-228	0.491	0.270	0.476	0.249	1.25	0.307	0.514	0.272	87.4	1.87		20	3
(T) Barium	95.8				102	102							
(T) Yttrium	98.6				95.9	95.9							

Laboratory Control Sample (LCS)

(LCS) R4064695-2 04/29/24 22:03

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	pCi/l	pCi/l	%	%	
Radium-228	5.00	4.91	98.1	80.0-120	
(T) Barium			104		
(T) Yttrium			96.9		

L1722466-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722466-17 04/29/24 22:03 • (MS) R4064695-3 04/29/24 22:03 • (MSD) R4064695-4 04/29/24 22:03

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
Analyte	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-228	10.0	0.875	10.2	9.88	93.4	90.0	1	70.0-130			3.43		20
(T) Barium		103			98.6	104							
(T) Yttrium		112			99.0	101							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Method Blank (MB)

(MB) R4059701-1 04/17/24 23:41

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.00732	<u>U</u>	0.0151	0.0286	0.0216
(T) Barium-133	70.2		70.2		

L1721586-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1721586-01 04/17/24 23:41 • (DUP) R4059701-5 04/17/24 23:41

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	0.100	0.126	0.165	0.136	0.0644	0.122	0.212	0.167	43.6	0.205	<u>U</u>	20	3
(T) Barium-133	93.2				84.7	84.7							

Laboratory Control Sample (LCS)

(LCS) R4059701-2 04/17/24 23:41

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	4.62	92.4	80.0-120	
(T) Barium-133			63.1		

L1717867-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1717867-02 04/17/24 23:41 • (MS) R4059701-3 04/17/24 23:41 • (MSD) R4059701-4 04/17/24 23:41

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	0.331	20.3	20.3	99.9	99.8	1	75.0-125			0.148		20
(T) Barium-133		70.9			67.0	63.0							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4057825-1 04/08/24 22:54

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.00197	<u>U</u>	0.0465	0.0889	0.0593
(T) Barium-133	88.2		88.2		

L1720135-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1720135-07 04/08/24 22:54 • (DUP) R4057825-5 04/08/24 22:54

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	0.300	0.279	0.347	0.238	0.559	0.322	0.335	0.217	60.1	0.606		20	3
(T) Barium-133	89.2				91.6	91.6							

Laboratory Control Sample (LCS)

(LCS) R4057825-2 04/08/24 22:54

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.72	114	80.0-120	
(T) Barium-133			87.5		

L1722466-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722466-17 04/08/24 22:54 • (MS) R4057825-3 04/08/24 22:54 • (MSD) R4057825-4 04/08/24 22:54

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	0.531	20.4	20.3	99.2	98.9	1	75.0-125			0.246		20
(T) Barium-133		93.4			83.9	84.6							



Method Blank (MB)

(MB) R4060358-1 04/17/24 18:54

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0425	⬇	0.0448	0.0559	0.0425
(T) Barium-133	88.0		88.0		

L1722466-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1722466-15 04/17/24 18:54 • (DUP) R4060358-5 04/17/24 18:54

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	0.259	0.200	0.175	0.145	0.334	0.220	0.184	0.144	25.3	0.252		20	3
(T) Barium-133	90.6				90.5	90.5							

Laboratory Control Sample (LCS)

(LCS) R4060358-2 04/17/24 18:54

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.37	107	80.0-120	
(T) Barium-133			76.8		

L1722466-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1722466-08 04/17/24 18:54 • (MS) R4060358-3 04/17/24 18:54 • (MSD) R4060358-4 04/17/24 18:54

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	0.448	23.1	20.9	113	102	1	75.0-125			9.68		20
(T) Barium-133		88.3			79.1	88.9							

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

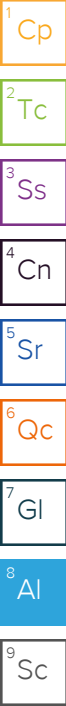
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

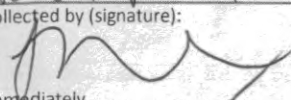
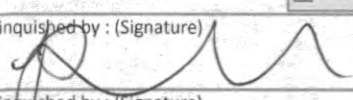
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Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 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

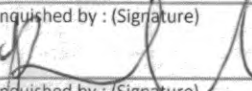
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

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



Company Name/Address: SCS Engineers - KS 8575 West 110th Street Suite 100 Overland Park, KS 66210				Billing Information: Accounts Payable 8575 W. 110th Street Suite 100 Overland Park, KS 66210				Chain of Custody Page ____ of ____															
Report to: Jason Franks				Email To: jfranks@scsengineers.com; jrockhold@scsengine				 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															
Project Description: Every La Cygne Gen Station GW 2024		City/State Collected: La Cygne, KS		Please Circle: PT MT ET																			
Phone: 913-681-0030		Client Project # 27217233.24 - A		Lab Project # AQUAOPKS-LACYGNE																			
Collected by (print): B. Coleman		Site/Facility ID #		P.O. #																			
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		No. of Cntrs RA-226 1L-HDPE-Add HNO3 RA-228 1L-HDPE-Add HNO3																	
Immediately Packed on Ice N ☐ Y ☒		Sample ID		Comp/Grab				Matrix *		Depth		Date		Time									
MW-6		G		NPW		-		4-3-24		1455		2											
MW-7		↓		NPW		↓		↓		1420		2											
MW-13		↓		NPW		↓		↓		1245		2											
MW-14R		↓		NPW		↓		↓		1345		2											
MW-15		↓		NPW		↓		↓		950		2											
MW-601		↓		NPW		↓		↓		955		2											
MW-602		↓		NPW		↓		↓		1315		2											
MW-701		↓		NPW		↓		↓		1125		2											
MW-702		↓		NPW		↓		↓		1055		2											
MW-703		↓		NPW		↓		↓		1030		2											
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other				Remarks: Samples returned via: ☐ UPS ☐ FedEx ☐ Courier				Tracking #															
Relinquished by: (Signature) 				Date: 4-3-24		Time: 1600		Received by: (Signature)				Trip Blank Received: Yes / No HCL / MeOH TBR											
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Temp: °C Bottles Received:				If preservation required by Login: Date/Time							
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) Chosen				Date: 4/4/24 Time: 0900				Hold:				Condition: NCF / OK			

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

Company Name/Address: SCS Engineers - KS 8575 West 110th Street Suite 100 Overland Park, KS 66210		Billing Information: Accounts Payable 8575 W. 110th Street Suite 100 Overland Park, KS 66210		Pres Chk 27 27		Analysis / Container / Preservative										Chain of Custody Page 1 of 1					
Report to: Jason Franks		Email To: jfranks@scsengineers.com;jrockhold@scsengine														 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: Every La Cygne Gen Station GW 2024		City/State Collected: La Cygne, KS		Please Circle: PT MT CT ET																	
Phone: 913-681-0030		Client Project # 27217233.24 - A		Lab Project # AQUAOPKS-LACYGNE												SDG # LT22410					
Collected by (print): B. Coleman		Site/Facility ID #		P.O. #												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: AQUAOPKS Template: T249867 Prelogin: P1066023 PM: 206 - Jeff Carr PB:					
Immediately Packed on Ice N Y ☒		Date Results Needed 5/7/24		No. of Cntrs												Shipped Via: FedEX Ground					
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	RA-226 1L-HDPE-Add HNO3	RA-228 1L-HDPE-Add HNO3											Remarks	Sample # (lab only)	
MW-704		G	NPW	-	4-3-24	1200	2	X	X												-11
MW-705			NPW			1330	2	X	X												-12
MW-707B			NPW			1105	2	X	X												-13
MW-708			NPW			1500	2	X	X												-14
MW-801			NPW			1415	2	X	X												-15
MW-802			NPW			1330	2	X	X												-16
MW-803			NPW			1210	2	X	X												-17
MW-804			NPW			1125	2	X	X												-18
MW-805			NPW			1035	2	X	X												-19
TW-1			NPW			1153	2	X	X												-20
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:		pH _____ Temp _____ Flow _____ Other _____										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							
Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking #																			
Relinquished by: (Signature) 		Date: 4-3-24	Time: 1600	Received by: (Signature)		Trip Blank Received: Yes / No HCL / MeOH TBR															
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C Bottles Received:		If pre PH-10BDH5021 TRC 2352°F CR6-20221V										Time			
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) Chasen		Date: 4/4/24 Time: 0900		Hold:										Condition: NCF / OK			

6722466

[illegible]

Name Carrie Rosen

4/4/24
Date



ANALYTICAL REPORT

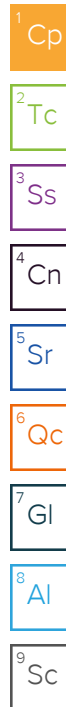
July 02, 2024

Revised Report

SCS Engineers - KS

Sample Delivery Group: L1738104
Samples Received: 05/18/2024
Project Number: 27224503.00 - A
Description: Evergy La Cygne Gen Station GW 2024

Report To: Jason Franks
8575 West 110th Street
Suite 100
Overland Park, KS 66210



Entire Report Reviewed By:

Jeff Carr
Project Manager

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

Pace Analytical National

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

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

SAMPLE SUMMARY

MW-6 L1738104-01 GW

Collected by
Collected date/time
Received date/time

05/17/24 12:00 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292242	1	05/24/24 10:24	05/24/24 14:27	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 12:38	06/05/24 12:38	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289067	1	05/20/24 15:35	05/21/24 12:19	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 16:38	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2292955	1	05/29/24 01:13	06/28/24 18:47	JPD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-7 L1738104-02 GW

Collected by
Collected date/time
Received date/time

05/17/24 11:15 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292242	1	05/24/24 10:24	05/24/24 14:27	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 12:54	06/05/24 12:54	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289067	1	05/20/24 15:35	05/21/24 12:21	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 16:41	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2292955	1	05/29/24 01:13	06/28/24 18:50	JPD	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

MW-13 L1738104-03 GW

Collected by
Collected date/time
Received date/time

05/17/24 10:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292242	1	05/24/24 10:24	05/24/24 14:27	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 13:10	06/05/24 13:10	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	10	06/05/24 13:25	06/05/24 13:25	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289067	1	05/20/24 15:35	05/21/24 12:23	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 16:44	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2292955	1	05/29/24 01:13	06/28/24 18:54	JPD	Mt. Juliet, TN

⁹ Sc

MW-14R L1738104-04 GW

Collected by
Collected date/time
Received date/time

05/17/24 13:45 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292242	1	05/24/24 10:24	05/24/24 14:27	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 13:41	06/05/24 13:41	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:09	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 16:47	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294296	1	05/29/24 10:43	06/13/24 21:12	LD	Mt. Juliet, TN

MW-15 L1738104-05 GW

Collected by
Collected date/time
Received date/time

05/17/24 12:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292242	1	05/24/24 10:24	05/24/24 14:27	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 13:57	06/05/24 13:57	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:12	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 16:55	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294296	1	05/29/24 10:43	06/13/24 21:28	LD	Mt. Juliet, TN

SAMPLE SUMMARY

MW-601 L1738104-06 GW

Collected by
Collected date/time
Received date/time

05/17/24 10:20 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292242	1	05/24/24 10:24	05/24/24 14:27	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 14:13	06/05/24 14:13	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:14	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 16:58	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294296	1	05/29/24 10:43	06/13/24 21:32	LD	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

MW-602 L1738104-07 GW

Collected by
Collected date/time
Received date/time

05/17/24 11:25 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292242	1	05/24/24 10:24	05/24/24 14:27	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 14:29	06/05/24 14:29	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:17	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:01	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294296	1	05/29/24 10:43	06/13/24 21:35	LD	Mt. Juliet, TN

⁵Sr

⁶Qc

⁷Gl

⁸Al

MW-701 L1738104-08 GW

Collected by
Collected date/time
Received date/time

05/17/24 12:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292242	1	05/24/24 10:24	05/24/24 14:27	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 15:17	06/05/24 15:17	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 13:47	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 16:27	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294296	1	05/29/24 10:43	06/12/24 23:18	LD	Mt. Juliet, TN

⁹Sc

MW-702 L1738104-09 GW

Collected by
Collected date/time
Received date/time

05/17/24 09:30 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292242	1	05/24/24 10:24	05/24/24 14:27	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 16:05	06/05/24 16:05	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:19	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:04	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294296	1	05/29/24 10:43	06/13/24 21:38	LD	Mt. Juliet, TN

MW-703 L1738104-10 GW

Collected by
Collected date/time
Received date/time

05/17/24 09:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292242	1	05/24/24 10:24	05/24/24 14:27	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 16:20	06/05/24 16:20	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:22	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:07	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294296	1	05/29/24 10:43	06/13/24 21:42	LD	Mt. Juliet, TN

SAMPLE SUMMARY

MW-704 L1738104-11 GW

Collected by
Collected date/time
Received date/time

05/17/24 12:05 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292242	1	05/24/24 10:24	05/24/24 14:27	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 16:36	06/05/24 16:36	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:29	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:10	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294296	1	05/29/24 10:43	06/13/24 21:45	LD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-705 L1738104-12 GW

Collected by
Collected date/time
Received date/time

05/17/24 10:25 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292535	1	05/24/24 08:28	05/24/24 17:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 17:08	06/05/24 17:08	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:31	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:13	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294296	1	05/29/24 10:43	06/13/24 21:48	LD	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

MW-706 L1738104-13 GW

Collected by
Collected date/time
Received date/time

05/17/24 08:48 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292535	1	05/24/24 08:28	05/24/24 17:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 17:24	06/05/24 17:24	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2302598	10	06/11/24 19:29	06/11/24 19:29	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:34	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:15	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294296	1	05/29/24 10:43	06/13/24 21:52	LD	Mt. Juliet, TN

⁹ Sc

MW-707B L1738104-14 GW

Collected by
Collected date/time
Received date/time

05/16/24 14:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2291822	1	05/23/24 11:09	05/23/24 14:07	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	10	06/05/24 17:40	06/05/24 17:40	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	100	06/05/24 17:56	06/05/24 17:56	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2302598	1	06/11/24 19:43	06/11/24 19:43	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:36	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:19	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294296	1	05/29/24 10:43	06/13/24 21:55	LD	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

05/16/24 14:10 05/18/24 09:00

MW-708 L1738104-15 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2291822	1	05/23/24 11:09	05/23/24 14:07	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 18:12	06/05/24 18:12	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:39	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:22	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294297	1	05/29/24 10:59	06/29/24 11:05	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

MW-801 L1738104-16 GW

Collected by
Collected date/time
Received date/time

05/16/24 13:10 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2291822	1	05/23/24 11:09	05/23/24 14:07	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 19:00	06/05/24 19:00	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:41	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:30	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294297	1	05/29/24 10:59	06/29/24 11:08	JPD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-802 L1738104-17 GW

Collected by
Collected date/time
Received date/time

05/15/24 16:45 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2291291	1	05/22/24 16:39	05/22/24 20:05	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 19:16	06/05/24 19:16	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:44	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:33	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294297	1	05/29/24 10:59	06/29/24 11:11	JPD	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

MW-803 L1738104-18 GW

Collected by
Collected date/time
Received date/time

05/15/24 15:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2291291	1	05/22/24 16:39	05/22/24 20:05	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294784	1	06/05/24 19:31	06/05/24 19:31	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:02	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:36	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294297	1	05/29/24 10:59	06/29/24 10:52	JPD	Mt. Juliet, TN

⁹ Sc

MW-804 L1738104-19 GW

Collected by
Collected date/time
Received date/time

05/15/24 15:15 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2291291	1	05/22/24 16:39	05/22/24 20:05	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294791	1	06/05/24 02:41	06/05/24 02:41	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:46	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:38	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294297	1	05/29/24 10:59	06/29/24 11:14	JPD	Mt. Juliet, TN

MW-805 L1738104-20 GW

Collected by
Collected date/time
Received date/time

05/15/24 14:30 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2291291	1	05/22/24 16:39	05/22/24 20:05	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294791	1	06/05/24 02:54	06/05/24 02:54	JD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294791	10	06/05/24 03:07	06/05/24 03:07	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:49	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292931	1	05/29/24 01:10	05/29/24 17:41	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294297	1	05/29/24 10:59	06/29/24 11:30	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

TW-1 L1738104-21 GW

Collected by
05/16/24 15:40

Collected date/time
05/18/24 09:00

Received date/time

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2291851	1	05/23/24 11:42	05/23/24 16:00	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294791	1	06/05/24 03:21	06/05/24 03:21	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:51	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292932	1	05/30/24 00:55	05/30/24 16:20	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294297	1	05/29/24 10:59	06/29/24 11:33	JPD	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

DUPLICATE 1 L1738104-22 GW

Collected by
05/15/24 15:55

Collected date/time
05/18/24 09:00

Received date/time

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2291291	1	05/22/24 16:39	05/22/24 20:05	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294791	1	06/05/24 03:34	06/05/24 03:34	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 14:58	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292932	1	05/30/24 00:55	05/30/24 16:22	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294297	1	05/29/24 10:59	06/29/24 11:36	JPD	Mt. Juliet, TN

⁵Sr

⁶Qc

⁷Gl

⁸Al

DUPLICATE 2 L1738104-23 GW

Collected by
05/17/24 12:55

Collected date/time
05/18/24 09:00

Received date/time

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2292535	1	05/24/24 08:28	05/24/24 17:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2294791	1	06/05/24 03:48	06/05/24 03:48	JD	Mt. Juliet, TN
Mercury by Method 7470A	WG2289068	1	05/20/24 15:39	05/22/24 15:01	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2292932	1	05/30/24 00:55	05/30/24 16:23	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2294297	1	05/29/24 10:59	06/29/24 11:39	JPD	Mt. Juliet, TN

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 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.



Jeff Carr
Project Manager

Report Revision History

Level II Report - Version 1: 07/01/24 14:01

Project Narrative

Revised to include the 6020 metals for sample -18.



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1050000		20000	1	05/24/2024 14:27	WG2292242

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	187000		1000	1	06/05/2024 12:38	WG2294784
Fluoride	572		150	1	06/05/2024 12:38	WG2294784
Sulfate	94700		5000	1	06/05/2024 12:38	WG2294784

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	05/21/2024 12:19	WG2289067

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	145		5.00	1	05/29/2024 16:38	WG2292931
Boron	1130		200	1	05/29/2024 16:38	WG2292931
Calcium	70200		1000	1	05/29/2024 16:38	WG2292931
Chromium	ND		10.0	1	05/29/2024 16:38	WG2292931
Lithium	46.9		15.0	1	05/29/2024 16:38	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 16:38	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	06/28/2024 18:47	WG2292955
Arsenic	2.77		2.00	1	06/28/2024 18:47	WG2292955
Cadmium	ND		1.00	1	06/28/2024 18:47	WG2292955
Cobalt	ND		2.00	1	06/28/2024 18:47	WG2292955
Lead	ND		2.00	1	06/28/2024 18:47	WG2292955
Selenium	ND		2.00	1	06/28/2024 18:47	WG2292955

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	850000		20000	1	05/24/2024 14:27	WG2292242

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	95400		1000	1	06/05/2024 12:54	WG2294784
Fluoride	1370		150	1	06/05/2024 12:54	WG2294784
Sulfate	ND		5000	1	06/05/2024 12:54	WG2294784

Mercury by Method 7470A

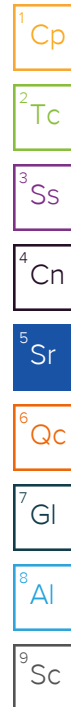
Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/21/2024 12:21	WG2289067

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	478		5.00	1	05/29/2024 16:41	WG2292931
Boron	1530		200	1	05/29/2024 16:41	WG2292931
Calcium	20600		1000	1	05/29/2024 16:41	WG2292931
Chromium	ND		10.0	1	05/29/2024 16:41	WG2292931
Lithium	73.8		15.0	1	05/29/2024 16:41	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 16:41	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/28/2024 18:50	WG2292955
Arsenic	ND		2.00	1	06/28/2024 18:50	WG2292955
Cadmium	ND		1.00	1	06/28/2024 18:50	WG2292955
Cobalt	ND		2.00	1	06/28/2024 18:50	WG2292955
Lead	ND		2.00	1	06/28/2024 18:50	WG2292955
Selenium	ND		2.00	1	06/28/2024 18:50	WG2292955



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	2320000		50000	1	05/24/2024 14:27	WG2292242

¹ Cp

² Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	28900		1000	1	06/05/2024 13:10	WG2294784
Fluoride	179		150	1	06/05/2024 13:10	WG2294784
Sulfate	1420000		50000	10	06/05/2024 13:25	WG2294784

³ Ss

⁴ Cn

⁵ Sr

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/21/2024 12:23	WG2289067

⁶ Qc

⁷ Gl

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	16.8		5.00	1	05/29/2024 16:44	WG2292931
Boron	334		200	1	05/29/2024 16:44	WG2292931
Calcium	348000		1000	1	05/29/2024 16:44	WG2292931
Chromium	ND		10.0	1	05/29/2024 16:44	WG2292931
Lithium	57.1		15.0	1	05/29/2024 16:44	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 16:44	WG2292931

⁸ Al

⁹ Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/28/2024 18:54	WG2292955
Arsenic	ND		2.00	1	06/28/2024 18:54	WG2292955
Cadmium	ND		1.00	1	06/28/2024 18:54	WG2292955
Cobalt	ND		2.00	1	06/28/2024 18:54	WG2292955
Lead	ND		2.00	1	06/28/2024 18:54	WG2292955
Selenium	ND		2.00	1	06/28/2024 18:54	WG2292955

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	550000		10000	1	05/24/2024 14:27	WG2292242

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	6600		1000	1	06/05/2024 13:41	WG2294784
Fluoride	397		150	1	06/05/2024 13:41	WG2294784
Sulfate	57400		5000	1	06/05/2024 13:41	WG2294784

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 14:09	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	40.3		5.00	1	05/29/2024 16:47	WG2292931
Boron	754		200	1	05/29/2024 16:47	WG2292931
Calcium	50200		1000	1	05/29/2024 16:47	WG2292931
Chromium	ND		10.0	1	05/29/2024 16:47	WG2292931
Lithium	41.9		15.0	1	05/29/2024 16:47	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 16:47	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/13/2024 21:12	WG2294296
Arsenic	ND		2.00	1	06/13/2024 21:12	WG2294296
Cadmium	ND		1.00	1	06/13/2024 21:12	WG2294296
Cobalt	ND		2.00	1	06/13/2024 21:12	WG2294296
Lead	ND		2.00	1	06/13/2024 21:12	WG2294296
Selenium	ND		2.00	1	06/13/2024 21:12	WG2294296

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	732000		13300	1	05/24/2024 14:27	WG2292242

Wet Chemistry by Method 9056A

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	10800		1000	1	06/05/2024 13:57	WG2294784
Fluoride	296		150	1	06/05/2024 13:57	WG2294784
Sulfate	189000		5000	1	06/05/2024 13:57	WG2294784

Mercury by Method 7470A

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Mercury	ND		0.200	1	05/22/2024 14:12	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Barium	44.9		5.00	1	05/29/2024 16:55	WG2292931
Boron	221		200	1	05/29/2024 16:55	WG2292931
Calcium	96900		1000	1	05/29/2024 16:55	WG2292931
Chromium	ND		10.0	1	05/29/2024 16:55	WG2292931
Lithium	25.4		15.0	1	05/29/2024 16:55	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 16:55	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Antimony	ND		4.00	1	06/13/2024 21:28	WG2294296
Arsenic	ND		2.00	1	06/13/2024 21:28	WG2294296
Cadmium	ND		1.00	1	06/13/2024 21:28	WG2294296
Cobalt	ND		2.00	1	06/13/2024 21:28	WG2294296
Lead	ND		2.00	1	06/13/2024 21:28	WG2294296
Selenium	ND		2.00	1	06/13/2024 21:28	WG2294296

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	926000		20000	1	05/24/2024 14:27	WG2292242

¹ Cp

² Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	165000		1000	1	06/05/2024 14:13	WG2294784
Fluoride	1600		150	1	06/05/2024 14:13	WG2294784
Sulfate	6040		5000	1	06/05/2024 14:13	WG2294784

³ Ss

⁴ Cn

⁵ Sr

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 14:14	WG2289068

⁶ Qc

⁷ Gl

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	128		5.00	1	05/29/2024 16:58	WG2292931
Boron	1850		200	1	05/29/2024 16:58	WG2292931
Calcium	14300		1000	1	05/29/2024 16:58	WG2292931
Chromium	ND		10.0	1	05/29/2024 16:58	WG2292931
Lithium	69.1		15.0	1	05/29/2024 16:58	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 16:58	WG2292931

⁸ Al

⁹ Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/13/2024 21:32	WG2294296
Arsenic	ND		2.00	1	06/13/2024 21:32	WG2294296
Cadmium	ND		1.00	1	06/13/2024 21:32	WG2294296
Cobalt	ND		2.00	1	06/13/2024 21:32	WG2294296
Lead	ND		2.00	1	06/13/2024 21:32	WG2294296
Selenium	ND		2.00	1	06/13/2024 21:32	WG2294296

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	578000		10000	1	05/24/2024 14:27	WG2292242

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	15700		1000	1	06/05/2024 14:29	WG2294784
Fluoride	1350		150	1	06/05/2024 14:29	WG2294784
Sulfate	25500		5000	1	06/05/2024 14:29	WG2294784

Mercury by Method 7470A

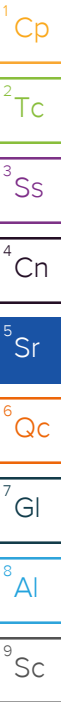
Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 14:17	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	99.4		5.00	1	05/29/2024 17:01	WG2292931
Boron	2240		200	1	05/29/2024 17:01	WG2292931
Calcium	21400		1000	1	05/29/2024 17:01	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:01	WG2292931
Lithium	56.9		15.0	1	05/29/2024 17:01	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:01	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/13/2024 21:35	WG2294296
Arsenic	ND		2.00	1	06/13/2024 21:35	WG2294296
Cadmium	ND		1.00	1	06/13/2024 21:35	WG2294296
Cobalt	ND		2.00	1	06/13/2024 21:35	WG2294296
Lead	ND		2.00	1	06/13/2024 21:35	WG2294296
Selenium	ND		2.00	1	06/13/2024 21:35	WG2294296



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	571000		10000	1	05/24/2024 14:27	WG2292242

1
Cp

2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	45500		1000	1	06/05/2024 15:17	WG2294784
Fluoride	612		150	1	06/05/2024 15:17	WG2294784
Sulfate	80000	J6	5000	1	06/05/2024 15:17	WG2294784

3
Ss

4
Cn

5
Sr

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 13:47	WG2289068

6
Qc

7
Gl

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	211	O1	5.00	1	05/29/2024 16:27	WG2292931
Boron	902		200	1	05/29/2024 16:27	WG2292931
Calcium	42100	O1	1000	1	05/29/2024 16:27	WG2292931
Chromium	ND		10.0	1	05/29/2024 16:27	WG2292931
Lithium	43.8		15.0	1	05/29/2024 16:27	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 16:27	WG2292931

8
Al

9
Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/12/2024 23:18	WG2294296
Arsenic	ND		2.00	1	06/12/2024 23:18	WG2294296
Cadmium	ND		1.00	1	06/12/2024 23:18	WG2294296
Cobalt	ND		2.00	1	06/12/2024 23:18	WG2294296
Lead	ND		2.00	1	06/12/2024 23:18	WG2294296
Selenium	ND		2.00	1	06/12/2024 23:18	WG2294296

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	653000		13300	1	05/24/2024 14:27	WG2292242

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	47200		1000	1	06/05/2024 16:05	WG2294784
Fluoride	1420		150	1	06/05/2024 16:05	WG2294784
Sulfate	ND		5000	1	06/05/2024 16:05	WG2294784

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 14:19	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	529		5.00	1	05/29/2024 17:04	WG2292931
Boron	1820		200	1	05/29/2024 17:04	WG2292931
Calcium	16000		1000	1	05/29/2024 17:04	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:04	WG2292931
Lithium	59.7		15.0	1	05/29/2024 17:04	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:04	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/13/2024 21:38	WG2294296
Arsenic	ND		2.00	1	06/13/2024 21:38	WG2294296
Cadmium	ND		1.00	1	06/13/2024 21:38	WG2294296
Cobalt	ND		2.00	1	06/13/2024 21:38	WG2294296
Lead	ND		2.00	1	06/13/2024 21:38	WG2294296
Selenium	ND		2.00	1	06/13/2024 21:38	WG2294296

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Dissolved Solids	854000		20000	1	05/24/2024 14:27	WG2292242

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Chloride	72400		1000	1	06/05/2024 16:20	WG2294784
Fluoride	1200		150	1	06/05/2024 16:20	WG2294784
Sulfate	48400		5000	1	06/05/2024 16:20	WG2294784

Mercury by Method 7470A

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 14:22	WG2289068

Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Barium	264		5.00	1	05/29/2024 17:07	WG2292931
Boron	1620		200	1	05/29/2024 17:07	WG2292931
Calcium	19100		1000	1	05/29/2024 17:07	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:07	WG2292931
Lithium	58.2		15.0	1	05/29/2024 17:07	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:07	WG2292931

Metals (ICPMS) by Method 6020B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/13/2024 21:42	WG2294296
Arsenic	ND		2.00	1	06/13/2024 21:42	WG2294296
Cadmium	ND		1.00	1	06/13/2024 21:42	WG2294296
Cobalt	ND		2.00	1	06/13/2024 21:42	WG2294296
Lead	ND		2.00	1	06/13/2024 21:42	WG2294296
Selenium	ND		2.00	1	06/13/2024 21:42	WG2294296

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	1170000		20000	1	05/24/2024 14:27	WG2292242

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	87700		1000	1	06/05/2024 16:36	WG2294784
Fluoride	822		150	1	06/05/2024 16:36	WG2294784
Sulfate	154000		5000	1	06/05/2024 16:36	WG2294784

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 14:29	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	56.3		5.00	1	05/29/2024 17:10	WG2292931
Boron	1990		200	1	05/29/2024 17:10	WG2292931
Calcium	20900		1000	1	05/29/2024 17:10	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:10	WG2292931
Lithium	99.8		15.0	1	05/29/2024 17:10	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:10	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/13/2024 21:45	WG2294296
Arsenic	ND		2.00	1	06/13/2024 21:45	WG2294296
Cadmium	ND		1.00	1	06/13/2024 21:45	WG2294296
Cobalt	ND		2.00	1	06/13/2024 21:45	WG2294296
Lead	ND		2.00	1	06/13/2024 21:45	WG2294296
Selenium	ND		2.00	1	06/13/2024 21:45	WG2294296

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	968000		20000	1	05/24/2024 17:52	WG2292535

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	135000		1000	1	06/05/2024 17:08	WG2294784
Fluoride	992		150	1	06/05/2024 17:08	WG2294784
Sulfate	37500		5000	1	06/05/2024 17:08	WG2294784

Mercury by Method 7470A

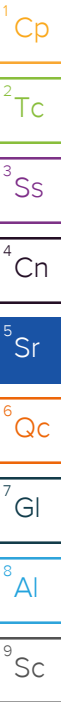
Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 14:31	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	88.7		5.00	1	05/29/2024 17:13	WG2292931
Boron	2110		200	1	05/29/2024 17:13	WG2292931
Calcium	27200		1000	1	05/29/2024 17:13	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:13	WG2292931
Lithium	117		15.0	1	05/29/2024 17:13	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:13	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/13/2024 21:48	WG2294296
Arsenic	ND		2.00	1	06/13/2024 21:48	WG2294296
Cadmium	ND		1.00	1	06/13/2024 21:48	WG2294296
Cobalt	ND		2.00	1	06/13/2024 21:48	WG2294296
Lead	ND		2.00	1	06/13/2024 21:48	WG2294296
Selenium	ND		2.00	1	06/13/2024 21:48	WG2294296



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1170000		25000	1	05/24/2024 17:52	WG2292535

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	223000		10000	10	06/11/2024 19:29	WG2302598
Fluoride	1060		150	1	06/05/2024 17:24	WG2294784
Sulfate	15700		5000	1	06/05/2024 17:24	WG2294784

Mercury by Method 7470A

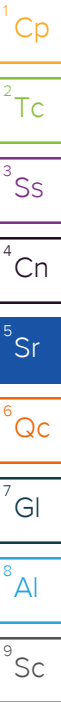
Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	05/22/2024 14:34	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	193		5.00	1	05/29/2024 17:15	WG2292931
Boron	1990		200	1	05/29/2024 17:15	WG2292931
Calcium	22600		1000	1	05/29/2024 17:15	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:15	WG2292931
Lithium	127		15.0	1	05/29/2024 17:15	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:15	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	06/13/2024 21:52	WG2294296
Arsenic	ND		2.00	1	06/13/2024 21:52	WG2294296
Cadmium	ND		1.00	1	06/13/2024 21:52	WG2294296
Cobalt	ND		2.00	1	06/13/2024 21:52	WG2294296
Lead	ND		2.00	1	06/13/2024 21:52	WG2294296
Selenium	ND		2.00	1	06/13/2024 21:52	WG2294296



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5720000		100000	1	05/23/2024 14:07	WG2291822

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	159000		10000	10	06/05/2024 17:40	WG2294784
Fluoride	368		150	1	06/11/2024 19:43	WG2302598
Sulfate	4880000		500000	100	06/05/2024 17:56	WG2294784

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	0.238		0.200	1	05/22/2024 14:36	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	17.0		5.00	1	05/29/2024 17:19	WG2292931
Boron	1870		200	1	05/29/2024 17:19	WG2292931
Calcium	392000		1000	1	05/29/2024 17:19	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:19	WG2292931
Lithium	1270		15.0	1	05/29/2024 17:19	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:19	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	06/13/2024 21:55	WG2294296
Arsenic	ND		2.00	1	06/13/2024 21:55	WG2294296
Cadmium	ND		1.00	1	06/13/2024 21:55	WG2294296
Cobalt	8.49		2.00	1	06/13/2024 21:55	WG2294296
Lead	ND		2.00	1	06/13/2024 21:55	WG2294296
Selenium	ND		2.00	1	06/13/2024 21:55	WG2294296

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	620000		13300	1	05/23/2024 14:07	WG2291822

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	48200		1000	1	06/05/2024 18:12	WG2294784
Fluoride	686		150	1	06/05/2024 18:12	WG2294784
Sulfate	9600		5000	1	06/05/2024 18:12	WG2294784

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 14:39	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	234		5.00	1	05/29/2024 17:22	WG2292931
Boron	1420		200	1	05/29/2024 17:22	WG2292931
Calcium	27900		1000	1	05/29/2024 17:22	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:22	WG2292931
Lithium	79.3		15.0	1	05/29/2024 17:22	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:22	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/29/2024 11:05	WG2294297
Arsenic	ND		2.00	1	06/29/2024 11:05	WG2294297
Cadmium	ND		1.00	1	06/29/2024 11:05	WG2294297
Cobalt	ND		2.00	1	06/29/2024 11:05	WG2294297
Lead	ND		2.00	1	06/29/2024 11:05	WG2294297
Selenium	ND		2.00	1	06/29/2024 11:05	WG2294297

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	726000		20000	1	05/23/2024 14:07	WG2291822

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	89100		1000	1	06/05/2024 19:00	WG2294784
Fluoride	1080		150	1	06/05/2024 19:00	WG2294784
Sulfate	ND		5000	1	06/05/2024 19:00	WG2294784

Mercury by Method 7470A

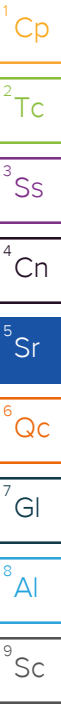
Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 14:41	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	495		5.00	1	05/29/2024 17:30	WG2292931
Boron	2210		200	1	05/29/2024 17:30	WG2292931
Calcium	23800		1000	1	05/29/2024 17:30	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:30	WG2292931
Lithium	91.2		15.0	1	05/29/2024 17:30	WG2292931
Molybdenum	5.08		5.00	1	05/29/2024 17:30	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/29/2024 11:08	WG2294297
Arsenic	ND		2.00	1	06/29/2024 11:08	WG2294297
Cadmium	ND		1.00	1	06/29/2024 11:08	WG2294297
Cobalt	ND		2.00	1	06/29/2024 11:08	WG2294297
Lead	ND		2.00	1	06/29/2024 11:08	WG2294297
Selenium	ND		2.00	1	06/29/2024 11:08	WG2294297



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	668000		13300	1	05/22/2024 20:05	WG2291291

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	38100		1000	1	06/05/2024 19:16	WG2294784
Fluoride	918		150	1	06/05/2024 19:16	WG2294784
Sulfate	ND		5000	1	06/05/2024 19:16	WG2294784

Mercury by Method 7470A

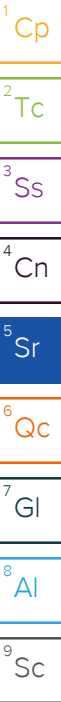
Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 14:44	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	916		5.00	1	05/29/2024 17:33	WG2292931
Boron	2370		200	1	05/29/2024 17:33	WG2292931
Calcium	28400		1000	1	05/29/2024 17:33	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:33	WG2292931
Lithium	86.9		15.0	1	05/29/2024 17:33	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:33	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/29/2024 11:11	WG2294297
Arsenic	ND		2.00	1	06/29/2024 11:11	WG2294297
Cadmium	ND		1.00	1	06/29/2024 11:11	WG2294297
Cobalt	ND		2.00	1	06/29/2024 11:11	WG2294297
Lead	ND		2.00	1	06/29/2024 11:11	WG2294297
Selenium	ND		2.00	1	06/29/2024 11:11	WG2294297



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	575000		13300	1	05/22/2024 20:05	WG2291291

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	50200	J6	1000	1	06/05/2024 19:31	WG2294784
Fluoride	722		150	1	06/05/2024 19:31	WG2294784
Sulfate	37000		5000	1	06/05/2024 19:31	WG2294784

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	05/22/2024 14:02	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	189		5.00	1	05/29/2024 17:36	WG2292931
Boron	2020		200	1	05/29/2024 17:36	WG2292931
Calcium	40200		1000	1	05/29/2024 17:36	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:36	WG2292931
Lithium	61.8		15.0	1	05/29/2024 17:36	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:36	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	06/29/2024 10:52	WG2294297
Arsenic	ND		2.00	1	06/29/2024 10:52	WG2294297
Cadmium	ND		1.00	1	06/29/2024 10:52	WG2294297
Cobalt	ND		2.00	1	06/29/2024 10:52	WG2294297
Lead	ND		2.00	1	06/29/2024 10:52	WG2294297
Selenium	ND		2.00	1	06/29/2024 10:52	WG2294297

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 ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	541000		10000	1	05/22/2024 20:05	WG2291291

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	32700		1000	1	06/05/2024 02:41	WG2294791
Fluoride	433		150	1	06/05/2024 02:41	WG2294791
Sulfate	25500		5000	1	06/05/2024 02:41	WG2294791

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	05/22/2024 14:46	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	149		5.00	1	05/29/2024 17:38	WG2292931
Boron	1560		200	1	05/29/2024 17:38	WG2292931
Calcium	66500		1000	1	05/29/2024 17:38	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:38	WG2292931
Lithium	41.0		15.0	1	05/29/2024 17:38	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:38	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	06/29/2024 11:14	WG2294297
Arsenic	ND		2.00	1	06/29/2024 11:14	WG2294297
Cadmium	ND		1.00	1	06/29/2024 11:14	WG2294297
Cobalt	ND		2.00	1	06/29/2024 11:14	WG2294297
Lead	ND		2.00	1	06/29/2024 11:14	WG2294297
Selenium	ND		2.00	1	06/29/2024 11:14	WG2294297

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2280000		50000	1	05/22/2024 20:05	WG2291291

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	497000		10000	10	06/05/2024 03:07	WG2294791
Fluoride	165		150	1	06/05/2024 02:54	WG2294791
Sulfate	711000		50000	10	06/05/2024 03:07	WG2294791

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	0.213		0.200	1	05/22/2024 14:49	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	30.2		5.00	1	05/29/2024 17:41	WG2292931
Boron	494		200	1	05/29/2024 17:41	WG2292931
Calcium	466000		1000	1	05/29/2024 17:41	WG2292931
Chromium	ND		10.0	1	05/29/2024 17:41	WG2292931
Lithium	25.3		15.0	1	05/29/2024 17:41	WG2292931
Molybdenum	ND		5.00	1	05/29/2024 17:41	WG2292931

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	06/29/2024 11:30	WG2294297
Arsenic	ND		2.00	1	06/29/2024 11:30	WG2294297
Cadmium	ND		1.00	1	06/29/2024 11:30	WG2294297
Cobalt	ND		2.00	1	06/29/2024 11:30	WG2294297
Lead	ND		2.00	1	06/29/2024 11:30	WG2294297
Selenium	ND		2.00	1	06/29/2024 11:30	WG2294297

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	1040000		20000	1	05/23/2024 16:00	WG2291851

Wet Chemistry by Method 9056A

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	39300		1000	1	06/05/2024 03:21	WG2294791
Fluoride	326		150	1	06/05/2024 03:21	WG2294791
Sulfate	71500		5000	1	06/05/2024 03:21	WG2294791

Mercury by Method 7470A

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Mercury	ND		0.200	1	05/22/2024 14:51	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Barium	58.6		5.00	1	05/30/2024 16:20	WG2292932
Boron	1300		200	1	05/30/2024 16:20	WG2292932
Calcium	22900		1000	1	05/30/2024 16:20	WG2292932
Chromium	ND		10.0	1	05/30/2024 16:20	WG2292932
Lithium	129		15.0	1	05/30/2024 16:20	WG2292932
Molybdenum	ND		5.00	1	05/30/2024 16:20	WG2292932

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Antimony	ND		4.00	1	06/29/2024 11:33	WG2294297
Arsenic	ND		2.00	1	06/29/2024 11:33	WG2294297
Cadmium	ND		1.00	1	06/29/2024 11:33	WG2294297
Cobalt	ND		2.00	1	06/29/2024 11:33	WG2294297
Lead	ND		2.00	1	06/29/2024 11:33	WG2294297
Selenium	ND		2.00	1	06/29/2024 11:33	WG2294297

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	592000		13300	1	05/22/2024 20:05	WG2291291

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	50300		1000	1	06/05/2024 03:34	WG2294791
Fluoride	629		150	1	06/05/2024 03:34	WG2294791
Sulfate	37500		5000	1	06/05/2024 03:34	WG2294791

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	05/22/2024 14:58	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	182		5.00	1	05/30/2024 16:22	WG2292932
Boron	1900		200	1	05/30/2024 16:22	WG2292932
Calcium	39800		1000	1	05/30/2024 16:22	WG2292932
Chromium	ND		10.0	1	05/30/2024 16:22	WG2292932
Lithium	62.1		15.0	1	05/30/2024 16:22	WG2292932
Molybdenum	ND		5.00	1	05/30/2024 16:22	WG2292932

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	06/29/2024 11:36	WG2294297
Arsenic	ND		2.00	1	06/29/2024 11:36	WG2294297
Cadmium	ND		1.00	1	06/29/2024 11:36	WG2294297
Cobalt	ND		2.00	1	06/29/2024 11:36	WG2294297
Lead	ND		2.00	1	06/29/2024 11:36	WG2294297
Selenium	ND		2.00	1	06/29/2024 11:36	WG2294297

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

DUPLICATE 2

Collected date/time: 05/17/24 12:55

SAMPLE RESULTS - 23

L1738104

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	560000		10000	1	05/24/2024 17:52	WG2292535

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	46000		1000	1	06/05/2024 03:48	WG2294791
Fluoride	617		150	1	06/05/2024 03:48	WG2294791
Sulfate	82600		5000	1	06/05/2024 03:48	WG2294791

Mercury by Method 7470A

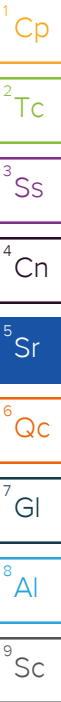
Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	05/22/2024 15:01	WG2289068

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	204		5.00	1	05/30/2024 16:23	WG2292932
Boron	839		200	1	05/30/2024 16:23	WG2292932
Calcium	41100		1000	1	05/30/2024 16:23	WG2292932
Chromium	ND		10.0	1	05/30/2024 16:23	WG2292932
Lithium	43.0		15.0	1	05/30/2024 16:23	WG2292932
Molybdenum	ND		5.00	1	05/30/2024 16:23	WG2292932

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	06/29/2024 11:39	WG2294297
Arsenic	ND		2.00	1	06/29/2024 11:39	WG2294297
Cadmium	ND		1.00	1	06/29/2024 11:39	WG2294297
Cobalt	ND		2.00	1	06/29/2024 11:39	WG2294297
Lead	ND		2.00	1	06/29/2024 11:39	WG2294297
Selenium	ND		2.00	1	06/29/2024 11:39	WG2294297



Method Blank (MB)

(MB) R4074020-1 05/22/24 20:05

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1738102-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1738102-01 05/22/24 20:05 • (DUP) R4074020-3 05/22/24 20:05

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	42000	41000	1	2.41		10

L1738104-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1738104-19 05/22/24 20:05 • (DUP) R4074020-4 05/22/24 20:05

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	541000	560000	1	3.45		10

Laboratory Control Sample (LCS)

(LCS) R4074020-2 05/22/24 20:05

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8400000	95.5	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4074074-1 05/23/24 14:07

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1737592-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1737592-02 05/23/24 14:07 • (DUP) R4074074-3 05/23/24 14:07

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	656000	692000	1	5.34		10

L1738076-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1738076-02 05/23/24 14:07 • (DUP) R4074074-4 05/23/24 14:07

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	135000	140000	1	3.64		10

Laboratory Control Sample (LCS)

(LCS) R4074074-2 05/23/24 14:07

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8410000	95.6	85.0-115	

Method Blank (MB)

(MB) R4074067-1 05/23/24 16:00

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1737559-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1737559-01 05/23/24 16:00 • (DUP) R4074067-3 05/23/24 16:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	712000	700000	1	1.70		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4074067-2 05/23/24 16:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8850000	101	85.0-115	

⁹Sc

Method Blank (MB)

(MB) R4074164-1 05/24/24 14:27

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1738077-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1738077-01 05/24/24 14:27 • (DUP) R4074164-3 05/24/24 14:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	402000	406000	1	0.990		10

L1738077-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1738077-02 05/24/24 14:27 • (DUP) R4074164-4 05/24/24 14:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	407000	410000	1	0.734		10

Laboratory Control Sample (LCS)

(LCS) R4074164-2 05/24/24 14:27

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8550000	97.2	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4074162-1 05/24/24 17:52

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1736959-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1736959-06 05/24/24 17:52 • (DUP) R4074162-3 05/24/24 17:52

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	460000	485000	1	5.29		10

L1738104-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1738104-23 05/24/24 17:52 • (DUP) R4074162-4 05/24/24 17:52

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	560000	572000	1	2.12		10

Laboratory Control Sample (LCS)

(LCS) R4074162-2 05/24/24 17:52

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8430000	95.8	85.0-115	

Method Blank (MB)

(MB) R4079508-1 06/05/24 08:53

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		379	1000
Fluoride	U		64.0	150
Sulfate	U		594	5000

L1738077-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1738077-01 06/05/24 11:50 • (DUP) R4079508-3 06/05/24 12:06

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	71500	71800	1	0.421		15
Fluoride		221	1	23.5	P1	15
Sulfate	39500	38900	1	1.53		15

L1738104-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1738104-18 06/05/24 19:31 • (DUP) R4079508-6 06/05/24 19:47

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	50200	49800	1	0.979		15
Fluoride	722	690	1	4.55		15
Sulfate	37000	35800	1	3.32		15

Laboratory Control Sample (LCS)

(LCS) R4079508-2 06/05/24 09:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	39200	98.0	80.0-120	
Fluoride	8000	8160	102	80.0-120	
Sulfate	40000	38900	97.2	80.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1738104-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738104-08 06/05/24 15:17 • (MS) R4079508-4 06/05/24 15:33 • (MSD) R4079508-5 06/05/24 15:49

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	45500	78000	78200	81.3	81.7	1	80.0-120			0.226	15
Fluoride	8000	612	8790	8740	102	102	1	80.0-120			0.601	15
Sulfate	40000	80000	105000	105000	63.4	62.9	1	80.0-120	J6	J6	0.190	15

L1738104-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738104-18 06/05/24 19:31 • (MS) R4079508-7 06/05/24 20:03 • (MSD) R4079508-8 06/05/24 20:19

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	50200	81400	81300	78.0	77.5	1	80.0-120	J6	J6	0.227	15
Fluoride	8000	722	8810	8780	101	101	1	80.0-120			0.349	15
Sulfate	40000	37000	70000	69600	82.5	81.6	1	80.0-120			0.533	15

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4080098-1 06/04/24 23:33

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		379	1000
Fluoride	U		64.0	150
Sulfate	U		594	5000

L1738133-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1738133-02 06/05/24 04:14 • (DUP) R4080098-3 06/05/24 04:28

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	1450	1350	1	6.94		15
Fluoride	313	162	1	63.6	P1	15
Sulfate	5720	5740	1	0.284		15

L1738453-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1738453-01 06/05/24 08:02 • (DUP) R4080098-5 06/05/24 08:16

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	35800	40900	10	13.2		15
Fluoride	ND	ND	10	200	P1	15

Sample Narrative:

OS: dilution due to high SO4

Laboratory Control Sample (LCS)

(LCS) R4080098-2 06/04/24 23:47

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	39700	99.1	80.0-120	
Fluoride	8000	8270	103	80.0-120	
Sulfate	40000	40200	100	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1738133-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1738133-02 06/05/24 04:14 • (MS) R4080098-4 06/05/24 04:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	1450	41200	99.3	1	80.0-120	
Fluoride	8000	313	8700	105	1	80.0-120	
Sulfate	40000	5720	45300	98.8	1	80.0-120	

L1738453-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738453-01 06/05/24 08:02 • (MS) R4080098-6 06/05/24 08:29 • (MSD) R4080098-7 06/05/24 08:42

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	35800	75400	74600	98.8	96.8	10	80.0-120			1.08	15
Fluoride	8000	ND	ND	ND	0.000	0.000	10	80.0-120	J6	J6	0.000	15

Sample Narrative:

OS: dilution due to high SO4

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4080683-1 06/11/24 09:22

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		379	1000
Fluoride	U		64.0	150

L1737892-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1737892-01 06/11/24 18:22 • (DUP) R4080683-3 06/11/24 18:36

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Fluoride	922	888	1	3.69		15

L1742956-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1742956-02 06/12/24 15:49 • (DUP) R4081096-1 06/12/24 16:02

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	19800	19800	1	0.00907		15
Fluoride	ND	ND	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R4080683-2 06/11/24 09:36

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	38700	96.6	80.0-120	
Fluoride	8000	8020	100	80.0-120	

L1737892-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1737892-01 06/11/24 18:22 • (MS) R4080683-4 06/11/24 18:49 • (MSD) R4080683-5 06/11/24 19:02

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Fluoride	8000	922	7870	8040	86.8	89.0	1	80.0-120			2.14	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1742956-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1742956-02 06/12/24 15:49 • (MS) R4081096-2 06/12/24 16:15 • (MSD) R4081096-3 06/12/24 17:08

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40000	19800	54900	55800	87.7	89.8	1	80.0-120			1.46	15
Fluoride	8000	ND	8090	8220	101	103	1	80.0-120			1.67	15

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4072167-1 05/21/24 11:14

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Mercury	U		0.100	0.200

Laboratory Control Sample (LCS)

(LCS) R4072167-2 05/21/24 11:16

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Mercury	3.00	3.25	108	80.0-120	

L1737949-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1737949-01 05/21/24 11:23 • (MS) R4072167-4 05/21/24 11:28 • (MSD) R4072167-5 05/21/24 11:30

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	ND	3.24	3.18	108	106	1	75.0-125			1.85	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4072810-1 05/22/24 13:31

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Mercury	U		0.100	0.200

Laboratory Control Sample (LCS)

(LCS) R4072810-2 05/22/24 13:33

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Mercury	3.00	2.95	98.4	80.0-120	

L1738104-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738104-08 05/22/24 13:47 • (MS) R4072810-4 05/22/24 13:52 • (MSD) R4072810-5 05/22/24 13:59

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	ND	3.11	3.16	104	105	1	75.0-125			1.65	20

L1738104-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738104-18 05/22/24 14:02 • (MS) R4072810-6 05/22/24 14:04 • (MSD) R4072810-7 05/22/24 14:07

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	ND	3.15	3.19	105	106	1	75.0-125			1.49	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4075154-1 05/29/24 16:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Barium	U		0.736	5.00
Boron	U		20.0	200
Calcium	U		79.3	1000
Chromium	U		1.40	10.0
Lithium	U		4.85	15.0
Molybdenum	U		1.16	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4075154-2 05/29/24 16:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	1010	101	80.0-120	
Boron	1000	982	98.2	80.0-120	
Calcium	10000	9740	97.4	80.0-120	
Chromium	1000	992	99.2	80.0-120	
Lithium	1000	996	99.6	80.0-120	
Molybdenum	1000	1010	101	80.0-120	

L1738104-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738104-08 05/29/24 16:27 • (MS) R4075154-4 05/29/24 16:33 • (MSD) R4075154-5 05/29/24 16:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	211	1200	1190	98.8	97.9	1	75.0-125			0.760	20
Boron	1000	902	1860	1870	96.2	96.3	1	75.0-125			0.0499	20
Calcium	10000	42100	51100	50800	90.6	87.5	1	75.0-125			0.610	20
Chromium	1000	ND	984	976	98.4	97.6	1	75.0-125			0.881	20
Lithium	1000	43.8	1040	1030	99.5	98.2	1	75.0-125			1.21	20
Molybdenum	1000	ND	1010	998	101	99.6	1	75.0-125			1.12	20

Method Blank (MB)

(MB) R4075599-1 05/30/24 16:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Barium	U		0.736	5.00
Boron	U		20.0	200
Calcium	U		79.3	1000
Chromium	U		1.40	10.0
Lithium	U		4.85	15.0
Molybdenum	U		1.16	5.00

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Laboratory Control Sample (LCS)

(LCS) R4075599-2 05/30/24 16:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	1000	100	80.0-120	
Boron	1000	938	93.8	80.0-120	
Calcium	10000	9740	97.4	80.0-120	
Chromium	1000	1010	101	80.0-120	
Lithium	1000	968	96.8	80.0-120	
Molybdenum	1000	993	99.3	80.0-120	

L1738105-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738105-05 05/30/24 16:13 • (MS) R4075599-4 05/30/24 16:17 • (MSD) R4075599-5 05/30/24 16:18

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	ND	1000	1000	99.8	100	1	75.0-125			0.289	20
Boron	1000	ND	952	952	95.2	95.2	1	75.0-125			0.0727	20
Calcium	10000	7210	16800	17000	96.2	97.7	1	75.0-125			0.893	20
Chromium	1000	ND	1010	1020	101	102	1	75.0-125			1.09	20
Lithium	1000	ND	971	986	95.8	97.3	1	75.0-125			1.60	20

Method Blank (MB)

(MB) R4087995-1 06/28/24 11:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	U		1.03	4.00
Arsenic	U		0.180	2.00
Cadmium	U		0.150	1.00
Cobalt	U		0.0596	2.00
Lead	U		0.849	2.00
Selenium	U		0.300	2.00

Laboratory Control Sample (LCS)

(LCS) R4087995-4 06/28/24 12:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	48.4	96.9	80.0-120	
Arsenic	50.0	51.6	103	80.0-120	
Cadmium	50.0	54.6	109	80.0-120	
Cobalt	50.0	54.2	108	80.0-120	
Lead	50.0	48.6	97.2	80.0-120	
Selenium	50.0	49.2	98.4	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4080979-1 06/12/24 23:11

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	U		1.03	4.00
Arsenic	U		0.180	2.00
Cadmium	U		0.150	1.00
Cobalt	U		0.0596	2.00
Lead	U		0.849	2.00
Selenium	U		0.300	2.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4080979-2 06/12/24 23:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	54.5	109	80.0-120	
Arsenic	50.0	51.5	103	80.0-120	
Cadmium	50.0	53.2	106	80.0-120	
Cobalt	50.0	52.8	106	80.0-120	
Lead	50.0	49.4	98.9	80.0-120	
Selenium	50.0	49.4	98.7	80.0-120	

L1738104-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738104-08 06/12/24 23:18 • (MS) R4080979-4 06/12/24 23:25 • (MSD) R4080979-5 06/12/24 23:28

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	ND	58.8	60.2	118	120	1	75.0-125			2.42	20
Arsenic	50.0	ND	50.1	51.8	98.4	102	1	75.0-125			3.29	20
Cadmium	50.0	ND	50.6	52.3	101	105	1	75.0-125			3.32	20
Cobalt	50.0	ND	49.5	50.2	98.6	100	1	75.0-125			1.40	20
Lead	50.0	ND	49.7	46.8	99.5	93.6	1	75.0-125			6.05	20
Selenium	50.0	ND	48.5	49.9	96.9	99.8	1	75.0-125			2.88	20

Method Blank (MB)

(MB) R4088137-1 06/29/24 10:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	U		1.03	4.00
Arsenic	U		0.180	2.00
Cadmium	U		0.150	1.00
Cobalt	U		0.0596	2.00
Lead	U		0.849	2.00
Selenium	U		0.300	2.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4088137-2 06/29/24 10:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	56.7	113	80.0-120	
Arsenic	50.0	56.8	114	80.0-120	
Cadmium	50.0	55.0	110	80.0-120	
Cobalt	50.0	58.4	117	80.0-120	
Lead	50.0	56.9	114	80.0-120	
Selenium	50.0	55.2	110	80.0-120	

L1738104-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738104-18 06/29/24 10:52 • (MS) R4088137-4 06/29/24 10:58 • (MSD) R4088137-5 06/29/24 11:01

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	ND	56.5	57.7	113	115	1	75.0-125			2.12	20
Arsenic	50.0	ND	54.8	55.1	109	109	1	75.0-125			0.602	20
Cadmium	50.0	ND	52.4	52.3	105	105	1	75.0-125			0.0802	20
Cobalt	50.0	ND	54.4	54.8	108	109	1	75.0-125			0.678	20
Lead	50.0	ND	56.3	56.1	113	112	1	75.0-125			0.355	20
Selenium	50.0	ND	54.0	52.8	108	106	1	75.0-125			2.37	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

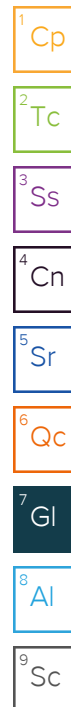
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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
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.



