2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

CCR LANDFILL MONTROSE GENERATING STATION CLINTON, MISSOURI

Presented To: Evergy Metro, Inc.

SCS ENGINEERS

27213168.21 | January 2022, Revised December 20, 2022

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

CERTIFICATIONS

I, John R. Rockhold, being a qualified groundwater scientist and Registered Geologist in the State of Missouri, do hereby certify that the 2021 Annual Groundwater Monitoring and Corrective Action Report for the CCR Landfill at the Montrose Generating Station was prepared by me or under my direct supervision and fulfills the requirements of 40 CFR 257.90(e).

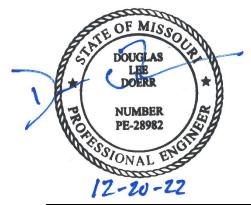


John R. Rockhold, R.G.

SCS Engineers

I, Douglas L. Doerr, being a qualified licensed Professional Engineer in the State of Missouri, do hereby certify that the 2021 Annual Groundwater Monitoring and Corrective Action Report for the CCR Landfill at the Montrose Generating Station was prepared by me or under my direct supervision and fulfills the requirements of 40 CFR 257.90(e).

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Douglas L. Doerr, P.E.

SCS Engineers

Revision Number	Revision Date	Revision Section	Summary of Revisions			
0	January 2022	NA	Original Report.			
1	December 20, 2022	Addendum 1	dded Addendum 1			

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1 INTRODUCTION

This 2021 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. 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 2021 Annual Groundwater Monitoring and Corrective Action Report for the CCR Landfill at the Montrose 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, 2021), the CCR Landfill was operating under a detection monitoring program in compliance with § 257.94.

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, 2021), the CCR Landfill was operating under a detection monitoring program in compliance with § 257.94.

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 2020	MW-605	Chloride	Successful

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

Not applicable because an assessment monitoring program was not initiated.

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;

Not applicable because there was no assessment monitoring conducted.

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

Not applicable because there was no assessment of corrective measures initiated for the CCR Unit.

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

Not applicable because there was no assessment of corrective measures initiated for the CCR Unit.

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

Not applicable because there was no assessment of corrective measures initiated for the CCR Unit.

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 are 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 are not required.

2 § 257.90(E) ANNUAL REPORT REQUIREMENTS

Annual groundwater monitoring and corrective action report. 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 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 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 and all background (or upgradient) and downgradient monitoring wells with identification numbers for the CCR Landfill groundwater monitoring program 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 CCR Landfill in 2021.

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;

Only detection monitoring was required to be conducted during the reporting period (2021). Samples collected in 2021 were collected and analyzed for Appendix III detection monitoring constituents. Results of the sampling events are provided in **Appendix B**, **Table 1** (Appendix III Detection Monitoring Results), and **Table 2** (Detection Monitoring Field Measurements). These tables include the Fall 2020 semiannual detection monitoring event verification sample data collected and analyzed in 2021; the Spring 2021 semiannual detection 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 2020. Only detection monitoring was conducted in 2021.

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. In addition, the information, if applicable, is provided.

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 detection monitoring.

Summary of Key Actions Completed.

- a. completion of the Fall 2020 verification sampling and analyses per the certified statistical method,
- b. completion of the statistical evaluation of the Fall 2020 semiannual detection monitoring sampling and analysis event per the certified statistical method,
- c. completion of the 2020 Annual Groundwater Monitoring and Corrective Action Report,
- d. completion of a successful alternative source demonstration for the Fall 2020 semiannual detection monitoring sampling and analysis event,
- e. completion of the Spring 2021 semiannual detection monitoring sampling and analysis event with subsequent verification sampling per the certified statistical method,
- f. completion of the statistical evaluation of the Spring 2021 semiannual detection monitoring sampling and analysis event per the certified statistical method, and
- g. initiation of the Fall 2021 semiannual detection monitoring sampling and analysis event.

Description of Any Problems Encountered.

No noteworthy problems were encountered.

Discussion of Actions to Resolve the Problems.

Not applicable because no noteworthy problems were encountered.

Projection of Key Activities for the Upcoming Year (2022).

Completion of verification sampling and data analysis, and the statistical evaluation of Fall 2021 detection monitoring sampling and analysis event, and, if required, alternative source demonstration(s). Semiannual Spring and Fall 2022 groundwater sampling and analysis. Completion of the statistical evaluation of the Spring 2022 detection monitoring sampling and analysis event, and, if required, alternative source demonstration(s).

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 $\S 257.90(e)$.

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

Demonstration that a source other than the CCR unit caused the statistically significant increase (SSI) over background levels for a constituent or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. In addition, certification of the demonstration is to be included in the annual report.

The following demonstration reports are included as Appendix C:

C.1 CCR Landfill Groundwater Monitoring Alternative Source Demonstration Report November 2020 Groundwater Monitoring Event, CCR Landfill, Montrose Generating Station (May 2021).

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 concentrations of Appendix III and detected Appendix IV constituents from the assessment monitoring, the established background concentrations, and the established groundwater protection standards.

Not applicable because there was no assessment monitoring conducted.

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. 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 there was no assessment monitoring conducted.

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 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 there was no assessment monitoring conducted.

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 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 Montrose Generating Station at the time of fieldwork. This report includes a review 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 limitation 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 Montrose Generating Station CCR Landfill. No warranties, express or implied, are intended or made.

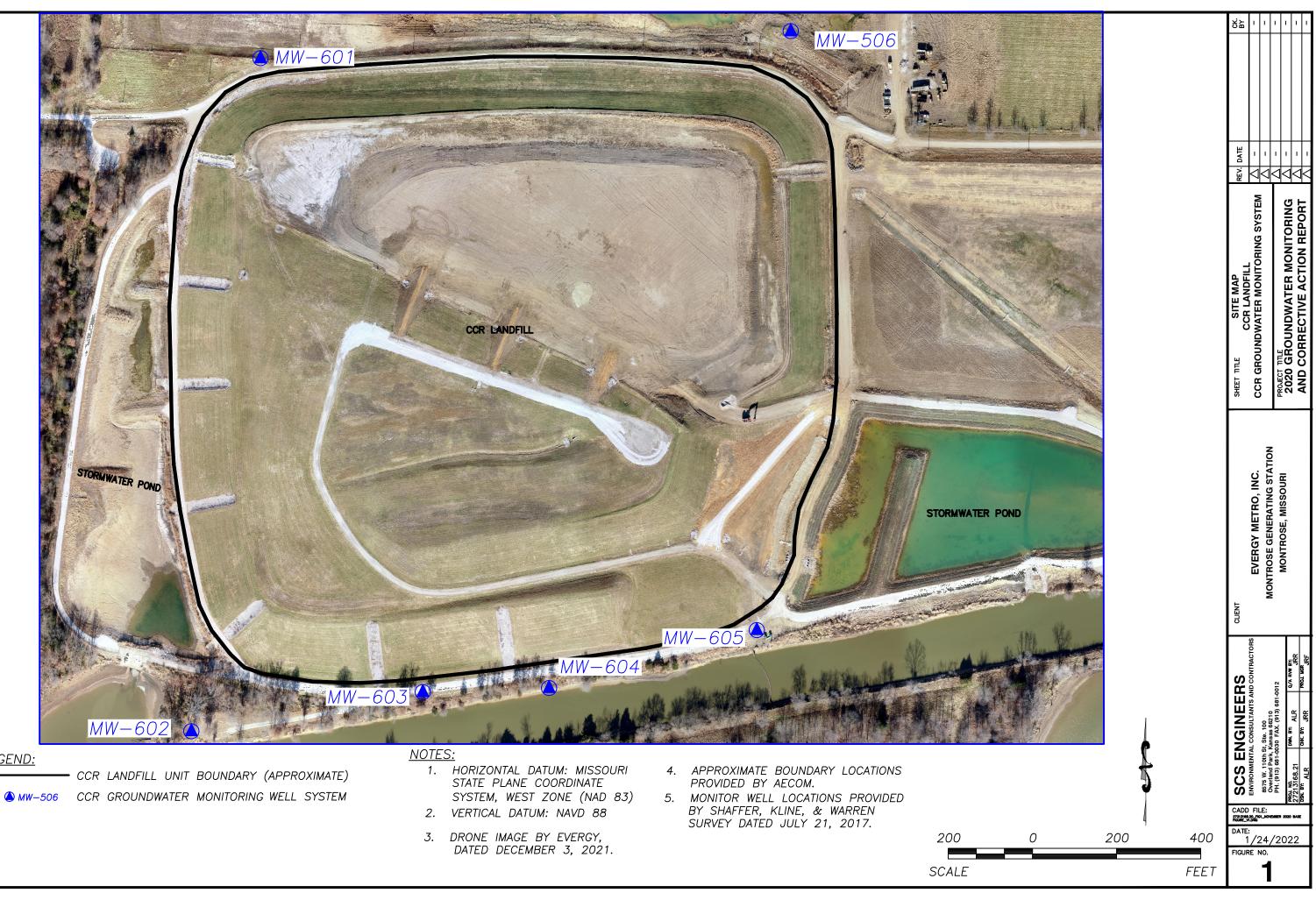
APPENDIX A

FIGURES

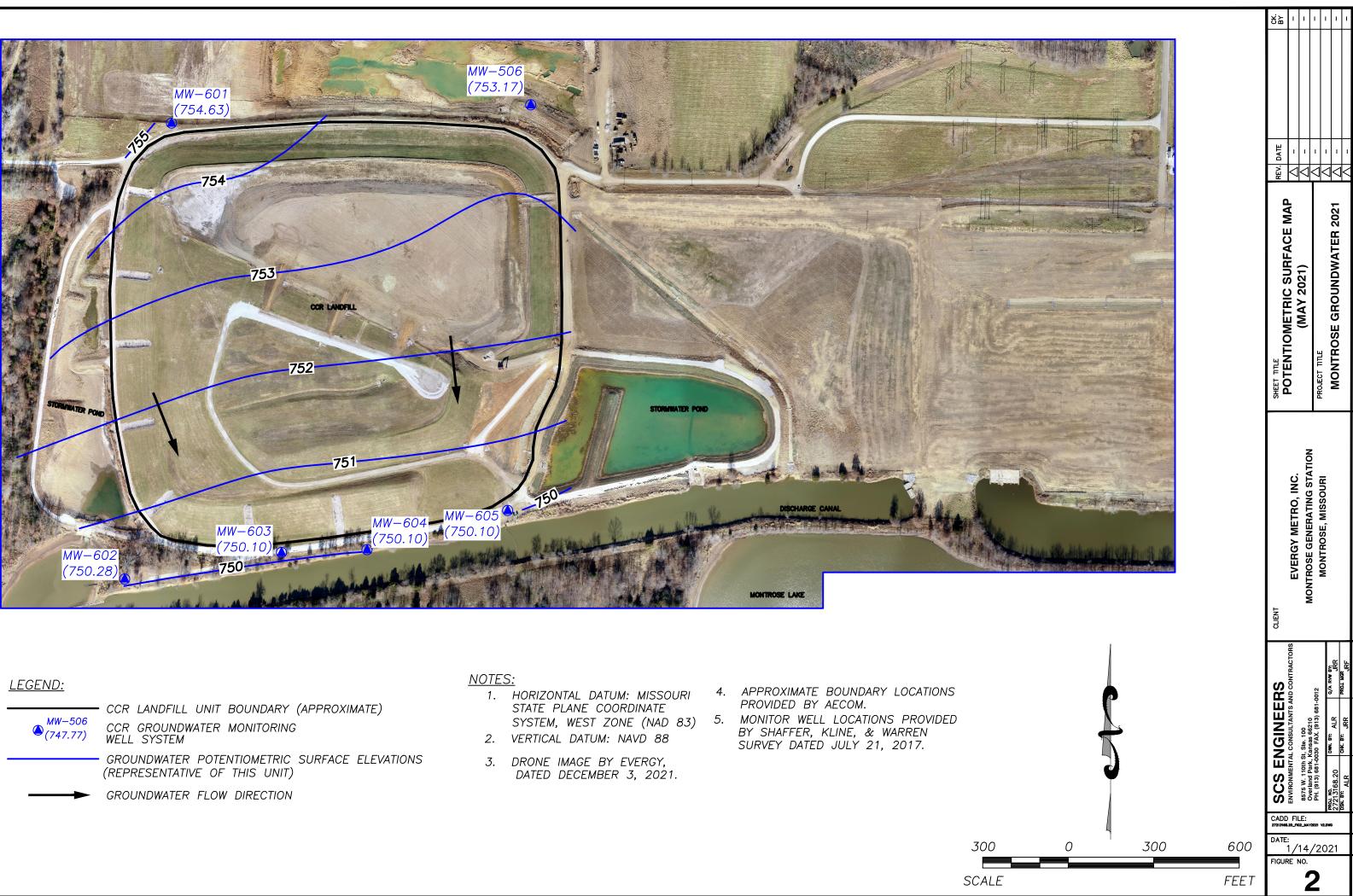
Figure 1: Site Map

Figure 2: Potentiometric Surface Map (May 2021)