ACCREDITATIONS & LOCATIONS

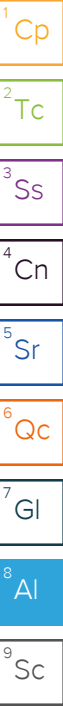
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SCS Engineers - KS

8575 West 110th Street
Suite 100
Overland Park, KS 66210

Report to:
Jason Franks

Project Description:
Evergy La Cygne Gen Station GW 2024

City/State
Collected: LaCygne, KS

Please Circle:
PT MT ET

Phone: 913-681-0030

Client Project #
27224503.00 - A

Lab Project #
AQUAOPKS-LACYGNE

Collected by (print):

Whit Martin

Site/Facility ID #

P.O. #

Collected by (signature):

Whit Martin

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

No.
of
Cntrs

Sample ID Comp/Grab Matrix * Depth Date Time

MW-6	Grab	GW		5/17/24	1200	3
MW-7	Grab	GW		5/17/24	1115	3
MW-13	Grab	GW		5/17/24	1055	3
MW-14R	Grab	GW		5/17/24	1345	3
MW-15	Grab	GW		5/17/24	1255	3
MW-601	Grab	GW		5/17/24	1020	3
MW-602	Grab	GW		5/17/24	1125	3
MW-701	Grab	GW		5/17/24	1255	3
MW-702	Grab	GW		5/17/24	0930	3
MW-703	Grab	GW		5/17/24	0955	3

* Matrix:

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

Remarks: Metals - (6010) B,Ca,Ba,Cr,Li,Mo (6020) As,Sb,Cd,Co,Pb,Se (7470) Hg.

Samples returned via:
___ UPS ___ FedEx ___ Courier

Tracking #

7411 4520 2521

Relinquished by: (Signature)

Whit Martin

Date:

5/17/24

Time:

1615

Received by: (Signature)

Received by: (Signature)

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Relinquished by: (Signature)

Date:

Time:

Ei [Signature] 17 5-18-24 900

pH _____ Temp _____

Flow _____ Other _____

Trip Blank Received: Yes No

HCL / MeOH

TBR

Temp: EDAC Bottles Received: 39+0.1=40 75

Date: _____ Time: _____

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

If preservation required by Login: Date/Time

PH-10BDH5021 TRC-2352362
CR6-20221V

Condition:
NCF OK

Pres
Chk

Chloride, F, SO4 125mlHDPE-NoPres

Metals 250mlHDPE-HNO3

TDS 1L-HDPE NoPres

Analysis / Container / Preservative

Chain of Custody Page 1 of 3



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>

L123000
K129

Acctnum: AQUAOPKS

Template: T252583

Prelogin: P1074565

PM: 206 - Jeff Carr

PB: 5-8-2024 6m

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

01
02
03
04
05
06
07
08
09
10

SCS Engineers - KS

8575 West 110th Street
Suite 100
Overland Park, KS 66210

Report to:
Jason Franks

Project Description:
Everbay La Cygne Gen Station GW 2024

Phone: 913-681-0030

Client Project #
27224503.00 - A

Lab Project #
AQUAOPKS-LACYGNE

Collected by (print):
Whit Martin

Site/Facility ID #

P.O. #

Collected by (signature):
Whit Martin

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

No.
of
Cntrs

Immediately
Packed on Ice N ___ Y X

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	
MW-704	Grab	GW		5/17/24	1205	3
MW-705	Grab	GW		5/17/24	1025	3
MW-706	Grab	GW		5/17/24	1025	3
MW-707B	Grab	GW		5/16/24	1455	3
MW-708	Grab	GW		5/16/24	1410	3
MW-801	Grab	GW		5/16/24	1310	3
MW-802	Grab	GW		5/15/24	1645	3
MW-803	Grab	GW		5/15/24	1555	3
MW-804	Grab	GW		5/15/24	1515	3
MW-805	Grab	GW		5/15/24	1430	3

* Matrix:

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

Remarks: Metals - (6010) B,Ca,Ba,Cr,Li,Mo (6020) As,Sb,Cd,Co,Pb,Se (7470) Hg.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

___ UPS ___ FedEx ___ Courier

Tracking #

7411 4520 2521

Relinquished by : (Signature)

Date:

5/17/24

Time:

1615

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by : (Signature)

Date:

Time:

Received by: (Signature)

Temp: EDAC Bottles Received: 75

Relinquished by : (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 2 of 3



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 #

473810

Table #

Acctnum: AQUAOPKS

Template: T252583

Prelogin: P1074565

PM: 206 - Jeff Carr

PB: 5-8-2024

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

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

If preservation required by Login: Date/Time

SCS Engineers - KS

8575 West 110th Street
Suite 100
Overland Park, KS 66210

Report to:
Jason Franks

Project Description:
Evergry La Cygne Gen Station GW 2024

Phone: 913-681-0030

Client Project #
27224503.00 - A

Lab Project #
AQUAOPKS-LACYGNE

Collected by (print):
Whit Martin

Site/Facility ID #

P.O. #

Collected by (signature):
Whit Martin

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

No.
of
Cntrs

Immediately
Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

TW-1

803 MS/MSD

701 MS/MSD

DUPLICATE 1

DUPLICATE 2

* Matrix:

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

Remarks: Metals - (6010) B,Ca,Ba,Cr,Li,Mo (6020) As,Sb,Cd,Co,Pb,Se (7470) Hg.

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking #

7411 4520 2521

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date:

5/17/24

Time:

1615

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Trip Blank Received: Yes ☒ No

HCL / MeOH
TBR

Temp: 6.9 ± 0.1 °C

Bottles Received:

3.9 ± 0.1 ± 0.75

Date: 5-18-24 Time: 900

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ Y ☐ 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

If preservation required by Login: Date/Time

Hold:

Condition:
NCF / OK

Accounts Payable
8575 W. 110th Street
Suite 100
Overland Park, KS 66210

Email To:
jfranks@scsengineers.com;jrockhold@scsengine

City/State

Collected: La Cygne, KS

Please Circle:
PT MT ☒ ET

Pres
Chk

Chloride, F, SO4 125mlHDPE-NoPres

Metals 250mlHDPE-HNO3

TDS 1L-HDPE NoPres

Analysis / Container / Preservative

Chain of Custody Page 3 of 3



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 #

Table #

Acctnum: AQUAOPKS

Template: T252583

Prelogin: P1074565

PM: 206 - Jeff Carr

PB: 5-8-2024

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

-21

-22
-23

SCS Engineers - KS

Sample Delivery Group: L1738113
Samples Received: 05/18/2024
Project Number: 27217233.24 - A
Description: Evergy La Cygne Gen Station GW 2024

Report To: Jason Franks
8575 West 110th Street
Suite 100
Overland Park, KS 66210

Entire Report Reviewed By:



John Hawkins
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 mydata.pacelabs.com

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

SAMPLE SUMMARY

MW-6 L1738113-01 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 12:00 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297260	1	06/03/24 15:46	06/05/24 18:27	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/05/24 19:02	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-7 L1738113-02 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 11:15 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297260	1	06/03/24 15:46	06/05/24 18:27	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/05/24 19:02	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

MW-13 L1738113-03 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 10:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297260	1	06/03/24 15:46	06/05/24 18:27	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/05/24 19:02	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

MW-14R L1738113-04 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 13:45 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297260	1	06/03/24 15:46	06/05/24 18:27	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/05/24 19:02	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

MW-15 L1738113-05 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 12:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

MW-601 L1738113-06 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 10:20 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-602 L1738113-07 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 11:25 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-701 L1738113-08 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 12:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297260	1	06/03/24 15:46	06/05/24 18:27	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/05/24 19:02	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

MW-702 L1738113-09 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 09:30 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

MW-703 L1738113-10 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 09:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

MW-704 L1738113-11 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 12:05 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

MW-705 L1738113-12 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 10:25 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-707B L1738113-13 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/16/24 14:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-708 L1738113-14 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/16/24 14:10 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

MW-801 L1738113-15 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/16/24 13:10 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

MW-802 L1738113-16 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/15/24 16:45 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2297653	1	06/04/24 10:29	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2297653	1	06/04/24 10:29	06/05/24 19:02	ZRG	Mt. Juliet, TN

MW-803 L1738113-17 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/15/24 15:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2298855	1	06/05/24 15:02	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2298855	1	06/05/24 15:02	06/06/24 20:13	ZRG	Mt. Juliet, TN

MW-804 L1738113-18 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/15/24 15:15 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2298855	1	06/05/24 15:02	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2298855	1	06/05/24 15:02	06/06/24 20:13	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-805 L1738113-19 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/15/24 14:30 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2298855	1	06/05/24 15:02	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2298855	1	06/05/24 15:02	06/06/24 20:13	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

TW-1 L1738113-20 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/15/24 15:40 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2298855	1	06/05/24 15:02	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2298855	1	06/05/24 15:02	06/06/24 20:13	ZRG	Mt. Juliet, TN

DUPLICATE 1 L1738113-21 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/15/24 15:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2298855	1	06/05/24 15:02	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2298855	1	06/05/24 15:02	06/06/24 20:13	ZRG	Mt. Juliet, TN

DUPLICATE 2 L1738113-22 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 12:55 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2298855	1	06/05/24 15:02	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2298855	1	06/05/24 15:02	06/06/24 20:13	ZRG	Mt. Juliet, TN

MW-706 L1738113-23 Non-Potable Water

Collected by
Collected date/time
Received date/time

05/17/24 09:40 05/18/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2297741	1	06/03/24 17:20	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2298855	1	06/05/24 15:02	06/11/24 22:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2298855	1	06/05/24 15:02	06/06/24 20:13	ZRG	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.



John Hawkins
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.632		0.191	0.290	0.333	0.177	06/05/2024 18:27	WG2297260
(T) Barium	102					30.0-143	06/05/2024 18:27	WG2297260
(T) Yttrium	102					30.0-136	06/05/2024 18:27	WG2297260

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.812		0.291	0.454	06/05/2024 19:02	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.179	J	0.220	0.0985	0.308	0.215	06/05/2024 19:02	WG2297653
(T) Barium-133	95.9					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.681		0.194	0.293	0.337	0.179	06/05/2024 18:27	WG2297260
(T) Barium	121					30.0-143	06/05/2024 18:27	WG2297260
(T) Yttrium	101					30.0-136	06/05/2024 18:27	WG2297260

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.20		0.378	0.462	06/05/2024 19:02	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.518		0.324	0.145	0.316	0.221	06/05/2024 19:02	WG2297653
(T) Barium-133	91.0					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.196	U	0.279	0.380	0.511	0.267	06/05/2024 18:27	WG2297260
(T) Barium	111					30.0-143	06/05/2024 18:27	WG2297260
(T) Yttrium	96.2					30.0-136	06/05/2024 18:27	WG2297260

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.660		0.426	0.612	06/05/2024 19:02	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.464		0.322	0.138	0.337	0.236	06/05/2024 19:02	WG2297653
(T) Barium-133	87.2					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.260	J	0.219	0.319	0.399	0.210	06/05/2024 18:27	WG2297260
(T) Barium	97.8					30.0-143	06/05/2024 18:27	WG2297260
(T) Yttrium	103					30.0-136	06/05/2024 18:27	WG2297260

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.605		0.320	0.438	06/05/2024 19:02	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.345		0.233	0.104	0.181	0.149	06/05/2024 19:02	WG2297653
(T) Barium-133	87.4					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.861		0.354	0.468	0.622	0.325	06/11/2024 22:01	WG2297741
(T) Barium	83.4					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	90.1					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.10		0.401	0.650	06/11/2024 22:01	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.235		0.189	0.0842	0.188	0.147	06/05/2024 19:02	WG2297653
(T) Barium-133	88.6					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.389	J	0.437	0.567	0.787	0.411	06/11/2024 22:01	WG2297741
(T) Barium	68.1					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	88.1					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.606	J	0.474	0.806	06/11/2024 22:01	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.217		0.183	0.0842	0.173	0.143	06/05/2024 19:02	WG2297653
(T) Barium-133	90.9					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.835		0.353	0.463	0.621	0.323	06/11/2024 22:01	WG2297741
(T) Barium	82.2					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	102					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.914		0.379	0.661	06/11/2024 22:01	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0798	U	0.139	0.0594	0.226	0.167	06/05/2024 19:02	WG2297653
(T) Barium-133	92.1					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.17		0.349	0.448	0.611	0.320	06/05/2024 18:27	WG2297260
(T) Barium	99.8					30.0-143	06/05/2024 18:27	WG2297260
(T) Yttrium	109					30.0-136	06/05/2024 18:27	WG2297260

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.77		0.462	0.647	06/05/2024 19:02	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.605		0.303	0.143	0.214	0.162	06/05/2024 19:02	WG2297653
(T) Barium-133	92.3					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.79		0.480	0.619	0.827	0.431	06/11/2024 22:01	WG2297741
(T) Barium	58.1					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	107					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.73		0.611	0.835	06/11/2024 22:01	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.945		0.378	0.171	0.118	0.118	06/05/2024 19:02	WG2297653
(T) Barium-133	86.8					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.652		0.290	0.395	0.512	0.268	06/11/2024 22:01	WG2297741
(T) Barium	94.4					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	95.0					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.87		0.514	0.525	06/11/2024 22:01	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.22		0.424	0.193	0.115	0.115	06/05/2024 19:02	WG2297653
(T) Barium-133	86.8					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.861		0.319	0.429	0.559	0.292	06/11/2024 22:01	WG2297741
(T) Barium	98.0					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	83.5					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.07		0.365	0.584	06/11/2024 22:01	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.212		0.178	0.0823	0.169	0.139	06/05/2024 19:02	WG2297653
(T) Barium-133	91.2					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.499	J	0.298	0.407	0.532	0.278	06/11/2024 22:01	WG2297741
(T) Barium	91.9					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	90.4					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.796		0.372	0.570	06/11/2024 22:01	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.297		0.222	0.0958	0.206	0.162	06/05/2024 19:02	WG2297653
(T) Barium-133	85.7					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.361	J	0.245	0.356	0.441	0.233	06/11/2024 22:01	WG2297741
(T) Barium	81.8					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	108					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.730		0.350	0.496	06/11/2024 22:01	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.369		0.250	0.120	0.227	0.173	06/05/2024 19:02	WG2297653
(T) Barium-133	95.7					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0408	U	0.362	0.476	0.659	0.343	06/11/2024 22:01	WG2297741
(T) Barium	80.3					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	97.3					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.408	J	0.439	0.686	06/11/2024 22:01	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.367		0.248	0.117	0.192	0.159	06/05/2024 19:02	WG2297653
(T) Barium-133	92.4					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.391	J	0.232	0.332	0.414	0.218	06/11/2024 22:01	WG2297741
(T) Barium	105					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	97.7					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.698		0.347	0.505	06/11/2024 22:01	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.307		0.258	0.113	0.290	0.211	06/05/2024 19:02	WG2297653
(T) Barium-133	89.2					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.654		0.335	0.445	0.594	0.311	06/11/2024 22:01	WG2297741
(T) Barium	87.5					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	92.7					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.978		0.427	0.674	06/11/2024 22:01	WG2297653

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.324		0.265	0.121	0.318	0.212	06/05/2024 19:02	WG2297653
(T) Barium-133	96.5					30.0-143	06/05/2024 19:02	WG2297653

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.00		0.268	0.369	0.462	0.242	06/11/2024 22:01	WG2297741
(T) Barium	96.7					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	107					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.74		0.513	0.658	06/11/2024 22:01	WG2298855

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.735		0.437	0.161	0.468	0.301	06/06/2024 20:13	WG2298855
(T) Barium-133	76.7					30.0-143	06/06/2024 20:13	WG2298855

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.86		0.481	0.628	0.826	0.433	06/11/2024 22:01	WG2297741
(T) Barium	55.3					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	94.3					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.81		0.731	0.857	06/11/2024 22:01	WG2298855

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.95		0.551	0.247	0.229	0.174	06/06/2024 20:13	WG2298855
(T) Barium-133	82.8					30.0-143	06/06/2024 20:13	WG2298855

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0559	U	0.254	0.366	0.470	0.248	06/11/2024 22:01	WG2297741
(T) Barium	80.1					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	107					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.721		0.447	0.593	06/11/2024 22:01	WG2298855

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.665		0.368	0.175	0.362	0.240	06/06/2024 20:13	WG2298855
(T) Barium-133	97.4					30.0-143	06/06/2024 20:13	WG2298855

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.49		0.243	0.349	0.394	0.209	06/11/2024 22:01	WG2297741
(T) Barium	89.6					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	98.4					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.79		0.529	0.498	06/11/2024 22:01	WG2298855

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.30		0.470	0.221	0.304	0.212	06/06/2024 20:13	WG2298855
(T) Barium-133	89.4					30.0-143	06/06/2024 20:13	WG2298855

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.813		0.254	0.368	0.439	0.233	06/11/2024 22:01	WG2297741
(T) Barium	89.4					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	84.2					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.20		0.386	0.547	06/11/2024 22:01	WG2298855

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.384		0.290	0.115	0.327	0.223	06/06/2024 20:13	WG2298855
(T) Barium-133	82.3					30.0-143	06/06/2024 20:13	WG2298855

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.64		0.290	0.393	0.482	0.253	06/11/2024 22:01	WG2297741
(T) Barium	94.5					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	97.5					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.34		0.422	0.514	06/11/2024 22:01	WG2298855

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.696		0.306	0.147	0.178	0.140	06/06/2024 20:13	WG2298855
(T) Barium-133	92.9					30.0-143	06/06/2024 20:13	WG2298855

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.577	J	0.331	0.434	0.591	0.312	06/11/2024 22:01	WG2297741
(T) Barium	97.7					30.0-143	06/11/2024 22:01	WG2297741
(T) Yttrium	93.3					30.0-136	06/11/2024 22:01	WG2297741

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.97		0.576	0.636	06/11/2024 22:01	WG2298855

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.39		0.472	0.218	0.234	0.178	06/06/2024 20:13	WG2298855
(T) Barium-133	87.9					30.0-143	06/06/2024 20:13	WG2298855

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4078400-1 06/05/24 18:27

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.0499	<u>U</u>	0.163	0.304	0.160
(T) Barium	114		114		
(T) Yttrium	88.7		88.7		

L1737754-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1737754-05 06/05/24 18:27 • (DUP) R4078400-5 06/05/24 18:27

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	0.760	0.423	0.762	0.398	0.359	0.370	0.676	0.352	71.6	0.713	<u>J</u>	20	3
(T) Barium	91.7				110	110							
(T) Yttrium	92.2				103	103							

Laboratory Control Sample (LCS)

(LCS) R4078400-2 06/05/24 18:27

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.48	89.6	80.0-120	
(T) Barium			115		
(T) Yttrium			103		

L1738113-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738113-08 06/05/24 18:27 • (MS) R4078400-3 06/05/24 18:27 • (MSD) R4078400-4 06/05/24 18:27

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	1.17	17.7	16.6	98.7	92.6	1	70.0-130			5.95		20
(T) Barium		99.8			112	113							
(T) Yttrium		109			98.4	107							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4081584-1 06/11/24 22:01

	MB Result	MB Qualifier	MB 2 sigma CE	MB MDA	MB Lc
Analyte	pCi/l		+ / -	pCi/l	pCi/l
Radium-228	0.412		0.161	0.282	0.149
(T) Barium	92.1		92.1		
(T) Yttrium	96.6		96.6		

L1738113-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1738113-23 06/11/24 22:01 • (DUP) R4081584-5 06/11/24 22:01

	Original Result	Original 2 sigma CE	Original MDA	Original Lc	DUP Result	DUP 2 sigma CE	DUP MDA	DUP Lc	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
Analyte	pCi/l	+ / -	pCi/l	pCi/l	pCi/l	+ / -	pCi/l	pCi/l	%			%	
Radium-228	0.577	0.331	0.591	0.312	-0.253	0.621	1.14	0.596	200	1.18	U	20	3
(T) Barium	97.7				108	108							
(T) Yttrium	93.3				113	113							

Laboratory Control Sample (LCS)

(LCS) R4081584-2 06/11/24 22:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	pCi/l	pCi/l	%	%	
Radium-228	5.00	4.50	89.9	80.0-120	
(T) Barium			96.5		
(T) Yttrium			94.8		

L1738113-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738113-17 06/11/24 22:01 • (MS) R4081584-3 06/11/24 22:01 • (MSD) R4081584-4 06/11/24 22:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
Analyte	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-228	16.7	1.00	16.8	16.9	94.4	95.4	1	70.0-130			1.01		20
(T) Barium		96.7			95.7	99.3							
(T) Yttrium		107			97.5	96.2							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4078227-1 06/05/24 19:01

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0624	⬇	0.0769	0.107	0.0706
(T) Barium-133	87.2		87.2		

L1737007-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1737007-10 06/05/24 19:01 • (DUP) R4078227-5 06/05/24 19:01

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	-0.0371	0.199	0.419	0.279	0.0413	0.271	0.487	0.322	200	0.233	⬇	20	3
(T) Barium-133	84.2				75.7	75.7							

Laboratory Control Sample (LCS)

(LCS) R4078227-2 06/05/24 19:01

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.54	111	80.0-120	
(T) Barium-133			78.4		

L1738113-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738113-08 06/05/24 19:02 • (MS) R4078227-3 06/05/24 19:01 • (MSD) R4078227-4 06/05/24 19:01

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	0.605	19.1	17.1	92.3	82.7	1	75.0-125			10.6		20
(T) Barium-133		92.3			85.7	91.9							

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4078678-1 06/06/24 20:13

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0761	⬇	0.0794	0.105	0.0703
(T) Barium-133	73.0		73.0		

L1738113-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1738113-23 06/06/24 20:13 • (DUP) R4078678-5 06/06/24 20:13

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	1.39	0.472	0.234	0.178	0.332	0.219	0.183	0.143	123	2.03		20	3
(T) Barium-133	87.9				87.0	87.0							

Laboratory Control Sample (LCS)

(LCS) R4078678-2 06/06/24 20:13

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.07	101	80.0-120	
(T) Barium-133			72.5		

L1738113-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738113-17 06/06/24 20:13 • (MS) R4078678-3 06/06/24 20:13 • (MSD) R4078678-4 06/06/24 20:13

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	0.735	19.7	19.7	95.0	94.8	1	75.0-125			0.254		20
(T) Barium-133		76.7			76.4	66.6							

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

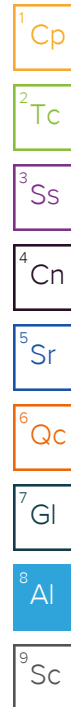
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SCS Engineers - KS

8575 West 110th Street
Suite 100
Overland Park, KS 66210

Report to:
Jason Franks

Project Description:
Energy La Cygne Gen Station GW 2024

Phone: 913-681-0030

Client Project #
27217233.24 - A

Lab Project #
AQUAOPKS-LACYGNE

Collected by (print):
Whit Martin

Site/Facility ID #

P.O. #

Collected by (signature):

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

No.
of
Cntrs

Immediately
Packed on Ice N ___ Y X

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time															
MW-6	Grab	NPW		5/17/24	1200	2	X	X												
MW-7	Grab	NPW		5/17/24	1115	2	X	X												
MW-13	Grab	NPW		5/17/24	1055	2	X	X												
MW-14R	Grab	NPW		5/17/24	1345	2	X	X												
MW-15	Grab	NPW		5/17/24	1255	2	X	X												
MW-601	Grab	NPW		5/17/24	1020	2	X	X												
MW-602	Grab	NPW		5/17/24	1125	2	X	X												
MW-701	Grab	NPW		5/17/24	1255	2	X	X												
MW-702	Grab	NPW		5/17/24	0930	2	X	X												
MW-703	Grab	NPW		5/17/24	0955	2	X	X												

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
___ UPS ___ FedEx ___ Courier

Tracking #

7315 3189 2210

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / NO

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp EDAGC Bottles Received:

21.2+0.1=21.3 50

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Pres
Chk

RA-226 1L-HDPE-Add-HNO3

RA-228 1L-HDPE-Add-HNO3

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/docs/MSL-standard-terms.pdf>

K130

Acctnum: AQUAOPKS

Template: T249867

Prelogin: P1074490

PM: 206 - Jeff Carr

PB: 5/18/24 Cam

Shipped Via: FedEX Ground

Remarks Sample # (lab only)

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 vol: Y N

VOA Zero Head
Preservation
RAD Screen <0

PH-10BDH5021
CR6-20221V

SCS Engineers - KS

8575 West 110th Street
Suite 100
Overland Park, KS 66210

Report to:
Jason Franks

Project Description:
Evergry La Cygne Gen Station GW 2024

Phone: **913-681-0030**

Client Project #
27217233.24 - A

Lab Project #
AQUAOPKS-LACYGNE

Collected by (print):
Whit Martin

Site/Facility ID #

P.O. #

Collected by (signature):

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

No.
of
Cntrs

Immediately
Packed on Ice N ☐ Y ☒

Std

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time
-----------	-----------	----------	-------	------	------

MW-704	Grab	NPW		5/17/24	1205
MW-705	Grab	NPW		5/17/24	1025
MW-707B	Grab	NPW		5/16/24	1455
MW-708	Grab	NPW		5/16/24	1410
MW-801	Grab	NPW		5/16/24	1310
MW-802	Grab	NPW		5/15/24	1645
MW-803	Grab	NPW		5/15/24	1555
MW-804	Grab	NPW		5/15/24	1515
MW-805	Grab	NPW		5/15/24	1430
TW-1	Grab	NPW		5/16/24	1540

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

Remarks:

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier _____

Tracking #

7315 3189 2210

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes ☒ No ☐

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp **EDAB 21.2 ± 0.1 = 21.3 50**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: **17 5-18-24** Time: **900**

Hold:

Condition:

NCF ☒ OK

Billing information:

Accounts Payable
8575 W. 110th Street
Suite 100
Overland Park, KS 66210

Email To:

jfranks@scsengineers.com; jrockhold@scsengine

Please Circle:
PT MT ☒ ET

Analysis / Container / Preservative

Pres
Chk

27

27

RA-226 1L-HDPE-Add-HNO3

RA-228 1L-HDPE-Add-HNO3

Chain of Custody Page **2** of **3**



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 #

U1238113

Table #

Acctnum: **AQUAOPKS**

Template: **T249867**

Prelogin: **P1074490**

PM: **206 - Jeff Carr**

PB: **5/18/24 cam**

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

-11
 -12
 -13
 -14
 -15
 -16
 -17
 -18
 -19
 -20

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

SCS Engineers - KS

8575 West 110th Street
Suite 100
Overland Park, KS 66210

Report to:
Jason Franks

Project Description:
Every La Cygne Gen Station GW 2024

Phone: 913-681-0030

Client Project #
27217233.24 - A

Lab Project #
AQUAOPKS-LACYGNE

Collected by (print):

Whit Martin

Site/Facility ID #

P.O. #

Collected by (signature):

Whit Martin

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

Immediately
Packed on Ice N ☐ Y ☒

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

DUPLICATE 1

Grab

NPW

5/15/24

1555

2

X

X

DUPLICATE 2

Grab

NPW

5/17/24

1255

2

X

X

803 MS/MSD

Grab

NPW

5/15/24

1555

2

X

X

701 MS/MSD

Grab

NPW

5/17/24

1255

2

X

X

MW-706

Grab

NPW

5/17/24

0940

2

X

X

* Matrix:

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

7315 3189 2210

Relinquished by: (Signature)

Whit Martin

Date:

5/17/24

Time:

1615

Received by: (Signature)

Trip Blank Received: Yes ☒ No ☐

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: EDAG 6°C Bottles Received: 21.2+0.1=21.3 50

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 5-18-24 Time: 900

Hold:

Condition:

NCF / OK

Accounts Payable
8575 W. 110th Street
Suite 100
Overland Park, KS 66210

Pres
Chk

27

27

RA-226 1L-HDPE-Add-HNO3

RA-228 1L-HDPE-Add-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/hubfs/pas-standard-terms.pdf>

SDG #

61236113

Table #

Acctnum: AQUAOPKS

Template: T249867

Prelogin: P1074490

PM: 206 - Jeff Carr

PB: 5/18/24 AM

Shipped Via: FedEX Ground

Remarks Sample # (lab only)

-21

-22

-23

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

If preservation required by Login: Date/Time

SCS Engineers - KS

Sample Delivery Group: L1804441
Samples Received: 11/27/2024
Project Number: 27224503.00 - A
Description: Evergy La Cygne Gen Station GW 2024

Report To: Jason Franks
8575 West 110th Street
Suite 100
Overland Park, KS 66210

Entire Report Reviewed By:



Jeff Carr
Project Manager

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

Pace Analytical National

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

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

SAMPLE SUMMARY

MW-6 L1804441-01 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 15:55
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	11/30/24 20:53	11/30/24 20:53	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	5	11/30/24 21:07	11/30/24 21:07	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2409921	1	12/05/24 15:16	12/06/24 13:31	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:00	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 22:34	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:01	SJM	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-7 L1804441-02 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 15:05
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	11/30/24 21:20	11/30/24 21:20	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2409921	1	12/05/24 15:16	12/06/24 13:33	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:05	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 22:39	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:04	SJM	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-13 L1804441-03 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 14:10
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	11/30/24 21:47	11/30/24 21:47	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	20	12/05/24 16:21	12/05/24 16:21	ZSA	Mt. Juliet, TN
Mercury by Method 7470A	WG2409921	1	12/05/24 15:16	12/06/24 13:41	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:07	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 22:42	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:07	SJM	Mt. Juliet, TN

MW-14R L1804441-04 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 15:15
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	11/30/24 22:14	11/30/24 22:14	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2409921	1	12/05/24 15:16	12/06/24 13:43	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:09	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 22:45	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:11	SJM	Mt. Juliet, TN

MW-15 L1804441-05 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 16:25
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	11/30/24 22:28	11/30/24 22:28	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	10	11/30/24 22:41	11/30/24 22:41	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2409921	1	12/05/24 15:16	12/06/24 13:46	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:10	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 22:48	LD	Mt. Juliet, TN

SAMPLE SUMMARY

MW-15 L1804441-05 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 16:25
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:14	SJM	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

MW-601 L1804441-06 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 10:50
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	11/30/24 22:55	11/30/24 22:55	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	10	11/30/24 23:35	11/30/24 23:35	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2409921	1	12/05/24 15:16	12/06/24 13:48	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:12	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 22:51	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:17	SJM	Mt. Juliet, TN

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

MW-602 L1804441-07 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 14:45
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	11/30/24 23:49	11/30/24 23:49	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2409921	1	12/05/24 15:16	12/06/24 13:51	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:14	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 22:55	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:20	SJM	Mt. Juliet, TN

⁹ Sc

MW-701 L1804441-08 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 12:50
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 00:02	12/01/24 00:02	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2409921	1	12/05/24 15:16	12/06/24 12:48	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 11:49	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 22:05	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 11:11	SJM	Mt. Juliet, TN

MW-702 L1804441-09 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 12:00
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 01:23	12/01/24 01:23	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 16:58	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:15	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 22:58	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:23	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

MW-703 L1804441-10 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 11:25
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 01:37	12/01/24 01:37	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:00	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:17	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 23:01	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:27	SJM	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-704 L1804441-11 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 13:30
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 01:50	12/01/24 01:50	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	5	12/01/24 02:04	12/01/24 02:04	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:03	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:19	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 23:04	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:30	SJM	Mt. Juliet, TN

MW-705 L1804441-12 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 14:15
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 02:17	12/01/24 02:17	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	5	12/01/24 02:31	12/01/24 02:31	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:10	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:20	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 23:15	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:51	SJM	Mt. Juliet, TN

MW-706 L1804441-13 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 13:35
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410341	1	11/29/24 10:08	11/30/24 12:13	JAC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 03:11	12/01/24 03:11	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	5	12/01/24 03:25	12/01/24 03:25	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:13	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:25	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 23:19	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:54	SJM	Mt. Juliet, TN

MW-707B L1804441-14 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 11:55
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410345	1	11/29/24 10:11	12/02/24 11:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 03:38	12/01/24 03:38	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	10	12/01/24 03:52	12/01/24 03:52	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	100	12/05/24 16:36	12/05/24 16:36	ZSA	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:15	SDG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-707B L1804441-14 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 11:55
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:27	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 23:22	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 12:57	SJM	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-708 L1804441-15 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 11:05
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410345	1	11/29/24 10:11	12/02/24 11:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 04:05	12/01/24 04:05	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:18	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:28	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 23:25	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 13:01	SJM	Mt. Juliet, TN

MW-801 L1804441-16 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 16:00
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410345	1	11/29/24 10:11	12/02/24 11:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 04:19	12/01/24 04:19	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:20	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:30	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 23:28	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 13:04	SJM	Mt. Juliet, TN

MW-802 L1804441-17 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 15:00
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410345	1	11/29/24 10:11	12/02/24 11:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 04:32	12/01/24 04:32	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:23	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:32	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 23:31	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 13:07	SJM	Mt. Juliet, TN

MW-803 L1804441-18 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 12:55
Received date/time 11/27/24 09:30

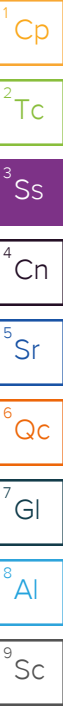
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410345	1	11/29/24 10:11	12/02/24 11:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 04:45	12/01/24 04:45	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:25	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:33	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 23:34	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 13:10	SJM	Mt. Juliet, TN

SAMPLE SUMMARY

MW-804 L1804441-19 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 12:05
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410345	1	11/29/24 10:11	12/02/24 11:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 04:59	12/01/24 04:59	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:28	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 12:35	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 23:37	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 13:13	SJM	Mt. Juliet, TN



MW-805 L1804441-20 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 11:15
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410345	1	11/29/24 10:11	12/02/24 11:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	1	12/01/24 05:12	12/01/24 05:12	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2409951	10	12/01/24 06:33	12/01/24 06:33	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 16:40	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412622	1	12/05/24 21:45	12/06/24 11:55	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/08/24 22:18	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2412644	1	12/05/24 21:47	12/09/24 11:24	SJM	Mt. Juliet, TN

TW-1 L1804441-21 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 12:40
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410345	1	11/29/24 10:11	12/02/24 11:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2410232	1	11/30/24 20:34	11/30/24 20:34	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:30	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412625	1	12/05/24 15:00	12/05/24 20:49	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2413484	1	12/07/24 15:35	12/09/24 00:43	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2413484	1	12/07/24 15:35	12/09/24 19:56	LD	Mt. Juliet, TN

DUPLICATE 1 L1804441-22 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 12:50
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410345	1	11/29/24 10:11	12/02/24 11:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2410232	1	11/30/24 21:14	11/30/24 21:14	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:33	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412625	1	12/05/24 15:00	12/05/24 20:51	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2413484	1	12/07/24 15:35	12/09/24 00:46	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2413484	1	12/07/24 15:35	12/09/24 19:59	LD	Mt. Juliet, TN

DUPLICATE 2 L1804441-23 GW

Collected by Jason R. Franks
Collected date/time 11/25/24 11:15
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2410345	1	11/29/24 10:11	12/02/24 11:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2410232	1	11/30/24 21:28	11/30/24 21:28	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2410232	10	11/30/24 21:41	11/30/24 21:41	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2410319	1	12/04/24 14:02	12/07/24 17:41	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2412625	1	12/05/24 15:00	12/05/24 20:53	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2413484	1	12/07/24 15:35	12/09/24 00:49	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2413484	1	12/07/24 15:35	12/09/24 20:02	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.



Jeff Carr
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 ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	1110000		20000	1	11/30/2024 12:13	WG2410341

Wet Chemistry by Method 9056A

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	180000		5000	5	11/30/2024 21:07	WG2409951
Fluoride	678		150	1	11/30/2024 20:53	WG2409951
Sulfate	96800		5000	1	11/30/2024 20:53	WG2409951

Mercury by Method 7470A

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Mercury	ND		0.200	1	12/06/2024 13:31	WG2409921

Metals (ICP) by Method 6010D

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Barium	166		5.00	1	12/06/2024 12:00	WG2412622
Boron	1120		200	1	12/06/2024 12:00	WG2412622
Calcium	75600		1000	1	12/06/2024 12:00	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:00	WG2412622
Lithium	40.9		15.0	1	12/06/2024 12:00	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:00	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Antimony	ND		4.00	1	12/09/2024 12:01	WG2412644
Arsenic	3.54		2.00	1	12/08/2024 22:34	WG2412644
Cadmium	ND		1.00	1	12/08/2024 22:34	WG2412644
Cobalt	ND		2.00	1	12/08/2024 22:34	WG2412644
Lead	ND		2.00	1	12/08/2024 22:34	WG2412644
Selenium	ND		2.00	1	12/08/2024 22:34	WG2412644

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	946000		20000	1	11/30/2024 12:13	WG2410341

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	96500		1000	1	11/30/2024 21:20	WG2409951
Fluoride	1330		150	1	11/30/2024 21:20	WG2409951
Sulfate	ND		5000	1	11/30/2024 21:20	WG2409951

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/06/2024 13:33	WG2409921

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	554		5.00	1	12/06/2024 12:05	WG2412622
Boron	1540		200	1	12/06/2024 12:05	WG2412622
Calcium	19700		1000	1	12/06/2024 12:05	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:05	WG2412622
Lithium	69.4		15.0	1	12/06/2024 12:05	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:05	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 12:04	WG2412644
Arsenic	2.44		2.00	1	12/08/2024 22:39	WG2412644
Cadmium	ND		1.00	1	12/08/2024 22:39	WG2412644
Cobalt	ND		2.00	1	12/08/2024 22:39	WG2412644
Lead	ND		2.00	1	12/08/2024 22:39	WG2412644
Selenium	ND		2.00	1	12/08/2024 22:39	WG2412644

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	2370000		50000	1	11/30/2024 12:13	WG2410341

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	26300		1000	1	11/30/2024 21:47	WG2409951
Fluoride	214		150	1	11/30/2024 21:47	WG2409951
Sulfate	1460000		100000	20	12/05/2024 16:21	WG2409951

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/06/2024 13:41	WG2409921

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	16.9		5.00	1	12/06/2024 12:07	WG2412622
Boron	378		200	1	12/06/2024 12:07	WG2412622
Calcium	334000		1000	1	12/06/2024 12:07	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:07	WG2412622
Lithium	52.5		15.0	1	12/06/2024 12:07	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:07	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 12:07	WG2412644
Arsenic	ND		2.00	1	12/08/2024 22:42	WG2412644
Cadmium	ND		1.00	1	12/08/2024 22:42	WG2412644
Cobalt	ND		2.00	1	12/08/2024 22:42	WG2412644
Lead	ND		2.00	1	12/08/2024 22:42	WG2412644
Selenium	ND		2.00	1	12/08/2024 22:42	WG2412644

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	578000		10000	1	11/30/2024 12:13	WG2410341

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	7460		1000	1	11/30/2024 22:14	WG2409951
Fluoride	402		150	1	11/30/2024 22:14	WG2409951
Sulfate	64800		5000	1	11/30/2024 22:14	WG2409951

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/06/2024 13:43	WG2409921

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	38.3		5.00	1	12/06/2024 12:09	WG2412622
Boron	826		200	1	12/06/2024 12:09	WG2412622
Calcium	50600		1000	1	12/06/2024 12:09	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:09	WG2412622
Lithium	39.5		15.0	1	12/06/2024 12:09	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:09	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 12:11	WG2412644
Arsenic	ND		2.00	1	12/08/2024 22:45	WG2412644
Cadmium	ND		1.00	1	12/08/2024 22:45	WG2412644
Cobalt	ND		2.00	1	12/08/2024 22:45	WG2412644
Lead	ND		2.00	1	12/08/2024 22:45	WG2412644
Selenium	ND		2.00	1	12/08/2024 22:45	WG2412644

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	772000		13300	1	11/30/2024 12:13	WG2410341

1
Cp

2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	10700		1000	1	11/30/2024 22:28	WG2409951
Fluoride	314		150	1	11/30/2024 22:28	WG2409951
Sulfate	207000		50000	10	11/30/2024 22:41	WG2409951

3
Ss

4
Cn

5
Sr

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/06/2024 13:46	WG2409921

6
Qc

7
Gl

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	40.8		5.00	1	12/06/2024 12:10	WG2412622
Boron	235		200	1	12/06/2024 12:10	WG2412622
Calcium	105000		1000	1	12/06/2024 12:10	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:10	WG2412622
Lithium	20.8		15.0	1	12/06/2024 12:10	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:10	WG2412622

8
Al

9
Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 12:14	WG2412644
Arsenic	ND		2.00	1	12/08/2024 22:48	WG2412644
Cadmium	ND		1.00	1	12/08/2024 22:48	WG2412644
Cobalt	ND		2.00	1	12/08/2024 22:48	WG2412644
Lead	ND		2.00	1	12/08/2024 22:48	WG2412644
Selenium	ND		2.00	1	12/08/2024 22:48	WG2412644

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	994000		20000	1	11/30/2024 12:13	WG2410341

1
Cp

2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	323000		10000	10	11/30/2024 23:35	WG2409951
Fluoride	1780		150	1	11/30/2024 22:55	WG2409951
Sulfate	6430		5000	1	11/30/2024 22:55	WG2409951

3
Ss

4
Cn

5
Sr

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/06/2024 13:48	WG2409921

6
Qc

7
Gl

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	130		5.00	1	12/06/2024 12:12	WG2412622
Boron	1850		200	1	12/06/2024 12:12	WG2412622
Calcium	15100		1000	1	12/06/2024 12:12	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:12	WG2412622
Lithium	64.9		15.0	1	12/06/2024 12:12	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:12	WG2412622

8
Al

9
Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 12:17	WG2412644
Arsenic	ND		2.00	1	12/08/2024 22:51	WG2412644
Cadmium	ND		1.00	1	12/08/2024 22:51	WG2412644
Cobalt	ND		2.00	1	12/08/2024 22:51	WG2412644
Lead	ND		2.00	1	12/08/2024 22:51	WG2412644
Selenium	ND		2.00	1	12/08/2024 22:51	WG2412644

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	606000		10000	1	11/30/2024 12:13	WG2410341

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	16500		1000	1	11/30/2024 23:49	WG2409951
Fluoride	1290		150	1	11/30/2024 23:49	WG2409951
Sulfate	27300		5000	1	11/30/2024 23:49	WG2409951

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/06/2024 13:51	WG2409921

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	98.0		5.00	1	12/06/2024 12:14	WG2412622
Boron	2240		200	1	12/06/2024 12:14	WG2412622
Calcium	22200		1000	1	12/06/2024 12:14	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:14	WG2412622
Lithium	53.5		15.0	1	12/06/2024 12:14	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:14	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 12:20	WG2412644
Arsenic	ND		2.00	1	12/08/2024 22:55	WG2412644
Cadmium	ND		1.00	1	12/08/2024 22:55	WG2412644
Cobalt	ND		2.00	1	12/08/2024 22:55	WG2412644
Lead	ND		2.00	1	12/08/2024 22:55	WG2412644
Selenium	ND		2.00	1	12/08/2024 22:55	WG2412644

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	578000		10000	1	11/30/2024 12:13	WG2410341

1
Cp

2
Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	45800	J6	1000	1	12/01/2024 00:02	WG2409951
Fluoride	651		150	1	12/01/2024 00:02	WG2409951
Sulfate	88900	J6	5000	1	12/01/2024 00:02	WG2409951

3
Ss

4
Cn

5
Sr

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/06/2024 12:48	WG2409921

6
Qc

7
Gl

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	189		5.00	1	12/06/2024 11:49	WG2412622
Boron	886		200	1	12/06/2024 11:49	WG2412622
Calcium	45400		1000	1	12/06/2024 11:49	WG2412622
Chromium	ND		10.0	1	12/06/2024 11:49	WG2412622
Lithium	41.7		15.0	1	12/06/2024 11:49	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 11:49	WG2412622

8
Al

9
Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 11:11	WG2412644
Arsenic	ND		2.00	1	12/08/2024 22:05	WG2412644
Cadmium	ND		1.00	1	12/08/2024 22:05	WG2412644
Cobalt	ND		2.00	1	12/08/2024 22:05	WG2412644
Lead	ND		2.00	1	12/08/2024 22:05	WG2412644
Selenium	ND		2.00	1	12/08/2024 22:05	WG2412644