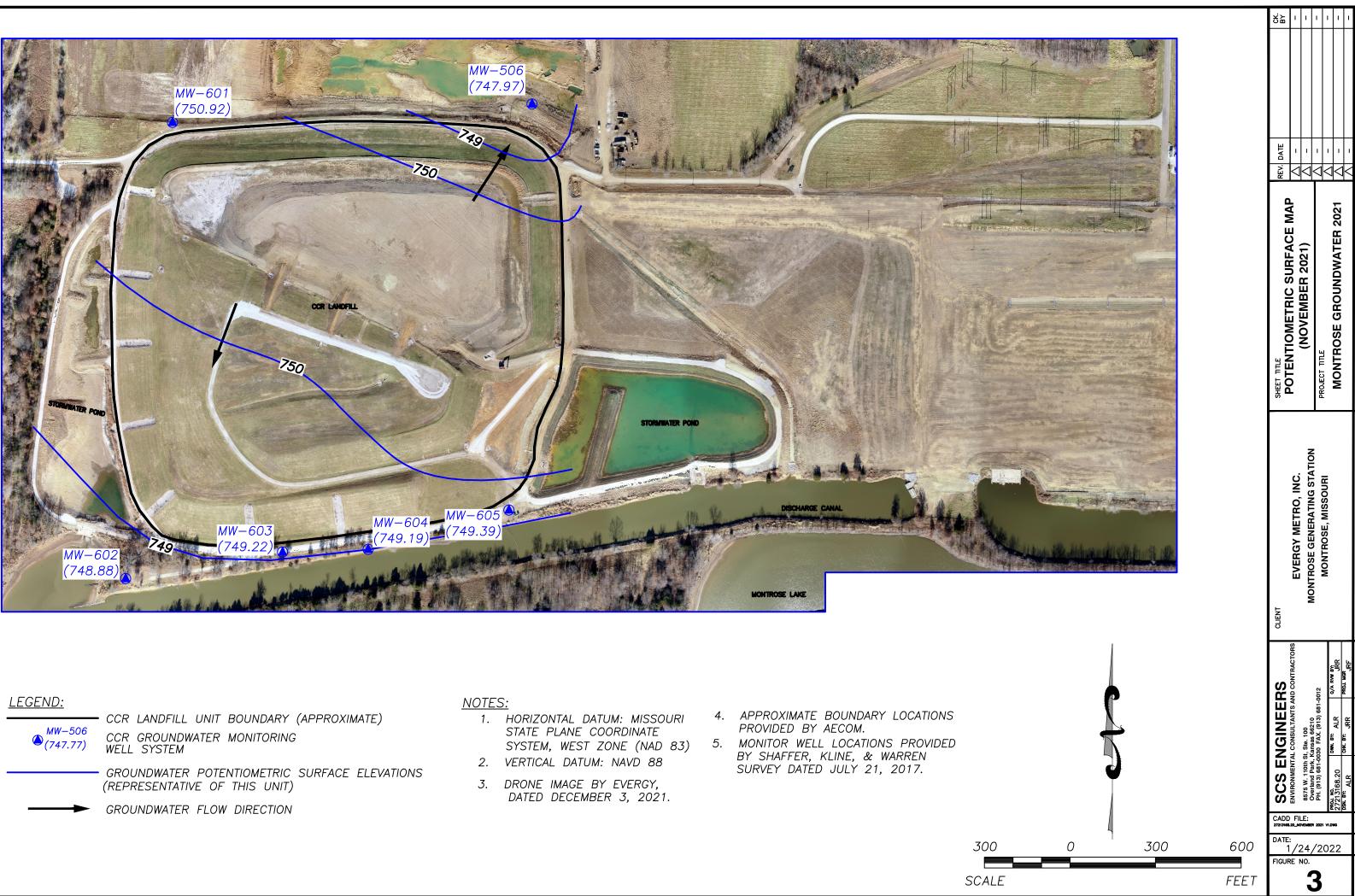
Figure 3: Potentiometric Surface Map (November 2021)



LEGEND:









APPENDIX B

TABLES

Table 1: Appendix III Detection Monitoring Results

Table 2: Detection Monitoring Field Measurements

Table 1 CCR Landfill Appendix III Detection Monitoring Results Evergy Montrose Generating Station

			Appendix III Constituents						
Well Number	Sample Date	Boron (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	рН (S.U.)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	
MW-506	5/18/2021	<0.200	375	91.3	<0.150	5.73	1880	2800	
MW-506	11/16/2021	<0.200	353	86.3	<0.150	5.53	1590	2670	
MW-601	5/18/2021	<0.200	466	48.6	0.439	5.56	3200	4650	
MW-601	11/16/2021	<0.200	460	36.6	0.384	5.30	3030	3710	
MW-602	5/17/2021	4.17	311	3.95	<0.150	5.76	1190	1730	
MW-602	11/16/2021	4.09	292	3.65	<0.150	5.82	1170	1690	
MW-603	5/17/2021	6.22	403	6.17	0.535	4.60	2130	2600	
MW-603	11/16/2021	5.25	370	5.53	0.540	4.37	1860	2290	
MW-604	5/17/2021	5.32	486	15.6	0.491	5.98	2090	2960	
MW-604	7/19/2021		*432	*14.7		**5.69			
MW-604	11/16/2021	5.92	472	16.3	0.425	5.66	1940	2710	
MW-605	2/3/2021			*59.3		**5.66			
MW-605	3/1/2021	1		*58.2		**5.96			
MW-605	5/17/2021	1.54	420	52.5	0.216	5.36	2040	2770	
MW-605	11/16/2021	1.63	435	46.6	0.212	5.44	1850	2410	

* 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

Table 2

CCR Landfill Detection Monitoring Field Measurements Evergy Montrose Generating Station

Well Number	Sample Date	рН (S.U.)	Specific Conductivity (μS)	Temperature (°C)	Turbidity (NTU)	ORP (mV)	DO (mg/L)	Water Level (ft btoc)	Groundwater Elevation (ft NGVD)
MW-506	5/18/2021	5.73	2770	20.43	20.4	243	0.33	8.40	753.17
MW-506	11/16/2021	5.53	3140	18.76	0.0	237	0.00	13.60	747.97
MW-601	5/18/2021	5.56	4160	17.82	32.5	223	6.96	10.48	754.63
MW-601	11/16/2021	5.30	4610	17.67	7.7	245	0.00	14.19	750.92
MW-602	5/17/2021	5.76	2090	15.89	43.4	42	0.00	5.58	750.28
MW-602	11/16/2021	5.82	2020	16.44	26.4	55	0.00	6.98	748.88
MW-603	5/17/2021	4.60	3250	15.69	0.0	340	0.00	13.54	750.10
MW-603	11/16/2021	4.37	2990	19.06	0.0	385	0.00	14.42	749.22
MW-604	5/17/2021	5.98	3120	15.92	1.9	192	4.71	13.29	750.10
MW-604	7/19/2021	**5.69	3000	16.73	2.2	183	0.00	10.93	752.46
MW-604	11/16/2021	5.66	3320	16.93	0.0	268	0.00	14.20	749.19
MW-605	2/3/2021	**5.66	2690	13.16	13.8	163	0.80	13.43	750.68
MW-605	3/1/2021	**5.96	3100	13.86	46.2	181	1.95	13.19	750.92
MW-605	5/17/2021	5.36	3240	16.66	0.0	252	0.00	14.01	750.10
MW-605	11/16/2021	5.44	3170	19.08	0.0	246	0.00	14.72	749.39

* 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

S.U. - Standard Units

 μ S - microsiemens

°C - Degrees Celsius

ft btoc - Feet Below Top of Casing

ft NGVD - National Geodetic Vertical Datum (NAVD 88)

NTU - Nephelometric Turbidity Unit

APPENDIX C

ALTERNATIVE SOURCE DEMONSTRATIONS

C.1 CCR Landfill Groundwater Monitoring Alternative Source Demonstration Report November 2020 Groundwater Monitoring Event, CCR Landfill, Montrose Generating Station (May 2021) C.1 CCR Landfill Groundwater Monitoring Alternative Source Demonstration Report November 2020 Groundwater Monitoring Event, CCR Landfill, Montrose Generating Station (May 2021)

CCR GROUNDWATER MONITORING ALTERNATIVE SOURCE DEMONSTRATION REPORT NOVEMBER 2020 GROUNDWATER MONITORING EVENT

CCR LANDFILL

Montrose Generating Station Evergy Metro, Inc. Clinton, Missouri



May 2021 File No. 27213168.20

8575 W. 110th Suite 100 Overland Park, KS 66210 913-749-0700

CERTIFICATIONS

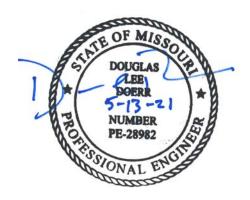
I, John R. Rockhold, being a qualified groundwater scientist and Registered Geologist in the State of Missouri, do hereby certify the accuracy of the information in the CCR Groundwater Monitoring Alternative Source Demonstration Report for the CCR Landfill at the Montrose Generating Station. The Alternative Source Demonstration was prepared by me or under my direct supervision in accordance with generally accepted hydrogeological practices and the local standard of care.



John R. Rockhold, R.G.

SCS Engineers

I, Douglas L. Doerr, being a qualified licensed Professional Engineer in the State of Missouri, do hereby certify the accuracy of the information in the CCR Groundwater Monitoring Alternative Source Demonstration Report for the CCR Landfill at the Montrose Generating Station. The Alternative Source Demonstration was prepared by me or under my direct supervision in accordance with generally accepted engineering practices and the local standard of care.



Douglas L. Doerr, P.E.

SCS Engineers

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Appendix A	Box and Whiskers Plots
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Appendix C	Time Series Plot

1 REGULATORY FRAMEWORK

Certain owners or operators of Coal Combustion Residuals (CCR) units are required to complete groundwater monitoring activities to evaluate whether a release from the unit has occurred. Included in the activities is the completion of a statistical analysis of the groundwater quality data as prescribed in § 257.93(h) of the CCR Final Rule. If the initial analysis indicates a statistically significant increase (SSI) over background levels, the owner or operator may perform an alternative source demonstration (ASD). In accordance with § 257.94(e)(2), the owner or operator of the CCR unit may demonstrate that a source other than the CCR unit caused the SSI over background levels for a constituent, or that the SSI 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 SSI over background levels to include obtaining a certification from a qualified professional engineer 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 § 257.94. 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.

2 STATISTICAL RESULTS

Statistical analysis of monitoring data from the groundwater monitoring system for the CCR Landfill at the Montrose Generating Station has been completed in substantial compliance with the "Statistical Method Certification by A Qualified Professional Engineer" dated October 12, 2017. Detection monitoring groundwater samples were collected on November 10, 2020. Review and validation of the results from the November 2020 Detection Monitoring Event was completed on December 22, 2020, 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. Two rounds of verification sampling were conducted for certain constituents on February 3, 2021 and March 1, 2021.

The completed statistical evaluation identified one Appendix III constituent above the prediction limit established for monitoring well MW-605.