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Dissolved Solids	679000		13300	1	11/30/2024 12:13	WG2410341

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Chloride	47700		1000	1	12/01/2024 01:23	WG2409951
Fluoride	1550		150	1	12/01/2024 01:23	WG2409951
Sulfate	ND		5000	1	12/01/2024 01:23	WG2409951

Mercury by Method 7470A

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/07/2024 16:58	WG2410319

Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Barium	551		5.00	1	12/06/2024 12:15	WG2412622
Boron	1810		200	1	12/06/2024 12:15	WG2412622
Calcium	16900		1000	1	12/06/2024 12:15	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:15	WG2412622
Lithium	57.3		15.0	1	12/06/2024 12:15	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:15	WG2412622

Metals (ICPMS) by Method 6020B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 12:23	WG2412644
Arsenic	ND		2.00	1	12/08/2024 22:58	WG2412644
Cadmium	ND		1.00	1	12/08/2024 22:58	WG2412644
Cobalt	ND		2.00	1	12/08/2024 22:58	WG2412644
Lead	ND		2.00	1	12/08/2024 22:58	WG2412644
Selenium	ND		2.00	1	12/08/2024 22:58	WG2412644

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	866000		20000	1	11/30/2024 12:13	WG2410341

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	54600		1000	1	12/01/2024 01:37	WG2409951
Fluoride	1150		150	1	12/01/2024 01:37	WG2409951
Sulfate	56500		5000	1	12/01/2024 01:37	WG2409951

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/07/2024 17:00	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	295		5.00	1	12/06/2024 12:17	WG2412622
Boron	1480		200	1	12/06/2024 12:17	WG2412622
Calcium	26500		1000	1	12/06/2024 12:17	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:17	WG2412622
Lithium	51.8		15.0	1	12/06/2024 12:17	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:17	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 12:27	WG2412644
Arsenic	ND		2.00	1	12/08/2024 23:01	WG2412644
Cadmium	ND		1.00	1	12/08/2024 23:01	WG2412644
Cobalt	ND		2.00	1	12/08/2024 23:01	WG2412644
Lead	ND		2.00	1	12/08/2024 23:01	WG2412644
Selenium	ND		2.00	1	12/08/2024 23:01	WG2412644

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	1240000		25000	1	11/30/2024 12:13	WG2410341

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	86200		1000	1	12/01/2024 01:50	WG2409951
Fluoride	968		150	1	12/01/2024 01:50	WG2409951
Sulfate	167000		25000	5	12/01/2024 02:04	WG2409951

Mercury by Method 7470A

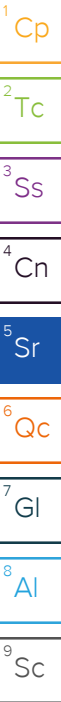
Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/07/2024 17:03	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	53.9		5.00	1	12/06/2024 12:19	WG2412622
Boron	1950		200	1	12/06/2024 12:19	WG2412622
Calcium	22000		1000	1	12/06/2024 12:19	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:19	WG2412622
Lithium	95.9		15.0	1	12/06/2024 12:19	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:19	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 12:30	WG2412644
Arsenic	ND		2.00	1	12/08/2024 23:04	WG2412644
Cadmium	ND		1.00	1	12/08/2024 23:04	WG2412644
Cobalt	ND		2.00	1	12/08/2024 23:04	WG2412644
Lead	ND		2.00	1	12/08/2024 23:04	WG2412644
Selenium	ND		2.00	1	12/08/2024 23:04	WG2412644



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	998000		20000	1	11/30/2024 12:13	WG2410341

¹ Cp

² Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	130000		5000	5	12/01/2024 02:31	WG2409951
Fluoride	1110		150	1	12/01/2024 02:17	WG2409951
Sulfate	38100		5000	1	12/01/2024 02:17	WG2409951

³ Ss

⁴ Cn

⁵ Sr

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/07/2024 17:10	WG2410319

⁶ Qc

⁷ Gl

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	91.0		5.00	1	12/06/2024 12:20	WG2412622
Boron	2110		200	1	12/06/2024 12:20	WG2412622
Calcium	28100		1000	1	12/06/2024 12:20	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:20	WG2412622
Lithium	115		15.0	1	12/06/2024 12:20	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:20	WG2412622

⁸ Al

⁹ Sc

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 12:51	WG2412644
Arsenic	ND		2.00	1	12/08/2024 23:15	WG2412644
Cadmium	ND		1.00	1	12/08/2024 23:15	WG2412644
Cobalt	ND		2.00	1	12/08/2024 23:15	WG2412644
Lead	ND		2.00	1	12/08/2024 23:15	WG2412644
Selenium	ND		2.00	1	12/08/2024 23:15	WG2412644

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1210000		25000	1	11/30/2024 12:13	WG2410341

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	228000		5000	5	12/01/2024 03:25	WG2409951
Fluoride	1140		150	1	12/01/2024 03:11	WG2409951
Sulfate	14200		5000	1	12/01/2024 03:11	WG2409951

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	12/07/2024 17:13	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	197		5.00	1	12/06/2024 12:25	WG2412622
Boron	2000		200	1	12/06/2024 12:25	WG2412622
Calcium	24000		1000	1	12/06/2024 12:25	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:25	WG2412622
Lithium	124		15.0	1	12/06/2024 12:25	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:25	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	12/09/2024 12:54	WG2412644
Arsenic	ND		2.00	1	12/08/2024 23:19	WG2412644
Cadmium	ND		1.00	1	12/08/2024 23:19	WG2412644
Cobalt	ND		2.00	1	12/08/2024 23:19	WG2412644
Lead	ND		2.00	1	12/08/2024 23:19	WG2412644
Selenium	ND		2.00	1	12/08/2024 23:19	WG2412644

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
	ug/l		ug/l		date / time	
Dissolved Solids	8990000		100000	1	12/02/2024 11:36	WG2410345

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	167000		10000	10	12/01/2024 03:52	WG2409951
Fluoride	486		150	1	12/01/2024 03:38	WG2409951
Sulfate	5040000		500000	100	12/05/2024 16:36	WG2409951

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/07/2024 17:15	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	18.7		5.00	1	12/06/2024 12:27	WG2412622
Boron	1790		200	1	12/06/2024 12:27	WG2412622
Calcium	404000		1000	1	12/06/2024 12:27	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:27	WG2412622
Lithium	1250		15.0	1	12/06/2024 12:27	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:27	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 12:57	WG2412644
Arsenic	ND		2.00	1	12/08/2024 23:22	WG2412644
Cadmium	ND		1.00	1	12/08/2024 23:22	WG2412644
Cobalt	8.09		2.00	1	12/08/2024 23:22	WG2412644
Lead	ND		2.00	1	12/08/2024 23:22	WG2412644
Selenium	ND		2.00	1	12/08/2024 23:22	WG2412644

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
	ug/l		ug/l		date / time	
Dissolved Solids	645000		13300	1	12/02/2024 11:36	WG2410345

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	50100		1000	1	12/01/2024 04:05	WG2409951
Fluoride	754		150	1	12/01/2024 04:05	WG2409951
Sulfate	11100		5000	1	12/01/2024 04:05	WG2409951

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/07/2024 17:18	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	268		5.00	1	12/06/2024 12:28	WG2412622
Boron	1430		200	1	12/06/2024 12:28	WG2412622
Calcium	28100		1000	1	12/06/2024 12:28	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:28	WG2412622
Lithium	74.8		15.0	1	12/06/2024 12:28	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:28	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 13:01	WG2412644
Arsenic	ND		2.00	1	12/08/2024 23:25	WG2412644
Cadmium	ND		1.00	1	12/08/2024 23:25	WG2412644
Cobalt	ND		2.00	1	12/08/2024 23:25	WG2412644
Lead	ND		2.00	1	12/08/2024 23:25	WG2412644
Selenium	ND		2.00	1	12/08/2024 23:25	WG2412644

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
	ug/l		ug/l		date / time	
Dissolved Solids	818000		20000	1	12/02/2024 11:36	WG2410345

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	90900		1000	1	12/01/2024 04:19	WG2409951
Fluoride	1130		150	1	12/01/2024 04:19	WG2409951
Sulfate	ND		5000	1	12/01/2024 04:19	WG2409951

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/07/2024 17:20	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	507		5.00	1	12/06/2024 12:30	WG2412622
Boron	2190		200	1	12/06/2024 12:30	WG2412622
Calcium	25200		1000	1	12/06/2024 12:30	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:30	WG2412622
Lithium	86.2		15.0	1	12/06/2024 12:30	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:30	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 13:04	WG2412644
Arsenic	ND		2.00	1	12/08/2024 23:28	WG2412644
Cadmium	ND		1.00	1	12/08/2024 23:28	WG2412644
Cobalt	ND		2.00	1	12/08/2024 23:28	WG2412644
Lead	ND		2.00	1	12/08/2024 23:28	WG2412644
Selenium	ND		2.00	1	12/08/2024 23:28	WG2412644

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	680000		13300	1	12/02/2024 11:36	WG2410345

Wet Chemistry by Method 9056A

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	41900		1000	1	12/01/2024 04:32	WG2409951
Fluoride	1080		150	1	12/01/2024 04:32	WG2409951
Sulfate	ND		5000	1	12/01/2024 04:32	WG2409951

Mercury by Method 7470A

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Mercury	ND		0.200	1	12/07/2024 17:23	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Barium	949		5.00	1	12/06/2024 12:32	WG2412622
Boron	2460		200	1	12/06/2024 12:32	WG2412622
Calcium	28600		1000	1	12/06/2024 12:32	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:32	WG2412622
Lithium	85.9		15.0	1	12/06/2024 12:32	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:32	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Antimony	ND		4.00	1	12/09/2024 13:07	WG2412644
Arsenic	ND		2.00	1	12/08/2024 23:31	WG2412644
Cadmium	ND		1.00	1	12/08/2024 23:31	WG2412644
Cobalt	ND		2.00	1	12/08/2024 23:31	WG2412644
Lead	2.60		2.00	1	12/08/2024 23:31	WG2412644
Selenium	ND		2.00	1	12/08/2024 23:31	WG2412644

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	620000		13300	1	12/02/2024 11:36	WG2410345

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	52400		1000	1	12/01/2024 04:45	WG2409951
Fluoride	730		150	1	12/01/2024 04:45	WG2409951
Sulfate	43300		5000	1	12/01/2024 04:45	WG2409951

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	12/07/2024 17:25	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	240		5.00	1	12/06/2024 12:33	WG2412622
Boron	2050		200	1	12/06/2024 12:33	WG2412622
Calcium	45200		1000	1	12/06/2024 12:33	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:33	WG2412622
Lithium	61.0		15.0	1	12/06/2024 12:33	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:33	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	12/09/2024 13:10	WG2412644
Arsenic	ND		2.00	1	12/08/2024 23:34	WG2412644
Cadmium	ND		1.00	1	12/08/2024 23:34	WG2412644
Cobalt	ND		2.00	1	12/08/2024 23:34	WG2412644
Lead	ND		2.00	1	12/08/2024 23:34	WG2412644
Selenium	ND		2.00	1	12/08/2024 23:34	WG2412644

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	572000		13300	1	12/02/2024 11:36	WG2410345

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	48600		1000	1	12/01/2024 04:59	WG2409951
Fluoride	564		150	1	12/01/2024 04:59	WG2409951
Sulfate	26000		5000	1	12/01/2024 04:59	WG2409951

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/07/2024 17:28	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	191		5.00	1	12/06/2024 12:35	WG2412622
Boron	1650		200	1	12/06/2024 12:35	WG2412622
Calcium	74100		1000	1	12/06/2024 12:35	WG2412622
Chromium	ND		10.0	1	12/06/2024 12:35	WG2412622
Lithium	37.3		15.0	1	12/06/2024 12:35	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 12:35	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 13:13	WG2412644
Arsenic	ND		2.00	1	12/08/2024 23:37	WG2412644
Cadmium	ND		1.00	1	12/08/2024 23:37	WG2412644
Cobalt	ND		2.00	1	12/08/2024 23:37	WG2412644
Lead	ND		2.00	1	12/08/2024 23:37	WG2412644
Selenium	ND		2.00	1	12/08/2024 23:37	WG2412644

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 ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2100000		50000	1	12/02/2024 11:36	WG2410345

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	502000		10000	10	12/01/2024 06:33	WG2409951
Fluoride	205		150	1	12/01/2024 05:12	WG2409951
Sulfate	763000		50000	10	12/01/2024 06:33	WG2409951

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND	J6 Q1	0.200	1	12/07/2024 16:40	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	31.6		5.00	1	12/06/2024 11:55	WG2412622
Boron	471		200	1	12/06/2024 11:55	WG2412622
Calcium	482000	V	1000	1	12/06/2024 11:55	WG2412622
Chromium	ND		10.0	1	12/06/2024 11:55	WG2412622
Lithium	19.1		15.0	1	12/06/2024 11:55	WG2412622
Molybdenum	ND		5.00	1	12/06/2024 11:55	WG2412622

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	12/09/2024 11:24	WG2412644
Arsenic	ND		2.00	1	12/08/2024 22:18	WG2412644
Cadmium	ND		1.00	1	12/08/2024 22:18	WG2412644
Cobalt	ND		2.00	1	12/08/2024 22:18	WG2412644
Lead	ND		2.00	1	12/08/2024 22:18	WG2412644
Selenium	ND		2.00	1	12/08/2024 22:18	WG2412644

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	984000		20000	1	12/02/2024 11:36	WG2410345

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloride	40500		1000	1	11/30/2024 20:34	WG2410232
Fluoride	365		150	1	11/30/2024 20:34	WG2410232
Sulfate	74300	J6	5000	1	11/30/2024 20:34	WG2410232

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	12/07/2024 17:30	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Barium	61.9		5.00	1	12/05/2024 20:49	WG2412625
Boron	1360		200	1	12/05/2024 20:49	WG2412625
Calcium	23500		1000	1	12/05/2024 20:49	WG2412625
Chromium	ND		10.0	1	12/05/2024 20:49	WG2412625
Lithium	137		15.0	1	12/05/2024 20:49	WG2412625
Molybdenum	ND		5.00	1	12/05/2024 20:49	WG2412625

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Antimony	ND		4.00	1	12/09/2024 19:56	WG2413484
Arsenic	ND		2.00	1	12/09/2024 00:43	WG2413484
Cadmium	ND		1.00	1	12/09/2024 00:43	WG2413484
Cobalt	ND		2.00	1	12/09/2024 00:43	WG2413484
Lead	ND		2.00	1	12/09/2024 00:43	WG2413484
Selenium	ND		2.00	1	12/09/2024 00:43	WG2413484

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

DUPLICATE 1

Collected date/time: 11/25/24 12:50

SAMPLE RESULTS - 22

L1804441

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	565000		50000	1	12/02/2024 11:36	WG2410345

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	45300		1000	1	11/30/2024 21:14	WG2410232
Fluoride	564		150	1	11/30/2024 21:14	WG2410232
Sulfate	87500		5000	1	11/30/2024 21:14	WG2410232

Mercury by Method 7470A

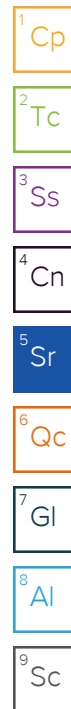
Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	12/07/2024 17:33	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	184		5.00	1	12/05/2024 20:51	WG2412625
Boron	875		200	1	12/05/2024 20:51	WG2412625
Calcium	43900		1000	1	12/05/2024 20:51	WG2412625
Chromium	ND		10.0	1	12/05/2024 20:51	WG2412625
Lithium	47.4		15.0	1	12/05/2024 20:51	WG2412625
Molybdenum	ND		5.00	1	12/05/2024 20:51	WG2412625

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	12/09/2024 19:59	WG2413484
Arsenic	ND		2.00	1	12/09/2024 00:46	WG2413484
Cadmium	ND		1.00	1	12/09/2024 00:46	WG2413484
Cobalt	ND		2.00	1	12/09/2024 00:46	WG2413484
Lead	ND		2.00	1	12/09/2024 00:46	WG2413484
Selenium	ND		2.00	1	12/09/2024 00:46	WG2413484



DUPLICATE 2

Collected date/time: 11/25/24 11:15

SAMPLE RESULTS - 23

L1804441

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2130000		50000	1	12/02/2024 11:36	WG2410345

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	508000		10000	10	11/30/2024 21:41	WG2410232
Fluoride	152		150	1	11/30/2024 21:28	WG2410232
Sulfate	747000		50000	10	11/30/2024 21:41	WG2410232

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	12/07/2024 17:41	WG2410319

Metals (ICP) by Method 6010D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	31.1		5.00	1	12/05/2024 20:53	WG2412625
Boron	468		200	1	12/05/2024 20:53	WG2412625
Calcium	484000		1000	1	12/05/2024 20:53	WG2412625
Chromium	ND		10.0	1	12/05/2024 20:53	WG2412625
Lithium	22.3		15.0	1	12/05/2024 20:53	WG2412625
Molybdenum	ND		5.00	1	12/05/2024 20:53	WG2412625

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Antimony	ND		4.00	1	12/09/2024 20:02	WG2413484
Arsenic	ND		2.00	1	12/09/2024 00:49	WG2413484
Cadmium	ND		1.00	1	12/09/2024 00:49	WG2413484
Cobalt	ND		2.00	1	12/09/2024 00:49	WG2413484
Lead	ND		2.00	1	12/09/2024 00:49	WG2413484
Selenium	ND		2.00	1	12/09/2024 00:49	WG2413484

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4152635-1 11/30/24 12:13

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1802641-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1802641-03 11/30/24 12:13 • (DUP) R4152635-3 11/30/24 12:13

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	776000	751000	1	3.32		10

L1804441-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1804441-13 11/30/24 12:13 • (DUP) R4152635-4 11/30/24 12:13

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	1210000	1220000	1	0.826		10

Laboratory Control Sample (LCS)

(LCS) R4152635-2 11/30/24 12:13

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8900000	101	85.0-115	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4153555-1 12/02/24 11:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Dissolved Solids	U	⬇	10000	10000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1804441-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1804441-14 12/02/24 11:36 • (DUP) R4153555-3 12/02/24 11:36

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	8990000	8970000	1	0.223		10

L1804723-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1804723-01 12/02/24 11:36 • (DUP) R4153555-4 12/02/24 11:36

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	8850000	8710000	1	1.59		10

Laboratory Control Sample (LCS)

(LCS) R4153555-2 12/02/24 11:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800000	9010000	102	85.0-115	

Method Blank (MB)

(MB) R4154088-1 11/30/24 20:26

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1804441-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1804441-08 12/01/24 00:02 • (DUP) R4154088-3 12/01/24 00:16

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	45800	45500	1	0.667		15
Fluoride	651	670	1	2.77		15
Sulfate	88900	88800	1	0.0200		15

L1804441-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1804441-20 12/01/24 05:12 • (DUP) R4154088-7 12/01/24 05:26

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Fluoride	205	235	1	13.6		15

L1804441-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1804441-20 12/01/24 06:33 • (DUP) R4154088-10 12/01/24 06:46

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	502000	515000	10	2.56		15
Sulfate	763000	780000	10	2.22		15

Laboratory Control Sample (LCS)

(LCS) R4154088-2 11/30/24 20:40

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	ug/l	ug/l	%	%	
Chloride	40000	39300	98.2	80.0-120	
Fluoride	8000	8050	101	80.0-120	
Sulfate	40000	39600	99.1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1804441-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-08 12/01/24 00:02 • (MS) R4154088-4 12/01/24 00:29 • (MSD) R4154088-5 12/01/24 00:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	45800	76800	76300	77.3	76.1	1	80.0-120	J6	J6	0.634	15
Fluoride	8000	651	8830	8720	102	101	1	80.0-120			1.26	15
Sulfate	40000	88900	108000	107000	48.5	45.8	1	80.0-120	E J6	E J6	1.02	15

L1804441-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-20 12/01/24 05:12 • (MS) R4154088-8 12/01/24 05:39 • (MSD) R4154088-9 12/01/24 05:52

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	515000	445000	447000	0.000	0.000	1	80.0-120	E V	E V	0.362	15
Fluoride	8000	205	7820	7940	95.2	96.7	1	80.0-120			1.47	15
Sulfate	40000	759000	622000	623000	0.000	0.000	1	80.0-120	E V	E V	0.166	15

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4154070-1 11/30/24 20:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1804441-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1804441-21 11/30/24 20:34 • (DUP) R4154070-3 11/30/24 20:47

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	40500	40200	1	0.745		15
Fluoride	365	376	1	3.08		15
Sulfate	74300	72200	1	2.80		15

L1804693-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1804693-01 12/01/24 00:23 • (DUP) R4154070-5 12/01/24 00:36

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4200000	4160000	50	0.844		15
Fluoride	ND	ND	50	0.000		15
Sulfate	ND	ND	50	0.000		15

Laboratory Control Sample (LCS)

(LCS) R4154070-2 11/30/24 20:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39500	98.7	80.0-120	
Fluoride	8000	8290	104	80.0-120	
Sulfate	40000	39600	99.0	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1804441-21 Original Sample (OS) • Matrix Spike (MS)

(OS) L1804441-21 11/30/24 20:34 • (MS) R4154070-4 11/30/24 21:01

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	40500	73500	82.5	1	80.0-120	
Fluoride	8000	365	9120	109	1	80.0-120	
Sulfate	40000	74300	99000	61.8	1	80.0-120	J6

L1804693-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804693-01 12/01/24 00:23 • (MS) R4154070-6 12/01/24 00:50 • (MSD) R4154070-7 12/01/24 01:04

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	4200000	3260000	3240000	0.000	0.000	50	80.0-120	V	V	0.653	15
Fluoride	8000	ND	8790	ND	110	91.6	50	80.0-120	J3	J3	18.2	15
Sulfate	40000	ND	ND	ND	158	119	50	80.0-120	J5	J3	28.4	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4154672-1 12/06/24 12:43

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Mercury	U		0.0700	0.200

Laboratory Control Sample (LCS)

(LCS) R4154672-2 12/06/24 12:45

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Mercury	3.00	3.16	105	80.0-120	

L1804441-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-08 12/06/24 12:48 • (MS) R4154672-4 12/06/24 12:53 • (MSD) R4154672-5 12/06/24 12:55

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	ND	2.43	2.40	81.1	80.1	1	75.0-125			1.25	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4154966-1 12/07/24 16:00

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Mercury	U		0.0700	0.200

Laboratory Control Sample (LCS)

(LCS) R4154966-2 12/07/24 16:02

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Mercury	3.00	2.89	96.3	80.0-120	

L1804441-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-20 12/07/24 16:40 • (MS) R4154966-4 12/07/24 16:45 • (MSD) R4154966-5 12/07/24 16:47

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	ND	0.970	1.03	32.3	34.4	1	75.0-125	J6	J6	6.18	20

L1804545-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804545-06 12/07/24 16:50 • (MS) R4154966-6 12/07/24 16:52 • (MSD) R4154966-7 12/07/24 16:55

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	ND	3.14	3.19	105	106	1	75.0-125			1.46	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4154645-1 12/06/24 11:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Barium	U		0.736	5.00
Boron	U		20.0	200
Calcium	U		79.3	1000
Chromium	U		1.40	10.0
Lithium	U		4.85	15.0
Molybdenum	U		1.16	5.00

Laboratory Control Sample (LCS)

(LCS) R4154645-2 12/06/24 11:47

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	991	99.1	80.0-120	
Boron	1000	956	95.6	80.0-120	
Calcium	10000	9740	97.4	80.0-120	
Chromium	1000	976	97.6	80.0-120	
Lithium	1000	995	99.5	80.0-120	
Molybdenum	1000	971	97.1	80.0-120	

L1804441-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-08 12/06/24 11:49 • (MS) R4154645-4 12/06/24 11:52 • (MSD) R4154645-5 12/06/24 11:54

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	189	1150	1150	95.7	96.6	1	75.0-125			0.783	20
Boron	1000	886	1780	1790	89.2	90.9	1	75.0-125			0.938	20
Calcium	10000	45400	53500	53700	80.4	82.7	1	75.0-125			0.435	20
Chromium	1000	ND	941	950	94.1	95.0	1	75.0-125			0.946	20
Lithium	1000	41.7	970	971	92.8	92.9	1	75.0-125			0.0902	20
Molybdenum	1000	ND	957	965	95.7	96.5	1	75.0-125			0.895	20

L1804441-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-20 12/06/24 11:55 • (MS) R4154645-6 12/06/24 11:57 • (MSD) R4154645-7 12/06/24 11:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	31.6	1000	1000	97.1	96.8	1	75.0-125			0.259	20
Boron	1000	471	1390	1400	91.8	93.3	1	75.0-125			1.14	20
Calcium	10000	482000	477000	479000	0.000	0.000	1	75.0-125	⚠	⚠	0.443	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1804441-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-20 12/06/24 11:55 • (MS) R4154645-6 12/06/24 11:57 • (MSD) R4154645-7 12/06/24 11:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chromium	1000	ND	942	950	94.2	95.0	1	75.0-125			0.801	20
Lithium	1000	19.1	986	987	96.7	96.8	1	75.0-125			0.0976	20
Molybdenum	1000	ND	971	968	97.1	96.8	1	75.0-125			0.273	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4154393-1 12/05/24 20:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Barium	U		0.736	5.00
Boron	U		20.0	200
Calcium	U		79.3	1000
Chromium	U		1.40	10.0
Lithium	U		4.85	15.0
Molybdenum	U		1.16	5.00

Laboratory Control Sample (LCS)

(LCS) R4154393-2 12/05/24 20:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	1000	1030	103	80.0-120	
Boron	1000	962	96.2	80.0-120	
Calcium	10000	10100	101	80.0-120	
Chromium	1000	1010	101	80.0-120	
Lithium	1000	1020	102	80.0-120	
Molybdenum	1000	1020	102	80.0-120	

L1804551-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804551-05 12/05/24 20:43 • (MS) R4154393-4 12/05/24 20:46 • (MSD) R4154393-5 12/05/24 20:48

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1000	70.1	1090	1080	102	101	1	75.0-125			1.66	20
Boron	1000	ND	1150	1140	98.1	97.1	1	75.0-125			0.870	20
Calcium	10000	192000	199000	198000	63.9	54.7	1	75.0-125	V	V	0.465	20
Chromium	1000	ND	1000	981	99.7	97.8	1	75.0-125			1.93	20
Lithium	1000	185	1200	1180	102	100	1	75.0-125			1.66	20
Molybdenum	1000	ND	1020	1010	102	101	1	75.0-125			0.885	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4155132-1 12/08/24 21:59

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Arsenic	U		0.120	2.00
Cadmium	U		0.120	1.00
Cobalt	U		0.100	2.00
Lead	U		0.500	2.00
Selenium	U		0.250	2.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4155340-1 12/09/24 11:05

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Antimony	U		0.310	4.00

Laboratory Control Sample (LCS)

(LCS) R4155132-2 12/08/24 22:02

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	ug/l	ug/l	%	%	
Arsenic	50.0	47.3	94.5	80.0-120	
Cadmium	50.0	48.7	97.5	80.0-120	
Cobalt	50.0	48.2	96.4	80.0-120	
Lead	50.0	47.2	94.4	80.0-120	
Selenium	50.0	44.9	89.8	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4155340-2 12/09/24 11:08

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	ug/l	ug/l	%	%	
Antimony	50.0	51.2	102	80.0-120	

L1804441-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-08 12/08/24 22:05 • (MS) R4155132-4 12/08/24 22:12 • (MSD) R4155132-5 12/08/24 22:15

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Arsenic	50.0	ND	47.5	48.9	92.6	95.4	1	75.0-125			2.89	20
Cadmium	50.0	ND	48.0	49.0	96.0	98.0	1	75.0-125			2.04	20

L1804441-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-08 12/08/24 22:05 • (MS) R4155132-4 12/08/24 22:12 • (MSD) R4155132-5 12/08/24 22:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cobalt	50.0	ND	46.8	47.6	93.0	94.5	1	75.0-125			1.61	20
Lead	50.0	ND	45.9	46.8	91.8	93.7	1	75.0-125			2.01	20
Selenium	50.0	ND	44.9	46.6	89.8	93.3	1	75.0-125			3.80	20

L1804441-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-20 12/08/24 22:18 • (MS) R4155132-6 12/08/24 22:21 • (MSD) R4155132-7 12/08/24 22:24

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	50.0	ND	47.6	48.1	94.6	95.6	1	75.0-125			0.997	20
Cadmium	50.0	ND	48.0	48.3	96.0	96.5	1	75.0-125			0.527	20
Cobalt	50.0	ND	47.8	46.9	93.9	92.1	1	75.0-125			1.86	20
Lead	50.0	ND	48.7	47.9	97.4	95.8	1	75.0-125			1.65	20
Selenium	50.0	ND	46.9	48.7	93.9	97.3	1	75.0-125			3.60	20

L1804441-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-08 12/09/24 11:11 • (MS) R4155340-4 12/09/24 11:17 • (MSD) R4155340-5 12/09/24 11:21

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	ND	50.7	52.5	101	105	1	75.0-125			3.52	20

L1804441-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804441-20 12/09/24 11:24 • (MS) R4155340-6 12/09/24 11:27 • (MSD) R4155340-7 12/09/24 11:30

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	ND	54.3	53.8	109	108	1	75.0-125			0.935	20



Method Blank (MB)

(MB) R4155553-1 12/09/24 00:24

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Arsenic	U		0.120	2.00
Cadmium	U		0.120	1.00
Cobalt	U		0.100	2.00
Lead	U		0.500	2.00
Selenium	U		0.250	2.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4155580-1 12/09/24 19:36

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Antimony	U		0.310	4.00

Laboratory Control Sample (LCS)

(LCS) R4155553-2 12/09/24 00:27

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Arsenic	50.0	47.5	95.1	80.0-120	
Cadmium	50.0	50.0	100	80.0-120	
Cobalt	50.0	48.5	97.1	80.0-120	
Lead	50.0	47.6	95.2	80.0-120	
Selenium	50.0	46.9	93.8	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4155580-2 12/09/24 19:40

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Antimony	50.0	52.1	104	80.0-120	

L1804580-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804580-01 12/09/24 00:31 • (MS) R4155553-4 12/09/24 00:37 • (MSD) R4155553-5 12/09/24 00:40

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Arsenic	50.0	ND	47.9	48.6	95.6	96.8	1	75.0-125			1.32	20
Cadmium	50.0	ND	50.7	49.9	101	99.7	1	75.0-125			1.59	20

L1804580-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804580-01 12/09/24 00:31 • (MS) R4155553-4 12/09/24 00:37 • (MSD) R4155553-5 12/09/24 00:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Cobalt	50.0	ND	48.9	48.5	97.2	96.5	1	75.0-125			0.724	20
Lead	50.0	ND	48.5	48.3	97.1	96.5	1	75.0-125			0.547	20
Selenium	50.0	ND	48.1	47.5	95.5	94.2	1	75.0-125			1.31	20

L1804580-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804580-01 12/09/24 19:43 • (MS) R4155580-4 12/09/24 19:49 • (MSD) R4155580-5 12/09/24 19:53

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Antimony	50.0	ND	53.4	53.9	107	108	1	75.0-125			0.881	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

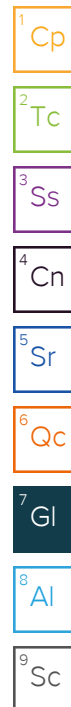
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
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.



ACCREDITATIONS & LOCATIONS

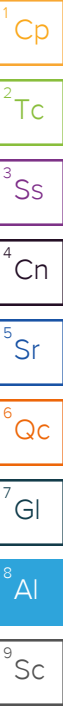
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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		

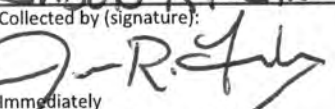
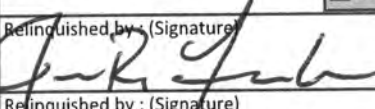
¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* 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: SCS Engineers - KS 8575 West 110th Street Suite 100 Overland Park, KS 66210				Billing Information: Accounts Payable 8575 W. 110th Street Suite 100 Overland Park, KS 66210				Analysis / Container / Preservative										Chain of Custody Page 1 of 3																																																																										
								 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: Jason Franks				Email To: jfranks@scsengineers.com;jrockhold@scsengine				Chloride, F, SO4 125mlHDPE-NoPres Metals 250mlHDPE-HNO3 TDS 1L-HDPE NoPres										SDG # L1804441 Table # H060 Acctnum: AQUAOPKS Template: T252583 Prelogin: P1112655 PM: 206 - Jeff Carr PB: BF 11/8/24 Shipped Via: FedEX Ground																																																																										
Project Description: Every La Cygne Gen Station GW 2024				City/State Collected: LA Cygne KS		Please Circle: PT MT <u>CL</u> ET																																																																																						
Phone: 913-681-0030		Client Project # 27224503.00 - A		Lab Project # AQUAOPKS-LACYGNE																																																																																								
Collected by (print): JASON R. FRANKS		Site/Facility ID #		P.O. #																																																																																								
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Comp/Grab</th> <th>Matrix *</th> <th>Depth</th> <th>Date</th> <th>Time</th> <th>Cntrs</th> </tr> </thead> <tbody> <tr><td>MW-6</td><td>GRAB</td><td>GW</td><td>-</td><td>11/25/24</td><td>1535</td><td>3</td></tr> <tr><td>MW-7</td><td></td><td>GW</td><td>-</td><td></td><td>1505</td><td>3</td></tr> <tr><td>MW-13</td><td></td><td>GW</td><td>-</td><td></td><td>1410</td><td>3</td></tr> <tr><td>MW-14R</td><td></td><td>GW</td><td>-</td><td></td><td>1515</td><td>3</td></tr> <tr><td>MW-15</td><td></td><td>GW</td><td>-</td><td></td><td>1625</td><td>3</td></tr> <tr><td>MW-601</td><td></td><td>GW</td><td>-</td><td></td><td>1050</td><td>3</td></tr> <tr><td>MW-602</td><td></td><td>GW</td><td>-</td><td></td><td>1445</td><td>3</td></tr> <tr><td>MW-701</td><td></td><td>GW</td><td>-</td><td></td><td>1250</td><td>3</td></tr> <tr><td>MW-702</td><td></td><td>GW</td><td>-</td><td></td><td>1200</td><td>3</td></tr> <tr><td>MW-703</td><td></td><td>GW</td><td>-</td><td></td><td>1125</td><td>3</td></tr> </tbody> </table>														Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	MW-6	GRAB	GW	-	11/25/24	1535	3	MW-7		GW	-		1505	3	MW-13		GW	-		1410	3	MW-14R		GW	-		1515	3	MW-15		GW	-		1625	3	MW-601		GW	-		1050	3	MW-602		GW	-		1445	3	MW-701		GW	-		1250	3	MW-702		GW	-		1200	3	MW-703		GW	-		1125	3		
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs																																																																																						
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MW-15		GW	-		1625	3																																																																																						
MW-601		GW	-		1050	3																																																																																						
MW-602		GW	-		1445	3																																																																																						
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MW-702		GW	-		1200	3																																																																																						
MW-703		GW	-		1125	3																																																																																						
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____ Remarks: Metals - (6010) B,Ca,Ba,Cr,Li,Mo (6020) As,Sb,Cd,Co,Pb,Se (7470) Hg. 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 # MVH																																																																																						
Relinquished by: (Signature) 				Date: 11/26/24		Time: 1600		Received by: (Signature)				Trip Blank Received: Yes / No HCL / MeOH TBR																																																																																
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Temp: °C 75 Bottles Received:				If preservation required by Login: Date/Time																																																																												
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) 				Date: 11/27/24 Time: 0930				Hold: Condition: NCF / OK																																																																												

Company Name/Address: SCS Engineers - KS 8575 West 110th Street Suite 100 Overland Park, KS 66210		Billing Information: Accounts Payable 8575 W. 110th Street Suite 100 Overland Park, KS 66210		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 2 of 2			
Report to: Jason Franks		Email To: jfranks@scsengineers.com;jrockhold@scsengine														 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: Evergy La Cygne Gen Station GW 2024		City/State Collected: La Cygne, MO		Please Circle: PT MT CT ET															
Phone: 913-681-0030		Client Project # 27224503.00 - A		Lab Project # AQUAOPKS-LACYGNE												SDG # L1804441			
Collected by (print): JASON R FRANKS		Site/Facility ID #		P.O. #												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: AQUAOPKS Template: T252583 Prelogin: P1112655 PM: 206 - Jeff Carr PB: BF 11/8/24			
Immediately Packed on Ice N ____ Y ____				Date Results Needed												Shipped Via: FedEX Ground			
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Chloride, F, SO4 125mlHDPE-NoPres	Metals 250mlHDPE-HNO3	TDS 1L-HDPE NoPres							Remarks	Sample # (lab only)	
MW-704		GRAB	GW	—	11/25/24	1330	3	X	X	X								-11	
MW-705			GW	—		1415	3	X	X	X								-12	
MW-706			GW	—		1335	3	X	X	X								-13	
MW-707B			GW	—		1155	3	X	X	X								-14	
MW-708			GW	—		1105	3	X	X	X								-15	
MW-801			GW	—		1600	3	X	X	X								-16	
MW-802			GW	—		1500	3	X	X	X								-17	
MW-803			GW	—		1255	3	X	X	X								-18	
MW-804			GW	—		1205	3	X	X	X								-19	
MW-805			GW	—		1115	3	X	X	X								-20	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Metals - (6010) B,Ca,Ba,Cr,Li,Mo (6020) As,Sb,Cd,Co,Pb,Se (7470) Hg. 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 # MWH																	
Relinquished by: (Signature) 		Date: 11/26/24	Time: 1600	Received by: (Signature)				Trip Blank Received: Yes ☒ No ☐ HCL / MeOH TBR				Temp: MWH °C Bottles Received: 75				If preservation required by Login: Date/Time			
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)				Temp: MWH °C Bottles Received: 75				If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) Erin Ogan				Date: 11/27/24 Time: 0930				Hold:				Condition: NCF / OK			

[illegible]

Date _____

SCS Engineers - KS

Sample Delivery Group: L1804443
Samples Received: 11/27/2024
Project Number: 27217233.24 - A
Description: Evergy La Cygne Gen Station GW 2024

Report To: Jason Franks
8575 West 110th Street
Suite 100
Overland Park, KS 66210

Entire Report Reviewed By:



T. Alan Harvill
Project Manager

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

Pace Analytical National

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

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MW-705 L1804443-12	19
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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SAMPLE SUMMARY

MW-6 L1804443-01 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 15:55
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2412913	1	12/05/24 10:42	12/09/24 20:55	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/19/24 14:21	12/20/24 14:45	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/19/24 14:21	12/20/24 14:45	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-7 L1804443-02 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 15:05
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2412913	1	12/05/24 10:42	12/09/24 20:55	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-13 L1804443-03 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 14:10
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2412913	1	12/05/24 10:42	12/09/24 20:55	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-14R L1804443-04 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 15:15
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-15 L1804443-05 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 16:25
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-601 L1804443-06 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 10:50
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-602 L1804443-07 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 14:45
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-701 L1804443-08 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 12:50
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-702 L1804443-09 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 12:00
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-703 L1804443-10 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 11:25
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-704 L1804443-11 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 13:30
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-705 L1804443-12 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 14:15
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

MW-706 L1804443-13 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 13:35
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-707B L1804443-14 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 11:55
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-708 L1804443-15 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 11:05
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-801 L1804443-16 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 16:00
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-802 L1804443-17 Non-Potable Water

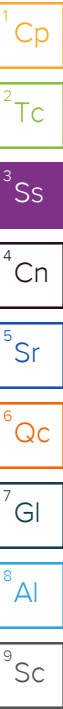
Collected by Jason R. Francis
Collected date/time 11/25/24 15:00
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-803 L1804443-18 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 12:55
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN



SAMPLE SUMMARY

MW-804 L1804443-19 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 12:05
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414102	1	12/06/24 12:11	12/17/24 17:45	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/18/24 23:01	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:01	ZRG	Mt. Juliet, TN

MW-805 L1804443-20 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 11:15
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414560	1	12/09/24 09:15	12/20/24 18:15	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2421114	1	12/19/24 11:55	12/23/24 17:29	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2421114	1	12/19/24 11:55	12/23/24 17:29	ZRG	Mt. Juliet, TN

TW-1 L1804443-21 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 12:40
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414560	1	12/09/24 09:15	12/20/24 18:15	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2419853	1	12/17/24 14:29	12/20/24 18:15	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2419853	1	12/17/24 14:29	12/18/24 23:02	ZRG	Mt. Juliet, TN

DUPLICATE 1 L1804443-22 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 12:50
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414560	1	12/09/24 09:15	12/20/24 18:15	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2421114	1	12/19/24 11:55	12/20/24 18:15	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2421114	1	12/19/24 11:55	12/20/24 14:45	ZRG	Mt. Juliet, TN

DUPLICATE 2 L1804443-23 Non-Potable Water

Collected by Jason R. Francis
Collected date/time 11/25/24 11:15
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2414560	1	12/09/24 09:15	12/20/24 18:15	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2421114	1	12/19/24 11:55	12/20/24 18:15	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2421114	1	12/19/24 11:55	12/20/24 14:45	ZRG	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.



T. Alan Harvill
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.724		0.297	0.521	0.538	0.282	12/09/2024 20:55	WG2412913
(T) Barium	86.3					30.0-143	12/09/2024 20:55	WG2412913
(T) Yttrium	90.4					30.0-136	12/09/2024 20:55	WG2412913

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.12		0.429	0.650	12/20/2024 14:45	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.394		0.309	0.524	0.364	0.241	12/20/2024 14:45	WG2419853
(T) Barium-133	104					30.0-143	12/20/2024 14:45	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.659		0.232	0.430	0.417	0.219	12/09/2024 20:55	WG2412913
(T) Barium	114					30.0-143	12/09/2024 20:55	WG2412913
(T) Yttrium	110					30.0-136	12/09/2024 20:55	WG2412913

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.58		0.436	0.461	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.920		0.369	0.788	0.197	0.155	12/18/2024 23:01	WG2419853
(T) Barium-133	102					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.502		0.219	0.429	0.399	0.211	12/09/2024 20:55	WG2412913
(T) Barium	102					30.0-143	12/09/2024 20:55	WG2412913
(T) Yttrium	89.6					30.0-136	12/09/2024 20:55	WG2412913

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.644		0.265	0.441	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.142	J	0.150	0.267	0.187	0.142	12/18/2024 23:01	WG2419853
(T) Barium-133	89.4					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.555		0.307	0.527	0.541	0.283	12/17/2024 17:45	WG2414102
(T) Barium	92.7					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	87.6					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.735		0.363	0.600	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.180	J	0.194	0.488	0.259	0.177	12/18/2024 23:01	WG2419853
(T) Barium-133	101					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.616		0.344	0.577	0.605	0.316	12/17/2024 17:45	WG2414102
(T) Barium	86.4					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	84.0					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.951		0.447	0.699	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.336	J	0.285	0.470	0.351	0.230	12/18/2024 23:01	WG2419853
(T) Barium-133	99.8					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.395	J	0.265	0.482	0.470	0.247	12/17/2024 17:45	WG2414102
(T) Barium	105					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	84.6					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.522	J	0.341	0.574	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.127	J	0.215	0.329	0.329	0.221	12/18/2024 23:01	WG2419853
(T) Barium-133	106					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0504	U	0.204	0.412	0.372	0.197	12/17/2024 17:45	WG2414102
(T) Barium	94.5					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	96.0					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.146	U	0.275	0.479	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0957	U	0.185	0.318	0.301	0.211	12/18/2024 23:01	WG2419853
(T) Barium-133	109					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.564	J	0.322	0.544	0.567	0.297	12/17/2024 17:45	WG2414102
(T) Barium	84.6					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	94.8					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.27		0.491	0.666	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.706		0.371	0.793	0.350	0.234	12/18/2024 23:01	WG2419853
(T) Barium-133	103					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.323	J	0.273	0.479	0.486	0.254	12/17/2024 17:45	WG2414102
(T) Barium	96.7					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	95.7					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.941		0.410	0.542	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.618		0.306	0.568	0.241	0.173	12/18/2024 23:01	WG2419853
(T) Barium-133	99.4					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.907		0.385	0.640	0.670	0.352	12/17/2024 17:45	WG2414102
(T) Barium	87.3					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	70.2					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.98		0.692	0.710	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	2.08		0.575	1.45	0.234	0.178	12/18/2024 23:01	WG2419853
(T) Barium-133	94.1					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.901		0.325	0.585	0.562	0.298	12/17/2024 17:45	WG2414102
(T) Barium	67.3					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	89.7					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.35		0.454	0.666	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.448		0.317	0.610	0.358	0.237	12/18/2024 23:01	WG2419853
(T) Barium-133	87.4					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.689		0.281	0.514	0.489	0.259	12/17/2024 17:45	WG2414102
(T) Barium	80.5					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	90.0					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.05		0.368	0.544	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.361		0.237	0.496	0.239	0.167	12/18/2024 23:01	WG2419853
(T) Barium-133	106					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.550		0.227	0.438	0.395	0.209	12/17/2024 17:45	WG2414102
(T) Barium	93.2					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	94.5					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.953		0.335	0.458	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.403		0.246	0.412	0.232	0.164	12/18/2024 23:01	WG2419853
(T) Barium-133	115					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.861		0.434	0.735	0.761	0.398	12/17/2024 17:45	WG2414102
(T) Barium	98.8					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	86.9					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.12		0.505	0.831	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.258	J	0.259	0.411	0.335	0.227	12/18/2024 23:01	WG2419853
(T) Barium-133	113					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.604		0.235	0.443	0.408	0.216	12/17/2024 17:45	WG2414102
(T) Barium	102					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	91.2					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.814		0.396	0.622	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.210	J	0.319	0.587	0.470	0.307	12/18/2024 23:01	WG2419853
(T) Barium-133	88.6					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.27		0.301	0.518	0.507	0.266	12/17/2024 17:45	WG2414102
(T) Barium	89.1					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	93.4					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.50		0.428	0.666	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.234	J	0.304	0.484	0.432	0.287	12/18/2024 23:01	WG2419853
(T) Barium-133	89.9					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.980		0.291	0.509	0.499	0.262	12/17/2024 17:45	WG2414102
(T) Barium	87.4					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	95.0					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.70		0.464	0.587	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.720		0.362	0.683	0.310	0.215	12/18/2024 23:01	WG2419853
(T) Barium-133	100					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.636		0.240	0.453	0.416	0.220	12/17/2024 17:45	WG2414102
(T) Barium	88.1					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	98.3					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.946		0.373	0.549	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.311	J	0.285	0.478	0.359	0.238	12/18/2024 23:01	WG2419853
(T) Barium-133	104					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.996		0.247	0.464	0.414	0.219	12/17/2024 17:45	WG2414102
(T) Barium	85.9					30.0-143	12/17/2024 17:45	WG2414102
(T) Yttrium	97.6					30.0-136	12/17/2024 17:45	WG2414102

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.38		0.382	0.526	12/18/2024 23:01	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.382		0.291	0.544	0.325	0.225	12/18/2024 23:01	WG2419853
(T) Barium-133	103					30.0-143	12/18/2024 23:01	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.431	J	0.271	0.476	0.526	0.274	12/20/2024 18:15	WG2414560
(T) Barium	94.3					30.0-143	12/20/2024 18:15	WG2414560
(T) Yttrium	98.7					30.0-136	12/20/2024 18:15	WG2414560

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.809		0.419	0.654	12/23/2024 17:29	WG2421114

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.378	J	0.319	0.558	0.388	0.258	12/23/2024 17:29	WG2421114
(T) Barium-133	107					30.0-143	12/23/2024 17:29	WG2421114

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.01		0.238	0.436	0.442	0.231	12/20/2024 18:15	WG2414560
(T) Barium	102					30.0-143	12/20/2024 18:15	WG2414560
(T) Yttrium	102					30.0-136	12/20/2024 18:15	WG2414560

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.01		0.304	0.573	12/20/2024 18:15	WG2419853

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.000	U	0.189	0.220	0.364	0.241	12/18/2024 23:02	WG2419853
(T) Barium-133	108					30.0-143	12/18/2024 23:02	WG2419853

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.477		0.230	0.428	0.444	0.232	12/20/2024 18:15	WG2414560
(T) Barium	103					30.0-143	12/20/2024 18:15	WG2414560
(T) Yttrium	102					30.0-136	12/20/2024 18:15	WG2414560

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.919		0.385	0.566	12/20/2024 18:15	WG2421114

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.442		0.309	0.537	0.351	0.229	12/20/2024 14:45	WG2421114
(T) Barium-133	112					30.0-143	12/20/2024 14:45	WG2421114

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.411	J	0.222	0.427	0.430	0.226	12/20/2024 18:15	WG2414560
(T) Barium	93.5					30.0-143	12/20/2024 18:15	WG2414560
(T) Yttrium	112					30.0-136	12/20/2024 18:15	WG2414560

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.501	J	0.300	0.541	12/20/2024 18:15	WG2421114

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0897	U	0.202	0.297	0.329	0.221	12/20/2024 14:45	WG2421114
(T) Barium-133	108					30.0-143	12/20/2024 14:45	WG2421114

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4156239-1 12/09/24 20:55

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>	0.142	0.271	0.143
(T) Barium	111		111		
(T) Yttrium	92.4		92.4		

L1803946-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1803946-01 12/09/24 20:55 • (DUP) R4156239-5 12/09/24 20:55

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	-0.0954	0.199	0.385	0.204	-0.00277	0.339	0.640	0.334	0.000	0.236	<u>U</u>	20	3
(T) Barium	92.3				99.6	99.6							
(T) Yttrium	99.9				101	101							

Laboratory Control Sample (LCS)

(LCS) R4156239-2 12/09/24 20:55

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.67	93.3	80.0-120	
(T) Barium			103		
(T) Yttrium			84.1		

L1803436-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803436-01 12/09/24 20:55 • (MS) R4156239-3 12/09/24 20:55 • (MSD) R4156239-4 12/09/24 20:55

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	-0.110	11.9	12.0	71.0	71.8	1	70.0-130			1.17		20
(T) Barium		92.1			90.8	110							
(T) Yttrium		95.7			101	106							

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4161750-1 12/17/24 17:45

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.438	⬇	0.314	0.558	0.294
(T) Barium	104		104		
(T) Yttrium	44.1		44.1		

L1804395-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1804395-01 12/17/24 17:45 • (DUP) R4161750-5 12/17/24 17:45

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	-0.294	0.322	0.592	0.309	0.314	0.438	0.782	0.408	200	1.12	⬇	20	3
(T) Barium	85.7				96.2	96.2							
(T) Yttrium	86.9				85.2	85.2							

Laboratory Control Sample (LCS)

(LCS) R4161750-2 12/17/24 17:45

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.49	110	80.0-120	
(T) Barium			99.6		
(T) Yttrium			84.2		

L1804443-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804443-08 12/17/24 17:45 • (MS) R4161750-3 12/17/24 17:45 • (MSD) R4161750-4 12/17/24 17:45

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	0.564	12.6	12.3	120	118	1	70.0-130			2.09		20
(T) Barium		84.6			95.3	91.1							
(T) Yttrium		94.8			82.2	75.7							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4162056-1 12/20/24 18:15

	MB Result	MB Qualifier	MB 2 sigma CE	MB MDA	MB Lc
Analyte	pCi/l		+ / -	pCi/l	pCi/l
Radium-228	0.428		0.152	0.290	0.153
(T) Barium	113		113		
(T) Yttrium	89.5		89.5		

L1805515-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1805515-02 12/20/24 22:00 • (DUP) R4162056-5 12/20/24 18:15

	Original Result	Original 2 sigma CE	Original MDA	Original Lc	DUP Result	DUP 2 sigma CE	DUP MDA	DUP Lc	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
Analyte	Bq/l	+ / -	pCi/l	pCi/l	pCi/l	+ / -	pCi/l	pCi/l	%			%	
Radium-228	0.0188	0.00972	0.0185	0.00962	0.559	0.329	0.638	0.333	9.52	0.121	J	20	3
(T) Barium	107				108	108							
(T) Yttrium	98.2				109	109							

Laboratory Control Sample (LCS)

(LCS) R4162056-2 12/20/24 18:15

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	pCi/l	pCi/l	%	%	
Radium-228	5.00	4.42	88.4	80.0-120	
(T) Barium			120		
(T) Yttrium			100		

L1804443-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804443-20 12/20/24 18:15 • (MS) R4162056-3 12/20/24 18:15 • (MSD) R4162056-4 12/20/24 18:15

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
Analyte	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-228	10.0	0.431	9.01	8.41	85.8	79.7	1	70.0-130			6.95		20
(T) Barium		94.3			90.5	103							
(T) Yttrium		98.7			115	101							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4160256-1 12/18/24 23:01

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0277	<u>U</u>	0.0700	0.113	0.0742
(T) Barium-133	72.0		72.0		

L1804443-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1804443-21 12/18/24 23:02 • (DUP) R4160256-3 12/18/24 23:01

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	0.000	0.189	0.364	0.241	-0.00757	0.152	0.316	0.215	0.000	0.0312	<u>U</u>	20	3
(T) Barium-133	108				93.9	93.9							

Laboratory Control Sample (LCS)

(LCS) R4160256-2 12/18/24 23:01

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.15	103	80.0-120	
(T) Barium-133			99.7		

L1804443-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804443-08 12/18/24 23:01 • (MS) R4160256-4 12/19/24 14:00 • (MSD) R4160256-5 12/19/24 14:00

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-226	20.0	0.706	17.9	19.9	85.9	95.8	1	75.0-125			10.5		20
(T) Barium-133		103			109	111							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4161794-1 12/20/24 14:45

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0229	<u>U</u>	0.0578	0.0936	0.0612
(T) Barium-133	87.3		87.3		

L1809501-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1809501-01 12/20/24 14:45 • (DUP) R4161794-5 12/20/24 14:45

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	0.257	0.254	0.325	0.225	0.455	0.289	0.296	0.202	55.5	0.513		20	3
(T) Barium-133	113				113	113							

Laboratory Control Sample (LCS)

(LCS) R4161794-2 12/20/24 14:45

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.01	100	80.0-120	
(T) Barium-133			82.4		

L1804443-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804443-20 12/23/24 17:29 • (MS) R4161794-6 12/23/24 17:29 • (MSD) R4161794-7 12/23/24 17:29

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	0.378	20.4	23.7	100	116	1	75.0-125			14.7		20
(T) Barium-133		107			107	108							

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

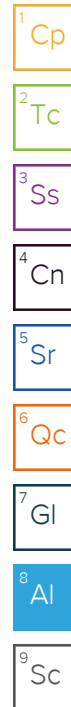
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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		

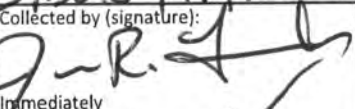
¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* 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.