Constituent/Monitoring Well	*UPL	Observation November 10, 2020	1st Verification February 3, 2021	2nd Verification March 1, 2021	
Chloride					
MW-605	55.57	59.7	59.3	58.2	

*UPL – Upper 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 a SSI above the background prediction limit for chloride at monitoring well MW-605.

3 ALTERNATIVE SOURCE DEMONSTRATION

An Alternative Source Demonstration (ASD) is a means to provide supporting lines of evidence that something other than a release from a regulated CCR unit caused an SSI. For the above identified SSI for the CCR Landfill at the Montrose Generating Station, there are multiple lines of supporting evidence to indicate the above SSI was not caused by a release from the CCR Landfill. Select multiple lines of supporting evidence are described as follows.

3.1 BOX AND WHISKERS PLOTS

A commonly accepted method to demonstrate and visualize the distribution of data in a given data set is to construct box and whiskers plots. The basic box plotted graphically locates the median, 25th and 75th percentiles of the data set; the "whiskers" extend to the minimum and maximum values of the data set. The range between the ends of a box plot represents the Interquartile Range, which can be used as an estimate of spread or variability. The mean is denoted by a "+".

When comparing multiple wells or well groups, box plots for each well can be lined up on the same axis to roughly compare the variability in each well. This may be used as an exploratory screening for the test of homogeneity of variance across multiple wells.

An SSI was identified in well MW-605 for chloride. Therefore, box and whiskers plots for chloride in MW-605 and the two upgradient wells MW-506 and MW-601 were prepared to allow comparison of the chloride concentrations between wells. The comparison between wells indicates the chloride concentrations in well MW-605 are within or below the range of chloride in upgradient wells. This demonstrates that a source other than the CCR Landfill caused the SSI in chloride over background levels, or that the SSI resulted from natural variation in groundwater quality. Box and whisker plots are provided in **Appendix A**.

3.2 PIPER DIAGRAM PLOTS

Piper diagrams are a form of tri-linear diagram, and a widely-accepted method to provide a visual representation of the ion concentration of groundwater. Piper diagrams portray water compositions and facilitate the interpretation and presentation of chemical analyses. They may be used to visually compare the chemical composition of water quality across wells, and aid in determining whether the waters are similar or dis-similar, and can over time indicate whether the waters are mixing.

A piper diagram has two triangular plots on the right and left side of a 4-sided center field. The three major cations are plotted in the left triangle and anions in the right. Each of the three cation/anion variables, in milliequivalents, is divided by the sum of the three values, to produce a percent of total cation/anions. These percentages determine the location of the associated symbol. The data points in the center field are located by extending the points in the lower triangles to the point of intersection. In order for a piper diagram to be produced, the selected data file must contain the following constituents: Sodium (Na), Potassium (K), Calcium (Ca), Magnesium (Mg), Chloride (Cl), Sulfate (SO4), Carbonate (CO3), and Bicarbonate (HCO3).

A piper diagram generated for MW-605 and landfill leachate is provided in **Appendix B** along with the analytical results and indicates the groundwater from this well does not exhibit the same geochemical

characteristics as the leachate. The groundwater and the leachate plot in totally different hydrochemical facies indicating there is no mixing of the two types of water (groundwater and leachate). This demonstrates that a source other than the CCR Landfill caused the SSI over background levels for chloride or that the SSI resulted from natural variation in groundwater quality.

3.3 TIME SERIES PLOTS

Time series plots provide a graphical method to view changes in data at a particular well (monitoring point) or wells over time. Time series plots display the variability in concentration levels over time and can be used to indicate possible outliers or data errors. More than one well can be compared on the same plot to look for differences between wells. Non-detect data is plotted as censored data at one-half of the laboratory reporting limit. Time series plots can also be used to examine the data for trends.

Time series plots for the chloride concentrations in MW-605 were plotted along with the chloride concentrations for upgradient wells MW-506 and MW-601. The plots indicate the chloride concentrations in MW-605 are below the concentrations in MW-506 and are often below or very near the concentrations in MW-601. This demonstrates that a source other than the CCR Landfill caused the SSI over background levels, or that the SSI resulted from natural variation in groundwater quality. Time series plots are provided in **Appendix C**.

4 CONCLUSION

Our opinion is that a sufficient body of evidence is available and presented above to demonstrate that a source other than the CCR Landfill caused the SSI over background levels, or that the SSI resulted from natural variation in groundwater quality. Based on the successful ASD, the owner or operator of the CCR Landfill may continue with the detection monitoring program under § 257.94.

5 GENERAL COMMENTS

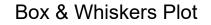
This report has been prepared and reviewed under the direction of a qualified groundwater scientist and qualified professional engineer. Please note that SCS Engineers does not warrant the work of regulatory agencies or other third parties supplying information used in the assimilation of this report. 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 Montrose Generating Station. No warranties, express or implied, are intended or made.