Company Name/Address: SCS Engineers - KS 8575 West 110th Street Suite 100 Overland Park, KS 66210				Billing Information: Accounts Payable 8575 W. 110th Street Suite 100 Overland Park, KS 66210				Analysis / Container / Preservative Pres Chk 27 27				Chain of Custody Page <u>1</u> of <u>2</u> 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 # F147			
Report to: Jason Franks				Email To: jfranks@scsengineers.com; jrockhold@scsengine											
Project Description: Evergy La Cygne Gen Station GW 2024				City/State Collected: LALCYNG, KS		Please Circle: PT ☐ M ☒ CT ☐ ET									
Phone: 913-681-0030		Client Project # 27217233.24 - A		Lab Project # AQUAOPKS-LACYGNE											
Collected by (print): JASON R. FRANKS		Site/Facility ID #		P.O. #											
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		No. of Cntrs							
Immediately Packed on Ice N ☐ Y ☒															
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time									
MW-6		GRAB	NPW	—	11/25/24	1555	2	X	X						
MW-7			NPW	—		1505	2	X	X						
MW-13			NPW	—		1410	2	X	X						
MW-14R			NPW	—		1515	2	X	X						
MW-15			NPW	—		1625	2	X	X						
MW-601			NPW	—		1050	2	X	X						
MW-602			NPW	—		1445	2	X	X						
MW-701			NPW	—		1250	2	X	X						
MW-702			NPW	—		1200	2	X	X						
MW-703			NPW	—		1125	2	X	X						
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Report RAD 226/228 SEPARATE + COMBINED				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: 11/26/24	Time: 1600	Received by: (Signature)		Trip Blank Received: Yes/No HCL/MeOH TBR									
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: _____ °C Bottles Received: 50		PH - 10BD-H0941 TRC - 3323A228		Date/Time					
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) CRABER		Date: 11-27-24 Time: 0930		Hold:		Condition: NCF / OK					

Company Name/Address: SCS Engineers - KS 8575 West 110th Street Suite 100 Overland Park, KS 66210		Billing Information: Accounts Payable 8575 W. 110th Street Suite 100 Overland Park, KS 66210		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 2 of 2		
Report to: Jason Franks		Email To: jfranks@scsengineers.com;jrockhold@scsengine														 PEOPLE ADVANCING SCIENCE		
Project Description: Evergry La Cygne Gen Station GW 2024		City/State Collected: La Cygne, KS		Please Circle: PT MT CT ET PT												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		
Phone: 913-681-0030		Client Project # 27217233.24 - A		Lab Project # AQUAOPKS-LACYGNE												SDG # L1804447		
Collected by (print): JASON R. FRANKS		Site/Facility ID #		P.O. #												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: AQUAOPKS Template: T249867 Prelogin: P1112656 PM: 206 - Jeff Carr PB: BF 11/8/24		
Immediately Packed on Ice N ☐ Y ☒		Date Results Needed		No. of Cntrs												Shipped Via: FedEX Ground		
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time											Remarks	Sample # (lab only)
MW-704		GRAB	NPW	—	11/25/24	1330	2	X	X									11
MW-705			NPW	—		1415	2	X	X									12
MW-706			NPW	—		1335	2	X	X									13
MW-707B			NPW	—		1155	2	X	X									14
MW-708			NPW	—		1105	2	X	X									15
MW-801			NPW	—		1600	2	X	X									16
MW-802			NPW	—		1500	2	X	X									17
MW-803			NPW	—		1255	2	X	X									18
MW-804			NPW	—		1205	2	X	X									19
MW-805			NPW	—		1115	2	X	X									20
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks: REPORT RAD 226 / 228 SEPARATE + COMBINED		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 used: ☒ 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: 11/26/24		Time: 1600		Received by: (Signature)		Trip Blank Received: Yes ☒ No ☐ HCL / MeOH TBR		Temp: _____ °C		Bottles Received: 50		If preservation required by Login: Date/Time				
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: _____ °C		Bottles Received:		If preservation required by Login: Date/Time						
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) CRobert		Date: 11-27-24		Time: 0930		Hold:		Condition: NCF / OK				

[illegible]

APPENDIX D

STATISTICAL ANALYSES

- D.1 Fall 2023 Semiannual Detection Monitoring Statistical Analyses
- D.2 Spring 2024 Semiannual Assessment Monitoring Statistical Analyses

Appendix D.1

Fall 2023 Semiannual Detection Monitoring Statistical Analyses

MEMORANDUM

March 1, 2024

To: La Cygne Generating Station
25166 East 2200 Road
La Cygne, Kansas 66040
Evergy Metro, Inc.



From: SCS Engineers
John Rockhold, P.G.
Douglas Doerr, P.E.

RE: Determination of Statistically Significant Increases –
CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment
Multi-Unit Groundwater Monitoring System
Fall 2023 Semiannual Detection Monitoring 40 CFR 257.94

Statistical analysis of monitoring data from the multi-unit groundwater monitoring system for the CCR Landfill, Lower AQC Impoundment and Upper AQC Impoundment at the La Cygne Generating Station has been completed in substantial compliance with the “Statistical Method Certification by A Qualified Professional Engineer” dated October 27, 2023. Detection monitoring groundwater samples were collected on November 17, 2023. Review and validation of the results from the November 2023 Detection Monitoring Event was completed on December 29, 2023, which constitutes completion and finalization of detection monitoring laboratory analyses. A statistical analysis was then conducted to determine whether there was a statistically significant increase (SSI) over background values for each constituent listed in Appendix III to Part 257-Constituents for Detection Monitoring.

The completed statistical evaluation identified four Appendix III constituents above their respective prediction limits.

Constituent	*UPL/LPL	Wells with SSIs	Observation November 17, 2023
Calcium	403	MW-805	459
Chloride	201	MW-706 MW-805	214 464
Total Dissolved Solids	6050	MW-707B	6930
Sulfate	1950	MW-707B	5010

*UPL/LPL – Upper Prediction Limit/Lower Prediction Limit

Determination: A statistical evaluation was completed for all Appendix III detection monitoring constituents in accordance with the certified statistical method. The statistical evaluation identified

SSIs above the background prediction limits for calcium at MW-805, chloride at MW-706 and MW-805, total dissolved solids at MW-707B, and sulfate at MW-707B.

Attached to this memorandum are the following backup information:

Attachment 1: Sanitas™ Output:

Statistical evaluation output from Sanitas™ for the prediction limit analysis. This includes prediction limit plots, prediction limit background data, detection sample results, and a Prediction Limit summary table. Output documentation includes the analytical data used for the statistical analyses.

Attachment 2: Sanitas™ Configuration Settings:

Screen shots of the applicable Sanitas™ configuration settings for the statistical prediction limit analysis. This includes data configuration, output configuration, prediction limit configuration and other tests configuration.

[illegible]

La Cygne Generating Station
Determination of Statistically Significant Increases
CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment
Multi-Unit Groundwater Monitoring System
March 1, 2024

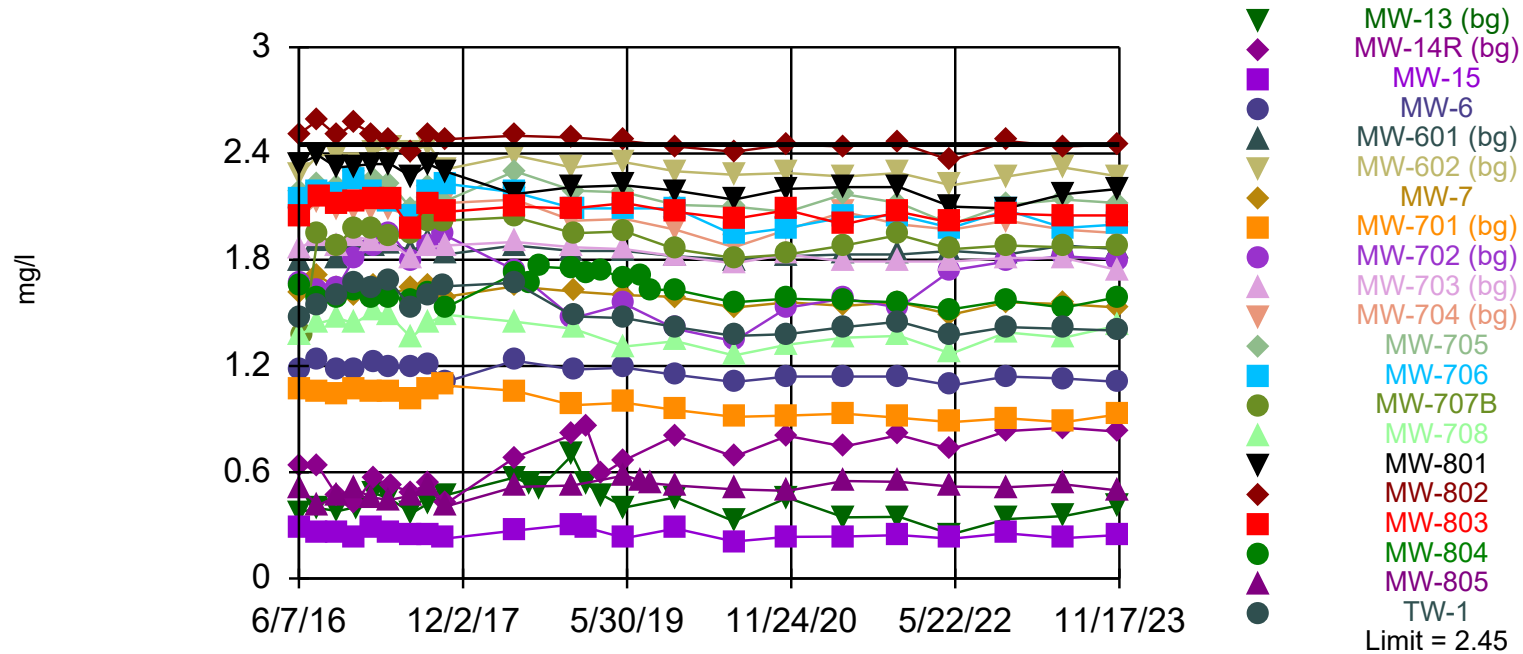
ATTACHMENT 1

Sanitas™ Output

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 174 background values. Annual per-constituent alpha = 0.00002912. Individual comparison alpha = 0.00000112 (1 of 3). Comparing 13 points to limit.

Constituent: BORON Analysis Run 2/29/2024 1:33 PM View: Interwell III

LaCygne Data: LaC GW Data

Prediction Limit

Constituent: BORON (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III

LaCygne Data: LaC GW Data

	MW-802	MW-805	MW-708	MW-701 (bg)	MW-801	MW-703 (bg)	MW-705	MW-704 (bg)	MW-702 (bg)
6/7/2016	2.51	0.51	1.37	1.07	2.34	1.86	2.19	2.03	
6/8/2016									1.67
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016				1.06	2.39	1.93	2.22	2.13	1.62
8/10/2016	2.59	0.415	1.44						
8/11/2016									
8/12/2016									
10/11/2016	2.5	0.462		1.04	2.32	1.88	2.21	2.08	1.64
10/12/2016			1.47						
10/13/2016									
12/6/2016	2.57	0.507		1.07	2.33	1.93		2.09	
12/7/2016							2.3		
12/8/2016									1.81
12/9/2016			1.44						
12/12/2016									
12/13/2016									
2/6/2017		0.456							
2/7/2017	2.51			1.05	2.34	1.91		2.09	
2/8/2017									1.87
2/9/2017			1.51				2.25		
2/10/2017									
4/4/2017	2.48	0.444		1.06		1.9		2.09	
4/5/2017									1.95
4/6/2017			1.48		2.34		2.23		
4/7/2017									
6/13/2017	2.41	0.468		1.01			2.09	2.04	
6/14/2017			1.36		2.27	1.81			
6/15/2017									1.8
8/7/2017	2.5								
8/8/2017		0.518	1.44	1.07				2.09	
8/9/2017					2.34		2.21		1.87
8/10/2017						1.87			
10/3/2017				1.09			2.13	2.12	1.94
10/4/2017	2.48		1.49		2.3				
10/5/2017		0.406				1.88			
10/6/2017									
5/23/2018	2.5	0.517	1.45		2.17				
5/24/2018				1.06		1.9	2.3	2.14	1.74
7/11/2018									
8/16/2018									
11/30/2018	2.49	0.525			2.21				
12/3/2018				0.979		1.87		2.02	1.47
12/4/2018			1.41				2.19		
1/14/2019									
3/11/2019									
5/23/2019	2.47	0.582	1.31	0.992	2.22	1.86	2.18	2.03	1.55
7/17/2019		0.55							
8/22/2019		0.537							
11/7/2019	2.44	0.525	1.34	0.952	2.19	1.82	2.11	1.97	1.41
5/19/2020	2.41	0.503	1.26	0.913	2.14	1.78	2.1	1.87	1.34

Prediction Limit

Page 2

Constituent: BORON (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-802	MW-805	MW-708	MW-701 (bg)	MW-801	MW-703 (bg)	MW-705	MW-704 (bg)	MW-702 (bg)
11/12/2020	2.45	0.495	1.32	0.92	2.2	1.83	2.07	1.97	1.53
5/18/2021	2.44	0.55			2.21				
5/19/2021			1.36	0.931		1.79	2.17	2.07	1.58
11/18/2021	2.46	0.546	1.37	0.907	2.21	1.79	2.12	2	1.53
5/9/2022	2.36	0.519	1.27	0.883	2.1	1.79	2	1.97	1.74
11/9/2022	2.47	0.515	1.39	0.905	2.09	1.81	2.11	2.02	1.79
5/17/2023	2.44	0.531	1.36	0.883	2.17	1.81	2.14	1.97	1.82
11/17/2023	2.45	0.496	1.43	0.927	2.2	1.74	2.12	1.95	1.8

Prediction Limit

Page 3

Constituent: BORON (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III

LaCygne Data: LaC GW Data

	MW-7	MW-6	MW-804	MW-706	MW-14R (bg)	MW-601 (bg)	MW-803	MW-15	TW-1
6/7/2016									
6/8/2016	1.61	1.18	1.65	2.14					
6/9/2016					0.629	1.79	2.04	0.282	1.47
6/10/2016									
6/23/2016									
8/9/2016				2.19		1.91		0.255	1.54
8/10/2016	1.71	1.23	1.58						
8/11/2016					0.63				
8/12/2016							2.15		
10/11/2016			1.59	2.17					1.6
10/12/2016								0.252	
10/13/2016	1.64	1.18			0.463	1.81	2.12		
12/6/2016				2.25			2.13		1.67
12/7/2016			1.62			1.92		0.237	
12/8/2016									
12/9/2016					0.427				
12/12/2016	1.6	1.18							
12/13/2016									
2/6/2017									
2/7/2017			1.59	2.18				0.285	1.64
2/8/2017	1.65					1.88	2.14		
2/9/2017		1.22			0.566				
2/10/2017									
4/4/2017			1.59	2.13					1.68
4/5/2017	1.61	1.19						0.261	
4/6/2017						1.89			
4/7/2017					0.526		2.14		
6/13/2017			1.57	2.05			1.97		1.53
6/14/2017								0.24	
6/15/2017	1.64	1.19			0.488	1.85			
8/7/2017									
8/8/2017			1.61						1.6
8/9/2017	1.65	1.21		2.18		1.9	2.12		
8/10/2017					0.537			0.251	
10/3/2017								0.225	1.65
10/4/2017				2.23			2.07		
10/5/2017	1.59	1.11	1.53		0.42				
10/6/2017						1.83			
5/23/2018	1.65	1.23	1.72		0.682	1.88	2.1	0.27	
5/24/2018				2.18					1.67
7/11/2018			1.67						
8/16/2018			1.76						
11/30/2018			1.75		0.812	1.85	2.09	0.305	
12/3/2018									
12/4/2018	1.62	1.18		2.09					1.48
1/14/2019			1.73		0.859			0.288	
3/11/2019			1.74		0.591				
5/23/2019	1.6	1.19	1.69	2.09	0.669	1.85	2.12	0.228	1.47
7/17/2019			1.71						
8/22/2019			1.63						
11/7/2019	1.59	1.15	1.63	2.09	0.807	1.82	2.07	0.282	1.42
5/19/2020	1.53	1.11	1.56	1.94	0.688	1.8	2.03	0.209	1.37

Prediction Limit

Constituent: BORON (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-7	MW-6	MW-804	MW-706	MW-14R (bg)	MW-601 (bg)	MW-803	MW-15	TW-1
11/12/2020	1.56	1.14	1.58	1.98	0.805	1.82	2.08	0.235	1.38
5/18/2021			1.57		0.746	1.83	2	0.237	
5/19/2021	1.54	1.14		2.04					1.42
11/18/2021	1.56	1.14	1.56	2.05	0.81	1.83	2.07	0.245	1.45
5/9/2022	1.49	1.09	1.52	1.98	0.73	1.85	2.01	0.225	1.37
11/9/2022	1.56	1.14	1.57	2.08	0.832	1.83	2.06	0.255	1.42
5/17/2023	1.55	1.13	1.53	1.98	0.851	1.88	2.05	0.228	1.41
11/17/2023	1.53	1.11	1.59	2	0.829	1.86	2.05	0.246	1.4

Prediction Limit

Constituent: BORON (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III

LaCygne Data: LaC GW Data

	MW-13 (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	0.375		
6/10/2016		2.28	
6/23/2016			1.38
8/9/2016		2.39	1.94
8/10/2016			
8/11/2016	0.397		
8/12/2016			
10/11/2016			1.88
10/12/2016			
10/13/2016	0.381	2.39	
12/6/2016			1.98
12/7/2016			
12/8/2016			
12/9/2016		2.34	
12/12/2016			
12/13/2016	0.403		
2/6/2017			
2/7/2017			1.97
2/8/2017		2.41	
2/9/2017			
2/10/2017	0.483		
4/4/2017			1.93
4/5/2017			
4/6/2017	0.449		
4/7/2017		2.44	
6/13/2017			1.95
6/14/2017			
6/15/2017	0.368	2.41	
8/7/2017			
8/8/2017	0.422		2.02
8/9/2017			
8/10/2017		2.45	
10/3/2017			2.02
10/4/2017			
10/5/2017	0.47	2.31	
10/6/2017			
5/23/2018	0.57	2.39	
5/24/2018			2.04
7/11/2018	0.533		
8/16/2018	0.513		
11/30/2018	0.698	2.32	
12/3/2018			
12/4/2018			1.95
1/14/2019	0.539		
3/11/2019	0.47		
5/23/2019	0.401	2.35	1.96
7/17/2019			
8/22/2019			
11/7/2019	0.458	2.3	1.86
5/19/2020	0.324	2.28	1.81

Prediction Limit

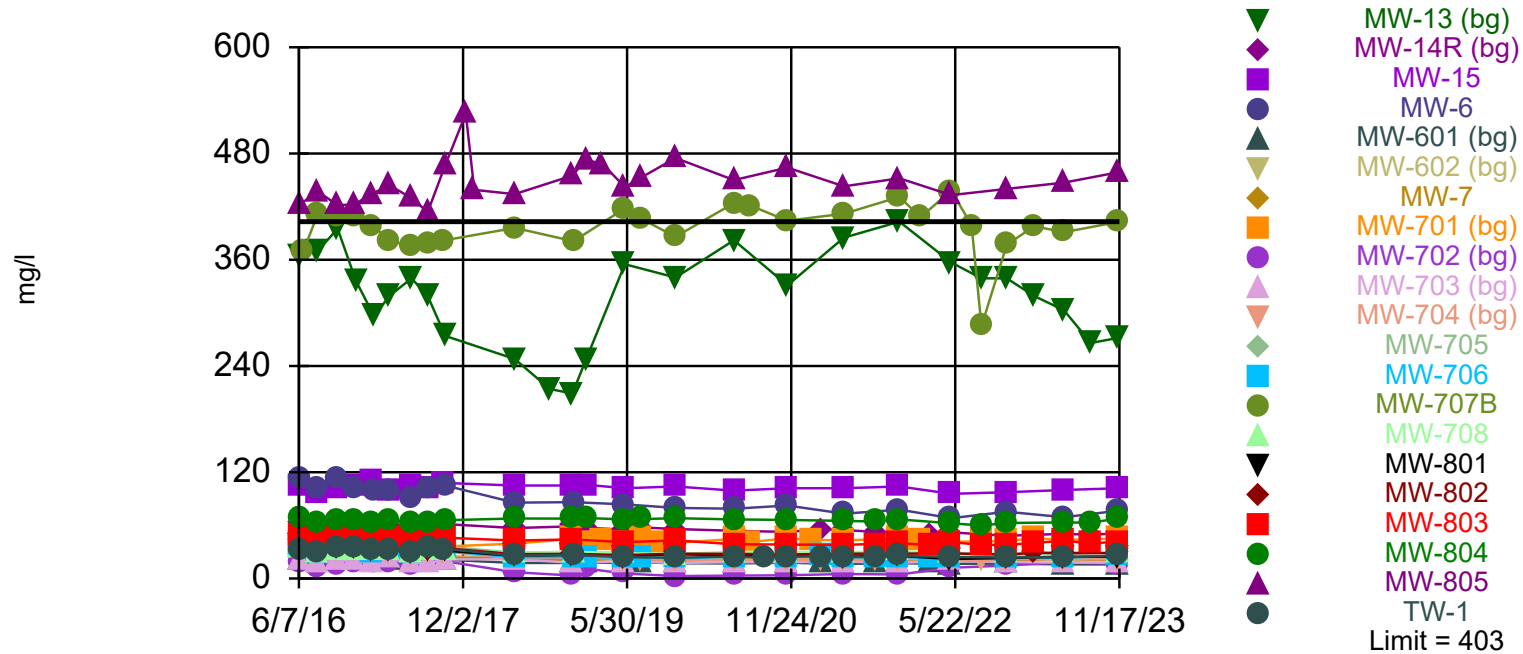
Constituent: BORON (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-13 (bg)	MW-602 (bg)	MW-707B
11/12/2020	0.456	2.29	1.83
5/18/2021	0.345	2.27	
5/19/2021			1.88
11/18/2021	0.348	2.29	1.94
5/9/2022	0.25	2.22	1.86
11/9/2022	0.335	2.27	1.88
5/17/2023	0.353	2.32	1.87
11/17/2023	0.413	2.27	1.87

Exceeds Limit: MW-805

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 198 background values. Annual per-constituent alpha = 0.00001962. Individual comparison alpha = 7.5e-7 (1 of 3). Comparing 13 points to limit.

Constituent: CALCIUM Analysis Run 2/29/2024 1:33 PM View: Interwell III

LaCygne Data: LaC GW Data

Prediction Limit

Constituent: CALCIUM (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell I

LaCygne Data: LaC GW Data

[illegible]

Prediction Limit

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Constituent: CALCIUM (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-802	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-805	MW-801	MW-701 (bg)	MW-6
11/7/2019	28	26.7	21	27.7	17.6	475	27.5	40.4	79.7
5/19/2020	27.8	29.4	20.9	30.2	18.5	450	26.2	44.7	78.8
7/13/2020								41.3	
8/27/2020									
11/12/2020	27.1	28.8	21.5	30.1	18.4	464	26.4	45.4	82.4
2/4/2021								43.5	
3/3/2021			20.7						
5/18/2021	28					443	24.8		
5/19/2021		28.6	21.1	29.6	19			43	73.2
8/30/2021			20.8						
11/18/2021	28	28.7	21.9	30.9	17.8	452	25.6	45.3	77.8
1/27/2022								42.9	
3/3/2022									
5/9/2022	28.4	27.6	20.6	28.6	19.8	433	22.1	41.6	68.2
7/15/2022									
8/17/2022			19.8					42	
11/9/2022	26.9	26.9	22	28.3	18.6	440	23.2	42.4	75.3
2/8/2023	29.1							45.4	
5/17/2023	28.8	27.7	21.5	29.1	17.9	447	24.6	43.5	69.2
8/15/2023									
11/17/2023	28.6	29.9	21.8	30.4	18	459	24.6	45.3	76.7

Prediction Limit

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Constituent: CALCIUM (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-804	MW-706	MW-7	MW-702 (bg)	MW-601 (bg)	TW-1	MW-15	MW-803	MW-14R (bg)
11/7/2019	68.2	22.5	20	2.73	17.2	23.3	104	43.1	55.8
5/19/2020	66.7	24.8	21.8	3.33	17.1	25	99.3	38.7	53.9
7/13/2020									
8/27/2020						23.6			
11/12/2020	66.2	24.4	20.5	3.6	17.7	24.6	102	38.4	52.7
2/4/2021									
3/3/2021		25.7			17	24.9			55.4
5/18/2021	65.1				16.7		102	37.9	54.7
5/19/2021		24.1	21	5.07		24.5			
8/30/2021	64.4	23.8			16.8	24.2		39	52.6
11/18/2021	66.8	24.6	20.3	4.61	17.2	25.5	104	40	52.2
1/27/2022									
3/3/2022		22.7			16.8			37.7	48.5
5/9/2022	62.3	23.7	20.7	12.1	16.6	24.3	95.6	41	52
7/15/2022									
8/17/2022	59.9							37.9	
11/9/2022	62.7	23.2	20.2	14.6	16.8	23.8	97.4	37.9	48.3
2/8/2023								40.2	
5/17/2023	63.3	23.6	22	18.3	15.9	23.9	100	42.6	50.5
8/15/2023	63.1							39.7	49.3
11/17/2023	67.9	25.4	19.9	16.6	16	25.8	102	41.8	51.1

Prediction Limit

Constituent: CALCIUM (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-13 (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	363		
6/10/2016		24.7	
6/23/2016			371
8/9/2016		23.3	412
8/10/2016			
8/11/2016	371		
8/12/2016			
10/11/2016			408
10/12/2016			
10/13/2016	395	25.7	
12/6/2016			410
12/7/2016			
12/8/2016			
12/9/2016		25.3	
12/12/2016			
12/13/2016	336		
2/6/2017			
2/7/2017			398
2/8/2017		24	
2/9/2017			
2/10/2017	297		
4/4/2017			382
4/5/2017			
4/6/2017	320		
4/7/2017		24.9	
6/13/2017			374
6/14/2017			
6/15/2017	339	23.2	
8/7/2017			
8/8/2017	319		378
8/9/2017			
8/10/2017		23.3	
10/3/2017			382
10/4/2017			
10/5/2017	274	25.3	
10/6/2017			
12/12/2017			
1/9/2018			
5/23/2018	248	22.9	
5/24/2018			396
9/17/2018	214		
11/30/2018	209	23.7	
12/3/2018			
12/4/2018			381
1/14/2019	247		
1/15/2019			
3/11/2019			
5/23/2019	355	23.1	418
7/17/2019			406
8/23/2019			

Prediction Limit

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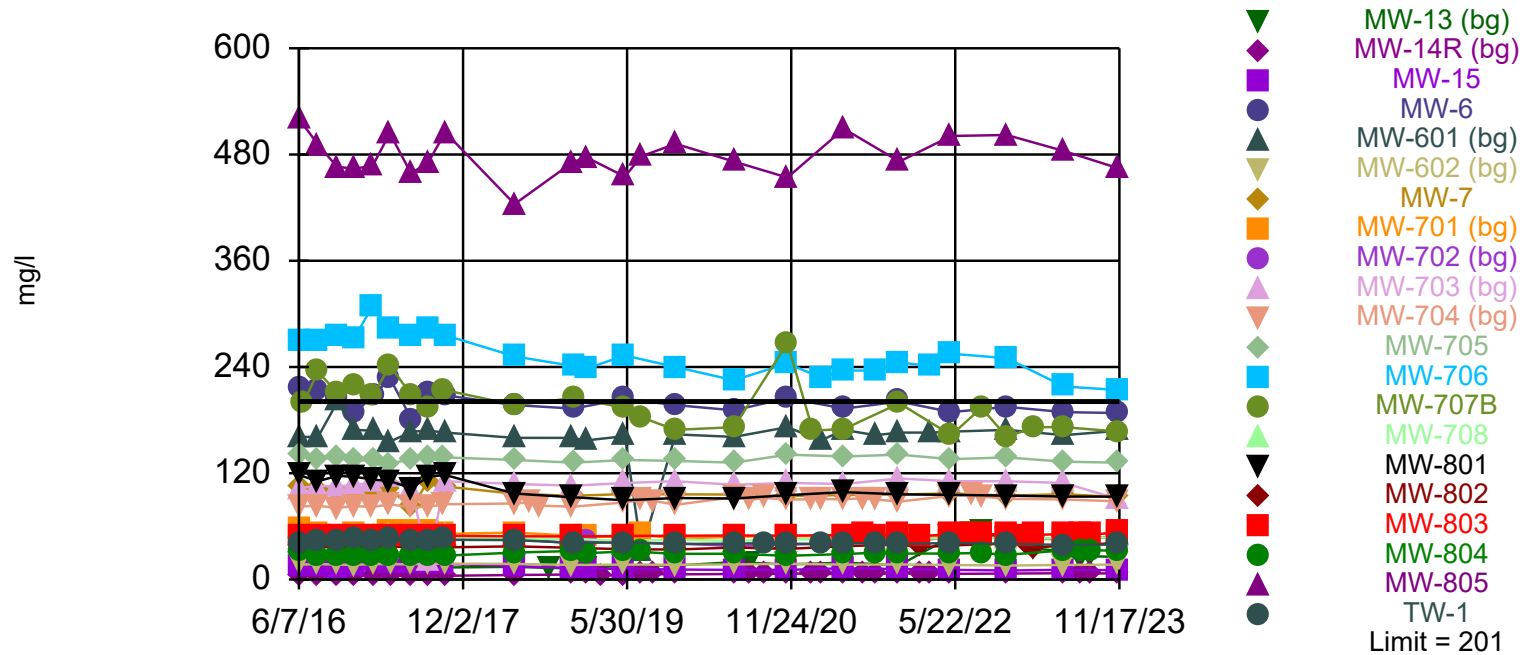
Constituent: CALCIUM (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-13 (bg)	MW-602 (bg)	MW-707B
11/7/2019	340	24.9	386
5/19/2020	382	23.8	424
7/13/2020			421
8/27/2020			
11/12/2020	331	23.4	404
2/4/2021			
3/3/2021			
5/18/2021	385	23.5	
5/19/2021			412
8/30/2021			
11/18/2021	403	23.2	431
1/27/2022			408
3/3/2022			
5/9/2022	357	21.6	438
7/15/2022			399
8/17/2022	339		285
11/9/2022	339	22.2	377
2/8/2023	319		398
5/17/2023	303	22.6	391
8/15/2023	266		
11/17/2023	272	22	403

Exceeds Limit: MW-706, MW-805

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 213 background values. Annual per-constituent alpha = 0.00001893. Individual comparison alpha = 7.3e-7 (1 of 3). Comparing 13 points to limit.

Constituent: CHLORIDE Analysis Run 2/29/2024 1:33 PM View: Interwell III

LaCygne Data: LaC GW Data

Prediction Limit

Constituent: CHLORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell I

LaCygne Data: LaC GW Data

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Prediction Limit

Constituent: CHLORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III

LaCygne Data: LaC GW Data

	MW-705	MW-805	MW-802	MW-701 (bg)	MW-708	MW-801	MW-703 (bg)	MW-704 (bg)	MW-7
11/7/2019	134	492	33.8	46.2	45	92	111	84.5	96.2
5/19/2020	132	472	36.2	48.3	43.6	91.4	107	93	95.9
7/13/2020								90.1	
8/27/2020								92.2	
11/12/2020	141	454	34.5	49.1	45.5	95.2	109	90.2	94.2
2/4/2021								90.8	
3/3/2021								91	
5/18/2021		509	37.7			98.7			
5/19/2021	139			48.2	45		108	90.5	95.4
7/21/2021								91.9	
8/30/2021								90.4	
11/18/2021	141	472	39.6	47.4	46.2	96.2	114	88.1	95.9
1/27/2022			36.3						
3/3/2022									
5/9/2022	136	501	38.5	48.5	46.7	95.7	111	94.5	97.3
7/15/2022								95.2	
7/19/2022									
8/17/2022				48.6				93.9	
11/9/2022	138	502	40.6	46.4	46.4	94.7	111	91.1	94.7
1/12/2023			40						
2/8/2023			36	45.7					
5/17/2023	133	484	38.4	45.5	46.5	93.6	109	90.3	96.3
7/12/2023									
8/15/2023									
11/17/2023	132	464	41.2	48.7	47.8	93.6	90.6	88.3	93.1

Prediction Limit

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Constituent: CHLORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-706	MW-6	MW-804	MW-702 (bg)	MW-14R (bg)	MW-601 (bg)	MW-803	MW-15	TW-1
6/7/2016									
6/8/2016	270	216	32.8	44.9					
6/9/2016					4.95	161	48.1	14.4	41.5
6/10/2016									
6/23/2016									
8/9/2016	269			41.7		161		15.8	42.9
8/10/2016		214	26.1						
8/11/2016					5.05				
8/12/2016							48.8		
10/11/2016	274		26.3	41.8					43.4
10/12/2016								12.9	
10/13/2016		206			4.22	201	48.4		
12/6/2016	272						49.9		45.1
12/7/2016			25.5			169		16.5	
12/8/2016				46.7					
12/9/2016					3.86				
12/12/2016		189							
12/13/2016									
2/6/2017									
2/7/2017	309		25.3					20.2	44.5
2/8/2017				48.4		168	49.3		
2/9/2017		208			3.98				
2/10/2017									
4/4/2017	282		26						45.7
4/5/2017		227		48.4				19.3	
4/6/2017						156			
4/7/2017					4.11		49.5		
6/13/2017	274		26				49.2		44.3
6/14/2017								18.5	
6/15/2017		181		46.2	4.25	167			
8/7/2017									
8/8/2017			26.3						43.5
8/9/2017	282	210		48.1		168	49.5		
8/10/2017					4.38			17.4	
10/3/2017				48.5				17.5	44.9
10/4/2017	276						49.3		
10/5/2017		208	26.9		4.12				
10/6/2017						166			
5/23/2018		197	30.4		5.17	160	48.9	15.2	
5/24/2018	252			45.8					44.5
7/11/2018									
8/16/2018									
9/17/2018									
11/30/2018			32.2		5.69	160	48.7	12.9	
12/3/2018				40.9					
12/4/2018	241	193							41.4
1/14/2019			29.7	43	5.96	157		12.3	
1/15/2019	238								
3/11/2019					4.44				
5/23/2019	253	204	31.7	41.8	5.33	162	49.2	12	41.8
7/17/2019			31.1		6.14	32.3			
8/23/2019					6.08				

Prediction Limit

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Constituent: CHLORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III

LaCygne Data: LaC GW Data

	MW-706	MW-6	MW-804	MW-702 (bg)	MW-14R (bg)	MW-601 (bg)	MW-803	MW-15	TW-1
11/7/2019	240	197	29	40.7	5.77	164	49.4	11.3	40.1
5/19/2020	225	191	29.1	38	6.21	161	49.8	10.8	40.5
7/13/2020					6.38				
8/27/2020					6.25				41
11/12/2020	244	205	26.7	39.4	6.69	172	49.6	10.8	40.5
2/4/2021					6.56				
3/3/2021	228				5.95	157			40.2
5/18/2021			28.8		6.47	169	50.2	12.6	
5/19/2021	236	193		41					40.8
7/21/2021					6.15		51.1		
8/30/2021	236		30.2		6.35	163	50.1		41
11/18/2021	245	201	29.3	42.2	7.04	166	51	11.7	40.2
1/27/2022					6.39		49		
3/3/2022	241				5.97	166			
5/9/2022	255	189	29.3	47.8	6.43	167	51.1	10.9	41.2
7/15/2022							51.2		
7/19/2022									
8/17/2022			30				51.5		
11/9/2022	250	195	27.9	47.2	6.68	169	50.8	10.2	40.3
1/12/2023							50.2		
2/8/2023							50.5		
5/17/2023	218	189	33	45.7	7.13	163	51.1	10.8	39
7/12/2023			33		6.99		51.2		
8/15/2023			33.1		6.67		50.5		
11/17/2023	214	188	32.4	47.7	7.11	168	53.6	10.5	39.5

Prediction Limit

Constituent: CHLORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-13 (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	18		
6/10/2016		16.9	
6/23/2016			200
8/9/2016		17.3	235
8/10/2016			
8/11/2016	18.5		
8/12/2016			
10/11/2016			211
10/12/2016			
10/13/2016	19.2	16.8	
12/6/2016			220
12/7/2016			
12/8/2016			
12/9/2016		16.4	
12/12/2016			
12/13/2016	16.4		
2/6/2017			
2/7/2017			207
2/8/2017		17.6	
2/9/2017			
2/10/2017	15.6		
4/4/2017			242
4/5/2017			
4/6/2017	16.8		
4/7/2017		17.2	
6/13/2017			209
6/14/2017			
6/15/2017	17.2	17.2	
8/7/2017			
8/8/2017	16.2		193
8/9/2017			
8/10/2017		17.8	
10/3/2017			214
10/4/2017			
10/5/2017	13.6	17.9	
10/6/2017			
5/23/2018	14.3	17.6	
5/24/2018			197
7/11/2018			
8/16/2018			
9/17/2018	13.1		
11/30/2018	12.8	16.5	
12/3/2018			
12/4/2018			205
1/14/2019	12.5		
1/15/2019			
3/11/2019			
5/23/2019	16.2	16.9	194
7/17/2019			183
8/23/2019			

Prediction Limit

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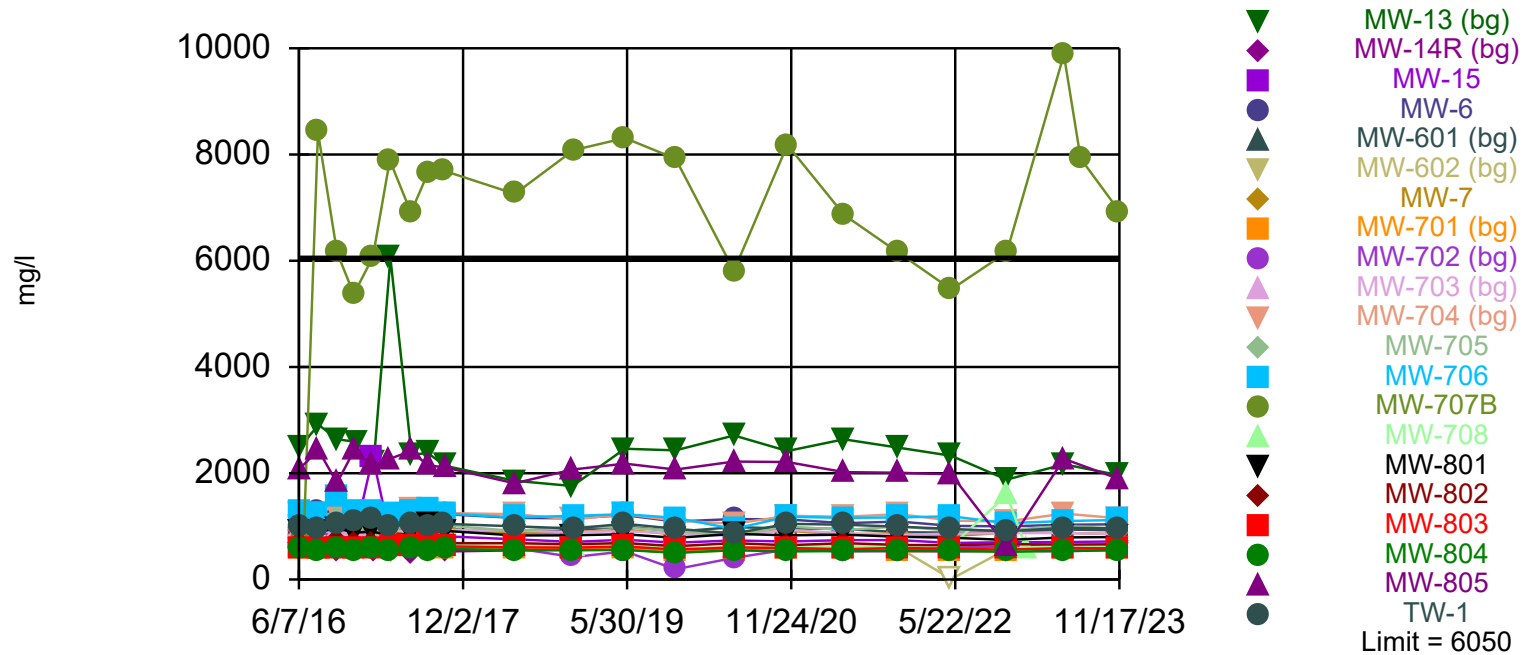
Constituent: CHLORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-13 (bg)	MW-602 (bg)	MW-707B
11/7/2019	15.7	16.6	169
5/19/2020	19.5	17.1	172
7/13/2020	18.8		
8/27/2020			
11/12/2020	17.1	17.7	267
2/4/2021			168
3/3/2021			
5/18/2021	19	16.8	
5/19/2021			170
7/21/2021			
8/30/2021			
11/18/2021	16.1	17.1	199
1/27/2022			
3/3/2022			
5/9/2022	48.3	16.5	163
7/15/2022			
7/19/2022	52.8		
8/17/2022	53.8		194
11/9/2022	46.1	15.8	161
1/12/2023	41.7		
2/8/2023	35.1		172
5/17/2023	31.7	16.4	172
7/12/2023	24.5		
8/15/2023	26.3		
11/17/2023	25.5	16.8	167

Exceeds Limit: MW-707B

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 168 background values. 0.5952% NDs. Annual per-constituent alpha = 0.00003236. Individual comparison alpha = 0.000001245 (1 of 3). Comparing 13 points to limit.

Constituent: DISSOLVED SOLIDS Analysis Run 2/29/2024 1:33 PM View: Interwell III

LaCygne Data: LaC GW Data

Prediction Limit

Constituent: DISSOLVED SOLIDS (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-802	MW-703 (bg)	MW-704 (bg)	MW-701 (bg)	MW-705	MW-805	MW-801	MW-708	MW-702 (bg)
6/7/2016	695	952	1250	595	960	2070	930	651	
6/8/2016									629
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016		890	1220	587	992		888		619
8/10/2016	681					2440		881	
8/11/2016									
8/12/2016									
10/11/2016	713	902	1240	619	1130	1820	970		747
10/12/2016								684	
10/13/2016									
12/6/2016	659	982	1210	658		2420	880		
12/7/2016					958				
12/8/2016									783
12/9/2016								639	
12/12/2016									
12/13/2016									
2/6/2017						2140			
2/7/2017	683	918	1210	631			900		
2/8/2017									657
2/9/2017					968			679	
2/10/2017									
4/4/2017	693	926	1150	607		2270			
4/5/2017									680
4/6/2017					932		826	623	
4/7/2017									
6/13/2017	709		1310	612	1020	2420			
6/14/2017		908					862	653	
6/15/2017									648
8/7/2017	653								
8/8/2017			1190	613		2150		649	
8/9/2017					1040		1050		692
8/10/2017		982							
10/3/2017			1250	595	1020				680
10/4/2017	684						916	645	
10/5/2017		930				2110			
10/6/2017									
5/23/2018	683					1810	828	639	
5/24/2018		918	1230	599	912				590
11/30/2018	663					2070	832		
12/3/2018		892	1130	569					423
12/4/2018					994			633	
5/23/2019	688	910	1230	582	980	2180	852	651	530
11/7/2019	627	866	1110	521	914	2070	785	607	193
5/19/2020	685	823	1050	545	822	2220	860	586	406
11/12/2020	646	934	1200	569	1000	2210	832	632	563
5/18/2021	684					2020	843		
5/19/2021		870	1180	561	932			624	527
11/18/2021	652	840	1230	534	1000	2010	805	641	541
5/9/2022	646	865	1110	542	917	1980	788	628	601
11/9/2022	667	870	1090	545	930	619	746	1590	620

Prediction Limit

Constituent: DISSOLVED SOLIDS (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-802	MW-703 (bg)	MW-704 (bg)	MW-701 (bg)	MW-705	MW-805	MW-801	MW-708	MW-702 (bg)
1/12/2023								597	
5/17/2023	656	876	1240	559	1010	2270	792	652	643
7/12/2023									
11/17/2023	664	856	1150	576	958	1890	800	615	652

Prediction Limit

Constituent: DISSOLVED SOLIDS (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-706	MW-6	MW-7	MW-804	MW-601 (bg)	MW-14R (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	1270	1180	910	562					
6/9/2016					956	559	751	2490	1010
6/10/2016									
6/23/2016									
8/9/2016	1250				922		777		976
8/10/2016		1280	946	554					
8/11/2016						607		2910	
8/12/2016									
10/11/2016	1560			577					1050
10/12/2016							772		
10/13/2016		1140	938		1000	545		2640	
12/6/2016	1300								1080
12/7/2016				518	908		767		
12/8/2016									
12/9/2016						533			
12/12/2016		1220	902						
12/13/2016								2590	
2/6/2017									
2/7/2017	1270			559			2310		1120
2/8/2017			890		974				
2/9/2017		1180				536			
2/10/2017								2220	
4/4/2017	1230			555					1020
4/5/2017		1180	916				803		
4/6/2017					890			6050	
4/7/2017						530			
6/13/2017	1300			575					1030
6/14/2017							808		
6/15/2017		1120	890		916	499		2350	
8/7/2017									
8/8/2017				548				2380	1010
8/9/2017	1320	1280	968		1040				
8/10/2017						521	775		
10/3/2017							815		1050
10/4/2017	1240								
10/5/2017		1230	944	577		529		2140	
10/6/2017					948				
5/23/2018		1160	868	551	894	548	757	1860	
5/24/2018	1170								1000
11/30/2018				550	924	563	709	1760	
12/3/2018									
12/4/2018	1200	1150	890						962
5/23/2019	1230	1210	936	558	1000	563	748	2460	1050
11/7/2019	1160	1090	848	501	900	509	692	2430	956
5/19/2020	952	1140	896	553	986	579	734	2710	864
11/12/2020	1180	1130	917	528	960	555	713	2420	1050
5/18/2021				537	952	543	740	2640	
5/19/2021	1160	1060	854						1030
11/18/2021	1170	1090	864	539	890	535	740	2480	994
5/9/2022	1190	1010	816	536	882	532	688	2330	951
11/9/2022	1060	1000	882	521	902	543	703	1880	908

Prediction Limit

Constituent: DISSOLVED SOLIDS (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-706	MW-6	MW-7	MW-804	MW-601 (bg)	MW-14R (bg)	MW-15	MW-13 (bg)	TW-1
1/12/2023									
5/17/2023	1100	1030	878	540	940	530	705	2170	974
7/12/2023									
11/17/2023	1120	1040	854	554	926	559	716	1960	960

Prediction Limit

Constituent: DISSOLVED SOLIDS (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-803	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	594		
6/10/2016		618	
6/23/2016			770
8/9/2016		600	8420
8/10/2016			
8/11/2016			
8/12/2016	591		
10/11/2016			6160
10/12/2016			
10/13/2016	592	667	
12/6/2016	603		5370
12/7/2016			
12/8/2016			
12/9/2016		614	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			6070
2/8/2017	599	606	
2/9/2017			
2/10/2017			
4/4/2017			7890
4/5/2017			
4/6/2017			
4/7/2017	605	555	
6/13/2017	627		6910
6/14/2017			
6/15/2017		607	
8/7/2017			
8/8/2017			7640
8/9/2017	709		
8/10/2017		604	
10/3/2017			7690
10/4/2017	625		
10/5/2017		607	
10/6/2017			
5/23/2018	606	592	
5/24/2018			7260
11/30/2018	601	579	
12/3/2018			
12/4/2018			8080
5/23/2019	621	615	8310
11/7/2019	563	569	7920
5/19/2020	603	611	5810
11/12/2020	593	593	8180
5/18/2021	571	578	
5/19/2021			6860
11/18/2021	594	592	6140
5/9/2022	580	<10	5460
11/9/2022	564	571	6160

Prediction Limit

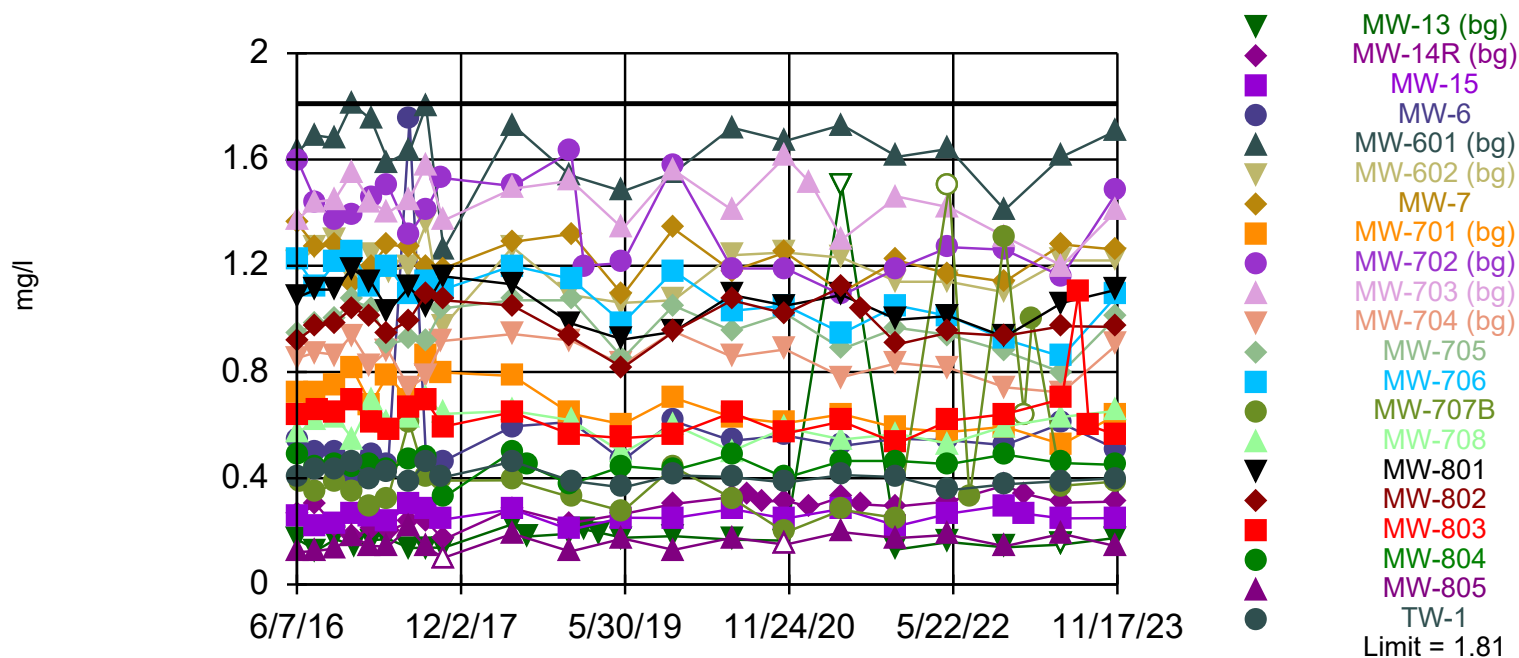
Constituent: DISSOLVED SOLIDS (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-803	MW-602 (bg)	MW-707B
1/12/2023			
5/17/2023	591	579	9880
7/12/2023			7920
11/17/2023	589	577	6930

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 178 background values. 1.124% NDs. Annual per-constituent alpha = 0.00002695. Individual comparison alpha = 0.000001037 (1 of 3). Comparing 13 points to limit.