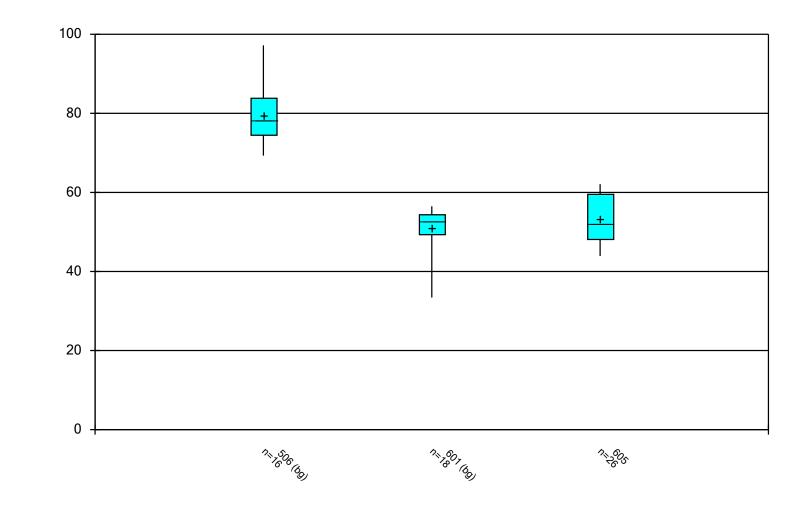
The signatures of the certifying registered geologist and professional engineer on this document represent that to the best of their knowledge, information, and belief in the exercise of their professional judgement in accordance with the standard of practice, it is their professional opinions that the aforementioned information is accurate as of the date of such signatures. Any opinion or decisions by them are made on the basis of their experience, qualifications, and professional judgement and are not to be construed as warranties or guaranties. In addition, opinions relating to regulatory, environmental, geologic, geochemical and geotechnical conditions interpretations or other estimates are based on available data, and actual conditions may vary from those encountered at the times and locations where data are obtained, despite the use of due care.

Appendix A

Box and Whiskers Plots

mg/l





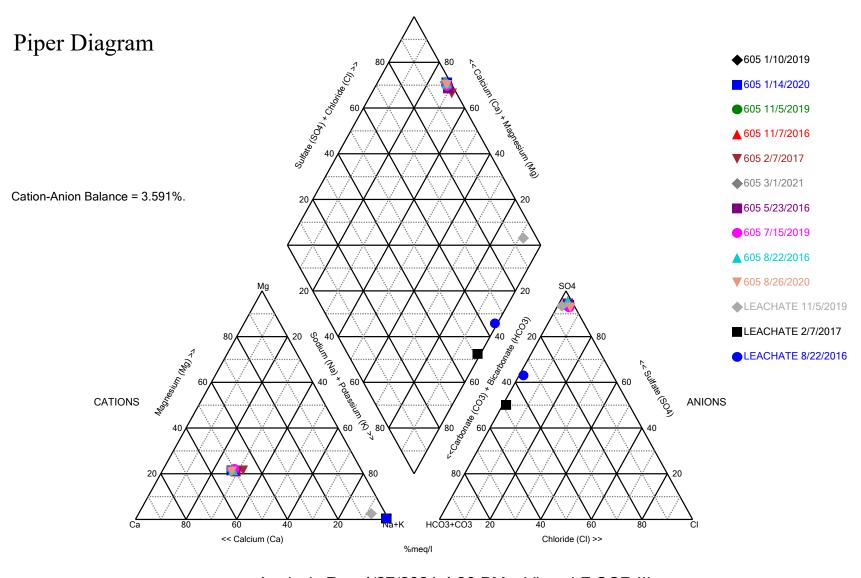
Constituent: Chloride Analysis Run 4/27/2021 4:28 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Box & Whiskers Plot

	Montrose Generating Sta	Client: SCS En	Client: SCS Engineers Data: Montrose Printed 4/27/2021, 4:33 PM						
Constituent	Well	<u>N</u>	Mean	Std. Dev.	Std. Err.	<u>Median</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
Chloride (mg/l)	506 (bg)	16	79.59	7.387	1.847	78.35	69.3	97.2	0
Chloride (mg/l)	601 (bg)	18	51.09	5.255	1.239	52.6	33.4	56.5	0
Chloride (mg/l)	605	26	53.43	5.899	1.157	52.05	43.9	62.1	0

Appendix B

Piper Diagram Plots and Analytical Results



Analysis Run 4/27/2021 4:39 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Piper Diagram