Constituent: FLUORIDE Analysis Run 2/29/2024 1:33 PM View: Interwell III

LaCygne Data: LaC GW Data

Prediction Limit

Constituent: FLUORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III

LaCygne Data: LaC GW Data

	MW-708	MW-701 (bg)	MW-703 (bg)	MW-704 (bg)	MW-705	MW-802	MW-805	MW-801	MW-804
6/7/2016	0.569	0.717	1.37	0.852	0.944	0.92	0.122	1.08	
6/8/2016									0.491
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016		0.719	1.44	0.874	0.985			1.11	
8/10/2016	0.619					0.972	0.126		0.443
8/11/2016									
8/12/2016									
10/11/2016		0.751	1.45	0.865	0.998	0.986	0.136	1.11	0.448
10/12/2016	0.632								
10/13/2016									
12/6/2016		0.816	1.55	0.939		1.04	0.181	1.19	
12/7/2016					1.07				0.441
12/8/2016									
12/9/2016	0.548								
12/12/2016									
12/13/2016									
2/6/2017							0.145		
2/7/2017		0.679	1.44	0.825		1.01		1.14	0.453
2/8/2017									
2/9/2017	0.695				1.04				
2/10/2017									
4/4/2017		0.79	1.4	0.882		0.947	0.142		0.429
4/5/2017									
4/6/2017	0.612				0.905			1.03	
4/7/2017									
6/13/2017		0.692		0.74	0.924	0.995	0.214		0.474
6/14/2017	0.624		1.45					1.12	
6/15/2017									
8/7/2017						1.09			
8/8/2017	0.705	0.857		0.783			0.143		0.476
8/9/2017					0.92			1.05	
8/10/2017			1.58						
10/3/2017		0.798		0.917	1.04				
10/4/2017	0.642					1.07		1.16	
10/5/2017			1.37				<0.1		0.327
10/6/2017									
5/23/2018	0.653					1.05	0.191	1.13	0.501
5/24/2018		0.785	1.49	0.943	1.07				
7/11/2018									0.449
11/30/2018						0.932	0.124	0.984	0.378
12/3/2018		0.642	1.52	0.918					
12/4/2018	0.618				1.07				
1/14/2019									
3/11/2019									
5/23/2019	0.495	0.603	1.34	0.828	0.852	0.816	0.173	0.922	0.445
11/7/2019	0.601	0.703	1.56	0.953	1.05	0.952	0.13	0.951	0.43
5/19/2020	0.502	0.63	1.41	0.857	0.955	1.07	0.176	1.09	0.489
7/13/2020									
8/27/2020									
11/12/2020	0.59	0.607	1.61	0.885	1.02	1.02	<0.15	1.05	0.401

Prediction Limit

Page 2

Constituent: FLUORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-708	MW-701 (bg)	MW-703 (bg)	MW-704 (bg)	MW-705	MW-802	MW-805	MW-801	MW-804
2/4/2021			1.51						
5/18/2021						1.12	0.197	1.09	0.465
5/19/2021	0.546	0.641	1.3	0.781	0.887				
7/21/2021						1.04			
11/18/2021	0.567	0.589	1.46	0.834	0.966	0.904	0.175	0.997	0.465
5/9/2022	0.53	0.574	1.42	0.815	0.939	0.949	0.187	1.01	0.453
7/15/2022									
11/9/2022	0.595	0.594	1.31	0.742	0.878	0.936	0.144	0.932	0.489
1/12/2023									
2/8/2023									
5/17/2023	0.631	0.528	1.2	0.723	0.799	0.972	0.191	1.06	0.457
7/12/2023									
8/15/2023									
11/17/2023	0.654	0.64	1.41	0.905	1.01	0.97	0.143 (J)	1.11	0.45

Prediction Limit

Page 3

Constituent: FLUORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-6	MW-702 (bg)	MW-706	MW-7	MW-15	MW-803	MW-601 (bg)	MW-14R (bg)	MW-13 (bg)
6/7/2016									
6/8/2016	0.545	1.6	1.22	1.36					
6/9/2016					0.257	0.636	1.63	0.265	0.17
6/10/2016									
6/23/2016									
8/9/2016		1.44	1.12		0.22		1.69		
8/10/2016	0.495			1.27					
8/11/2016								0.299	0.128
8/12/2016						0.653			
10/11/2016		1.37	1.21						
10/12/2016					0.232				
10/13/2016	0.497			1.28		0.645	1.68	0.215	0.171
12/6/2016			1.25			0.696			
12/7/2016					0.262		1.81		
12/8/2016		1.39							
12/9/2016								0.178	
12/12/2016	0.401			1.13					
12/13/2016									0.142
2/6/2017									
2/7/2017			1.12		0.258				
2/8/2017		1.46		1.2		0.607	1.75		
2/9/2017	0.492							0.211	
2/10/2017									0.167
4/4/2017			1.2						
4/5/2017	0.447	1.5		1.28	0.235				
4/6/2017							1.59		0.171
4/7/2017						0.586		0.201	
6/13/2017			1.09			0.665			
6/14/2017					0.304				
6/15/2017	1.75	1.32		1.27			1.63	0.237	0.137
8/7/2017									
8/8/2017									0.139
8/9/2017	0.473	1.41	1.14	1.2		0.693	1.8		
8/10/2017					0.28			0.239	
10/3/2017		1.53			0.244				
10/4/2017			1.11			0.594			
10/5/2017	0.464			1.19				0.169	0.138
10/6/2017							1.26		
5/23/2018	0.595			1.29	0.283	0.649	1.73	0.287	0.227
5/24/2018		1.5	1.2						
7/11/2018									0.181
11/30/2018					0.206	0.566	1.54	0.231	0.191
12/3/2018		1.63							
12/4/2018	0.612		1.15	1.32					
1/14/2019		1.2							0.208
3/11/2019									0.194
5/23/2019	0.467	1.21	0.985	1.09	0.251	0.551	1.48	0.265	0.176
11/7/2019	0.615	1.58	1.18	1.34	0.25	0.563	1.55	0.303	0.182
5/19/2020	0.541	1.19	1.03	1.18	0.284	0.647	1.72	0.329	0.169
7/13/2020								0.336	
8/27/2020								0.312	
11/12/2020	0.561	1.19	1.05	1.25	0.248	0.568	1.67	0.316	0.165

Prediction Limit

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Constituent: FLUORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-6	MW-702 (bg)	MW-706	MW-7	MW-15	MW-803	MW-601 (bg)	MW-14R (bg)	MW-13 (bg)
2/4/2021								0.291	
5/18/2021					0.285	0.614	1.73	0.33	<1.5
5/19/2021	0.522	1.09	0.946	1.1					
7/21/2021								0.302	
11/18/2021	0.549	1.19	1.05	1.22	0.22	0.531	1.61	0.294	0.132
5/9/2022	0.543	1.27	1.01	1.17	0.267	0.617	1.64	0.313	0.16
7/15/2022									
11/9/2022	0.525	1.26	0.923	1.14	0.297	0.641	1.41	0.373	0.14
1/12/2023					0.267			0.342	
2/8/2023									
5/17/2023	0.606	1.16	0.858	1.28	0.249	0.698	1.61	0.308	<0.15
7/12/2023						1.1			
8/15/2023						0.599			
11/17/2023	0.508	1.48	1.09	1.26	0.25	0.562	1.71	0.312	0.176

Prediction Limit

Constituent: FLUORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	TW-1	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	0.404		
6/10/2016		1.21	
6/23/2016			0.386
8/9/2016	0.431	1.27	0.347
8/10/2016			
8/11/2016			
8/12/2016			
10/11/2016	0.431		0.382
10/12/2016			
10/13/2016		1.3	
12/6/2016	0.459		0.353
12/7/2016			
12/8/2016			
12/9/2016		1.16	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017	0.399		0.293
2/8/2017		1.24	
2/9/2017			
2/10/2017			
4/4/2017	0.42		0.323
4/5/2017			
4/6/2017			
4/7/2017		1.18	
6/13/2017	0.384		0.613
6/14/2017			
6/15/2017		1.2	
8/7/2017			
8/8/2017	0.461		0.402
8/9/2017			
8/10/2017		1.36	
10/3/2017	0.403		0.391
10/4/2017			
10/5/2017		0.972	
10/6/2017			
5/23/2018		1.27	
5/24/2018	0.463		0.392
7/11/2018			
11/30/2018		1.09	
12/3/2018			
12/4/2018	0.39		0.328
1/14/2019			
3/11/2019			
5/23/2019	0.365	1.06	0.276
11/7/2019	0.411	1.07	0.442
5/19/2020	0.405	1.24	0.325
7/13/2020			
8/27/2020			
11/12/2020	0.384	1.25	0.196

Prediction Limit

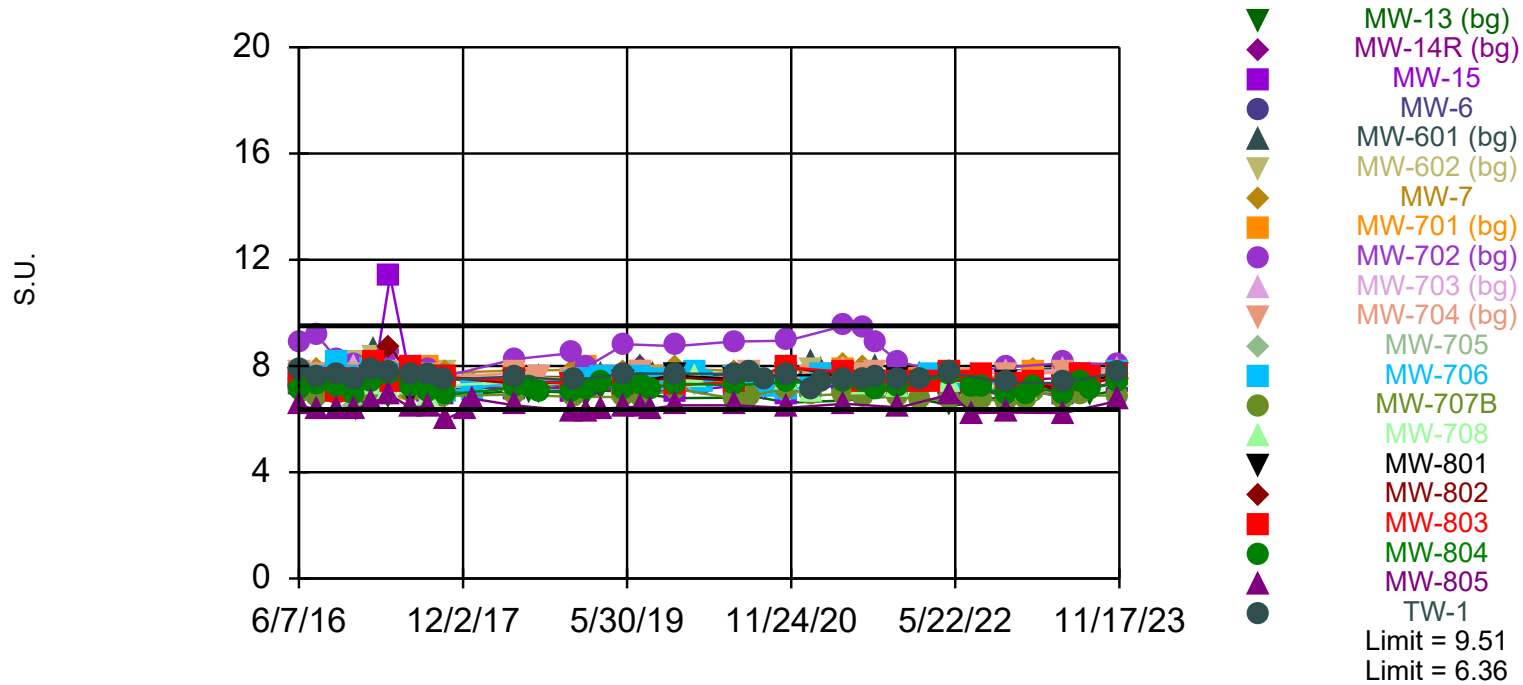
Constituent: FLUORIDE (mg/l) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	TW-1	MW-602 (bg)	MW-707B
2/4/2021			
5/18/2021		1.23	
5/19/2021	0.412		0.281
7/21/2021			
11/18/2021	0.404	1.14	0.25
5/9/2022	0.355	1.14	<1.5
7/15/2022			0.328
11/9/2022	0.377	1.1	1.31 (j)
1/12/2023			<0.64
2/8/2023			1
5/17/2023	0.389	1.22	0.372
7/12/2023			
8/15/2023			
11/17/2023	0.4	1.22	0.388

Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 235 background values. Annual per-constituent alpha = 0.00003785. Individual comparison alpha = 0.000001456 (1 of 3). Comparing 13 points to limit.

Constituent: pH Analysis Run 2/29/2024 1:33 PM View: Interwell III

LaCygne Data: LaC GW Data

Prediction Limit

Constituent: pH (S.U.) Analysis Run 2/29/2024 1:40 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-701 (bg)	MW-705	MW-708	MW-704 (bg)	MW-801	MW-703 (bg)	MW-802	MW-805	MW-706
6/7/2016	7.63	7.3	7.43	7.74	7.47	7.63	7.46	6.52	
6/8/2016									7.54
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	7.54	7.35		7.65	7.48	7.65			7.55
8/10/2016			7.48				7.52	6.35	
8/11/2016									
8/12/2016									
10/11/2016	7.67	7.21		7.71	7.32	7.59	7.34	6.36	8.14
10/12/2016			7.46						
10/13/2016									
12/6/2016	7.63			7.66	7.14		7.48	6.36	7.6
12/7/2016		6.5				8			
12/8/2016									
12/9/2016			7.32						
12/12/2016									
12/13/2016									
2/6/2017								6.62	
2/7/2017	7.94			7.83	7.58	7.76	7.67		7.84
2/8/2017									
2/9/2017		7.33	7.32						
2/10/2017									
4/4/2017	7.62			7.75		7.64			7.67
4/5/2017							8.72	6.9	
4/6/2017		7.14	7.12		7.26				
4/7/2017									
6/13/2017	7.07	7.18		7.07			7.6	6.43	7.53
6/14/2017			7.33		6.95	7.62			
6/15/2017									
8/7/2017							7.29		
8/8/2017	7.97		6.88	7.71				6.49	
8/9/2017		7.29			7.51				7.37
8/10/2017						7.47			
10/3/2017	7.49	7.21		7.58					
10/4/2017			7.27		7.58		7.58		7.05
10/5/2017						7.58		5.99	
10/6/2017									
12/12/2017								6.35	
1/9/2018								6.76	7.14
5/23/2018			7.39		7.42		7.34	6.52	
5/24/2018	7.6	7.29		7.74		7.6			7.44
7/11/2018				7.53					
8/16/2018				7.54					
11/30/2018					7.34		7.38	6.31	
12/3/2018	7.52			7.49		7.46			
12/4/2018		7.32	7.31						7.42
1/14/2019								6.32	
1/15/2019	7.95								7.49
3/11/2019	7.61							6.4	7.55
5/23/2019	7.12	7.33	7.36	7.53	7.4	7.5	7.3	6.44	7.61
7/17/2019	7.8			7.78				6.48	7.58

Prediction Limit

Page 2

Constituent: pH (S.U.) Analysis Run 2/29/2024 1:41 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-701 (bg)	MW-705	MW-708	MW-704 (bg)	MW-801	MW-703 (bg)	MW-802	MW-805	MW-706
8/22/2019								6.4	
8/23/2019	7.54			7.5					7.5
11/7/2019	7.45	7.38	7.53	7.45	7.63	7.63	7.58	6.52	7.72
1/14/2020		7.31	7.58						7.79
2/3/2020									7.38
5/19/2020	7.53	7.3	7.48	7.53	7.52	7.44	7.44	6.52	7.55
7/13/2020	7.71			7.73					7.6
8/27/2020				7.21					7.2
11/12/2020	7.65	6.92	7.52	7.56	7.65	7.27	7.96	6.42	7.11
2/4/2021	7.23		7.01	7.62		7.37			7.25
3/3/2021				7.69					7.64
5/18/2021					7.66		7.64	6.58	
5/19/2021	7.83	7.53	7.73	7.75		7.87			7.69
7/21/2021		7.15	7.3	7.64			7.35		7.27
8/30/2021				7.74					7.4
11/18/2021	7.45	7.16	7.23	7.36	7.51	7.38	7.42	6.44	7.23
1/27/2022	7.51		7.49				7.46		7.43
3/3/2022									7.64
5/9/2022	7.47	7.28	7.44	7.44	7.64	7.64	7.71	6.94	7.51
7/15/2022	7.43			7.45				6.23	
8/17/2022	7.52			7.39					
11/9/2022	7.42	7.11	7.2	7.66	7.39	7.8	7.39	6.25	7.24
1/12/2023	7.21		7.12				7.27		
2/8/2023	7.81						7.34		
5/17/2023	7.75	7.35	7.21	7.76	7.18	7.84	7	6.23	7.21
7/12/2023	7.61								
8/15/2023									
11/17/2023	7.7	7.47	7.61	7.68	7.72	7.86	7.64	6.7	7.74

Prediction Limit

Page 3

Constituent: pH (S.U.) Analysis Run 2/29/2024 1:41 PM View: Interwell III

LaCygne Data: LaC GW Data

	MW-702 (bg)	MW-6	MW-7	MW-804	MW-15	MW-13 (bg)	MW-803	TW-1	MW-601 (bg)
6/7/2016									
6/8/2016	8.86	7.19	7.77	7.13					
6/9/2016					7.31	6.88	7.48	7.83	7.66
6/10/2016									
6/23/2016									
8/9/2016	9.12				7.23			7.54	7.72
8/10/2016		7.18	7.83	7.32					
8/11/2016						6.78			
8/12/2016							7.51		
10/11/2016	8.25			7.2				7.69	
10/12/2016					7.28				
10/13/2016		7.24	8			6.95	6.99		7.71
12/6/2016							7.48	7.53	
12/7/2016				6.93	7.02				7.61
12/8/2016	8.07								
12/9/2016									
12/12/2016		7.27	7.96						
12/13/2016						6.36			
2/6/2017									
2/7/2017				7.41	7.28			7.89	
2/8/2017	8.09		7.79				8.12		8.6
2/9/2017		7.25							
2/10/2017						7.08			
4/4/2017								7.78	
4/5/2017	8.52	7.3	7.89	7.65	11.38				
4/6/2017						6.86			7.61
4/7/2017							7.36		
6/13/2017				7.22			7.98	7.67	
6/14/2017					7.34				
6/15/2017	7.84	7.2	7.75			6.8			7.62
8/7/2017									
8/8/2017				7.06		6.74	7.52	7.65	
8/9/2017	7.87	7.02	7.62						7.72
8/10/2017					7.02				
10/3/2017	7.6				6.95			7.48	
10/4/2017							7.55		
10/5/2017		7.11	7.74	6.93		6.9			
10/6/2017									7.53
12/12/2017									
1/9/2018					7.21				7.41
5/23/2018		7.26	7.83	7.17	7.1	7.05	7.46		7.56
5/24/2018	8.26							7.6	
7/11/2018				7.21		7.02			7.43
8/16/2018				7.06		7.05			7.59
11/30/2018				7.02	7.05	6.99	7.33		7.58
12/3/2018	8.49								
12/4/2018		7.13	7.85					7.45	
1/14/2019	7.95			7.07	7.18	6.87			7.63
1/15/2019									
3/11/2019				7.38		7.07			7.64
5/23/2019	8.82	7.17	7.75	7.15	7.14	7.03	7.26	7.72	7.65
7/17/2019				7.31					7.95

Prediction Limit

Constituent: pH (S.U.) Analysis Run 2/29/2024 1:41 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-702 (bg)	MW-6	MW-7	MW-804	MW-15	MW-13 (bg)	MW-803	TW-1	MW-601 (bg)
8/22/2019				7.16					
8/23/2019									7.66
11/7/2019	8.75	7.45	7.92	7.34	7.03	6.79	7.26	7.71	7.72
1/14/2020		7.43							
2/3/2020		7.3							
5/19/2020	8.92	7.31	7.81	7.28	7.25	6.81	7.41	7.71	7.63
7/13/2020						6.88		7.76	
8/27/2020								7.45	
11/12/2020	8.95	7.28	7.8	7.38	6.95	6.62	7.95	7.72	7.29
2/4/2021								7.15	8.14
3/3/2021								7.42	7.88
5/18/2021				7.39	7.32	6.7	7.78		7.66
5/19/2021	9.51	7.62	8.01					7.52	
7/21/2021	9.45	7.1	7.97	7.35			7.44	7.53	7.73
8/30/2021	8.87			7.14			7.41	7.59	7.96
11/18/2021	8.15	7.1	7.7	7.19	7.25	6.9	7.42	7.5	7.5
1/27/2022							7.39	7.53	7.63
3/3/2022							7.43		7.6
5/9/2022	7.7	7.34	7.79	7.7	7.06	6.52	7.73	7.73	7.57
7/15/2022				7.24		6.57	7.41		
8/17/2022				7.18		6.62	7.71		
11/9/2022	7.95	6.86	7.49	6.93	6.98	6.97	7.29	7.36	7.82
1/12/2023		6.96	7.55	6.94		6.98	7.27		
2/8/2023		7.45	7.89	7.2		7.06	7.43		
5/17/2023	8.11	7.17	7.68	6.96	6.95	7.12	7.17	7.36	7.92
7/12/2023				7.44		7.2	7.69		
8/15/2023				7.15		6.89	7.59		
11/17/2023	8.07	7.29	7.98	7.4	7.42	7.11	7.72	7.77	7.87

Prediction Limit

Constituent: pH (S.U.) Analysis Run 2/29/2024 1:41 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	7.42		
6/10/2016		7.01	
6/23/2016			7.03
8/9/2016		7.64	6.81
8/10/2016			
8/11/2016	7.26		
8/12/2016			
10/11/2016			6.95
10/12/2016			
10/13/2016	7.51	7.34	
12/6/2016			6.92
12/7/2016			
12/8/2016			
12/9/2016	7.42	8.15	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			6.95
2/8/2017		8.36	
2/9/2017	7.92		
2/10/2017			
4/4/2017			7.2
4/5/2017			
4/6/2017			
4/7/2017	7.34	7.51	
6/13/2017			7.06
6/14/2017			
6/15/2017	7.19	7.77	
8/7/2017			
8/8/2017			7.04
8/9/2017			
8/10/2017	7.01	7.56	
10/3/2017			6.88
10/4/2017			
10/5/2017	7.63	7.78	
10/6/2017			
12/12/2017			
1/9/2018			
5/23/2018	7.45	7.54	
5/24/2018			6.92
7/11/2018			
8/16/2018			
11/30/2018	7.18	7.42	
12/3/2018			
12/4/2018			6.84
1/14/2019	7.25		
1/15/2019			
3/11/2019	7.45		
5/23/2019	7.35	7.45	6.83
7/17/2019	7.94		6.8

Prediction Limit

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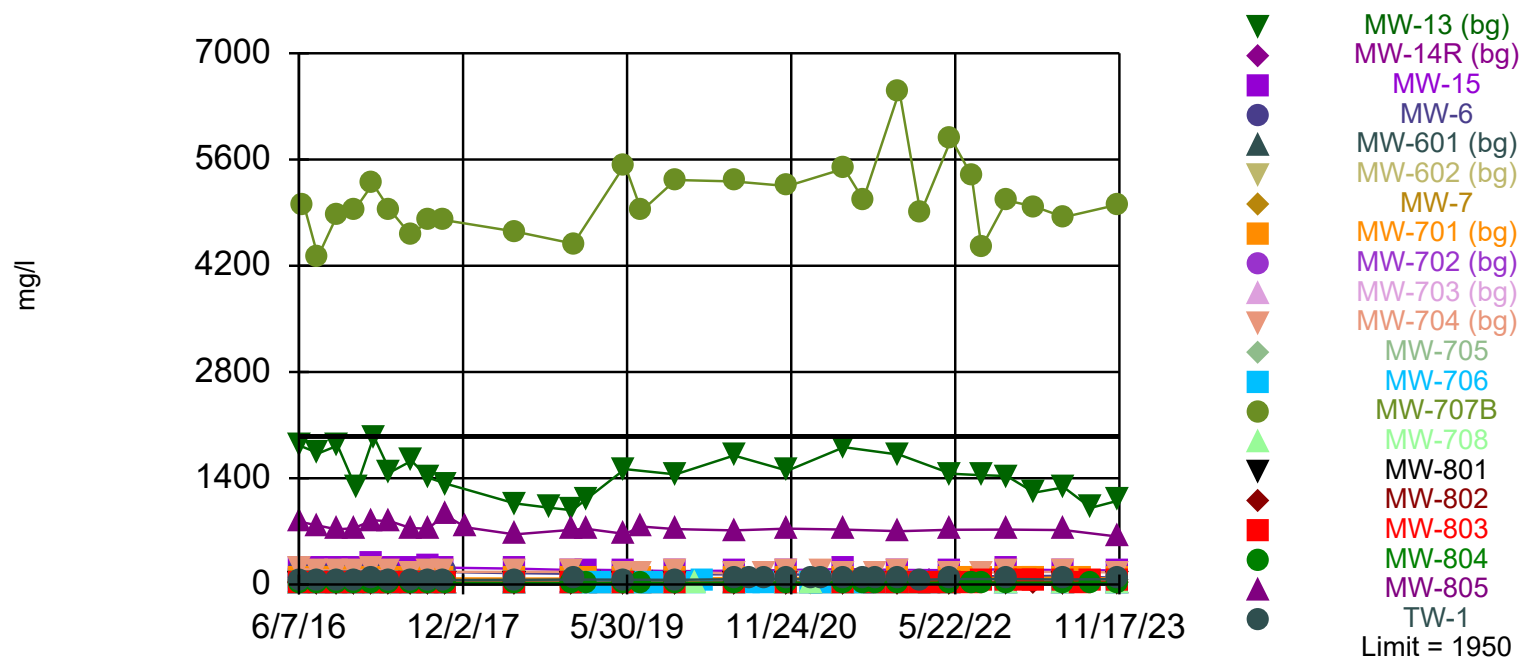
Constituent: pH (S.U.) Analysis Run 2/29/2024 1:41 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-14R (bg)	MW-602 (bg)	MW-707B
8/22/2019			
8/23/2019	7.31		
11/7/2019	7.2	7.44	7.14
1/14/2020			
2/3/2020			
5/19/2020	7.35	7.6	6.78
7/13/2020	7.54		6.88
8/27/2020	7.07		
11/12/2020	7.01	7.13	7.15
2/4/2021	7.09	7.87	6.89
3/3/2021	7.78		
5/18/2021	7.42	7.66	
5/19/2021			6.94
7/21/2021	7.36		6.81
8/30/2021	7.69		
11/18/2021	7.39	7.27	6.84
1/27/2022	7.29		6.75
3/3/2022	7.56		
5/9/2022	7.28	7.5	6.72
7/15/2022			6.73
8/17/2022			6.75
11/9/2022	7.47	7.64	6.67
1/12/2023			6.74
2/8/2023			7.06
5/17/2023	7.54	7.79	6.78
7/12/2023	7.38		6.9
8/15/2023	7.28		
11/17/2023	7.25	7.8	6.88

Exceeds Limit: MW-707B

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 204 background values. 23.04% NDs. Annual per-constituent alpha = 0.00001893. Individual comparison alpha = 7.3e-7 (1 of 3). Comparing 13 points to limit.

Constituent: SULFATE Analysis Run 2/29/2024 1:33 PM View: Interwell III

LaCygne Data: LaC GW Data

Prediction Limit

Constituent: SULFATE (mg/l) Analysis Run 2/29/2024 1:41 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-705	MW-704 (bg)	MW-805	MW-703 (bg)	MW-708	MW-701 (bg)	MW-801	MW-802	MW-804
6/7/2016	39.6	203	829	<5	8.99	76.9	<5	<5	
6/8/2016									27.2
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	40.7	194		<5		81.1	<5		
8/10/2016			776		8.98			<5	20.9
8/11/2016									
8/12/2016									
10/11/2016	39.2	180	726	<5		80.3	<5	<5	20.9
10/12/2016					8.24				
10/13/2016									
12/6/2016		185	742	<5		80.9	<5	<5	
12/7/2016	41.7								21
12/8/2016									
12/9/2016					8.72				
12/12/2016									
12/13/2016									
2/6/2017			846						
2/7/2017		196		<5		89.8	<5	<5	23.2
2/8/2017									
2/9/2017	45.5				9.59				
2/10/2017									
4/4/2017		176	836	<5		83.8		<5	21.4
4/5/2017									
4/6/2017	41.9				8.36		<5		
4/7/2017									
6/13/2017	42.2	151	742			80.6		<5	21.5
6/14/2017				<5	9.38		<5		
6/15/2017									
8/7/2017								<5	
8/8/2017		189	737		9.36	80.8			20.7
8/9/2017	43.5						<5		
8/10/2017				<5					
10/3/2017	41.3	168				80.6			
10/4/2017					9.09		<5	<5	
10/5/2017			914	<5					21.9
10/6/2017									
12/12/2017			753						
5/23/2018			660		9.25		<5	<5	21.5
5/24/2018	41	166		<5		78.6			
9/17/2018									
11/30/2018			722				<5	<5	19.4
12/3/2018		168		<5		79.1			
12/4/2018	38.9				9.24				
1/14/2019			735						19.5
1/15/2019						83.3			
3/11/2019									
5/23/2019	37	153	666	<5	9.18	78.8	<5	<5	23.2
7/17/2019		156	764			83.4			24.5
8/23/2019									
11/7/2019	37.9	163	730	<5	10.1	83.7	<5	<5	21.9

Prediction Limit

Constituent: SULFATE (mg/l) Analysis Run 2/29/2024 1:41 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-705	MW-704 (bg)	MW-805	MW-703 (bg)	MW-708	MW-701 (bg)	MW-801	MW-802	MW-804
1/14/2020					9.45				
2/3/2020									
5/19/2020	39.3	148	713	<5	9.42	84	<5	<5	25.2
7/13/2020									
8/27/2020		150							
11/12/2020	40.1	171	736	<5	9.88	86.2	<5	<5	24.4
2/4/2021					9.54				
3/3/2021		164							
5/18/2021			724				<5	<5	25.9
5/19/2021	38.6	154		<5	8.64	86.2			
7/21/2021									26
8/30/2021		154							24.4
11/18/2021	38.6	170	702	<5	12.7	86.3	<5	<5	24.6
1/27/2022					9.26				
3/3/2022									
5/9/2022	40.7	154	721	<5	9.34	89.1	<5	<5	26.4
7/15/2022						90.2			27.4
8/17/2022		154				84.5			26.1
11/9/2022	39	163	723	1.24	9.47	87.8	4.12	1.07	25
1/12/2023						88.2			
2/8/2023						83.9		<5	
5/17/2023	40.7	167	717	<5	9.31	92.2	<5	<5	25.6
7/12/2023						78.4			
8/15/2023									22.2
11/17/2023	40.6	159	629	25	11.2	83	2.07 (J)	<5	22.8

Prediction Limit

Constituent: SULFATE (mg/l) Analysis Run 2/29/2024 1:41 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-6	MW-706	MW-702 (bg)	MW-7	MW-15	MW-601 (bg)	MW-14R (bg)	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	181	<5	5.73	<5					
6/9/2016					200	<5	75.8	1830	63.4
6/10/2016									
6/23/2016									
8/9/2016		<5	5.46		219	<5			60.9
8/10/2016	177			<5					
8/11/2016							74.2	1730	
8/12/2016									
10/11/2016		<5	<5						58.8
10/12/2016					200				
10/13/2016	165			<5		<5	40.1	1830	
12/6/2016		<5							59.3
12/7/2016					224	<5			
12/8/2016			<5						
12/9/2016							34.9		
12/12/2016	160			<5					
12/13/2016								1270	
2/6/2017									
2/7/2017		<5			270				66.7
2/8/2017			<5	<5		<5			
2/9/2017	197						50.4		
2/10/2017								1950	
4/4/2017		<5							63.4
4/5/2017	167		<5	<5	221				
4/6/2017						<5		1480	
4/7/2017							44.3		
6/13/2017		<5							62.7
6/14/2017					212				
6/15/2017	147		<5	<5		<5	44.2	1630	
8/7/2017									
8/8/2017								1410	63.9
8/9/2017	170	<5	<5	<5		<5			
8/10/2017					228		44		
10/3/2017			<5		222				59
10/4/2017		<5							
10/5/2017	165			<5			40.7	1330	
10/6/2017						<5			
12/12/2017									
5/23/2018	151			<5	209	<5	54.5	1070	
5/24/2018		<5	<5						61.1
9/17/2018								1010	
11/30/2018					191	5.98	65.4	978	
12/3/2018			<5						
12/4/2018	142	7.69		<5					66.4
1/14/2019			<5		195	5.97	66.9	1120	
1/15/2019		7.73							
3/11/2019		6.96				5.89			
5/23/2019	154	5.78	<5	<5	189	6.76	54.5	1520	62.9
7/17/2019		8.27				5.75	59.6		
8/23/2019		8.79				6.32			
11/7/2019	136	9.68	<5	<5	175	6.33	59.7	1450	61.9

Prediction Limit

Constituent: SULFATE (mg/l) Analysis Run 2/29/2024 1:41 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-6	MW-706	MW-702 (bg)	MW-7	MW-15	MW-601 (bg)	MW-14R (bg)	MW-13 (bg)	TW-1
1/14/2020		9.78							
2/3/2020		32.8							
5/19/2020	133	24.6	<5	<5	182	6.07	60.5	1700	69.1
7/13/2020		21.3							69.4
8/27/2020		20.7					54.7		72.4
11/12/2020	133	20	<5	<5	191	8.78	61.6	1500	73.8
2/4/2021		23.9				9.76			68.3
3/3/2021		29.7				6.73	62.2		74.4
5/18/2021					203	7.04	60.8	1810	
5/19/2021	123	19.2	<5	<5					67.7
7/21/2021		17.4				7.71			68.5
8/30/2021		17				4.98	53.7		70.8
11/18/2021	115	16.8	<5	<5	193	6.77	63.1	1710	70.4
1/27/2022		15.8				7.48			62.2
3/3/2022		16.7				6.58	60.4		
5/9/2022	110	11.7	<5	<5	189	6.41	61.7	1460	72.9
7/15/2022									
8/17/2022								1440	
11/9/2022	109	12.7	1.47	2.29	200	7.35	68.5	1430	72.2
1/12/2023									
2/8/2023								1210	
5/17/2023	114	20.7	<5	<5	188	8.77	66.1	1280	66.5
7/12/2023									
8/15/2023							56.7	1010	
11/17/2023	86.7	20	2.34 (J)	3.13 (J)	186	7.24	63.3	1110	73

Prediction Limit

Constituent: SULFATE (mg/l) Analysis Run 2/29/2024 1:41 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-803	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	15		
6/10/2016		25.1	
6/23/2016			5010
8/9/2016		25.2	4320
8/10/2016			
8/11/2016			
8/12/2016	16.2		
10/11/2016			4860
10/12/2016			
10/13/2016	17.9	23.4	
12/6/2016	21.9		4920
12/7/2016			
12/8/2016			
12/9/2016		24.2	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			5280
2/8/2017	22.4	27.5	
2/9/2017			
2/10/2017			
4/4/2017			4940
4/5/2017			
4/6/2017			
4/7/2017	17.8	23.8	
6/13/2017	21.2		4600
6/14/2017			
6/15/2017		24.4	
8/7/2017			
8/8/2017			4790
8/9/2017	23.2		
8/10/2017		24.8	
10/3/2017			4800
10/4/2017	23.2		
10/5/2017		26.9	
10/6/2017			
12/12/2017			
5/23/2018	24.4	23.9	
5/24/2018			4650
9/17/2018			
11/30/2018	24.5	24.2	
12/3/2018			
12/4/2018			4490
1/14/2019			
1/15/2019			
3/11/2019			
5/23/2019	24.1	24.2	5530
7/17/2019			4920
8/23/2019			
11/7/2019	24	24.5	5330

Prediction Limit

Page 6

Constituent: SULFATE (mg/l) Analysis Run 2/29/2024 1:41 PM View: Interwell III
LaCygne Data: LaC GW Data

	MW-803	MW-602 (bg)	MW-707B
1/14/2020			
2/3/2020			
5/19/2020	25.2	25.7	5310
7/13/2020			
8/27/2020			
11/12/2020	25.2	28.1	5250
2/4/2021		26.7	
3/3/2021			
5/18/2021	25.2	26.2	
5/19/2021			5480
7/21/2021			5070
8/30/2021	25.4		
11/18/2021	27.2	25.9	6500
1/27/2022	30		4890
3/3/2022	27.4		
5/9/2022	32.1	26.6	5870
7/15/2022	31.6		5390
8/17/2022	32.8		4440
11/9/2022	33.1	26.8	5060
1/12/2023	35.8		
2/8/2023	34.4		4980
5/17/2023	38.9	26.9	4840
7/12/2023	31.9		
8/15/2023	36.4		
11/17/2023	36.1	25.9	5010

Prediction Limit

LaCygne Data: LaC GW Data Printed 2/29/2024, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
BORON (mg/l)	MW-15	2.45	n/a	11/17/2023	0.246	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	MW-6	2.45	n/a	11/17/2023	1.11	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	MW-7	2.45	n/a	11/17/2023	1.53	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	MW-705	2.45	n/a	11/17/2023	2.12	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	MW-706	2.45	n/a	11/17/2023	2	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	MW-707B	2.45	n/a	11/17/2023	1.87	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	MW-708	2.45	n/a	11/17/2023	1.43	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	MW-801	2.45	n/a	11/17/2023	2.2	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	MW-802	2.45	n/a	11/17/2023	2.45	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	MW-803	2.45	n/a	11/17/2023	2.05	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	MW-804	2.45	n/a	11/17/2023	1.59	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	MW-805	2.45	n/a	11/17/2023	0.496	No	174	0	n/a	0.00000112	NP Inter (normality) ...
BORON (mg/l)	TW-1	2.45	n/a	11/17/2023	1.4	No	174	0	n/a	0.00000112	NP Inter (normality) ...
CALCIUM (mg/l)	MW-15	403	n/a	11/17/2023	102	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	MW-6	403	n/a	11/17/2023	76.7	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	MW-7	403	n/a	11/17/2023	19.9	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	MW-705	403	n/a	11/17/2023	29.9	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	MW-706	403	n/a	11/17/2023	25.4	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	MW-707B	403	n/a	11/17/2023	403	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	MW-708	403	n/a	11/17/2023	30.4	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	MW-801	403	n/a	11/17/2023	24.6	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	MW-802	403	n/a	11/17/2023	28.6	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	MW-803	403	n/a	11/17/2023	41.8	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	MW-804	403	n/a	11/17/2023	67.9	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	MW-805	403	n/a	11/17/2023	459	Yes	198	0	n/a	7.5e-7	NP Inter (normality) ...
CALCIUM (mg/l)	TW-1	403	n/a	11/17/2023	25.8	No	198	0	n/a	7.5e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-15	201	n/a	11/17/2023	10.5	No	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-6	201	n/a	11/17/2023	188	No	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-7	201	n/a	11/17/2023	93.1	No	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-705	201	n/a	11/17/2023	132	No	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-706	201	n/a	11/17/2023	214	Yes	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-707B	201	n/a	11/17/2023	167	No	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-708	201	n/a	11/17/2023	47.8	No	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-801	201	n/a	11/17/2023	93.6	No	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-802	201	n/a	11/17/2023	41.2	No	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-803	201	n/a	11/17/2023	53.6	No	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-804	201	n/a	11/17/2023	32.4	No	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	MW-805	201	n/a	11/17/2023	464	Yes	213	0	n/a	7.3e-7	NP Inter (normality) ...
CHLORIDE (mg/l)	TW-1	201	n/a	11/17/2023	39.5	No	213	0	n/a	7.3e-7	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	MW-15	6050	n/a	11/17/2023	716	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	MW-6	6050	n/a	11/17/2023	1040	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	MW-7	6050	n/a	11/17/2023	854	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	MW-705	6050	n/a	11/17/2023	958	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	MW-706	6050	n/a	11/17/2023	1120	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	MW-707B	6050	n/a	11/17/2023	6930	Yes	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	MW-708	6050	n/a	11/17/2023	615	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	MW-801	6050	n/a	11/17/2023	800	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	MW-802	6050	n/a	11/17/2023	664	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	MW-803	6050	n/a	11/17/2023	589	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	MW-804	6050	n/a	11/17/2023	554	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...

Prediction Limit

LaCygne Data: LaC GW Data Printed 2/29/2024, 1:41 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
DISSOLVED SOLIDS (mg/l)	MW-805	6050	n/a	11/17/2023	1890	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
DISSOLVED SOLIDS (mg/l)	TW-1	6050	n/a	11/17/2023	960	No	168	0.5952	n/a	0.000001245	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-15	1.81	n/a	11/17/2023	0.25	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-6	1.81	n/a	11/17/2023	0.508	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-7	1.81	n/a	11/17/2023	1.26	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-705	1.81	n/a	11/17/2023	1.01	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-706	1.81	n/a	11/17/2023	1.09	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-707B	1.81	n/a	11/17/2023	0.388	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-708	1.81	n/a	11/17/2023	0.654	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-801	1.81	n/a	11/17/2023	1.11	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-802	1.81	n/a	11/17/2023	0.97	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-803	1.81	n/a	11/17/2023	0.562	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-804	1.81	n/a	11/17/2023	0.45	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-805	1.81	n/a	11/17/2023	0.143J	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
FLUORIDE (mg/l)	TW-1	1.81	n/a	11/17/2023	0.4	No	178	1.124	n/a	0.000001037	NP Inter (normality) ...
pH (S.U.)	MW-15	9.51	6.36	11/17/2023	7.42	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	MW-6	9.51	6.36	11/17/2023	7.29	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	MW-7	9.51	6.36	11/17/2023	7.98	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	MW-705	9.51	6.36	11/17/2023	7.47	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	MW-706	9.51	6.36	11/17/2023	7.74	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	MW-707B	9.51	6.36	11/17/2023	6.88	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	MW-708	9.51	6.36	11/17/2023	7.61	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	MW-801	9.51	6.36	11/17/2023	7.72	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	MW-802	9.51	6.36	11/17/2023	7.64	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	MW-803	9.51	6.36	11/17/2023	7.72	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	MW-804	9.51	6.36	11/17/2023	7.4	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	MW-805	9.51	6.36	11/17/2023	6.7	No	235	0	n/a	0.000001456	NP Inter (normality) ...
pH (S.U.)	TW-1	9.51	6.36	11/17/2023	7.77	No	235	0	n/a	0.000001456	NP Inter (normality) ...
SULFATE (mg/l)	MW-15	1950	n/a	11/17/2023	186	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	MW-6	1950	n/a	11/17/2023	86.7	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	MW-7	1950	n/a	11/17/2023	3.13J	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	MW-705	1950	n/a	11/17/2023	40.6	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	MW-706	1950	n/a	11/17/2023	20	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	MW-707B	1950	n/a	11/17/2023	5010	Yes	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	MW-708	1950	n/a	11/17/2023	11.2	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	MW-801	1950	n/a	11/17/2023	2.07J	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	MW-802	1950	n/a	11/17/2023	5ND	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	MW-803	1950	n/a	11/17/2023	36.1	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	MW-804	1950	n/a	11/17/2023	22.8	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	MW-805	1950	n/a	11/17/2023	629	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...
SULFATE (mg/l)	TW-1	1950	n/a	11/17/2023	73	No	204	23.04	n/a	7.3e-7	NP Inter (normality) ...

La Cygne Generating Station
Determination of Statistically Significant Increases
CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment
Multi-Unit Groundwater Monitoring System
March 1, 2024

ATTACHMENT 2

Sanitas™ Configuration Settings

La Cygne Sanitas Setting Appendix III

Options

Data Output Trend Test Control Cht Prediction Lim Tolerance Lim Conf/Tol Int ANOVA Welchs Other Tests

Exclude data flags:

Data Reading Options

☒ Individual Observations

☐ Mean of Each: ☐ Month

☐ Median of Each: ☐ Season

Non-Detect / Trace Handling...

Setup Seasons...

☐ Automatically Process Resamples...

Save Settings As... Load Saved Settings... Defaults... Edit INI File  OK Cancel

 Non-Detect / Trace Handling (settings apply to all data files) ✕

Non-Detects (<MDL or <PQL)

Replace Reporting Limit with:

☒ No Replacement ☐ Median RL ☐ Highest RL ☐ Most Recent RL

☐ Use Alternate RL when found in Database

Substitution Method:

☐ RL, except RL/2 when NDs < 15% ☒ RL ☐ RL/2

Trace Values

Trace Flag (for trace values of the form 'observation(flag)' or '<PQL(flag)')

☒ J ☐ TR... ☐ J or TR...

Replace PQL with:

☒ No Replacement ☐ Median PQL ☐ Highest PQL ☐ Most Recent PQL

☐ Use Alternate PQL (or 'RL2') when found in Database

Substitution Method for values of the form <MDL+PQL

☒ (MDL+PQL)/2 ☐ PQL ☐ PQL/2

☐ Use Observed Value when available (as in "<MDL+PQL+Observed")

Substitution Method for values of the form <PQL(trace flag)

☐ PQL/2 ☒ PQL

OK Cancel

Options

Data Output Trend Test Control Cht Prediction Lim Tolerance Lim Conf/Tol Int ANOVA Welchs Other Tests

- ☐ Black and White Output
- ☐ Four Plots Per Page
- ☒ Always Combine Data Pages...
- ☒ Include Tick Marks on Data Page
- ☐ Page Break Between Constituents
- ☐ Use Constituent Name for Graph Title
- ☐ Draw Border Around Text Reports and Data Pages
- ☒ Enlarge/Reduce Fonts (Graphs): 100%
- ☒ Enlarge/Reduce Fonts (Data/Text Reports): 100%
- ☒ Wide Margins (on reports without explicit setting)
- ☐ Use CAS# (Not Const. Name)
- ☐ Truncate File Names to 20 Characters
- ☐ Include Limit Lines when found in Database...
- ☒ Show Deselected Data on Time Series Lighter
- ☐ Show Deselected Data on all Data Pages Lighter
- Setup Symbols and Colors...

- ☒ Prompt to Overwrite/Append Summary Tables
- ☐ Round Limits to 2 Sig. Digits (when not set in data file)
- ☐ User-Set Scale
- ☒ Indicate Background Data
- ☐ Show Exact Dates
- ☐ Thick Plot Lines
- Zoom Factor: 200%
- Output Decimal Precision
- ☐ Less Precision
- ☒ Normal Precision
- ☐ More Precision

☒ Store Print Jobs in Multiple Constituent Mode Store All Print Jobs...

Printer: Adobe PDF Printers...

Save Settings As... Load Saved Settings... Defaults... Edit INI File OK Cancel

Options

Data Output Trend Test Control Cht Prediction Lim Tolerance Lim Conf/Tol Int ANOVA Welchs Other Tests

- ☒ Test for Normality using Shapiro-Wilk/Francia at Alpha = 0.01
- ☒ Use Non-Parametric Test when Non-Detects Percent > 50
- Use Aitchison's Adjustment when Non-Detects Percent > 15
- ☐ Optional Further Refinement: Use when NDs % > 50
- ☐ Use Poisson Prediction Limit when Non-Detects Percent > 0

Transformation

- ☒ Use Ladder of Powers
- ☐ Natural Log or No Transformation
- ☐ Never Transform
- ☐ Use Specific Transformation: Natural Log
- ☐ Use Best W Statistic
- ☐ Plot Transformed Values

Deseasonalize (Intra- and InterWell)

- ☐ If Seasonality Is Detected
- ☐ If Seasonality Is Detected Or Insufficient to Test
- ☐ Always (When Sufficient Data)
- ☒ Never
- ☐ Always Use Non-Parametric

Facility

Statistical Evaluations per Year: 2

Constituents Analyzed: 7

Downgradient (Compliance) Wells: 13

Sampling Plan

- Comparing Individual Observations
- ☐ 1 of 1 ☐ 1 of 2 ☒ 1 of 3 ☐ 1 of 4
- ☐ 2 of 4 ("Modified California")

IntraWell Other

- ☐ Stop if Background Trend Detected at Alpha = 0.05
- ☒ Plot Background Data
- Override Standard Deviation:
- Override DF: Override Kappa:

- ☐ Automatically Remove Background Outliers
- ☐ 2-Tailed Test Mode...
- ☐ Show Deselected Data Lighter

Non-Parametric Limit = Highest Background Value

- Non-Parametric Limit when 100% Non-Detects:
- ☐ Highest/Second Highest Background Value
- ☒ Most Recent PQL if available, or MDL
- ☐ Most Recent Background Value (subst. method)

Save Settings As... Load Saved Settings... Defaults... Edit INI File OK Cancel

Options

Data Output Trend Test Control Cht Prediction Lim Tolerance Lim Conf/Tol Int ANOVA Welchs Other Tests

Rank Von Neumann, Wilcoxon Rank Sum / Mann-Whitney

☐ Use Modified Alpha... ☐ 2-Tailed Test Mode... ☐ Combine Background Wells on Mann-Whitney...

Outlier Tests

☐ EPA 1989 Outlier Screening (fixed alpha of 0.05)☒ Dixon's at $\alpha = 0.05$ or if $n > 22$ Rosner's at $\alpha = 0.01$ ☒ Use EPA Screening to establish Suspected Outliers☐ Tukey's Outlier Screening, with IQR Multiplier = 3.0 ☐ Use Ladder of Powers to achieve Best W Stat☒ Test For Normality using Shapiro-Wilk/Francia at Alpha = 0.1☒ Stop if Non-Normal☐ Continue with Parametric Test if Non-Normal☐ Tukey's if Non-Normal, with IQR Multiplier = 3.0 ☒ Use Ladder of Powers to achieve Best W Stat☒ No Outlier If Less Than 3.0 Times Median☐ Apply Rules found in Ohio Guidance Document 0715☐ Combine Background Wells on the Outlier Report...

Piper, Stiff Diagram

☐ Combine Wells☐ Combine Dates☒ Use Default Constituent Names☐ Use Constituent Definition File ☒ Label Constituents☒ Label Axes☒ Note Cation-Anion Balance (Piper only)

APPENDIX D.2

Spring 2024 Semiannual Assessment Monitoring Statistical Analyses

MEMORANDUM

October 3, 2024

To: La Cygne Generating Station
25166 East 2200 Road
La Cygne, Kansas 66040
Evergy Metro, Inc.

From: SCS Engineers
John Rockhold, P.G.
Floyd Cotter, P.E.

RE: Determination of Statistically Significant Increases/Levels –
CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment
Multi-Unit Groundwater Monitoring System
Spring Semiannual Assessment Monitoring 40 CFR 257.95



Statistical analysis of monitoring data from the multi-unit groundwater monitoring system for the CCR Landfill, Lower AQC Impoundment and Upper AQC Impoundment at the La Cygne Generating Station has been completed in substantial compliance with the “Statistical Method Certification by A Qualified Professional Engineer” dated October 27, 2023. Semiannual assessment monitoring groundwater samples were collected on May 17, 2024. Review and validation of the results from the May Assessment Monitoring Event was completed on July 5, 2024, which constitutes completion and finalization of assessment monitoring laboratory analyses. A statistical analysis was then conducted to determine whether there was a statistically significant increase (SSI) over background values and whether the concentrations were at statistically significant levels (SSLs) above their groundwater protection standards (GWPS) for each constituent listed in Appendix IV to Part 257-Constyituents for Assessment Monitoring.

The completed statistical evaluation identified four Appendix IV constituents above their prediction limits and two Appendix IV constituents above their GWPSs at SSLs.

Monitoring Well	Constituent	*UPL	**GWPS	Observation May 2024
MW-7	Barium	0.3312	2	0.478
MW-801				0.495
MW-802				0.916
MW-707B	Cobalt	0.002	0.006	0.00849
	Lithium	0.278	0.278	1.27
MW-804	Radium Combined***	2.299	5	3.81
TW-1				2.79

Units = mg/L – Milligrams per Liter

*UPL – Upper Prediction Limit

**GWPS – Groundwater Protection Standard

*** - units are pCi/L – Picocuries per Liter

Determination: A statistical evaluation was completed for all Appendix IV assessment monitoring constituents in accordance with the certified statistical method. The statistical evaluation identified SSIs above the background prediction limits for barium at MW-7, MW-801, and MW-802; cobalt and lithium at MW-707B; and radium combined at MW-804 and TW-1. The cobalt and lithium concentrations at MW-707B were both above their respective GWPSs.

Attached to this memorandum are the following backup information:

Attachment 1: Sanitas™ Output:

Statistical evaluation output from Sanitas™ for the prediction limit analysis. This includes prediction limit plots, prediction limit background data, assessment sample results, and a Prediction Limit summary table. Output documentation includes the analytical data used for the statistical analyses.

Attachment 2: Sanitas™ Configuration Settings:

Screen shots of the applicable Sanitas™ configuration settings for the statistical prediction limit analysis. This includes data configuration, output configuration, prediction limit configuration and other tests configuration.

[illegible]

La Cygne Generating Station
Determination of SSI/SSL
CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment
Multi-Unit Groundwater Monitoring System
October 3, 2024

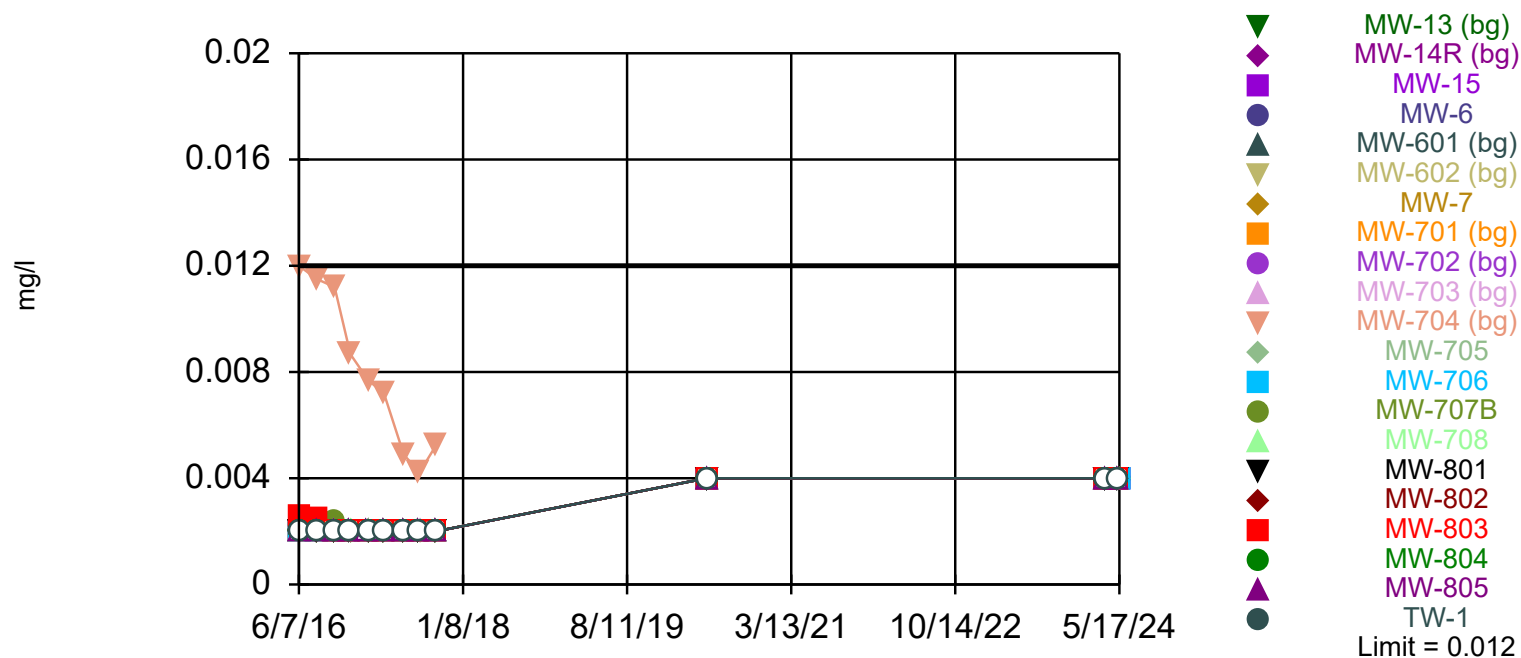
ATTACHMENT 1

Sanitas™ Output

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 87.5% NDs. Annual per-constituent alpha = 0.0003897. Individual comparison alpha = 0.00001499 (1 of 3). Comparing 13 points to limit.

Constituent: ANTIMONY Analysis Run 9/5/2024 8:23 AM View: Interwell IV

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

Prediction Limit

Constituent: ANTIMONY (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	<0.002	0.012	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
6/8/2016									<0.002
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	<0.002	0.0115		<0.002	<0.002	<0.002			<0.002
8/10/2016			<0.002				<0.002	<0.002	
8/11/2016									
8/12/2016									
10/11/2016	<0.002	0.0112		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/12/2016			<0.002						
10/13/2016									
12/6/2016		0.00867		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2016	<0.002								
12/8/2016									
12/9/2016			<0.002						
12/12/2016									
12/13/2016									
2/6/2017								<0.002	
2/7/2017		0.00769		<0.002	<0.002	<0.002	<0.002		<0.002
2/8/2017									
2/9/2017	<0.002		<0.002						
2/10/2017									
4/4/2017		0.00719		<0.002		<0.002	<0.002	<0.002	<0.002
4/5/2017									
4/6/2017	<0.002		<0.002		<0.002				
4/7/2017									
6/13/2017	<0.002	0.00488				<0.002	<0.002	<0.002	<0.002
6/14/2017			<0.002	<0.002	<0.002				
6/15/2017									
8/7/2017							<0.002		
8/8/2017		0.00423	<0.002			<0.002		<0.002	
8/9/2017	<0.002				<0.002				<0.002
8/10/2017				<0.002					
10/3/2017	<0.002	0.00521				<0.002			
10/4/2017			<0.002		<0.002		<0.002		<0.002
10/5/2017				<0.002				<0.002	
10/6/2017									
5/19/2020	<0.004		<0.004		<0.004		<0.004	<0.004	<0.004
4/3/2024	<0.004		<0.004		<0.004		<0.004	<0.004	<0.004
5/15/2024							<0.004	<0.004	
5/16/2024			<0.004		<0.004				
5/17/2024	<0.004								<0.004

Prediction Limit

Constituent: ANTIMONY (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
 LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	<0.002	<0.002	<0.002	<0.002					
6/9/2016					0.00256	<0.002	<0.002	<0.002	<0.002
6/10/2016									
6/23/2016									
8/9/2016	<0.002					<0.002	<0.002		<0.002
8/10/2016		<0.002	<0.002	<0.002					
8/11/2016								<0.002	
8/12/2016					0.0025				
10/11/2016	<0.002		<0.002						<0.002
10/12/2016							<0.002		
10/13/2016		<0.002		<0.002	<0.002	<0.002		<0.002	
12/6/2016					<0.002				<0.002
12/7/2016			<0.002			<0.002	<0.002		
12/8/2016	<0.002								
12/9/2016									
12/12/2016		<0.002		<0.002					
12/13/2016								<0.002	
2/6/2017									
2/7/2017			<0.002				<0.002		<0.002
2/8/2017	<0.002	<0.002			<0.002	<0.002			
2/9/2017				<0.002					
2/10/2017								<0.002	
4/4/2017			<0.002						<0.002
4/5/2017	<0.002	<0.002		<0.002			<0.002		
4/6/2017						<0.002		<0.002	
4/7/2017					<0.002				
6/13/2017			<0.002		<0.002				<0.002
6/14/2017							<0.002		
6/15/2017	<0.002	<0.002		<0.002		<0.002		<0.002	
8/7/2017									
8/8/2017			<0.002					<0.002	<0.002
8/9/2017	<0.002	<0.002		<0.002	<0.002	<0.002			
8/10/2017							<0.002		
10/3/2017	<0.002						<0.002		<0.002
10/4/2017					<0.002				
10/5/2017		<0.002	<0.002	<0.002				<0.002	
10/6/2017						<0.002			
5/19/2020		<0.004	<0.004	<0.004	<0.004		<0.004		<0.004
4/3/2024		<0.004	<0.004	<0.004	<0.004		<0.004		<0.004
5/15/2024			<0.004		<0.004				
5/16/2024									<0.004
5/17/2024		<0.004		<0.004			<0.004		

Prediction Limit

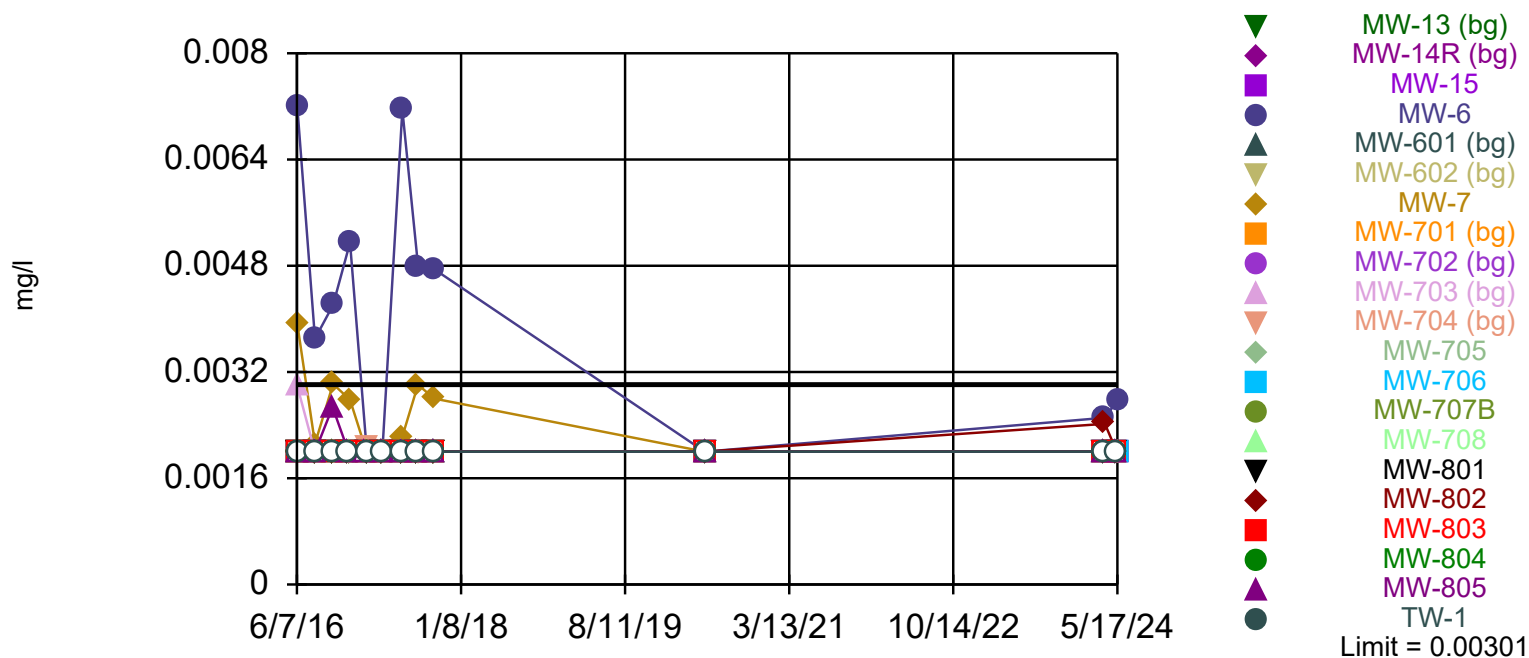
Constituent: ANTIMONY (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	<0.002		
6/10/2016		<0.002	
6/23/2016			<0.002
8/9/2016		<0.002	<0.002
8/10/2016			
8/11/2016	<0.002		
8/12/2016			
10/11/2016			0.00235
10/12/2016			
10/13/2016	<0.002	<0.002	
12/6/2016			<0.002
12/7/2016			
12/8/2016			
12/9/2016	<0.002	<0.002	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			<0.002
2/8/2017		<0.002	
2/9/2017	<0.002		
2/10/2017			
4/4/2017			<0.002
4/5/2017			
4/6/2017			
4/7/2017	<0.002	<0.002	
6/13/2017			<0.002
6/14/2017			
6/15/2017	<0.002	<0.002	
8/7/2017			
8/8/2017			<0.002
8/9/2017			
8/10/2017	<0.002	<0.002	
10/3/2017			<0.002
10/4/2017			
10/5/2017	<0.002	<0.002	
10/6/2017			
5/19/2020			<0.004
4/3/2024			<0.004
5/15/2024			
5/16/2024			<0.004
5/17/2024			

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 97.22% NDs. Annual per-constituent alpha = 0.0003897. Individual comparison alpha = 0.00001499 (1 of 3). Comparing 13 points to limit.

Constituent: ARSENIC Analysis Run 9/5/2024 8:23 AM View: Interwell IV

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

Prediction Limit

Constituent: ARSENIC (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	<0.002	<0.002	<0.002	0.00301	<0.002	<0.002	<0.002	<0.002	
6/8/2016									<0.002
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	<0.002	<0.002		<0.002	<0.002	<0.002			<0.002
8/10/2016			<0.002				<0.002	<0.002	
8/11/2016									
8/12/2016									
10/11/2016	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	0.00267	<0.002
10/12/2016			<0.002						
10/13/2016									
12/6/2016		<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2016	<0.002								
12/8/2016									
12/9/2016			<0.002						
12/12/2016									
12/13/2016									
2/6/2017								<0.002	
2/7/2017		0.00205		<0.002	<0.002	<0.002	<0.002		<0.002
2/8/2017									
2/9/2017	<0.002		<0.002						
2/10/2017									
4/4/2017		<0.002		<0.002		<0.002	<0.002	<0.002	<0.002
4/5/2017									
4/6/2017	<0.002		<0.002		<0.002				
4/7/2017									
6/13/2017	<0.002	<0.002				<0.002	<0.002	<0.002	<0.002
6/14/2017			<0.002	<0.002	<0.002				
6/15/2017									
8/7/2017							<0.002		
8/8/2017		<0.002	<0.002			<0.002		<0.002	
8/9/2017	<0.002				<0.002				<0.002
8/10/2017				<0.002					
10/3/2017	<0.002	<0.002				<0.002			
10/4/2017			<0.002		<0.002		<0.002		<0.002
10/5/2017				<0.002				<0.002	
10/6/2017									
5/19/2020	<0.002		<0.002		<0.002		<0.002	<0.002	<0.002
4/3/2024	<0.002		<0.002		<0.002		0.00242	<0.002	<0.002
5/15/2024							<0.002	<0.002	
5/16/2024			<0.002		<0.002				
5/17/2024	<0.002								<0.002

Prediction Limit

Page 2

Constituent: ARSENIC (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	<0.002	0.00393	<0.002	0.00721					
6/9/2016					<0.002	<0.002	<0.002	<0.002	<0.002
6/10/2016									
6/23/2016									
8/9/2016	<0.002					<0.002	<0.002		<0.002
8/10/2016		0.00212	<0.002	0.0037					
8/11/2016								<0.002	
8/12/2016					<0.002				
10/11/2016	<0.002		<0.002						<0.002
10/12/2016							<0.002		
10/13/2016		0.00302		0.00421	<0.002	<0.002		<0.002	
12/6/2016					<0.002				<0.002
12/7/2016			<0.002			<0.002	<0.002		
12/8/2016	<0.002								
12/9/2016									
12/12/2016		0.00278		0.00515					
12/13/2016								<0.002	
2/6/2017									
2/7/2017			<0.002				<0.002		<0.002
2/8/2017	<0.002	<0.002			<0.002	<0.002			
2/9/2017				<0.002					
2/10/2017								<0.002	
4/4/2017			<0.002						<0.002
4/5/2017	<0.002	<0.002		<0.002			<0.002		
4/6/2017						<0.002		<0.002	
4/7/2017					<0.002				
6/13/2017			<0.002		<0.002				<0.002
6/14/2017							<0.002		
6/15/2017	<0.002	0.00223		0.00715		<0.002		<0.002	
8/7/2017									
8/8/2017			<0.002					<0.002	<0.002
8/9/2017	<0.002	0.00301		0.0048	<0.002	<0.002			
8/10/2017							<0.002		
10/3/2017	<0.002						<0.002		<0.002
10/4/2017					<0.002				
10/5/2017		0.0028	<0.002	0.00475				<0.002	
10/6/2017						<0.002			
5/19/2020		<0.002	<0.002	<0.002	<0.002		<0.002		<0.002
4/3/2024		<0.002	<0.002	0.00251	<0.002		<0.002		<0.002
5/15/2024			<0.002		<0.002				
5/16/2024									<0.002
5/17/2024		<0.002		0.00277			<0.002		

Prediction Limit

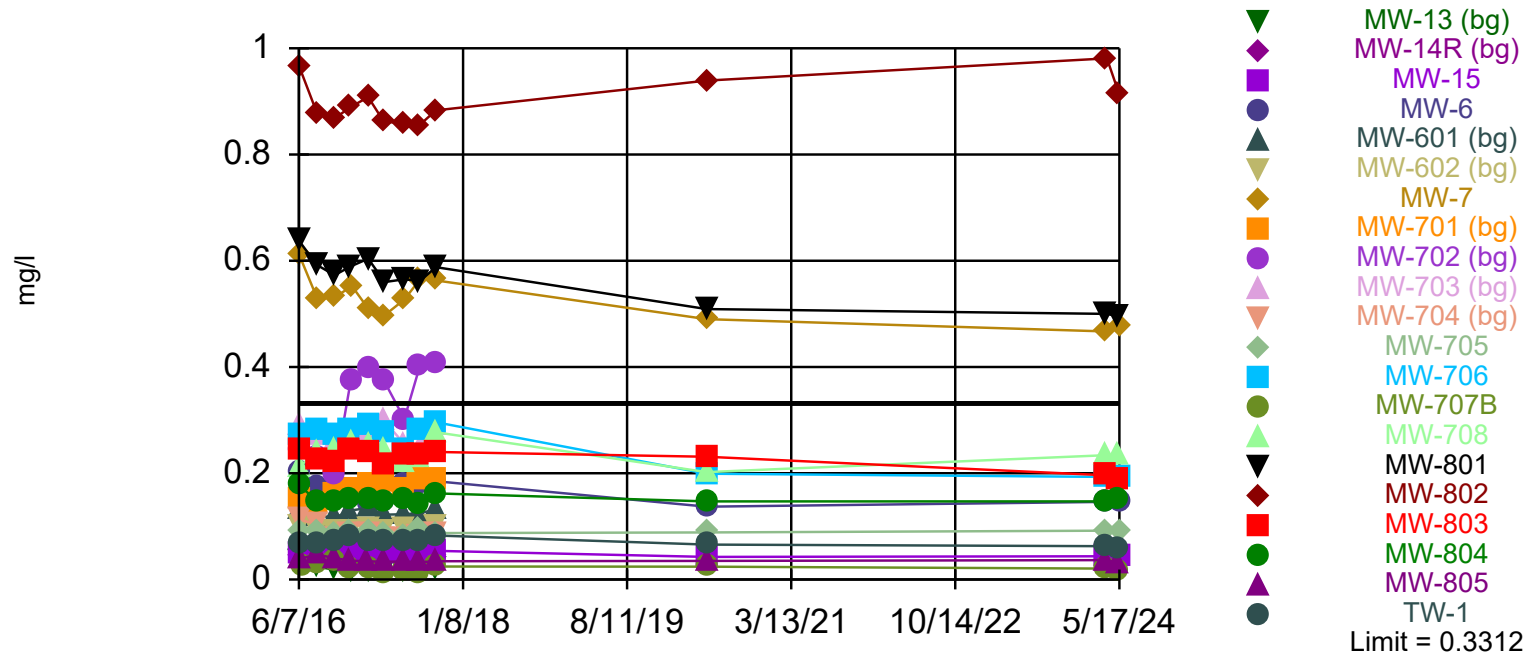
Constituent: ARSENIC (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	<0.002		
6/10/2016		<0.002	
6/23/2016			<0.002
8/9/2016		<0.002	<0.002
8/10/2016			
8/11/2016	<0.002		
8/12/2016			
10/11/2016			<0.002
10/12/2016			
10/13/2016	<0.002	<0.002	
12/6/2016			<0.002
12/7/2016			
12/8/2016			
12/9/2016	<0.002	<0.002	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			<0.002
2/8/2017		<0.002	
2/9/2017	<0.002		
2/10/2017			
4/4/2017			<0.002
4/5/2017			
4/6/2017			
4/7/2017	<0.002	<0.002	
6/13/2017			<0.002
6/14/2017			
6/15/2017	<0.002	<0.002	
8/7/2017			
8/8/2017			<0.002
8/9/2017			
8/10/2017	<0.002	<0.002	
10/3/2017			<0.002
10/4/2017			
10/5/2017	<0.002	<0.002	
10/6/2017			
5/19/2020			<0.002
4/3/2024			<0.002
5/15/2024			
5/16/2024			<0.002
5/17/2024			

Exceeds Limit: MW-7, MW-801, MW-802

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=0.3498, Std. Dev.=0.1418, n=72.
 Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9734, critical = 0.954. Kappa = 1.592 (c=15, w=13, 1 of 3, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0002701. Comparing 13 points to limit.

Constituent: BARIUM Analysis Run 9/5/2024 8:24 AM View: Interwell IV

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

Prediction Limit

Constituent: BARIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	0.0918	0.113	0.212	0.292	0.638	0.149	0.967	0.0387	
6/8/2016									0.273
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	0.0892	0.104		0.273	0.592	0.144			0.28
8/10/2016			0.24				0.878	0.0471	
8/11/2016									
8/12/2016									
10/11/2016	0.0881	0.0776		0.259	0.573	0.159	0.868	0.0401	0.274
10/12/2016			0.244						
10/13/2016									
12/6/2016		0.0844		0.27	0.589	0.168	0.889	0.0356 (O1)	0.281
12/7/2016	0.093								
12/8/2016									
12/9/2016			0.257						
12/12/2016									
12/13/2016									
2/6/2017								0.034	
2/7/2017		0.0847		0.271	0.604	0.181	0.908		0.29
2/8/2017									
2/9/2017	0.089		0.255						
2/10/2017									
4/4/2017		0.0747		0.299		0.186	0.861	0.0334	0.276
4/5/2017									
4/6/2017	0.0873		0.244		0.56				
4/7/2017									
6/13/2017	0.0837	0.0774				0.172	0.86	0.0337	0.245
6/14/2017			0.222	0.255	0.565				
6/15/2017									
8/7/2017							0.855		
8/8/2017		0.0799	0.229			0.19		0.0327	
8/9/2017	0.0938				0.562				0.28
8/10/2017				0.251					
10/3/2017	0.0873	0.0842				0.19			
10/4/2017			0.277		0.588		0.883		0.296
10/5/2017				0.29				0.0344	
10/6/2017									
5/19/2020	0.0887		0.202		0.509		0.939	0.035	0.199
4/3/2024	0.0918		0.234		0.5		0.981	0.0364	0.193
5/15/2024							0.916	0.0302	
5/16/2024			0.234		0.495				
5/17/2024	0.0887								0.193

Prediction Limit

Page 2

Constituent: BARIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	0.242	0.611	0.178	0.204					
6/9/2016					0.244	0.134	0.0472	0.036	0.0671
6/10/2016									
6/23/2016									
8/9/2016	0.232					0.12	0.0476		0.0686
8/10/2016		0.53	0.147	0.175					
8/11/2016								0.0235	
8/12/2016					0.224				
10/11/2016	0.199		0.146						0.0701
10/12/2016							0.0466		
10/13/2016		0.532		0.174	0.22	0.117		0.0187	
12/6/2016					0.242				0.0823
12/7/2016			0.151			0.13	0.0556		
12/8/2016	0.376								
12/9/2016									
12/12/2016		0.552		0.168					
12/13/2016								0.0181	
2/6/2017									
2/7/2017			0.153				0.0527		0.0733
2/8/2017	0.396	0.509			0.239	0.135			
2/9/2017				0.141					
2/10/2017								0.0161	
4/4/2017			0.147						0.0706
4/5/2017	0.373	0.497		0.147			0.05		
4/6/2017						0.122		0.016	
4/7/2017					0.217				
6/13/2017			0.15		0.234				0.0711
6/14/2017							0.0546		
6/15/2017	0.302	0.527		0.181		0.123		0.0162	
8/7/2017									
8/8/2017			0.143					0.0159	0.0737
8/9/2017	0.403	0.565		0.178	0.234	0.125			
8/10/2017							0.0515		
10/3/2017	0.408						0.0541		0.0829
10/4/2017					0.24				
10/5/2017		0.563	0.162	0.185				0.0192 (B)	
10/6/2017						0.132			
5/19/2020		0.49	0.147	0.137	0.231		0.0425		0.0656
4/3/2024		0.467	0.147	0.146	0.196		0.0437		0.0628
5/15/2024			0.149		0.189				
5/16/2024									0.0586
5/17/2024		0.478		0.145			0.0449		

Prediction Limit

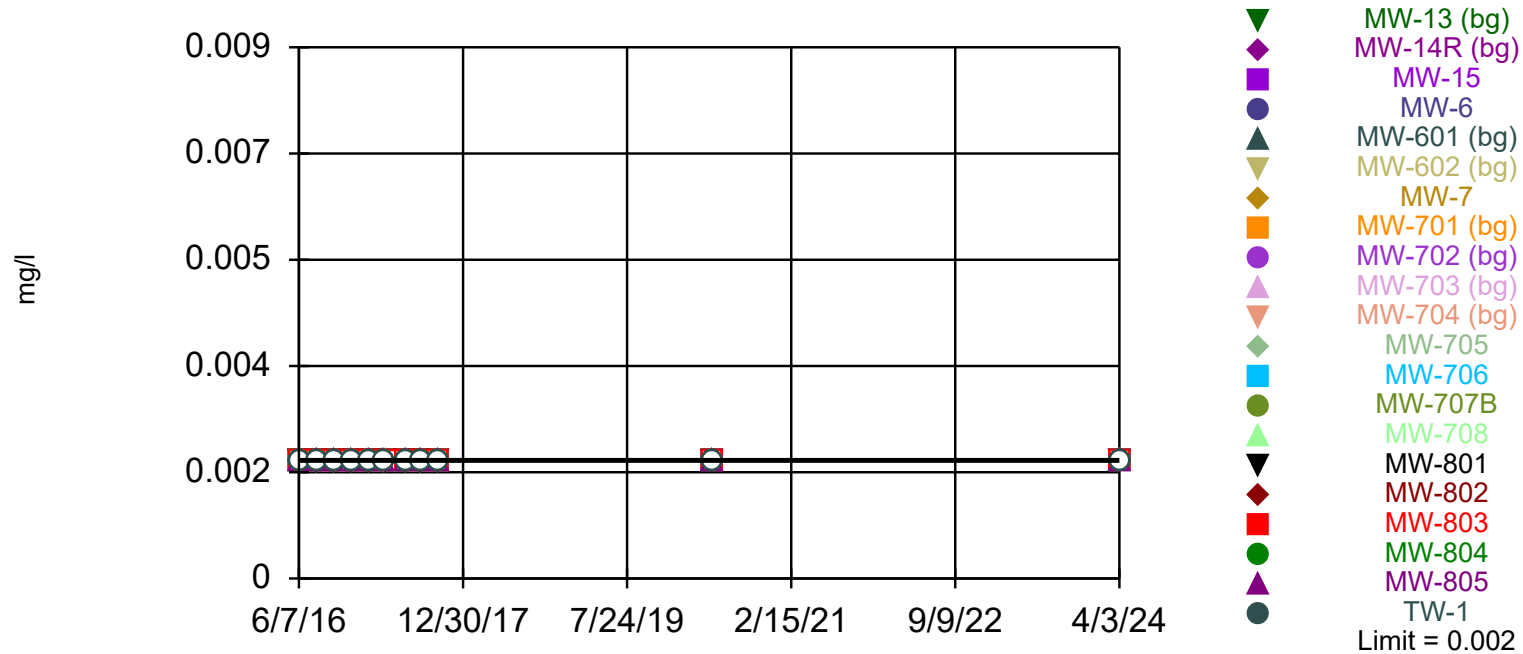
Constituent: BARIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	0.0448		
6/10/2016		0.101	
6/23/2016			0.0253
8/9/2016		0.0927	0.0315
8/10/2016			
8/11/2016	0.0411		
8/12/2016			
10/11/2016			0.0347
10/12/2016			
10/13/2016	0.037	0.0906	
12/6/2016			0.0215
12/7/2016			
12/8/2016			
12/9/2016	0.0374	0.0913	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			0.0198
2/8/2017		0.0956	
2/9/2017	0.0411		
2/10/2017			
4/4/2017			0.0133
4/5/2017			
4/6/2017			
4/7/2017	0.0376	0.0921	
6/13/2017			0.0143
6/14/2017			
6/15/2017	0.0411	0.094	
8/7/2017			
8/8/2017			0.0134
8/9/2017			
8/10/2017	0.0394	0.0883	
10/3/2017			0.0244
10/4/2017			
10/5/2017	0.0436	0.101	
10/6/2017			
5/19/2020			0.0241
4/3/2024			0.0205
5/15/2024			
5/16/2024			0.017
5/17/2024			

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 72$) were censored; limit is most recent reporting limit. Annual per-constituent $\alpha = 0.0003897$. Individual comparison $\alpha = 0.00001499$ (1 of 3). Comparing 13 points to limit.

Prediction Limit

Constituent: BERYLLIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-701 (bg)	MW-703 (bg)	MW-704 (bg)	MW-705	MW-805	MW-708	MW-801	MW-802	MW-7
6/7/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
6/8/2016									<0.002
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	<0.002	<0.002	<0.002	<0.002			<0.002		
8/10/2016					<0.002	<0.002		<0.002	<0.002
8/11/2016									
8/12/2016									
10/11/2016	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	
10/12/2016						<0.002			
10/13/2016									<0.002
12/6/2016	<0.002	<0.002	<0.002		<0.002		<0.002	<0.002	
12/7/2016				<0.002					
12/8/2016									
12/9/2016						<0.002			
12/12/2016									<0.002
12/13/2016									
2/6/2017					<0.002				
2/7/2017	<0.002	<0.002	<0.002				<0.002	<0.002	
2/8/2017									<0.002
2/9/2017				<0.002		<0.002			
2/10/2017									
4/4/2017	<0.002	<0.002	<0.002		<0.002			<0.002	
4/5/2017									<0.002
4/6/2017				<0.002		<0.002	<0.002		
4/7/2017									
6/13/2017	<0.002		<0.002	<0.002	<0.002			<0.002	
6/14/2017		<0.002				<0.002	<0.002		
6/15/2017									<0.002
8/7/2017								<0.002	
8/8/2017	<0.002		<0.002		<0.002	<0.002			
8/9/2017				<0.002			<0.002		<0.002
8/10/2017		<0.002							
10/3/2017	<0.002		<0.002	<0.002					
10/4/2017						<0.002	<0.002	<0.002	
10/5/2017		<0.002			<0.002				<0.002
10/6/2017									
5/19/2020				<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/3/2024				<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Prediction Limit

Page 2

Constituent: BERYLLIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-706	MW-6	MW-804	MW-601 (bg)	MW-15	MW-13 (bg)	MW-803	MW-14R (bg)
6/7/2016									
6/8/2016	<0.002	<0.002	<0.002	<0.002					
6/9/2016					<0.002	<0.002	<0.002	<0.002	<0.002
6/10/2016									
6/23/2016									
8/9/2016	<0.002	<0.002			<0.002	<0.002			
8/10/2016			<0.002	<0.002					
8/11/2016							<0.002		<0.002
8/12/2016								<0.002	
10/11/2016	<0.002	<0.002		<0.002					
10/12/2016						<0.002			
10/13/2016			<0.002		<0.002		<0.002	<0.002	<0.002
12/6/2016		<0.002						<0.002	
12/7/2016				<0.002	<0.002	<0.002			
12/8/2016	<0.002								
12/9/2016									<0.002
12/12/2016			<0.002						
12/13/2016							<0.002		
2/6/2017									
2/7/2017		<0.002		<0.002		<0.002			
2/8/2017	<0.002				<0.002			<0.002	
2/9/2017			<0.002						<0.002
2/10/2017							<0.002		
4/4/2017		<0.002		<0.002					
4/5/2017	<0.002		<0.002			<0.002			
4/6/2017					<0.002		<0.002		
4/7/2017								<0.002	<0.002
6/13/2017		<0.002		<0.002				<0.002	
6/14/2017						<0.002			
6/15/2017	<0.002		<0.002		<0.002		<0.002		<0.002
8/7/2017									
8/8/2017				<0.002			<0.002		
8/9/2017	<0.002	<0.002	<0.002		<0.002			<0.002	
8/10/2017						<0.002			<0.002
10/3/2017	<0.002					<0.002			
10/4/2017		<0.002						<0.002	
10/5/2017			<0.002	<0.002			<0.002		<0.002
10/6/2017					<0.002				
5/19/2020		<0.002	<0.002	<0.002		<0.002		<0.002	
4/3/2024		<0.002	<0.002	<0.002		<0.002		<0.002	

Prediction Limit

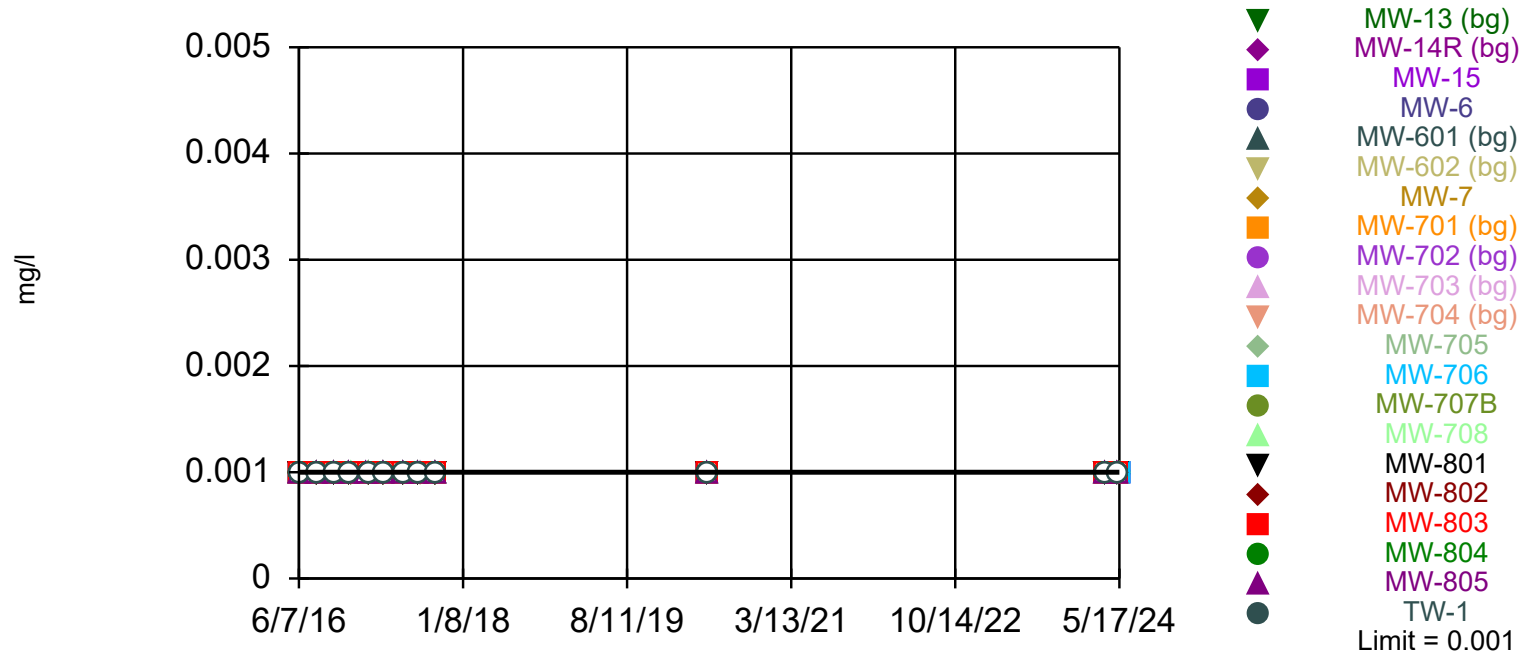
Constituent: BERYLLIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	TW-1	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	<0.002		
6/10/2016		<0.002	
6/23/2016			<0.002
8/9/2016	<0.002	<0.002	<0.002
8/10/2016			
8/11/2016			
8/12/2016			
10/11/2016	<0.002		<0.002
10/12/2016			
10/13/2016		<0.002	
12/6/2016	<0.002		<0.002
12/7/2016			
12/8/2016			
12/9/2016		<0.002	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017	<0.002		<0.002
2/8/2017		<0.002	
2/9/2017			
2/10/2017			
4/4/2017	<0.002		<0.002
4/5/2017			
4/6/2017			
4/7/2017		<0.002	
6/13/2017	<0.002		<0.002
6/14/2017			
6/15/2017		<0.002	
8/7/2017			
8/8/2017	<0.002		<0.002
8/9/2017			
8/10/2017		<0.002	
10/3/2017	<0.002		<0.002
10/4/2017			
10/5/2017		<0.002	
10/6/2017			
5/19/2020	<0.002		<0.002
4/3/2024	<0.002		<0.002

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 72$) were censored; limit is most recent reporting limit. Annual per-constituent $\alpha = 0.0003897$. Individual comparison $\alpha = 0.00001499$ (1 of 3). Comparing 13 points to limit.

Prediction Limit

Constituent: CADMIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
6/8/2016									<0.001
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	<0.001	<0.001		<0.001	<0.001	<0.001			<0.001
8/10/2016			<0.001				<0.001	<0.001	
8/11/2016									
8/12/2016									
10/11/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/12/2016			<0.001						
10/13/2016									
12/6/2016		<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/7/2016	<0.001								
12/8/2016									
12/9/2016			<0.001						
12/12/2016									
12/13/2016									
2/6/2017								<0.001	
2/7/2017		<0.001		<0.001	<0.001	<0.001	<0.001		<0.001
2/8/2017									
2/9/2017	<0.001		<0.001						
2/10/2017									
4/4/2017		<0.001		<0.001		<0.001	<0.001	<0.001	<0.001
4/5/2017									
4/6/2017	<0.001		<0.001		<0.001				
4/7/2017									
6/13/2017	<0.001	<0.001				<0.001	<0.001	<0.001	<0.001
6/14/2017			<0.001	<0.001	<0.001				
6/15/2017									
8/7/2017							<0.001		
8/8/2017		<0.001	<0.001			<0.001		<0.001	
8/9/2017	<0.001				<0.001				<0.001
8/10/2017				<0.001					
10/3/2017	<0.001	<0.001				<0.001			
10/4/2017			<0.001		<0.001		<0.001		<0.001
10/5/2017				<0.001				<0.001	
10/6/2017									
5/19/2020	<0.001		<0.001		<0.001		<0.001	<0.001	<0.001
4/3/2024	<0.001		<0.001		<0.001		<0.001	<0.001	<0.001
5/15/2024							<0.001	<0.001	
5/16/2024			<0.001		<0.001				
5/17/2024	<0.001								<0.001

Prediction Limit

Page 2

Constituent: CADMIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	<0.001	<0.001	<0.001	<0.001					
6/9/2016					<0.001	<0.001	<0.001	<0.001	<0.001
6/10/2016									
6/23/2016									
8/9/2016	<0.001					<0.001	<0.001		<0.001
8/10/2016		<0.001	<0.001	<0.001					
8/11/2016								<0.001	
8/12/2016					<0.001				
10/11/2016	<0.001		<0.001						<0.001
10/12/2016							<0.001		
10/13/2016		<0.001		<0.001	<0.001	<0.001		<0.001	
12/6/2016					<0.001				<0.001
12/7/2016			<0.001			<0.001	<0.001		
12/8/2016	<0.001								
12/9/2016									
12/12/2016		<0.001		<0.001					
12/13/2016								<0.001	
2/6/2017									
2/7/2017			<0.001				<0.001		<0.001
2/8/2017	<0.001	<0.001			<0.001	<0.001			
2/9/2017				<0.001					
2/10/2017								<0.001	
4/4/2017			<0.001						<0.001
4/5/2017	<0.001	<0.001		<0.001			<0.001		
4/6/2017						<0.001		<0.001	
4/7/2017					<0.001				
6/13/2017			<0.001		<0.001				<0.001
6/14/2017							<0.001		
6/15/2017	<0.001	<0.001		<0.001		<0.001		<0.001	
8/7/2017									
8/8/2017			<0.001					<0.001	<0.001
8/9/2017	<0.001	<0.001		<0.001	<0.001	<0.001			
8/10/2017							<0.001		
10/3/2017	<0.001						<0.001		<0.001
10/4/2017					<0.001				
10/5/2017		<0.001	<0.001	<0.001				<0.001	
10/6/2017						<0.001			
5/19/2020		<0.001	<0.001	<0.001	<0.001		<0.001		<0.001
4/3/2024		<0.001	<0.001	<0.001	<0.001		<0.001		<0.001
5/15/2024			<0.001		<0.001				
5/16/2024									<0.001
5/17/2024		<0.001		<0.001			<0.001		

Prediction Limit

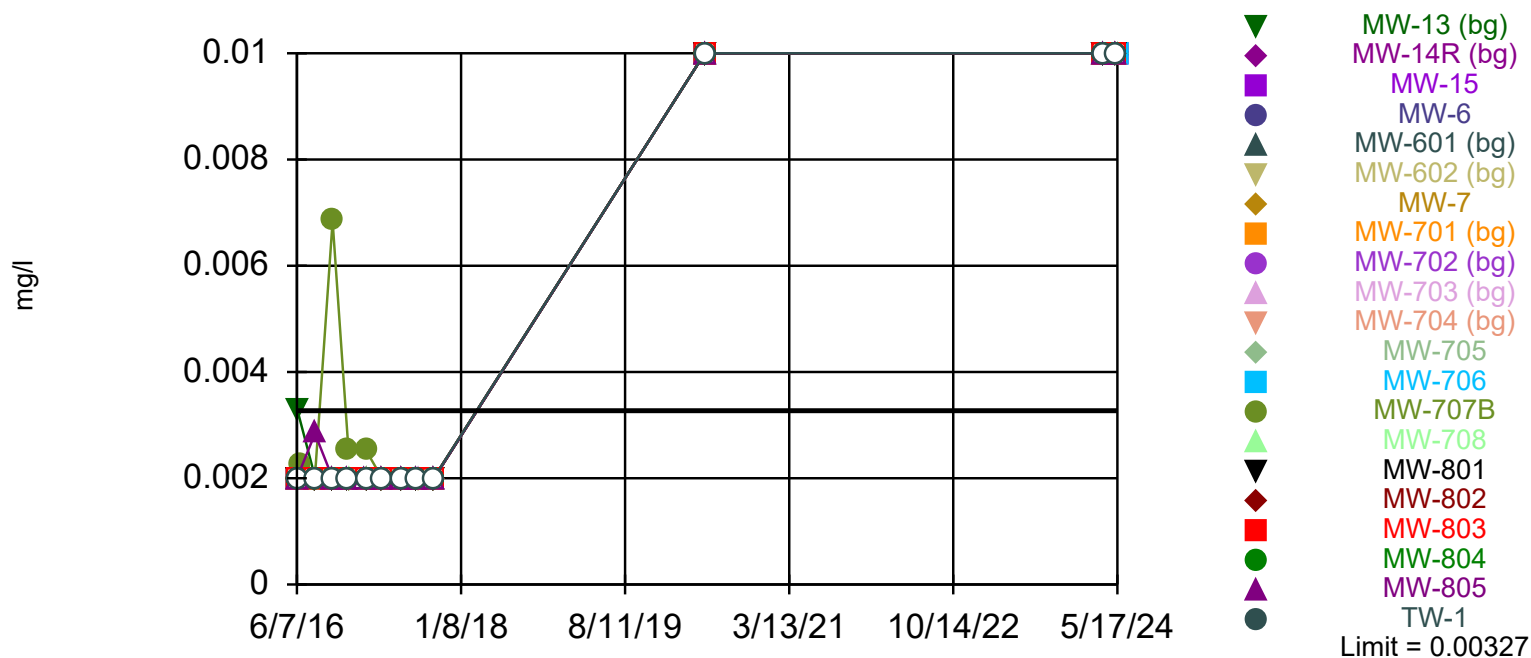
Constituent: CADMIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	<0.001		
6/10/2016		<0.001	
6/23/2016			<0.001
8/9/2016		<0.001	<0.001
8/10/2016			
8/11/2016	<0.001		
8/12/2016			
10/11/2016			<0.001
10/12/2016			
10/13/2016	<0.001	<0.001	
12/6/2016			<0.001
12/7/2016			
12/8/2016			
12/9/2016	<0.001	<0.001	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			<0.001
2/8/2017		<0.001	
2/9/2017	<0.001		
2/10/2017			
4/4/2017			<0.001
4/5/2017			
4/6/2017			
4/7/2017	<0.001	<0.001	
6/13/2017			<0.001
6/14/2017			
6/15/2017	<0.001	<0.001	
8/7/2017			
8/8/2017			<0.001
8/9/2017			
8/10/2017	<0.001	<0.001	
10/3/2017			<0.001
10/4/2017			
10/5/2017	<0.001	<0.001	
10/6/2017			
5/19/2020			<0.001
4/3/2024			<0.001
5/15/2024			
5/16/2024			<0.001
5/17/2024			

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 98.61% NDs. Annual per-constituent alpha = 0.0003897. Individual comparison alpha = 0.00001499 (1 of 3). Comparing 13 points to limit.

Constituent: CHROMIUM Analysis Run 9/5/2024 8:24 AM View: Interwell IV

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

Prediction Limit

Constituent: CHROMIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
6/8/2016									<0.002
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	<0.002	<0.002		<0.002	<0.002	<0.002			<0.002
8/10/2016			<0.002				<0.002	0.00284	
8/11/2016									
8/12/2016									
10/11/2016	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/12/2016			<0.002						
10/13/2016									
12/6/2016		<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2016	<0.002								
12/8/2016									
12/9/2016			<0.002						
12/12/2016									
12/13/2016									
2/6/2017								<0.002	
2/7/2017		<0.002		<0.002	<0.002	<0.002	<0.002		<0.002
2/8/2017									
2/9/2017	<0.002		<0.002						
2/10/2017									
4/4/2017		<0.002		<0.002		<0.002	<0.002	<0.002	<0.002
4/5/2017									
4/6/2017	<0.002		<0.002		<0.002				
4/7/2017									
6/13/2017	<0.002	<0.002				<0.002	<0.002	<0.002	<0.002
6/14/2017			<0.002	<0.002	<0.002				
6/15/2017									
8/7/2017							<0.002		
8/8/2017		<0.002	<0.002			<0.002		<0.002	
8/9/2017	<0.002				<0.002				<0.002
8/10/2017				<0.002					
10/3/2017	<0.002	<0.002				<0.002			
10/4/2017			<0.002		<0.002		<0.002		<0.002
10/5/2017				<0.002				<0.002	
10/6/2017									
5/19/2020	<0.01		<0.01		<0.01		<0.01	<0.01	<0.01
4/3/2024	<0.01		<0.01		<0.01		<0.01	<0.01	<0.01
5/15/2024							<0.01	<0.01	
5/16/2024			<0.01		<0.01				
5/17/2024	<0.01								<0.01

Prediction Limit

Page 2

Constituent: CHROMIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	<0.002	<0.002	<0.002	<0.002					
6/9/2016					<0.002	<0.002	<0.002	0.00327	<0.002
6/10/2016									
6/23/2016									
8/9/2016	<0.002					<0.002	<0.002		<0.002
8/10/2016		<0.002	<0.002	<0.002					
8/11/2016								<0.002	
8/12/2016					<0.002				
10/11/2016	<0.002		<0.002						<0.002
10/12/2016							<0.002		
10/13/2016		<0.002		<0.002	<0.002	<0.002		<0.002	
12/6/2016					<0.002				<0.002
12/7/2016			<0.002			<0.002	<0.002		
12/8/2016	<0.002								
12/9/2016									
12/12/2016		<0.002		<0.002					
12/13/2016								<0.002	
2/6/2017									
2/7/2017			<0.002				<0.002		<0.002
2/8/2017	<0.002	<0.002			<0.002	<0.002			
2/9/2017				<0.002					
2/10/2017								<0.002	
4/4/2017			<0.002						<0.002
4/5/2017	<0.002	<0.002		<0.002			<0.002		
4/6/2017						<0.002		<0.002	
4/7/2017					<0.002				
6/13/2017			<0.002		<0.002				<0.002
6/14/2017							<0.002		
6/15/2017	<0.002	<0.002		<0.002		<0.002		<0.002	
8/7/2017									
8/8/2017			<0.002					<0.002	<0.002
8/9/2017	<0.002	<0.002		<0.002	<0.002	<0.002			
8/10/2017							<0.002		
10/3/2017	<0.002						<0.002		<0.002
10/4/2017					<0.002				
10/5/2017		<0.002	<0.002	<0.002				<0.002	
10/6/2017						<0.002			
5/19/2020		<0.01	<0.01	<0.01	<0.01		<0.01		<0.01
4/3/2024		<0.01	<0.01	<0.01	<0.01		<0.01		<0.01
5/15/2024			<0.01		<0.01				
5/16/2024									<0.01
5/17/2024		<0.01		<0.01			<0.01		

Prediction Limit

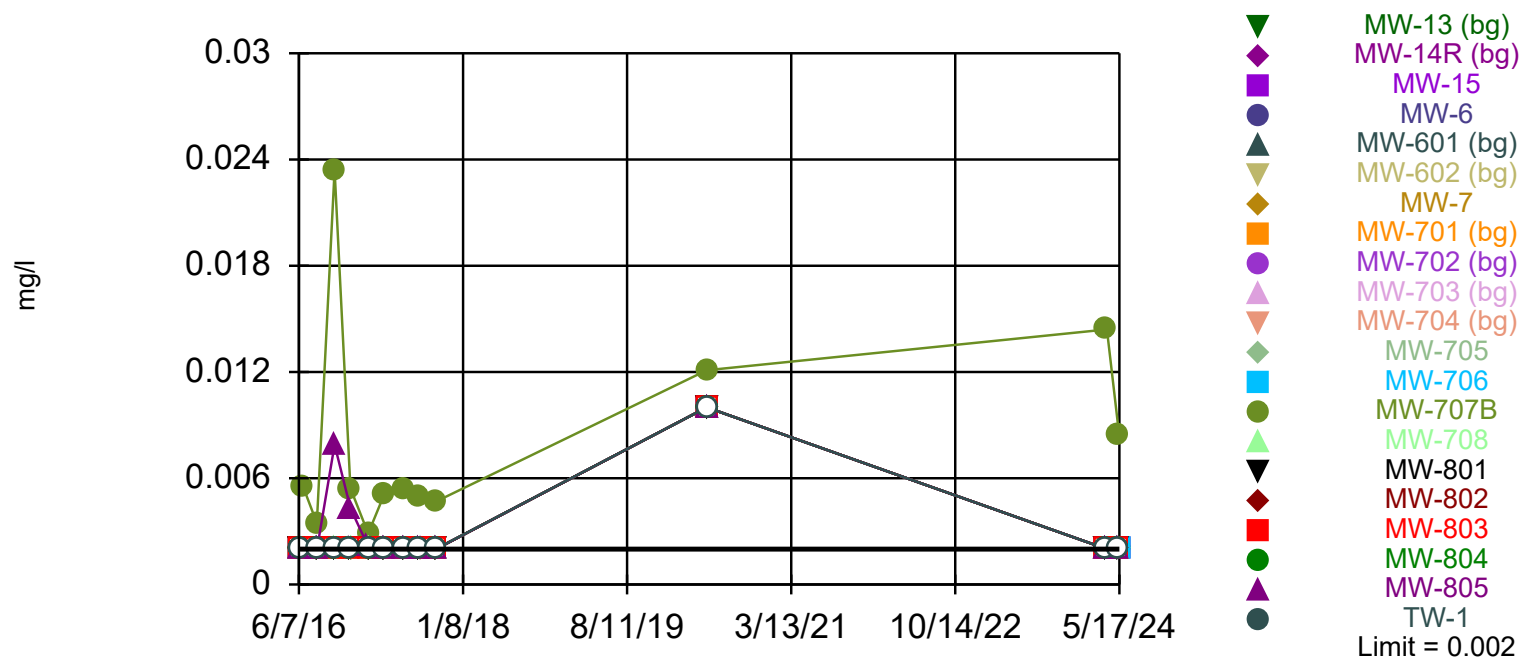
Constituent: CHROMIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	<0.002		
6/10/2016		<0.002	
6/23/2016			0.00225
8/9/2016		<0.002	<0.002
8/10/2016			
8/11/2016	<0.002		
8/12/2016			
10/11/2016			0.00684
10/12/2016			
10/13/2016	<0.002	<0.002	
12/6/2016			0.00254
12/7/2016			
12/8/2016			
12/9/2016	<0.002	<0.002	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			0.00252
2/8/2017		<0.002	
2/9/2017	<0.002		
2/10/2017			
4/4/2017			<0.002
4/5/2017			
4/6/2017			
4/7/2017	<0.002	<0.002	
6/13/2017			<0.002
6/14/2017			
6/15/2017	<0.002	<0.002	
8/7/2017			
8/8/2017			<0.002
8/9/2017			
8/10/2017	<0.002	<0.002	
10/3/2017			<0.002
10/4/2017			
10/5/2017	<0.002	<0.002	
10/6/2017			
5/19/2020			<0.01
4/3/2024			<0.01
5/15/2024			
5/16/2024			<0.01
5/17/2024			

Exceeds Limit: MW-707B

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 72$) were censored; limit is most recent reporting limit. Annual per-constituent $\alpha = 0.0003897$. Individual comparison $\alpha = 0.00001499$ (1 of 3). Comparing 13 points to limit.

Constituent: COBALT Analysis Run 9/5/2024 8:24 AM View: Interwell IV

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

Prediction Limit

Constituent: COBALT (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
6/8/2016									<0.002
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	<0.002	<0.002		<0.002	<0.002	<0.002			<0.002
8/10/2016			<0.002				<0.002	<0.002	
8/11/2016									
8/12/2016									
10/11/2016	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	0.0079	<0.002
10/12/2016			<0.002						
10/13/2016									
12/6/2016		<0.002		<0.002	<0.002	<0.002	<0.002	0.00431	<0.002
12/7/2016	<0.002								
12/8/2016									
12/9/2016			<0.002						
12/12/2016									
12/13/2016									
2/6/2017								0.00218	
2/7/2017		<0.002		<0.002	<0.002	<0.002	<0.002		<0.002
2/8/2017									
2/9/2017	<0.002		<0.002						
2/10/2017									
4/4/2017		<0.002		<0.002		<0.002	<0.002	<0.002	<0.002
4/5/2017									
4/6/2017	<0.002		<0.002		<0.002				
4/7/2017									
6/13/2017	<0.002	<0.002				<0.002	<0.002	<0.002	<0.002
6/14/2017			<0.002	<0.002	<0.002				
6/15/2017									
8/7/2017							<0.002		
8/8/2017		<0.002	<0.002			<0.002		<0.002	
8/9/2017	<0.002				<0.002				<0.002
8/10/2017				<0.002					
10/3/2017	<0.002	<0.002				<0.002			
10/4/2017			<0.002		<0.002		<0.002		<0.002
10/5/2017				<0.002				<0.002	
10/6/2017									
5/19/2020	<0.01		<0.01		<0.01		<0.01	<0.01	<0.01
4/3/2024	<0.002		<0.002		<0.002		<0.002	<0.002	<0.002
5/15/2024							<0.002	<0.002	
5/16/2024			<0.002		<0.002				
5/17/2024	<0.002								<0.002

Prediction Limit

Page 2

Constituent: COBALT (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	<0.002	<0.002	<0.002	<0.002					
6/9/2016					<0.002	<0.002	<0.002	<0.002	<0.002
6/10/2016									
6/23/2016									
8/9/2016	<0.002					<0.002	<0.002		<0.002
8/10/2016		<0.002	<0.002	<0.002					
8/11/2016								<0.002	
8/12/2016					<0.002				
10/11/2016	<0.002		<0.002						<0.002
10/12/2016							<0.002		
10/13/2016		<0.002		<0.002	<0.002	<0.002		<0.002	
12/6/2016					<0.002				<0.002
12/7/2016			<0.002			<0.002	<0.002		
12/8/2016	<0.002								
12/9/2016									
12/12/2016		<0.002		<0.002					
12/13/2016								<0.002	
2/6/2017									
2/7/2017			<0.002				<0.002		<0.002
2/8/2017	<0.002	<0.002			<0.002	<0.002			
2/9/2017				<0.002					
2/10/2017								<0.002	
4/4/2017			<0.002						<0.002
4/5/2017	<0.002	<0.002		<0.002			<0.002		
4/6/2017						<0.002		<0.002	
4/7/2017					<0.002				
6/13/2017			<0.002		<0.002				<0.002
6/14/2017							<0.002		
6/15/2017	<0.002	<0.002		<0.002		<0.002		<0.002	
8/7/2017									
8/8/2017			<0.002					<0.002	<0.002
8/9/2017	<0.002	<0.002		<0.002	<0.002	<0.002			
8/10/2017							<0.002		
10/3/2017	<0.002						<0.002		<0.002
10/4/2017					<0.002				
10/5/2017		<0.002	<0.002	<0.002				<0.002	
10/6/2017						<0.002			
5/19/2020		<0.01	<0.01	<0.01	<0.01		<0.01		<0.01
4/3/2024		<0.002	<0.002	<0.002	<0.002		<0.002		<0.002
5/15/2024			<0.002		<0.002				
5/16/2024									<0.002
5/17/2024		<0.002		<0.002			<0.002		

Prediction Limit

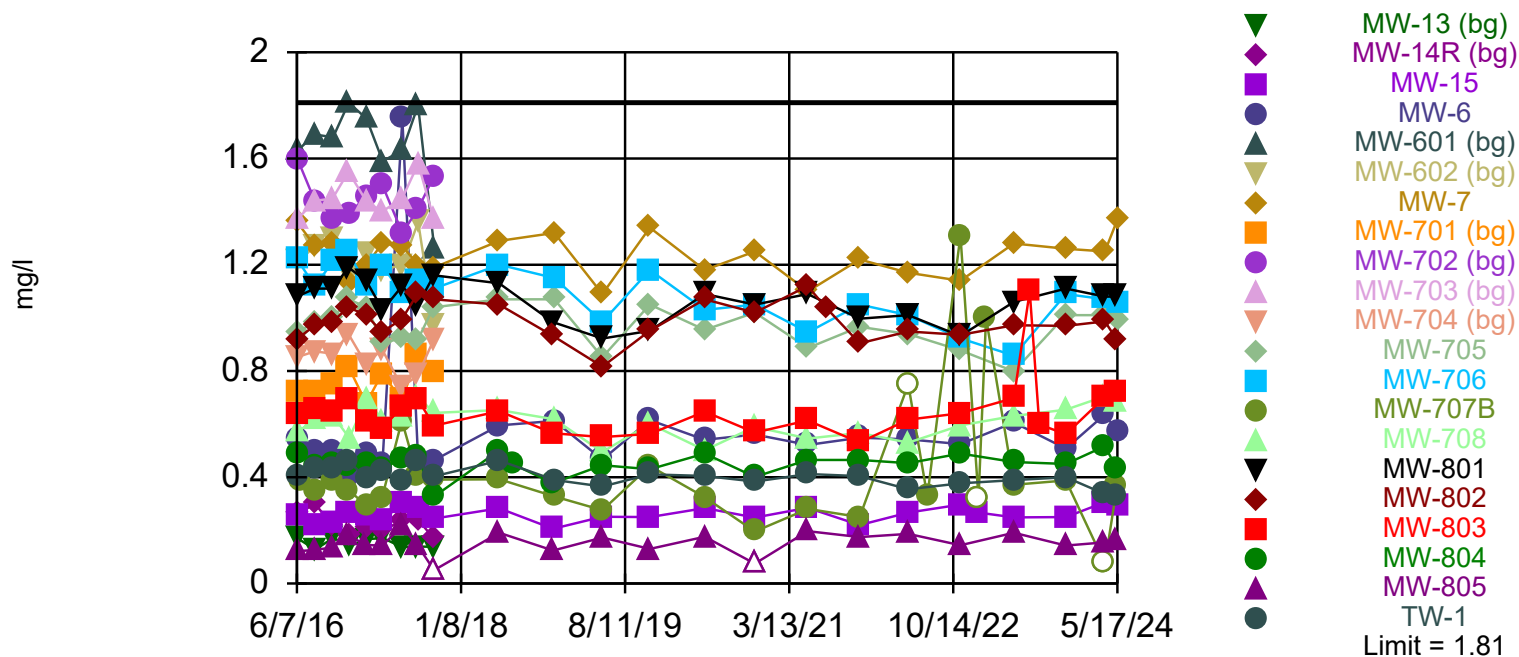
Constituent: COBALT (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	<0.002		
6/10/2016		<0.002	
6/23/2016			0.00548
8/9/2016		<0.002	0.00347
8/10/2016			
8/11/2016	<0.002		
8/12/2016			
10/11/2016			0.0234
10/12/2016			
10/13/2016	<0.002	<0.002	
12/6/2016			0.00543
12/7/2016			
12/8/2016			
12/9/2016	<0.002	<0.002	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			0.00288
2/8/2017		<0.002	
2/9/2017	<0.002		
2/10/2017			
4/4/2017			0.00506
4/5/2017			
4/6/2017			
4/7/2017	<0.002	<0.002	
6/13/2017			0.00542
6/14/2017			
6/15/2017	<0.002	<0.002	
8/7/2017			
8/8/2017			0.00492
8/9/2017			
8/10/2017	<0.002	<0.002	
10/3/2017			0.00467
10/4/2017			
10/5/2017	<0.002	<0.002	
10/6/2017			
5/19/2020			0.0121
4/3/2024			0.0144
5/15/2024			
5/16/2024			0.00849
5/17/2024			

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 72 background values. Annual per-constituent alpha = 0.0003897. Individual comparison alpha = 0.00001499 (1 of 3). Comparing 13 points to limit.

Constituent: FLUORIDE Analysis Run 9/5/2024 8:24 AM View: Interwell IV

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

Prediction Limit

Constituent: FLUORIDE (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-701 (bg)	MW-805	MW-703 (bg)	MW-802	MW-704 (bg)	MW-801	MW-708	MW-7
6/7/2016	0.944	0.717	0.122	1.37	0.92	0.852	1.08	0.569	
6/8/2016									1.36
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	0.985	0.719		1.44		0.874	1.11		
8/10/2016			0.126		0.972			0.619	1.27
8/11/2016									
8/12/2016									
10/11/2016	0.998	0.751	0.136	1.45	0.986	0.865	1.11		
10/12/2016								0.632	
10/13/2016									1.28
12/6/2016		0.816	0.181	1.55	1.04	0.939	1.19		
12/7/2016	1.07								
12/8/2016									
12/9/2016								0.548	
12/12/2016									1.13
12/13/2016									
2/6/2017			0.145						
2/7/2017		0.679		1.44	1.01	0.825	1.14		
2/8/2017									1.2
2/9/2017	1.04							0.695	
2/10/2017									
4/4/2017		0.79	0.142	1.4	0.947	0.882			
4/5/2017									1.28
4/6/2017	0.905						1.03	0.612	
4/7/2017									
6/13/2017	0.924	0.692	0.214		0.995	0.74			
6/14/2017				1.45			1.12	0.624	
6/15/2017									1.27
8/7/2017					1.09				
8/8/2017		0.857	0.143			0.783		0.705	
8/9/2017	0.92						1.05		1.2
8/10/2017				1.58					
10/3/2017	1.04	0.798				0.917			
10/4/2017					1.07		1.16	0.642	
10/5/2017			<0.1	1.37					1.19
10/6/2017									
5/23/2018			0.191		1.05		1.13	0.653	1.29
5/24/2018	1.07								
7/11/2018									
11/30/2018			0.124		0.932		0.984		
12/4/2018	1.07							0.618	1.32
5/23/2019	0.852		0.173		0.816		0.922	0.495	1.09
11/7/2019	1.05		0.13		0.952		0.951	0.601	1.34
5/19/2020	0.955		0.176		1.07		1.09	0.502	1.18
11/12/2020	1.02		<0.15		1.02		1.05	0.59	1.25
5/18/2021			0.197		1.12		1.09		
5/19/2021	0.887							0.546	1.1
7/21/2021					1.04				
11/18/2021	0.966		0.175		0.904		0.997	0.567	1.22
5/9/2022	0.939		0.187		0.949		1.01	0.53	1.17

Prediction Limit

Page 2

Constituent: FLUORIDE (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-701 (bg)	MW-805	MW-703 (bg)	MW-802	MW-704 (bg)	MW-801	MW-708	MW-7
7/15/2022									
11/9/2022	0.878		0.144		0.936		0.932	0.595	1.14
1/12/2023									
2/8/2023									
5/17/2023	0.799		0.191		0.972		1.06	0.631	1.28
7/12/2023									
8/15/2023									
11/17/2023	1.01		0.143 (J)		0.97		1.11	0.654	1.26
4/3/2024	1.01		0.155		0.987		1.08	0.705	1.25
5/15/2024			0.165		0.918				
5/16/2024							1.08	0.686	
5/17/2024	0.992								1.37

Prediction Limit

Page 3

Constituent: FLUORIDE (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
 LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-706	MW-6	MW-804	MW-13 (bg)	MW-14R (bg)	MW-601 (bg)	MW-15	MW-803
6/7/2016									
6/8/2016	1.6	1.22	0.545	0.491					
6/9/2016					0.17	0.265	1.63	0.257	0.636
6/10/2016									
6/23/2016									
8/9/2016	1.44	1.12					1.69	0.22	
8/10/2016			0.495	0.443					
8/11/2016					0.128	0.299			
8/12/2016									0.653
10/11/2016	1.37	1.21		0.448					
10/12/2016								0.232	
10/13/2016			0.497		0.171	0.215	1.68		0.645
12/6/2016		1.25							0.696
12/7/2016				0.441			1.81	0.262	
12/8/2016	1.39								
12/9/2016						0.178			
12/12/2016			0.401						
12/13/2016					0.142				
2/6/2017									
2/7/2017		1.12		0.453				0.258	
2/8/2017	1.46						1.75		0.607
2/9/2017			0.492			0.211			
2/10/2017					0.167				
4/4/2017		1.2		0.429					
4/5/2017	1.5		0.447					0.235	
4/6/2017					0.171		1.59		
4/7/2017						0.201			0.586
6/13/2017		1.09		0.474					0.665
6/14/2017								0.304	
6/15/2017	1.32		1.75		0.137	0.237	1.63		
8/7/2017									
8/8/2017				0.476	0.139				
8/9/2017	1.41	1.14	0.473				1.8		0.693
8/10/2017						0.239		0.28	
10/3/2017	1.53							0.244	
10/4/2017		1.11							0.594
10/5/2017			0.464	0.327	0.138	0.169			
10/6/2017							1.26		
5/23/2018			0.595	0.501				0.283	0.649
5/24/2018		1.2							
7/11/2018				0.449					
11/30/2018				0.378				0.206	0.566
12/4/2018		1.15	0.612						
5/23/2019		0.985	0.467	0.445				0.251	0.551
11/7/2019		1.18	0.615	0.43				0.25	0.563
5/19/2020		1.03	0.541	0.489				0.284	0.647
11/12/2020		1.05	0.561	0.401				0.248	0.568
5/18/2021				0.465				0.285	0.614
5/19/2021		0.946	0.522						
7/21/2021									
11/18/2021		1.05	0.549	0.465				0.22	0.531
5/9/2022		1.01	0.543	0.453				0.267	0.617

Prediction Limit

Constituent: FLUORIDE (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-706	MW-6	MW-804	MW-13 (bg)	MW-14R (bg)	MW-601 (bg)	MW-15	MW-803
7/15/2022									
11/9/2022		0.923	0.525	0.489				0.297	0.641
1/12/2023								0.267	
2/8/2023									
5/17/2023		0.858	0.606	0.457				0.249	0.698
7/12/2023									1.1
8/15/2023									0.599
11/17/2023		1.09	0.508	0.45				0.25	0.562
4/3/2024		1.07	0.637	0.517				0.306	0.702
5/15/2024				0.433					0.722
5/16/2024									
5/17/2024		1.06	0.572					0.296	

Prediction Limit

Constituent: FLUORIDE (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	TW-1	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	0.404		
6/10/2016		1.21	
6/23/2016			0.386
8/9/2016	0.431	1.27	0.347
8/10/2016			
8/11/2016			
8/12/2016			
10/11/2016	0.431		0.382
10/12/2016			
10/13/2016		1.3	
12/6/2016	0.459		0.353
12/7/2016			
12/8/2016			
12/9/2016		1.16	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017	0.399		0.293
2/8/2017		1.24	
2/9/2017			
2/10/2017			
4/4/2017	0.42		0.323
4/5/2017			
4/6/2017			
4/7/2017		1.18	
6/13/2017	0.384		0.613
6/14/2017			
6/15/2017		1.2	
8/7/2017			
8/8/2017	0.461		0.402
8/9/2017			
8/10/2017		1.36	
10/3/2017	0.403		0.391
10/4/2017			
10/5/2017		0.972	
10/6/2017			
5/23/2018			
5/24/2018	0.463		0.392
7/11/2018			
11/30/2018			
12/4/2018	0.39		0.328
5/23/2019	0.365		0.276
11/7/2019	0.411		0.442
5/19/2020	0.405		0.325
11/12/2020	0.384		0.196
5/18/2021			
5/19/2021	0.412		0.281
7/21/2021			
11/18/2021	0.404		0.25
5/9/2022	0.355		<1.5

Prediction Limit

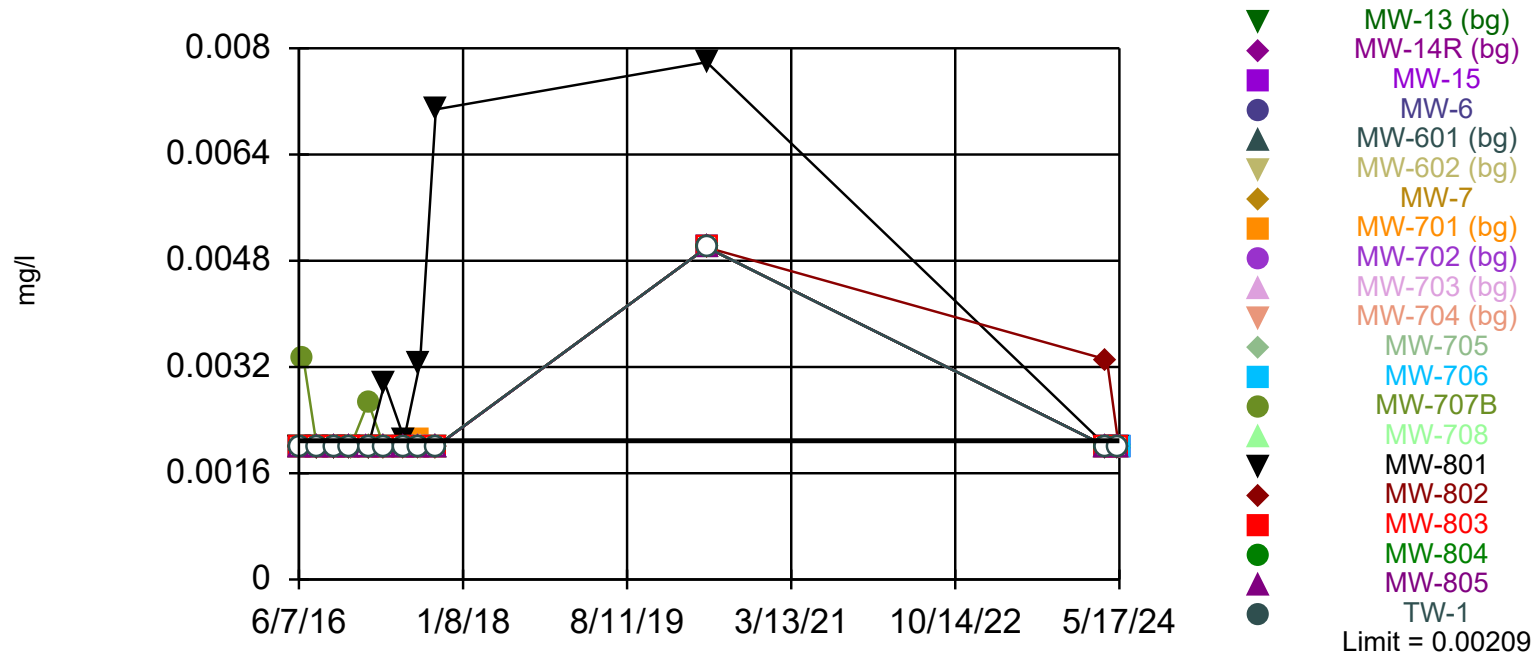
Constituent: FLUORIDE (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	TW-1	MW-602 (bg)	MW-707B
7/15/2022			0.328
11/9/2022	0.377		1.31 (j)
1/12/2023			<0.64
2/8/2023			1
5/17/2023	0.389		0.372
7/12/2023			
8/15/2023			
11/17/2023	0.4		0.388
4/3/2024	0.337		<0.15
5/15/2024			
5/16/2024	0.326		0.368
5/17/2024			

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 98.61% NDs. Annual per-constituent alpha = 0.0003897. Individual comparison alpha = 0.00001499 (1 of 3). Comparing 13 points to limit.

Constituent: LEAD Analysis Run 9/5/2024 8:24 AM View: Interwell IV

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

Prediction Limit

Constituent: LEAD (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
6/8/2016									<0.002
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	<0.002	<0.002		<0.002	<0.002	<0.002			<0.002
8/10/2016			<0.002				<0.002	<0.002	
8/11/2016									
8/12/2016									
10/11/2016	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/12/2016			<0.002						
10/13/2016									
12/6/2016		<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2016	<0.002								
12/8/2016									
12/9/2016			<0.002						
12/12/2016									
12/13/2016									
2/6/2017								<0.002	
2/7/2017		<0.002		<0.002	<0.002	<0.002	<0.002		<0.002
2/8/2017									
2/9/2017	<0.002		<0.002						
2/10/2017									
4/4/2017		<0.002		<0.002		<0.002	<0.002	<0.002	<0.002
4/5/2017									
4/6/2017	<0.002		<0.002		0.00296				
4/7/2017									
6/13/2017	<0.002	<0.002				<0.002	<0.002	<0.002	<0.002
6/14/2017			<0.002	<0.002	0.00212				
6/15/2017									
8/7/2017							<0.002		
8/8/2017		<0.002	<0.002			0.00209		<0.002	
8/9/2017	<0.002				0.00326				<0.002
8/10/2017				<0.002					
10/3/2017	<0.002	<0.002				<0.002			
10/4/2017			<0.002		0.00708		<0.002		<0.002
10/5/2017				<0.002				<0.002	
10/6/2017									
5/19/2020	<0.005		<0.005		0.00779		<0.005	<0.005	<0.005
4/3/2024	<0.002		<0.002		<0.002		0.00331	<0.002	<0.002
5/15/2024							<0.002	<0.002	
5/16/2024			<0.002		<0.002				
5/17/2024	<0.002								<0.002

Prediction Limit

Constituent: LEAD (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
 LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	<0.002	<0.002	<0.002	<0.002					
6/9/2016					<0.002	<0.002	<0.002	<0.002	<0.002
6/10/2016									
6/23/2016									
8/9/2016	<0.002					<0.002	<0.002		<0.002
8/10/2016		<0.002	<0.002	<0.002					
8/11/2016								<0.002	
8/12/2016					<0.002				
10/11/2016	<0.002		<0.002						<0.002
10/12/2016							<0.002		
10/13/2016		<0.002		<0.002	<0.002	<0.002		<0.002	
12/6/2016					<0.002				<0.002
12/7/2016			<0.002			<0.002	<0.002		
12/8/2016	<0.002								
12/9/2016									
12/12/2016		<0.002		<0.002					
12/13/2016								<0.002	
2/6/2017									
2/7/2017			<0.002				<0.002		<0.002
2/8/2017	<0.002	<0.002			<0.002	<0.002			
2/9/2017				<0.002					
2/10/2017								<0.002	
4/4/2017			<0.002						<0.002
4/5/2017	<0.002	<0.002		<0.002			<0.002		
4/6/2017						<0.002		<0.002	
4/7/2017					<0.002				
6/13/2017			<0.002		<0.002				<0.002
6/14/2017							<0.002		
6/15/2017	<0.002	<0.002		<0.002		<0.002		<0.002	
8/7/2017									
8/8/2017			<0.002					<0.002	<0.002
8/9/2017	<0.002	<0.002		<0.002	<0.002	<0.002			
8/10/2017							<0.002		
10/3/2017	<0.002						<0.002		<0.002
10/4/2017					<0.002				
10/5/2017		<0.002	<0.002	<0.002				<0.002	
10/6/2017						<0.002			
5/19/2020		<0.005	<0.005	<0.005	<0.005		<0.005		<0.005
4/3/2024		<0.002	<0.002	<0.002	<0.002		<0.002		<0.002
5/15/2024			<0.002		<0.002				
5/16/2024									<0.002
5/17/2024		<0.002		<0.002			<0.002		

Prediction Limit

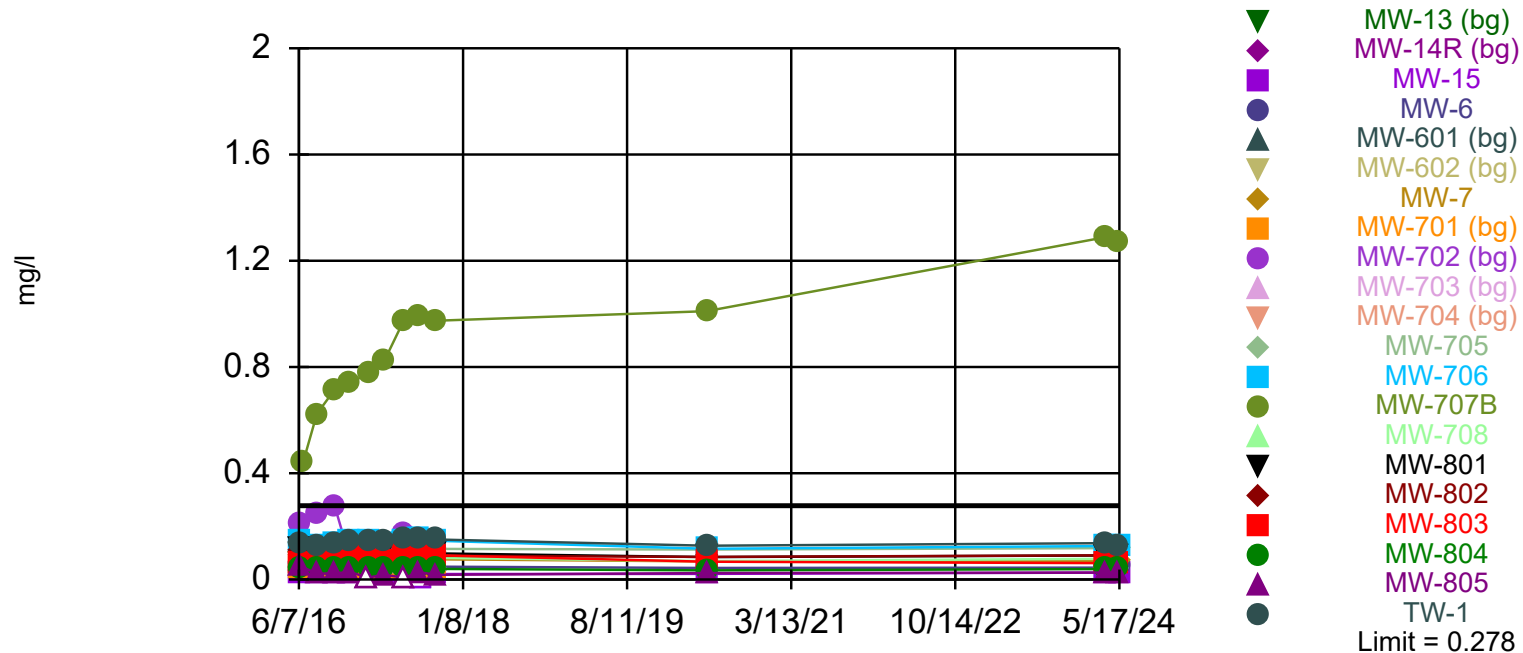
Constituent: LEAD (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	<0.002		
6/10/2016		<0.002	
6/23/2016			0.00333
8/9/2016		<0.002	<0.002
8/10/2016			
8/11/2016	<0.002		
8/12/2016			
10/11/2016			<0.002
10/12/2016			
10/13/2016	<0.002	<0.002	
12/6/2016			<0.002
12/7/2016			
12/8/2016			
12/9/2016	<0.002	<0.002	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			0.00267
2/8/2017		<0.002	
2/9/2017	<0.002		
2/10/2017			
4/4/2017			<0.002
4/5/2017			
4/6/2017			
4/7/2017	<0.002	<0.002	
6/13/2017			<0.002
6/14/2017			
6/15/2017	<0.002	<0.002	
8/7/2017			
8/8/2017			<0.002
8/9/2017			
8/10/2017	<0.002	<0.002	
10/3/2017			<0.002
10/4/2017			
10/5/2017	<0.002	<0.002	
10/6/2017			
5/19/2020			<0.005
4/3/2024			<0.002
5/15/2024			
5/16/2024			<0.002
5/17/2024			

Exceeds Limit: MW-707B

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 72 background values. Annual per-constituent alpha = 0.0003897. Individual comparison alpha = 0.00001499 (1 of 3). Comparing 13 points to limit.

Constituent: LITHIUM Analysis Run 9/5/2024 8:25 AM View: Interwell IV

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

Prediction Limit

Constituent: LITHIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	0.133	0.0938	0.078	0.0718	0.119	0.0375	0.105	0.053	
6/8/2016									0.146
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	0.113	0.0867		0.0623	0.0957	0.0314			0.126
8/10/2016			0.0673				0.087	0.0217	
8/11/2016									
8/12/2016									
10/11/2016	0.119	0.0953		0.0656	0.102	0.0374	0.0908	0.0234	0.136
10/12/2016			0.0731						
10/13/2016									
12/6/2016		0.0974		0.0671	0.0994	0.0409	0.0925	0.0277	0.141
12/7/2016	0.125								
12/8/2016									
12/9/2016			0.0687						
12/12/2016									
12/13/2016									
2/6/2017								<0.015	
2/7/2017		0.101		0.0721	0.104	0.0397	0.0931		0.14
2/8/2017									
2/9/2017	0.13		0.0843						
2/10/2017									
4/4/2017		0.101		0.0626		0.0399	0.0919	0.0178	0.138
4/5/2017									
4/6/2017	0.121		0.0762		0.101				
4/7/2017									
6/13/2017	0.129	0.106				0.0403	0.0971	<0.015	0.146
6/14/2017			0.0792	0.0742	0.114				
6/15/2017									
8/7/2017							0.0999		
8/8/2017		0.109	0.0822			0.0451		0.0272	
8/9/2017	0.134				0.114				0.152
8/10/2017				0.0684					
10/3/2017	0.115	0.107				0.0429			
10/4/2017			0.0816		0.0981		0.089		0.146
10/5/2017				0.0689				0.0173	
10/6/2017									
5/19/2020	0.113		0.0691		0.0842		0.085	0.024	0.116
4/3/2024	0.118		0.0776		0.0902		0.0912	0.026	0.126
5/15/2024							0.0869	0.0253	
5/16/2024			0.0793		0.0912				
5/17/2024	0.117								0.127

Prediction Limit

Page 2

Constituent: LITHIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	0.213	0.0867	0.0453	0.0634					
6/9/2016					0.0649	0.0712	0.0271	0.0608	0.136
6/10/2016									
6/23/2016									
8/9/2016	0.251					0.0727	0.0231		0.127
8/10/2016		0.0736	0.0382	0.0482					
8/11/2016								0.0567	
8/12/2016					0.065				
10/11/2016	0.278		0.0408						0.137
10/12/2016							0.0263		
10/13/2016		0.0759		0.0507	0.0686	0.0725		0.0568	
12/6/2016					0.0915				0.14
12/7/2016			0.0421			0.0747	0.0242		
12/8/2016	0.0671								
12/9/2016									
12/12/2016		0.0713		0.0456					
12/13/2016								0.0507	
2/6/2017									
2/7/2017			0.0421				0.0269		0.145
2/8/2017	0.0655	0.0773			0.0779	0.0782			
2/9/2017				0.0553					
2/10/2017								0.0644	
4/4/2017			0.0414						0.147
4/5/2017	0.0841	0.0755		0.0521			0.0237		
4/6/2017						0.0746		0.0554	
4/7/2017					0.069				
6/13/2017			0.0422		0.0968				0.151
6/14/2017							0.0211		
6/15/2017	0.174	0.0817		0.0538		0.0778		0.0565	
8/7/2017									
8/8/2017			0.0444					0.062	0.155
8/9/2017	0.097	0.0842		0.057	0.0898	0.083			
8/10/2017							<0.015		
10/3/2017	0.0735						0.0209		0.151
10/4/2017					0.0909				
10/5/2017		0.0759	0.0397	0.0483				0.0556	
10/6/2017						0.0737			
5/19/2020		0.0683	0.0342	0.0432	0.0672		0.021		0.127
4/3/2024		0.0708	0.0394	0.0444	0.0618		0.0261		0.137
5/15/2024			0.041		0.0618				
5/16/2024									0.129
5/17/2024		0.0738		0.0469			0.0254		

Prediction Limit

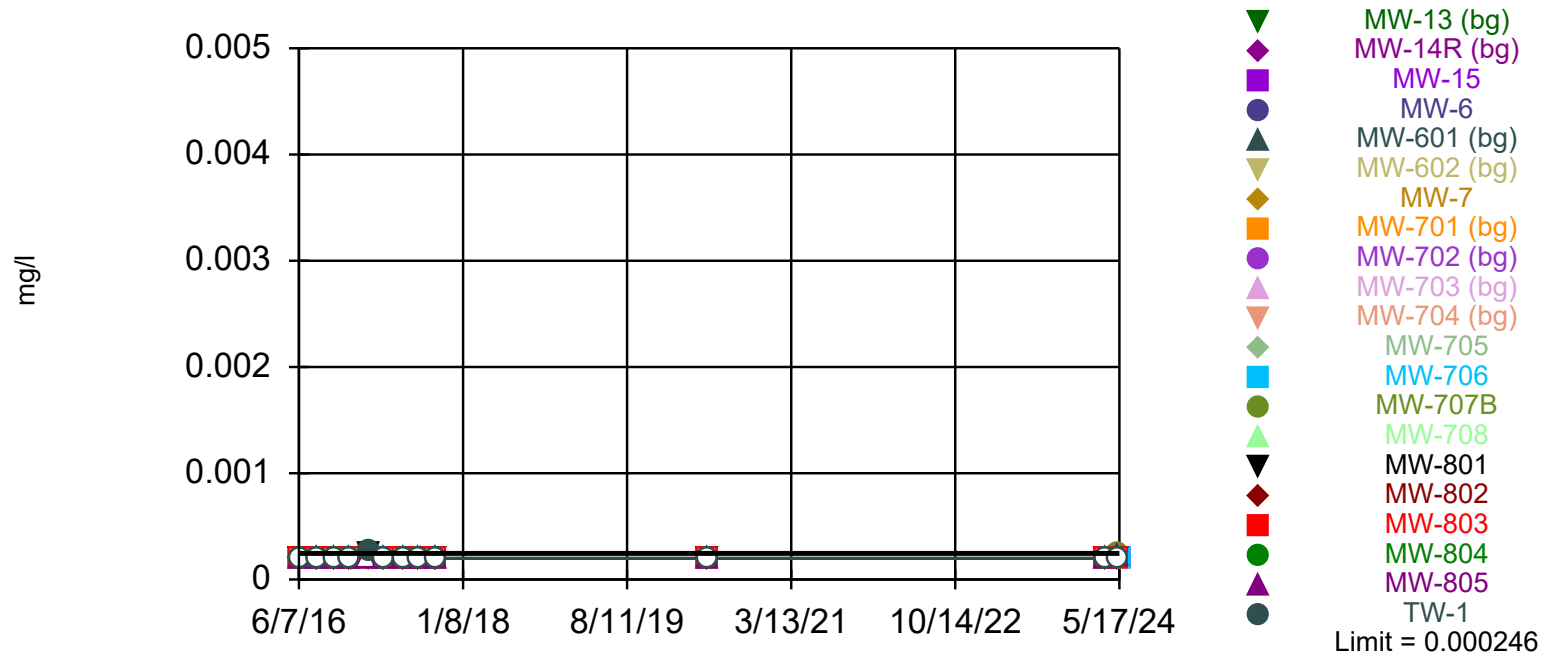
Constituent: LITHIUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	0.0429		
6/10/2016		0.0628	
6/23/2016			0.445
8/9/2016		0.0587	0.623
8/10/2016			
8/11/2016	0.0449		
8/12/2016			
10/11/2016			0.715
10/12/2016			
10/13/2016	0.0347	0.0615	
12/6/2016			0.737
12/7/2016			
12/8/2016			
12/9/2016	0.0326	0.0533	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			0.78
2/8/2017		0.063	
2/9/2017	0.0421		
2/10/2017			
4/4/2017			0.821
4/5/2017			
4/6/2017			
4/7/2017	0.0393	0.0624	
6/13/2017			0.976
6/14/2017			
6/15/2017	0.0401	0.0652	
8/7/2017			
8/8/2017			0.993
8/9/2017			
8/10/2017	0.0372	0.0662	
10/3/2017			0.974
10/4/2017			
10/5/2017	0.0346	0.0612	
10/6/2017			
5/19/2020			1.01
4/3/2024			1.29
5/15/2024			
5/16/2024			1.27
5/17/2024			

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 94.44% NDs. Annual per-constituent alpha = 0.0003897. Individual comparison alpha = 0.00001499 (1 of 3). Comparing 13 points to limit.

Prediction Limit

Constituent: MERCURY (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
6/8/2016									<0.0002
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002			<0.0002
8/10/2016			<0.0002				<0.0002	<0.0002	
8/11/2016									
8/12/2016									
10/11/2016	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 (J6)	<0.0002
10/12/2016			<0.0002						
10/13/2016									
12/6/2016		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002 (J6)	<0.0002
12/7/2016	<0.0002								
12/8/2016									
12/9/2016			<0.0002						
12/12/2016									
12/13/2016									
2/6/2017								<0.0002	
2/7/2017		0.000246		<0.0002	0.000247	<0.0002	0.000213		0.00025
2/8/2017									
2/9/2017	<0.0002		<0.0002						
2/10/2017									
4/4/2017		<0.0002		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
4/5/2017									
4/6/2017	<0.0002		<0.0002		<0.0002				
4/7/2017									
6/13/2017	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
6/14/2017			<0.0002	<0.0002	<0.0002				
6/15/2017									
8/7/2017							<0.0002		
8/8/2017		<0.0002	<0.0002			<0.0002		<0.0002	
8/9/2017	<0.0002				<0.0002				<0.0002
8/10/2017				<0.0002					
10/3/2017	<0.0002	<0.0002				<0.0002			
10/4/2017			<0.0002		<0.0002		<0.0002		<0.0002
10/5/2017				<0.0002				<0.0002	
10/6/2017									
5/19/2020	<0.0002		<0.0002		<0.0002		<0.0002	<0.0002	<0.0002
4/3/2024	<0.0002		<0.0002		<0.0002		<0.0002	<0.0002	<0.0002
5/15/2024							<0.0002	0.000213	
5/16/2024			<0.0002		<0.0002				
5/17/2024	<0.0002								<0.0002

Prediction Limit

Page 2

Constituent: MERCURY (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002					
6/9/2016					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/10/2016									
6/23/2016									
8/9/2016	<0.0002					<0.0002	<0.0002		<0.0002
8/10/2016		<0.0002	<0.0002	<0.0002					
8/11/2016								<0.0002	
8/12/2016					<0.0002				
10/11/2016	<0.0002		<0.0002						<0.0002
10/12/2016							<0.0002		
10/13/2016		<0.0002		<0.0002	<0.0002	<0.0002		<0.0002	
12/6/2016					<0.0002				<0.0002
12/7/2016			<0.0002			<0.0002	<0.0002		
12/8/2016	<0.0002								
12/9/2016									
12/12/2016		<0.0002		<0.0002					
12/13/2016								<0.0002	
2/6/2017									
2/7/2017			<0.0002				<0.0002		0.000258
2/8/2017	0.000209	0.000235			0.000207	0.000236			
2/9/2017				<0.0002					
2/10/2017								<0.0002	
4/4/2017			<0.0002						<0.0002
4/5/2017	<0.0002	<0.0002		<0.0002			<0.0002		
4/6/2017						<0.0002		<0.0002	
4/7/2017					<0.0002				
6/13/2017			<0.0002		<0.0002				<0.0002
6/14/2017							<0.0002		
6/15/2017	<0.0002	<0.0002		<0.0002		<0.0002		<0.0002	
8/7/2017									
8/8/2017			<0.0002					<0.0002	<0.0002
8/9/2017	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002			
8/10/2017							<0.0002		
10/3/2017	<0.0002						<0.0002		<0.0002
10/4/2017					<0.0002				
10/5/2017		<0.0002	<0.0002	<0.0002				<0.0002	
10/6/2017						<0.0002			
5/19/2020		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		<0.0002
4/3/2024		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		<0.0002
5/15/2024			<0.0002		<0.0002				
5/16/2024									<0.0002
5/17/2024		<0.0002		<0.0002			<0.0002		

Prediction Limit

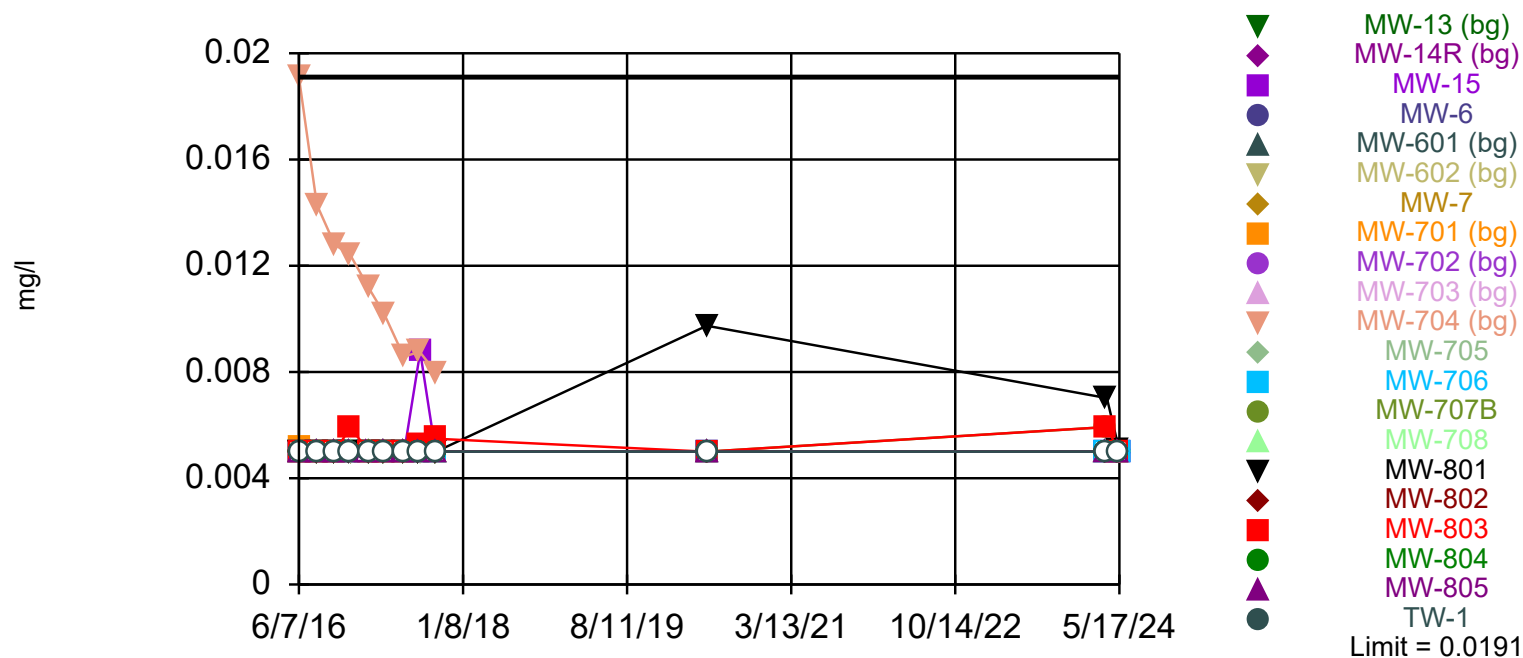
Constituent: MERCURY (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	<0.0002		
6/10/2016		<0.0002	
6/23/2016			<0.0002
8/9/2016		<0.0002	<0.0002
8/10/2016			
8/11/2016	<0.0002		
8/12/2016			
10/11/2016			<0.0002
10/12/2016			
10/13/2016	<0.0002	<0.0002	
12/6/2016			<0.0002
12/7/2016			
12/8/2016			
12/9/2016	<0.0002	<0.0002	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			0.000244
2/8/2017		0.000205	
2/9/2017	<0.0002		
2/10/2017			
4/4/2017			<0.0002
4/5/2017			
4/6/2017			
4/7/2017	<0.0002	<0.0002	
6/13/2017			<0.0002
6/14/2017			
6/15/2017	<0.0002	<0.0002	
8/7/2017			
8/8/2017			<0.0002
8/9/2017			
8/10/2017	<0.0002	<0.0002	
10/3/2017			<0.0002
10/4/2017			
10/5/2017	<0.0002	<0.0002	
10/6/2017			
5/19/2020			<0.0002
4/3/2024			<0.0002
5/15/2024			
5/16/2024			0.000238
5/17/2024			

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 86.11% NDs. Annual per-constituent alpha = 0.0003897. Individual comparison alpha = 0.00001499 (1 of 3). Comparing 13 points to limit.

Constituent: MOLYBDENUM Analysis Run 9/5/2024 8:25 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

Prediction Limit

Constituent: MOLYBDENUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	<0.005	0.0191	<0.005	<0.005	<0.005	0.00519	<0.005	<0.005	
6/8/2016									<0.005
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	<0.005	0.0143		<0.005	<0.005	<0.005			<0.005
8/10/2016			<0.005				<0.005	<0.005	
8/11/2016									
8/12/2016									
10/11/2016	<0.005	0.0128		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/12/2016			<0.005						
10/13/2016									
12/6/2016		0.0124		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
12/7/2016	<0.005								
12/8/2016									
12/9/2016			<0.005						
12/12/2016									
12/13/2016									
2/6/2017								<0.005	
2/7/2017		0.0112		<0.005	<0.005	<0.005	<0.005		<0.005
2/8/2017									
2/9/2017	<0.005		<0.005						
2/10/2017									
4/4/2017		0.0102		<0.005		<0.005	<0.005	<0.005	<0.005
4/5/2017									
4/6/2017	<0.005		<0.005		<0.005				
4/7/2017									
6/13/2017	<0.005	0.00858				<0.005	<0.005	<0.005	<0.005
6/14/2017			<0.005	<0.005	<0.005				
6/15/2017									
8/7/2017							<0.005		
8/8/2017		0.00876	<0.005			<0.005		<0.005	
8/9/2017	<0.005				<0.005				<0.005
8/10/2017				<0.005					
10/3/2017	<0.005	0.008				<0.005			
10/4/2017			<0.005		<0.005		<0.005		<0.005
10/5/2017				<0.005				<0.005	
10/6/2017									
5/19/2020	<0.005		<0.005		0.00974		<0.005	<0.005	<0.005
4/3/2024	<0.005		<0.005		0.00702		<0.005	<0.005	<0.005
5/15/2024							<0.005	<0.005	
5/16/2024			<0.005		0.00508				
5/17/2024	<0.005								<0.005

Prediction Limit

Page 2

Constituent: MOLYBDENUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	<0.005	<0.005	<0.005	<0.005					
6/9/2016					<0.005	<0.005	<0.005	<0.005	<0.005
6/10/2016									
6/23/2016									
8/9/2016	<0.005					<0.005	<0.005		<0.005
8/10/2016		<0.005	<0.005	<0.005					
8/11/2016								<0.005	
8/12/2016					<0.005				
10/11/2016	<0.005		<0.005						<0.005
10/12/2016							<0.005		
10/13/2016		<0.005		<0.005	<0.005	<0.005		<0.005	
12/6/2016					0.00593				<0.005
12/7/2016			<0.005			<0.005	<0.005		
12/8/2016	<0.005								
12/9/2016									
12/12/2016		<0.005		<0.005					
12/13/2016								<0.005	
2/6/2017									
2/7/2017			<0.005				<0.005		<0.005
2/8/2017	<0.005	<0.005			<0.005	<0.005			
2/9/2017				<0.005					
2/10/2017								<0.005	
4/4/2017			<0.005						<0.005
4/5/2017	<0.005	<0.005		<0.005			<0.005		
4/6/2017						<0.005		<0.005	
4/7/2017					<0.005				
6/13/2017			<0.005		<0.005				<0.005
6/14/2017							<0.005		
6/15/2017	<0.005	<0.005		<0.005		<0.005		<0.005	
8/7/2017									
8/8/2017			<0.005					<0.005	<0.005
8/9/2017	<0.005	<0.005		<0.005	0.00521	<0.005			
8/10/2017							0.00876		
10/3/2017	<0.005						<0.005		<0.005
10/4/2017					0.00549				
10/5/2017		<0.005	<0.005	<0.005				<0.005	
10/6/2017						<0.005			
5/19/2020		<0.005	<0.005	<0.005	0.005		<0.005		<0.005
4/3/2024		<0.005	<0.005	<0.005	0.00593		<0.005		<0.005
5/15/2024			<0.005		<0.005				
5/16/2024									<0.005
5/17/2024		<0.005		<0.005			<0.005		

Prediction Limit

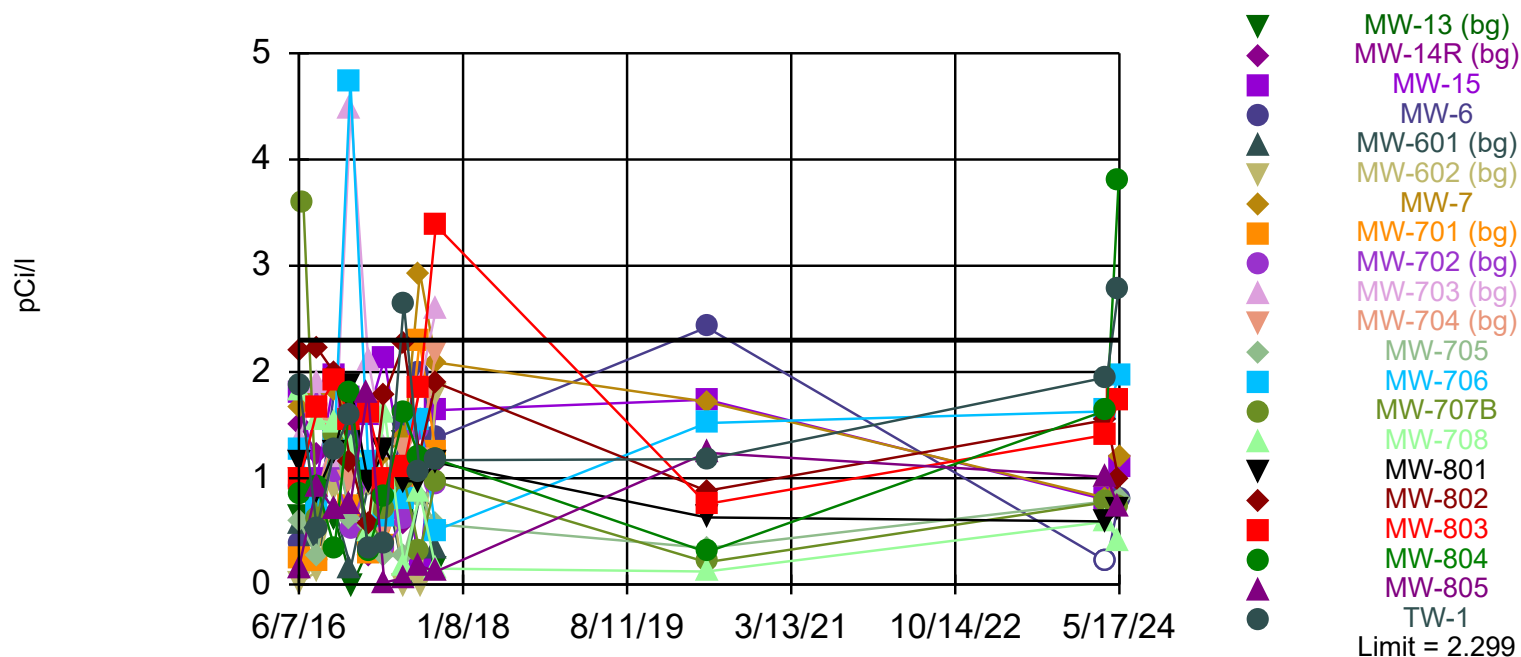
Constituent: MOLYBDENUM (mg/l) Analysis Run 9/5/2024 8:31 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	<0.005		
6/10/2016		<0.005	
6/23/2016			<0.005
8/9/2016		<0.005	<0.005
8/10/2016			
8/11/2016	<0.005		
8/12/2016			
10/11/2016			<0.005
10/12/2016			
10/13/2016	<0.005	<0.005	
12/6/2016			<0.005
12/7/2016			
12/8/2016			
12/9/2016	<0.005	<0.005	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			<0.005
2/8/2017		<0.005	
2/9/2017	<0.005		
2/10/2017			
4/4/2017			<0.005
4/5/2017			
4/6/2017			
4/7/2017	<0.005	<0.005	
6/13/2017			<0.005
6/14/2017			
6/15/2017	<0.005	<0.005	
8/7/2017			
8/8/2017			<0.005
8/9/2017			
8/10/2017	<0.005	<0.005	
10/3/2017			<0.005
10/4/2017			
10/5/2017	<0.005	<0.005	
10/6/2017			
5/19/2020			<0.005
4/3/2024			0.00593
5/15/2024			
5/16/2024			<0.005
5/17/2024			

Exceeds Limit: MW-804, TW-1

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=0.8931, Std. Dev.=0.3915, n=72.
Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9711, critical = 0.954. Kappa = 1.592 (c=15, w=13, 1 of 3, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0002701. Comparing 13 points to limit.

Constituent: Radium Combined Analysis Run 9/5/2024 8:25 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

Prediction Limit

Constituent: Radium Combined (pCi/l) Analysis Run 9/5/2024 8:32 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	0.601	0.986	1.83	1.36	1.15	0.245	2.19	0.158	
6/8/2016									1.26
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	0.258	0.824		1.903	0.87	0.215			0.704
8/10/2016			1.544				2.228	0.928	
8/11/2016									
8/12/2016									
10/11/2016	1.39	1.45		1.19	1.25	1.39	1.99	0.698	1.38
10/12/2016			1.52						
10/13/2016									
12/6/2016		0.957			1.88	0.734	1.16	0.764	4.74
12/7/2016	0.608			4.48					
12/8/2016									
12/9/2016			1.29						
12/12/2016									
12/13/2016									
2/6/2017								1.81	
2/7/2017		0.994		2.11	0.955	0.284	0.559		1.16
2/8/2017									
2/9/2017	0.555		0.502						
2/10/2017									
4/4/2017		0.505		1.3		0.371			0.628
4/5/2017							1.78	0.018	
4/6/2017	0.264		1.62		1.27				
4/7/2017									
6/13/2017	0.278	1.27				0.956	2.26	0.06	0.812
6/14/2017			0.176	1.05	0.973				
6/15/2017									
8/7/2017							1.22		
8/8/2017		1.17	0.866			2.29		0.175	
8/9/2017	0.831				0.972				1.54
8/10/2017				1.88					
10/3/2017	0.568	2.18				1.25			
10/4/2017			0.149		1.15		1.9		0.51
10/5/2017				2.59				0.123	
10/6/2017									
5/19/2020	0.343		0.123		0.632		0.881	1.24	1.52
4/3/2024	0.784		0.592		0.594		1.55	1.01	1.63
5/15/2024							0.978	0.721	
5/16/2024			0.408		0.698				
5/17/2024	0.796								1.97

Prediction Limit

Page 2

Constituent: Radium Combined (pCi/l) Analysis Run 9/5/2024 8:32 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	0.924	1.66	0.853	0.385					
6/9/2016					0.992	0.567	1.8	0.636	1.88
6/10/2016									
6/23/2016									
8/9/2016	1.692					0.46	0.991		0.526
8/10/2016		1.795	0.93	0.521					
8/11/2016								0.668	
8/12/2016					1.656				
10/11/2016	1.06		0.344						1.27
10/12/2016							1.97		
10/13/2016		1.82		1.89	1.93	0.698		0.613	
12/6/2016					1.55				1.6
12/7/2016			1.81			0.16	1.76		
12/8/2016	0.522								
12/9/2016									
12/12/2016		1.55		1.37					
12/13/2016								0	
2/6/2017									
2/7/2017			0.317				1.6		0.328
2/8/2017	1.02	0.366			1.62	0.944			
2/9/2017				0.431					
2/10/2017								0.354	
4/4/2017									0.375
4/5/2017	0.331	1.23	0.825	0.674			2.12		
4/6/2017						0.967		0.34	
4/7/2017					0.988				
6/13/2017			1.61		1.1				2.64
6/14/2017							1		
6/15/2017	0.605	1.38		1.53		0.088		1.33	
8/7/2017									
8/8/2017			1.19		1.84			0.075	1.05
8/9/2017	1.46	2.93		1.98		0.847			
8/10/2017							0.184		
10/3/2017	0.939						1.64		1.17
10/4/2017					3.38				
10/5/2017		2.09	1.18	1.38				0.141	
10/6/2017						0.343			
5/19/2020		1.72	0.304	2.42	0.758		1.74		1.18
4/3/2024		0.813	1.64	<0.434	1.41		0.795		1.95
5/15/2024			3.81		1.74				2.79
5/16/2024									
5/17/2024		1.2		0.812			1.1		

Prediction Limit

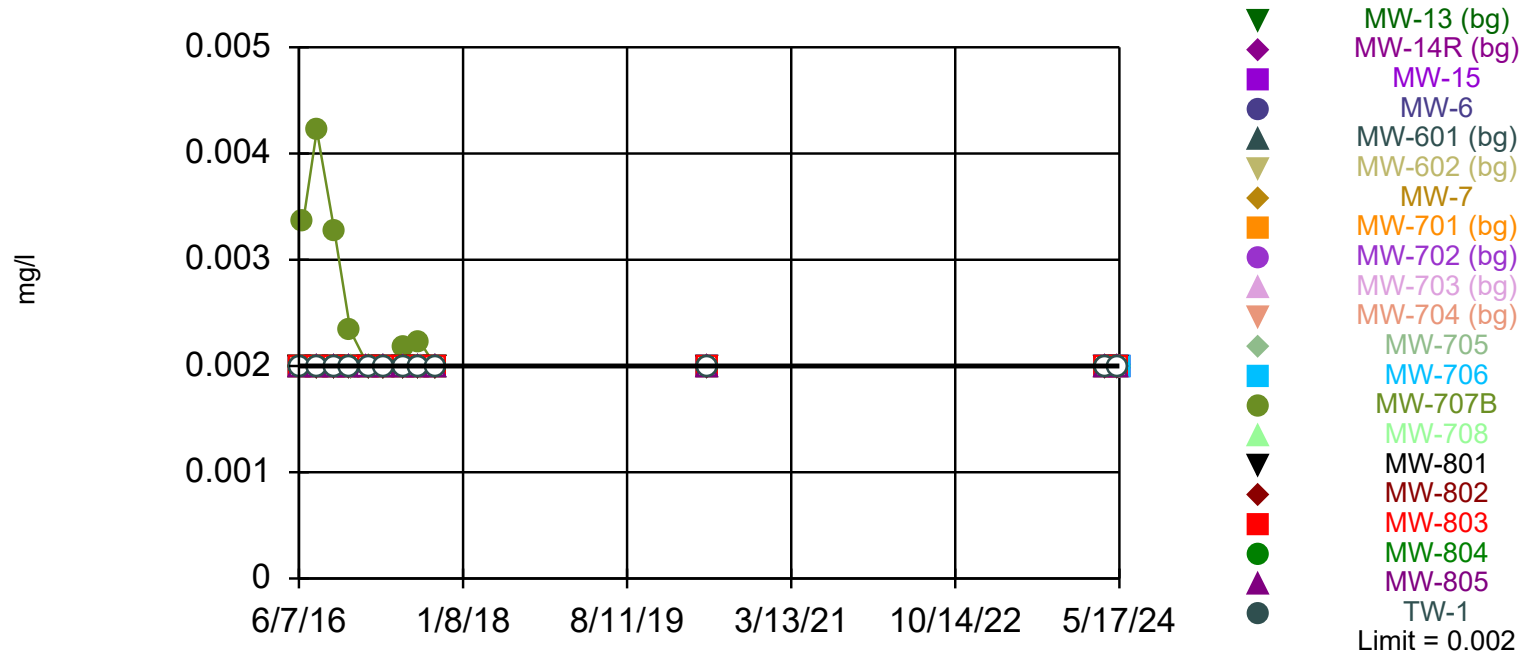
Constituent: Radium Combined (pCi/l) Analysis Run 9/5/2024 8:32 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	1.51		
6/10/2016		0.014	
6/23/2016			3.59
8/9/2016		0.123	0.613
8/10/2016			
8/11/2016	1.224		
8/12/2016			
10/11/2016			1.41
10/12/2016			
10/13/2016	1.3	0.896	
12/6/2016			1.25
12/7/2016			
12/8/2016			
12/9/2016	0.634	0.65	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			0.44
2/8/2017		0.936	
2/9/2017	0.279		
2/10/2017			
4/4/2017			0.701
4/5/2017			
4/6/2017			
4/7/2017	0.762	1.26	
6/13/2017			1
6/14/2017			
6/15/2017	0.573	0	
8/7/2017			
8/8/2017			0.31
8/9/2017			
8/10/2017	1.54	0	
10/3/2017			0.97
10/4/2017			
10/5/2017	1.12	1.77	
10/6/2017			
5/19/2020			0.21
4/3/2024			0.776
5/15/2024			
5/16/2024			0.73
5/17/2024			

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 72$) were censored; limit is most recent reporting limit. Annual per-constituent $\alpha = 0.0003897$. Individual comparison $\alpha = 0.00001499$ (1 of 3). Comparing 13 points to limit.

Constituent: SELENIUM Analysis Run 9/5/2024 8:25 AM View: Interwell IV

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

Prediction Limit

Constituent: SELENIUM (mg/l) Analysis Run 9/5/2024 8:32 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-705	MW-704 (bg)	MW-708	MW-703 (bg)	MW-801	MW-701 (bg)	MW-802	MW-805	MW-706
6/7/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
6/8/2016									<0.002
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	<0.002	<0.002		<0.002	<0.002	<0.002			<0.002
8/10/2016			<0.002				<0.002	<0.002	
8/11/2016									
8/12/2016									
10/11/2016	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/12/2016			<0.002						
10/13/2016									
12/6/2016		<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2016	<0.002								
12/8/2016									
12/9/2016			<0.002						
12/12/2016									
12/13/2016									
2/6/2017								<0.002	
2/7/2017		<0.002		<0.002	<0.002	<0.002	<0.002		<0.002
2/8/2017									
2/9/2017	<0.002		<0.002						
2/10/2017									
4/4/2017		<0.002		<0.002		<0.002	<0.002	<0.002	<0.002
4/5/2017									
4/6/2017	<0.002		<0.002		<0.002				
4/7/2017									
6/13/2017	<0.002	<0.002				<0.002	<0.002	<0.002	<0.002
6/14/2017			<0.002	<0.002	<0.002				
6/15/2017									
8/7/2017							<0.002		
8/8/2017		<0.002	<0.002			<0.002		<0.002	
8/9/2017	<0.002				<0.002				<0.002
8/10/2017				<0.002					
10/3/2017	<0.002	<0.002				<0.002			
10/4/2017			<0.002		<0.002		<0.002		<0.002
10/5/2017				<0.002				<0.002	
10/6/2017									
5/19/2020	<0.002		<0.002		<0.002		<0.002	<0.002	<0.002
4/3/2024	<0.002		<0.002		<0.002		<0.002	<0.002	<0.002
5/15/2024							<0.002	<0.002	
5/16/2024			<0.002		<0.002				
5/17/2024	<0.002								<0.002

Prediction Limit

Page 2

Constituent: SELENIUM (mg/l) Analysis Run 9/5/2024 8:32 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-7	MW-804	MW-6	MW-803	MW-601 (bg)	MW-15	MW-13 (bg)	TW-1
6/7/2016									
6/8/2016	<0.002	<0.002	<0.002	<0.002					
6/9/2016					<0.002	<0.002	<0.002	<0.002	<0.002
6/10/2016									
6/23/2016									
8/9/2016	<0.002					<0.002	<0.002		<0.002
8/10/2016		<0.002	<0.002	<0.002					
8/11/2016								<0.002	
8/12/2016					<0.002				
10/11/2016	<0.002		<0.002						<0.002
10/12/2016							<0.002		
10/13/2016		<0.002		<0.002	<0.002	<0.002		<0.002	
12/6/2016					<0.002				<0.002
12/7/2016			<0.002			<0.002	<0.002		
12/8/2016	<0.002								
12/9/2016									
12/12/2016		<0.002		<0.002					
12/13/2016								<0.002	
2/6/2017									
2/7/2017			<0.002				<0.002		<0.002
2/8/2017	<0.002	<0.002			<0.002	<0.002			
2/9/2017				<0.002					
2/10/2017								<0.002	
4/4/2017			<0.002						<0.002
4/5/2017	<0.002	<0.002		<0.002			<0.002		
4/6/2017						<0.002		<0.002	
4/7/2017					<0.002				
6/13/2017			<0.002		<0.002				<0.002
6/14/2017							<0.002		
6/15/2017	<0.002	<0.002		<0.002		<0.002		<0.002	
8/7/2017									
8/8/2017			<0.002					<0.002	<0.002
8/9/2017	<0.002	<0.002		<0.002	<0.002	<0.002			
8/10/2017							<0.002		
10/3/2017	<0.002						<0.002		<0.002
10/4/2017					<0.002				
10/5/2017		<0.002	<0.002	<0.002				<0.002	
10/6/2017						<0.002			
5/19/2020		<0.002	<0.002	<0.002	<0.002		<0.002		<0.002
4/3/2024		<0.002	<0.002	<0.002	<0.002		<0.002		<0.002
5/15/2024			<0.002		<0.002				
5/16/2024									<0.002
5/17/2024		<0.002		<0.002			<0.002		

Prediction Limit

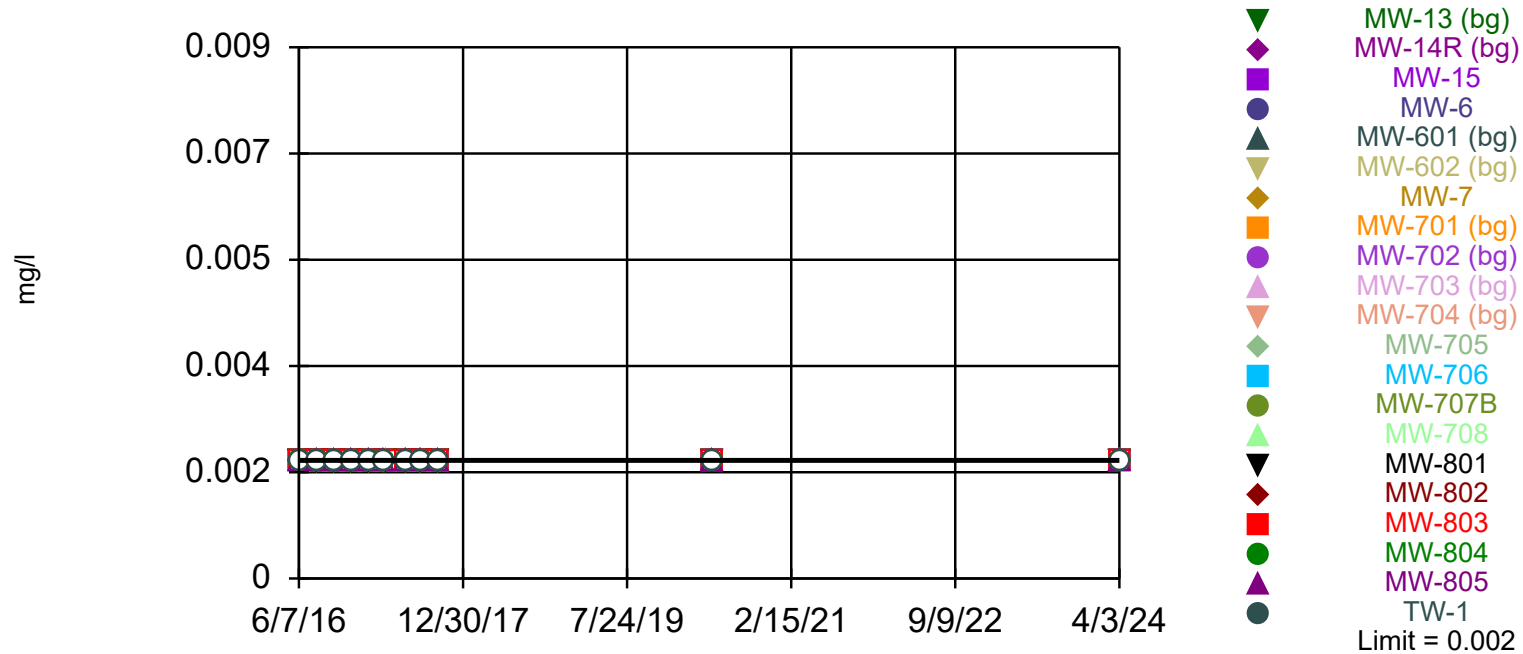
Constituent: SELENIUM (mg/l) Analysis Run 9/5/2024 8:32 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-14R (bg)	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	<0.002		
6/10/2016		<0.002	
6/23/2016			0.00337
8/9/2016		<0.002	0.00422
8/10/2016			
8/11/2016	<0.002		
8/12/2016			
10/11/2016			0.00326
10/12/2016			
10/13/2016	<0.002	<0.002	
12/6/2016			0.00233
12/7/2016			
12/8/2016			
12/9/2016	<0.002	<0.002	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017			<0.002
2/8/2017		<0.002	
2/9/2017	<0.002		
2/10/2017			
4/4/2017			<0.002
4/5/2017			
4/6/2017			
4/7/2017	<0.002	<0.002	
6/13/2017			0.00218
6/14/2017			
6/15/2017	<0.002	<0.002	
8/7/2017			
8/8/2017			0.00223
8/9/2017			
8/10/2017	<0.002	<0.002	
10/3/2017			<0.002
10/4/2017			
10/5/2017	<0.002	<0.002	
10/6/2017			
5/19/2020			<0.002
4/3/2024			<0.002
5/15/2024			
5/16/2024			<0.002
5/17/2024			

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 72$) were censored; limit is most recent reporting limit. Annual per-constituent $\alpha = 0.0003897$. Individual comparison $\alpha = 0.00001499$ (1 of 3). Comparing 13 points to limit.

Prediction Limit

Constituent: THALLIUM (mg/l) Analysis Run 9/5/2024 8:32 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-701 (bg)	MW-703 (bg)	MW-704 (bg)	MW-705	MW-805	MW-708	MW-801	MW-802	MW-7
6/7/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
6/8/2016									<0.002
6/9/2016									
6/10/2016									
6/23/2016									
8/9/2016	<0.002	<0.002	<0.002	<0.002			<0.002		
8/10/2016					<0.002	<0.002		<0.002	<0.002
8/11/2016									
8/12/2016									
10/11/2016	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	
10/12/2016						<0.002			
10/13/2016									<0.002
12/6/2016	<0.002	<0.002	<0.002		<0.002		<0.002	<0.002	
12/7/2016				<0.002					
12/8/2016									
12/9/2016						<0.002			
12/12/2016									<0.002
12/13/2016									
2/6/2017					<0.002				
2/7/2017	<0.002	<0.002	<0.002				<0.002	<0.002	
2/8/2017									<0.002
2/9/2017				<0.002		<0.002			
2/10/2017									
4/4/2017	<0.002	<0.002	<0.002		<0.002			<0.002	
4/5/2017									<0.002
4/6/2017				<0.002		<0.002	<0.002		
4/7/2017									
6/13/2017	<0.002		<0.002	<0.002	<0.002			<0.002	
6/14/2017		<0.002				<0.002	<0.002		
6/15/2017									<0.002
8/7/2017								<0.002	
8/8/2017	<0.002		<0.002		<0.002	<0.002			
8/9/2017				<0.002			<0.002		<0.002
8/10/2017		<0.002							
10/3/2017	<0.002		<0.002	<0.002					
10/4/2017						<0.002	<0.002	<0.002	
10/5/2017		<0.002			<0.002				<0.002
10/6/2017									
5/19/2020				<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/3/2024				<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Prediction Limit

Page 2

Constituent: THALLIUM (mg/l) Analysis Run 9/5/2024 8:32 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	MW-702 (bg)	MW-706	MW-6	MW-804	MW-601 (bg)	MW-15	MW-13 (bg)	MW-803	MW-14R (bg)
6/7/2016									
6/8/2016	<0.002	<0.002	<0.002	<0.002					
6/9/2016					<0.002	<0.002	<0.002	<0.002	<0.002
6/10/2016									
6/23/2016									
8/9/2016	<0.002	<0.002			<0.002	<0.002			
8/10/2016			<0.002	<0.002					
8/11/2016							<0.002		<0.002
8/12/2016								<0.002	
10/11/2016	<0.002	<0.002		<0.002					
10/12/2016						<0.002			
10/13/2016			<0.002		<0.002		<0.002	<0.002	<0.002
12/6/2016		<0.002						<0.002	
12/7/2016				<0.002	<0.002	<0.002			
12/8/2016	<0.002								
12/9/2016									<0.002
12/12/2016			<0.002						
12/13/2016							<0.002		
2/6/2017									
2/7/2017		<0.002		<0.002		<0.002			
2/8/2017	<0.002				<0.002			<0.002	
2/9/2017			<0.002						<0.002
2/10/2017							<0.002		
4/4/2017		<0.002		<0.002					
4/5/2017	<0.002		<0.002			<0.002			
4/6/2017					<0.002		<0.002		
4/7/2017								<0.002	<0.002
6/13/2017		<0.002		<0.002				<0.002	
6/14/2017						<0.002			
6/15/2017	<0.002		<0.002		<0.002		<0.002		<0.002
8/7/2017									
8/8/2017				<0.002			<0.002		
8/9/2017	<0.002	<0.002	<0.002		<0.002			<0.002	
8/10/2017						<0.002			<0.002
10/3/2017	<0.002					<0.002			
10/4/2017		<0.002						<0.002	
10/5/2017			<0.002	<0.002			<0.002		<0.002
10/6/2017					<0.002				
5/19/2020		<0.002	<0.002	<0.002		<0.002		<0.002	
4/3/2024		<0.002	<0.002	<0.002		<0.002		<0.002	

Prediction Limit

Constituent: THALLIUM (mg/l) Analysis Run 9/5/2024 8:32 AM View: Interwell IV
LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD]

	TW-1	MW-602 (bg)	MW-707B
6/7/2016			
6/8/2016			
6/9/2016	<0.002		
6/10/2016		<0.002	
6/23/2016			<0.002
8/9/2016	<0.002	<0.002	<0.002
8/10/2016			
8/11/2016			
8/12/2016			
10/11/2016	<0.002		<0.002
10/12/2016			
10/13/2016		<0.002	
12/6/2016	<0.002		<0.002
12/7/2016			
12/8/2016			
12/9/2016		<0.002	
12/12/2016			
12/13/2016			
2/6/2017			
2/7/2017	<0.002		<0.002
2/8/2017		<0.002	
2/9/2017			
2/10/2017			
4/4/2017	<0.002		<0.002
4/5/2017			
4/6/2017			
4/7/2017		<0.002	
6/13/2017	<0.002		<0.002
6/14/2017			
6/15/2017		<0.002	
8/7/2017			
8/8/2017	<0.002		<0.002
8/9/2017			
8/10/2017		<0.002	
10/3/2017	<0.002		<0.002
10/4/2017			
10/5/2017		<0.002	
10/6/2017			
5/19/2020	<0.002		<0.002
4/3/2024	<0.002		<0.002

Prediction Limit

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD] Printed 9/5/2024, 8:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
ANTIMONY (mg/l)	MW-15	0.012	n/a	5/17/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	MW-6	0.012	n/a	5/17/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	MW-7	0.012	n/a	5/17/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	MW-705	0.012	n/a	5/17/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	MW-706	0.012	n/a	5/17/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	MW-707B	0.012	n/a	5/16/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	MW-708	0.012	n/a	5/16/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	MW-801	0.012	n/a	5/16/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	MW-802	0.012	n/a	5/15/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	MW-803	0.012	n/a	5/15/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	MW-804	0.012	n/a	5/15/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	MW-805	0.012	n/a	5/15/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ANTIMONY (mg/l)	TW-1	0.012	n/a	5/16/2024	0.004ND	No	72	87.5	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-15	0.00301	n/a	5/17/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-6	0.00301	n/a	5/17/2024	0.00277	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-7	0.00301	n/a	5/17/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-705	0.00301	n/a	5/17/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-706	0.00301	n/a	5/17/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-707B	0.00301	n/a	5/16/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-708	0.00301	n/a	5/16/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-801	0.00301	n/a	5/16/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-802	0.00301	n/a	5/15/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-803	0.00301	n/a	5/15/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-804	0.00301	n/a	5/15/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	MW-805	0.00301	n/a	5/15/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
ARSENIC (mg/l)	TW-1	0.00301	n/a	5/16/2024	0.002ND	No	72	97.22	n/a	0.00001499	NP Inter (NDs) 1 of 3
BARIUM (mg/l)	MW-15	0.3312	n/a	5/17/2024	0.0449	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	MW-6	0.3312	n/a	5/17/2024	0.145	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	MW-7	0.3312	n/a	5/17/2024	0.478	Yes	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	MW-705	0.3312	n/a	5/17/2024	0.0887	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	MW-706	0.3312	n/a	5/17/2024	0.193	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	MW-707B	0.3312	n/a	5/16/2024	0.017	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	MW-708	0.3312	n/a	5/16/2024	0.234	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	MW-801	0.3312	n/a	5/16/2024	0.495	Yes	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	MW-802	0.3312	n/a	5/15/2024	0.916	Yes	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	MW-803	0.3312	n/a	5/15/2024	0.189	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	MW-804	0.3312	n/a	5/15/2024	0.149	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	MW-805	0.3312	n/a	5/15/2024	0.0302	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BARIUM (mg/l)	TW-1	0.3312	n/a	5/16/2024	0.0586	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
BERYLLIUM (mg/l)	MW-15	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
BERYLLIUM (mg/l)	MW-6	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
BERYLLIUM (mg/l)	MW-7	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
BERYLLIUM (mg/l)	MW-705	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
BERYLLIUM (mg/l)	MW-706	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
BERYLLIUM (mg/l)	MW-707B	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
BERYLLIUM (mg/l)	MW-708	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
BERYLLIUM (mg/l)	MW-801	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
BERYLLIUM (mg/l)	MW-802	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
BERYLLIUM (mg/l)	MW-803	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
BERYLLIUM (mg/l)	MW-804	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3

Prediction Limit

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD] Printed 9/5/2024, 8:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
BERYLLIUM (mg/l)	MW-805	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
BERYLLIUM (mg/l)	TW-1	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-15	0.001	n/a	5/17/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-6	0.001	n/a	5/17/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-7	0.001	n/a	5/17/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-705	0.001	n/a	5/17/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-706	0.001	n/a	5/17/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-707B	0.001	n/a	5/16/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-708	0.001	n/a	5/16/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-801	0.001	n/a	5/16/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-802	0.001	n/a	5/15/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-803	0.001	n/a	5/15/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-804	0.001	n/a	5/15/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	MW-805	0.001	n/a	5/15/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CADMIUM (mg/l)	TW-1	0.001	n/a	5/16/2024	0.001ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-15	0.00327	n/a	5/17/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-6	0.00327	n/a	5/17/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-7	0.00327	n/a	5/17/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-705	0.00327	n/a	5/17/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-706	0.00327	n/a	5/17/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-707B	0.00327	n/a	5/16/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-708	0.00327	n/a	5/16/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-801	0.00327	n/a	5/16/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-802	0.00327	n/a	5/15/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-803	0.00327	n/a	5/15/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-804	0.00327	n/a	5/15/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	MW-805	0.00327	n/a	5/15/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
CHROMIUM (mg/l)	TW-1	0.00327	n/a	5/16/2024	0.01ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-15	0.002	n/a	5/17/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-6	0.002	n/a	5/17/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-7	0.002	n/a	5/17/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-705	0.002	n/a	5/17/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-706	0.002	n/a	5/17/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-707B	0.002	n/a	5/16/2024	0.00849	Yes	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-708	0.002	n/a	5/16/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-801	0.002	n/a	5/16/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-802	0.002	n/a	5/15/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-803	0.002	n/a	5/15/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-804	0.002	n/a	5/15/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	MW-805	0.002	n/a	5/15/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
COBALT (mg/l)	TW-1	0.002	n/a	5/16/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
FLUORIDE (mg/l)	MW-15	1.81	n/a	5/17/2024	0.296	No	72	0	n/a	0.00001499	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-6	1.81	n/a	5/17/2024	0.572	No	72	0	n/a	0.00001499	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-7	1.81	n/a	5/17/2024	1.37	No	72	0	n/a	0.00001499	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-705	1.81	n/a	5/17/2024	0.992	No	72	0	n/a	0.00001499	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-706	1.81	n/a	5/17/2024	1.06	No	72	0	n/a	0.00001499	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-707B	1.81	n/a	5/16/2024	0.368	No	72	0	n/a	0.00001499	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-708	1.81	n/a	5/16/2024	0.686	No	72	0	n/a	0.00001499	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-801	1.81	n/a	5/16/2024	1.08	No	72	0	n/a	0.00001499	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-802	1.81	n/a	5/15/2024	0.918	No	72	0	n/a	0.00001499	NP Inter (normality) ...

Prediction Limit

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD] Printed 9/5/2024, 8:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
FLUORIDE (mg/l)	MW-803	1.81	n/a	5/15/2024	0.722	No	72	0	n/a	0.00001499	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-804	1.81	n/a	5/15/2024	0.433	No	72	0	n/a	0.00001499	NP Inter (normality) ...
FLUORIDE (mg/l)	MW-805	1.81	n/a	5/15/2024	0.165	No	72	0	n/a	0.00001499	NP Inter (normality) ...
FLUORIDE (mg/l)	TW-1	1.81	n/a	5/16/2024	0.326	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LEAD (mg/l)	MW-15	0.00209	n/a	5/17/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	MW-6	0.00209	n/a	5/17/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	MW-7	0.00209	n/a	5/17/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	MW-705	0.00209	n/a	5/17/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	MW-706	0.00209	n/a	5/17/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	MW-707B	0.00209	n/a	5/16/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	MW-708	0.00209	n/a	5/16/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	MW-801	0.00209	n/a	5/16/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	MW-802	0.00209	n/a	5/15/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	MW-803	0.00209	n/a	5/15/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	MW-804	0.00209	n/a	5/15/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	MW-805	0.00209	n/a	5/15/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LEAD (mg/l)	TW-1	0.00209	n/a	5/16/2024	0.002ND	No	72	98.61	n/a	0.00001499	NP Inter (NDs) 1 of 3
LITHIUM (mg/l)	MW-15	0.278	n/a	5/17/2024	0.0254	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	MW-6	0.278	n/a	5/17/2024	0.0469	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	MW-7	0.278	n/a	5/17/2024	0.0738	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	MW-705	0.278	n/a	5/17/2024	0.117	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	MW-706	0.278	n/a	5/17/2024	0.127	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	MW-707B	0.278	n/a	5/16/2024	1.27	Yes	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	MW-708	0.278	n/a	5/16/2024	0.0793	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	MW-801	0.278	n/a	5/16/2024	0.0912	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	MW-802	0.278	n/a	5/15/2024	0.0869	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	MW-803	0.278	n/a	5/15/2024	0.0618	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	MW-804	0.278	n/a	5/15/2024	0.041	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	MW-805	0.278	n/a	5/15/2024	0.0253	No	72	0	n/a	0.00001499	NP Inter (normality) ...
LITHIUM (mg/l)	TW-1	0.278	n/a	5/16/2024	0.129	No	72	0	n/a	0.00001499	NP Inter (normality) ...
MERCURY (mg/l)	MW-15	0.000246	n/a	5/17/2024	0.0002ND	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	MW-6	0.000246	n/a	5/17/2024	0.0002ND	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	MW-7	0.000246	n/a	5/17/2024	0.0002ND	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	MW-705	0.000246	n/a	5/17/2024	0.0002ND	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	MW-706	0.000246	n/a	5/17/2024	0.0002ND	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	MW-707B	0.000246	n/a	5/16/2024	0.000238	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	MW-708	0.000246	n/a	5/16/2024	0.0002ND	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	MW-801	0.000246	n/a	5/16/2024	0.0002ND	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	MW-802	0.000246	n/a	5/15/2024	0.0002ND	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	MW-803	0.000246	n/a	5/15/2024	0.0002ND	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	MW-804	0.000246	n/a	5/15/2024	0.0002ND	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	MW-805	0.000246	n/a	5/15/2024	0.000213	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MERCURY (mg/l)	TW-1	0.000246	n/a	5/16/2024	0.0002ND	No	72	94.44	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	MW-15	0.0191	n/a	5/17/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	MW-6	0.0191	n/a	5/17/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	MW-7	0.0191	n/a	5/17/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	MW-705	0.0191	n/a	5/17/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	MW-706	0.0191	n/a	5/17/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	MW-707B	0.0191	n/a	5/16/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	MW-708	0.0191	n/a	5/16/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3

Prediction Limit

LaCygne Client: SCS Engineers Data: LaC GW Data[IN USE BY 27KAN-JROCKHOLD] Printed 9/5/2024, 8:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
MOLYBDENUM (mg/l)	MW-801	0.0191	n/a	5/16/2024	0.00508	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	MW-802	0.0191	n/a	5/15/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	MW-803	0.0191	n/a	5/15/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	MW-804	0.0191	n/a	5/15/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	MW-805	0.0191	n/a	5/15/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
MOLYBDENUM (mg/l)	TW-1	0.0191	n/a	5/16/2024	0.005ND	No	72	86.11	n/a	0.00001499	NP Inter (NDs) 1 of 3
Radium Combined (pCi/l)	MW-15	2.299	n/a	5/17/2024	1.1	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	MW-6	2.299	n/a	5/17/2024	0.812	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	MW-7	2.299	n/a	5/17/2024	1.2	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	MW-705	2.299	n/a	5/17/2024	0.796	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	MW-706	2.299	n/a	5/17/2024	1.97	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	MW-707B	2.299	n/a	5/16/2024	0.73	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	MW-708	2.299	n/a	5/16/2024	0.408	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	MW-801	2.299	n/a	5/16/2024	0.698	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	MW-802	2.299	n/a	5/15/2024	0.978	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	MW-803	2.299	n/a	5/15/2024	1.74	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	MW-804	2.299	n/a	5/15/2024	3.81	Yes	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	MW-805	2.299	n/a	5/15/2024	0.721	No	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
Radium Combined (pCi/l)	TW-1	2.299	n/a	5/15/2024	2.79	Yes	72	0	sqrt(x)	0.0002701	Param Inter 1 of 3
SELENIUM (mg/l)	MW-15	0.002	n/a	5/17/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	MW-6	0.002	n/a	5/17/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	MW-7	0.002	n/a	5/17/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	MW-705	0.002	n/a	5/17/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	MW-706	0.002	n/a	5/17/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	MW-707B	0.002	n/a	5/16/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	MW-708	0.002	n/a	5/16/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	MW-801	0.002	n/a	5/16/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	MW-802	0.002	n/a	5/15/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	MW-803	0.002	n/a	5/15/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	MW-804	0.002	n/a	5/15/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	MW-805	0.002	n/a	5/15/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
SELENIUM (mg/l)	TW-1	0.002	n/a	5/16/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-15	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-6	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-7	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-705	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-706	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-707B	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-708	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-801	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-802	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-803	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-804	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	MW-805	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3
THALLIUM (mg/l)	TW-1	0.002	n/a	4/3/2024	0.002ND	No	72	100	n/a	0.00001499	NP Inter (NDs) 1 of 3

La Cygne Generating Station
Determination of SSI/SSL
CCR Landfill, Lower AQC Impoundment, and Upper AQC Impoundment
Multi-Unit Groundwater Monitoring System
October 3, 2024

ATTACHMENT 2

Sanitas™ Configuration Settings

Options

Data Output Trend Test Control Cht Prediction Lim Tolerance Lim Conf/Tol Int ANOVA Welchs Other Tests

Exclude data flags:

Data Reading Options

☒ Individual Observations

☐ Mean of Each: ☐ Month

☐ Median of Each: ☐ Season

Non-Detect / Trace Handling...

Setup Seasons...

☐ Automatically Process Resamples...

Save Settings As... Load Saved Settings... Defaults... Edit INI File  OK Cancel

Non-Detect / Trace Handling

Non-Detects (<MDL or <PQL)

Replace Reporting Limit with:

☒ No Replacement ☐ Median RL ☐ Highest RL ☐ Most Recent RL

☐ Use Alternate RL when found in Database

Substitution Method:

☒ RL, except RL/2 when NDs < 15% ☐ RL ☐ RL/2

Trace Values

Trace Flag (for trace values of the form 'observation(flag)' or '<PQL(flag)')

☒ J ☐ TR... ☐ J or TR...

Replace PQL with:

☒ No Replacement ☐ Median PQL ☐ Highest PQL ☐ Most Recent PQL

☒ Use Alternate PQL (or 'RL2') when found in Database

Substitution Method for values of the form <MDL+PQL

☒ (MDL+PQL)/2 ☐ PQL ☐ PQL/2

☐ Use Observed Value when available (as in "<MDL+PQL+Observed")

Substitution Method for values of the form <PQL(trace flag)

☐ PQL/2 ☒ PQL

OK Cancel

Options

Data Output Trend Test Control Cht Prediction Lim Tolerance Lim Conf/Tol Int ANOVA Welchs Other Tests

☐ Black and White Output
☐ Four Plots Per Page
☒ Always Combine Data Pages...
☒ Include Tick Marks on Data Page
☐ Page Break Between Constituents
☐ Use Constituent Name for Graph Title
☐ Draw Border Around Text Reports and Data Pages
☒ Enlarge/Reduce Fonts (Graphs): 100%
☒ Enlarge/Reduce Fonts (Data/Text Reports): 100%
☒ Wide Margins (on reports without explicit setting)
☐ Use CAS# (Not Const. Name)
☐ Truncate File Names to 20 Characters
☒ Include Limit Lines when found in Database...
☒ Show Deselected Data on Time Series Lighter
☐ Show Deselected Data on all Data Pages Lighter

☐ Black Legend Text (vs. line colors)
☒ Prompt to Overwrite/Append Summary Tables
☐ Round Limits to 2 Sig. Digits (when not set in data file)
☐ User-Set Scale
☒ Indicate Background Data
☐ Show Exact Dates
☐ Thick Plot Lines
 Zoom Factor: 200%

Output Decimal Precision
☐ Less Precision
☒ Normal Precision
☐ More Precision

☒ Store Print Jobs in Multiple Constituent Mode

Printer: Adobe PDF

Options

Data Output Trend Test Control Cht Prediction Lim Tolerance Lim Conf/Tol Int ANOVA Welchs Other Tests

☐ Use Modified Alpha...
☒ Test Residuals For Normality (Parametric test only) using Shapiro-Wilk/Francia at Alpha = 0.01
☐ Continue Parametric if Unable to Normalize

Transformation (Parametric test only)
☒ Use Ladder of Powers
☐ Natural Log or No Transformation
☐ Never Transform
☐ Use Specific Transformation:
☐ Use Best W Statistic
☐ Plot Transformed Values

Use Non-Parametric Test (Sen's Slope/Mann-Kendall) when Non-Detects Percent > 75

☐ Include 95% Confidence Interval around Trend Line
☒ Only when Trend is Significant
☒ Include Details of Interaction with Limit Lines (if applicable, in Multiple Constituent mode)
☐ Automatically Remove Outliers (Parametric test only)
☐ Limit data to most recent values (dropping any earlier observations)

Note: there is no "Always Use Non-Parametric" checkbox on this tab because, for consistency with prior versions, Sen's Slope / Mann-Kendall (the non-parametric alternative) is available as a report in its own right, under Analysis->Intrawell->Trend.

Options

Data Output Trend Test Control Cht Prediction Lim Tolerance Lim Conf/Tol Int ANOVA Welchs Other Tests

☒ Test for Normality using Shapiro-Wilk/Francia at Alpha = 0.01
☒ Use Non-Parametric Test when Non-Detects Percent > 50
 Use Aitchison's Adjustment when Non-Detects Percent > 15
☐ Optional Further Refinement: Use when NDs % > 50
☐ Use Poisson Prediction Limit when Non-Detects Percent > 0

Transformation
☒ Use Ladder of Powers
☐ Natural Log or No Transformation
☐ Never Transform
☐ Use Specific Transformation: Natural Log
☐ Use Best W Statistic
☐ Plot Transformed Values

Deseasonalize (Intra- and InterWell)
☐ If Seasonality Is Detected
☐ If Seasonality Is Detected Or Insufficient to Test
☐ Always (When Sufficient Data) ☒ Never
☐ Always Use Non-Parametric

Facility α
 Statistical Evaluations per Year: 2
 Constituents Analyzed: 15
 Downgradient (Compliance) Wells: 13

Sampling Plan
 Comparing Individual Observations
☐ 1 of 1 ☐ 1 of 2 ☒ 1 of 3 ☐ 1 of 4
☐ 2 of 4 ("Modified California")

IntraWell Other
☐ Stop if Background Trend Detected at Alpha = 0.05
☒ Plot Background Data
 Override Standard Deviation:
 Override DF:
 Override Kappa:
☐ Automatically Remove Background Outliers
☐ 2-Tailed Test Mode...
☐ Show Deselected Data Lighter
 Non-Parametric Limit = Highest Background Value
 Non-Parametric Limit when 100% Non-Detects:
☐ Highest/Second Highest Background Value
☒ Most Recent PQL if available, or MDL
☐ Most Recent Background Value (subst. method)

Save Settings As... Load Saved Settings... Defaults... Edit INI File OK Cancel

Options

Data Output Trend Test Control Cht Prediction Lim Tolerance Lim Conf/Tol Int ANOVA Welchs Other Tests

Rank Von Neumann, Wilcoxon Rank Sum / Mann-Whitney
☐ Use Modified Alpha... ☐ 2-Tailed Test Mode... ☐ Combine Background Wells on Mann-Whitney...

Outlier Tests
☐ EPA 1989 Outlier Screening (fixed alpha of 0.05)
☒ Dixon's at $\alpha = 0.05$ or if $n > 22$ Rosner's at $\alpha = 0.01$ ☒ Use EPA Screening to establish Suspected Outliers
☐ Tukey's Outlier Screening, with IQR Multiplier = 3.0 ☐ Use Ladder of Powers to achieve Best W Stat
☒ Test For Normality using Shapiro-Wilk/Francia at Alpha = 0.1
☒ Stop if Non-Normal
☐ Continue with Parametric Test if Non-Normal
☐ Tukey's if Non-Normal, with IQR Multiplier = 3.0 ☒ Use Ladder of Powers to achieve Best W Stat
☒ No Outlier If Less Than 3.0 Times Median
☐ Apply Rules found in Ohio Guidance Document 0715
☐ Combine Background Wells on the Outlier Report...

Piper, Stiff Diagram
☐ Combine Wells ☒ Label Constituents
☐ Combine Dates ☒ Label Axes
☒ Use Default Constituent Names ☒ Note Cation-Anion Balance (Piper only)
☐ Use Constituent Definition File Edit

Save Settings As... Load Saved Settings... Defaults... Edit INI File OK Cancel