Analysis Run 4/27/2021 4:42 PM View: LF CCR III

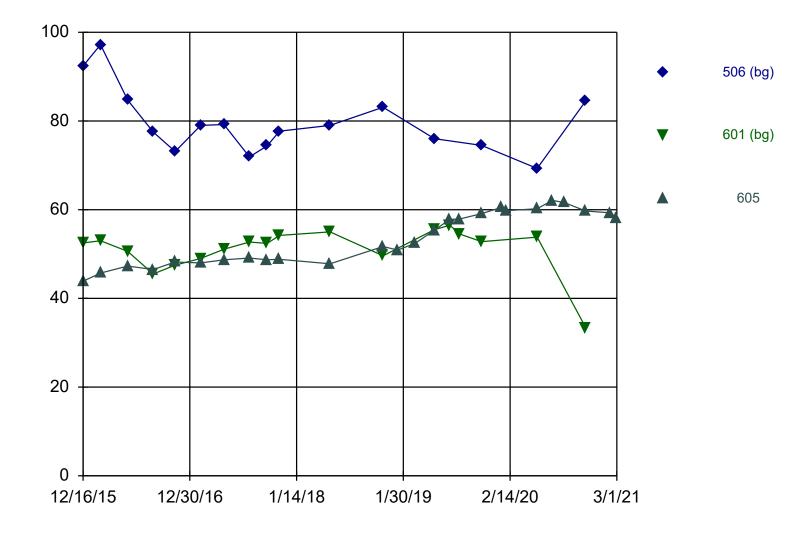
Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Totals (ppm)	Na	K	Ca	Mg	Cl	SO4	HCO3	CO3
605 5/23/2016	276	2.57	412	105	47.3	1880	47.9	10
605 8/22/2016	270	2.51	431	111	46.5	2230	40.9	10
605 11/7/2016	271	2.63	407	104	48.2	2280	44	10
605 2/7/2017	284	2.71	367	101	48	2050	48.1	10
605 1/10/2019	264	2.79	421	107	50.9	1870	42	10
605 7/15/2019	261	2.73	407	108	57.8	1640	41.6	10
605 11/5/2019	248	2.6	399	102	59.1	1730	42.8	10
605 1/14/2020	240	2.48	395	101	60.5	1860	38.1	10
605 8/26/2020	244	2.44	396	97.5	61.6	1690	36.8	10
605 3/1/2021	244	2.55	407	103	58.2	1720	40.1	10
LEACHATE 8/22/2016	1010	20.8	5.88	0.5	18.5	1560	10	549
LEACHATE 2/7/2017	1050	23.9	5.47	0.5	16.3	1360	10	840
LEACHATE 11/5/2019	970	17	49.2	14.5	20.3	2240	44.1	64.2

Appendix C

Time Series Plots





Constituent: Chloride Analysis Run 4/27/2021 4:34 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

mg/l

ADDENDUM 1

2021 Annual Groundwater Monitoring and Corrective Action Report Addendum 1

SCS ENGINEERS

Evergy Metro, Inc.

Douglas L. Doerr, P.E.

John R. Rockhold, P.G.

SCS Engineers

December 20, 2022 File No. 27213168.21

To:

From:



Subject: 2021 Annual Groundwater Monitoring and Corrective Action Report Addendum 1 Evergy Metro, Inc. CCR Landfill Montrose Generating Station – Clinton, Missouri

Jared Morrison – Director, Water and Waste Programs

The CCR Landfill at the Montrose Generating Station is subject to the groundwater monitoring and corrective action requirements of the "Coal Combustion Residuals (CCR) Final Rule" (Rule); as described in CFR 40 257.90 through CFR 40 257.98. An Annual Groundwater Monitoring and Corrective Action (GWMCA) Report documenting activities completed in 2021 for the CCR Landfill was completed and placed in the facility's operating record on January 28, 2022, as required by the Rule. The Annual GWMCA report was to fulfill the requirements specified in 40 CFR 257.90(e).

This Addendum has been prepared to supplement the operating record in recognition of comments received by Evergy from the U.S. Environmental Protection Agency (USEPA) on January 11, 2022. In addition to the information listed in 40 CFR 257.90(e), 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 the attachments to this addendum.

The attachments to this addendum are as follows:

• Attachment 1 – Laboratory Analytical Reports:

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:



- February 2021 First verification sampling for the Fall 2020 detection monitoring event.
- March 2021 Second verification sampling for the Fall 2020 detection monitoring event.
- May 2021 Spring 2021 semiannual detection monitoring sampling event.
- July 2021 First verification sampling for the Spring 2021 detection monitoring sampling event.
- November 2021 Fall 2021 semiannual detection monitoring sampling event.
- Attachment 2 Statistical Analyses:

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 2021 included the following:

- Fall 2020 semiannual detection monitoring statistical analyses.
- Spring 2021 semiannual detection monitoring statistical analyses.
- Attachment 3 Groundwater Potentiometric Surface Maps:

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:

- May 2021 Spring 2021 semiannual detection monitoring sampling event.
- November 2021 Fall 2021 semiannual detection monitoring sampling event.

Jared Morrison December 20, 2022

ATTACHMENT 1

Laboratory Analytical Reports

Jared Morrison December 20, 2022

ATTACHMENT 1-1 February 2021 Sampling Event Laboratory Report



ANALYTICAL REPORT

February 12, 2021

SCS Engineers - KS

Sample Delivery Group: Samples Received: Project Number: Description: L1314503 02/05/2021 27213168.21 Evergy - Montrose Generating Station

Report To:

Jason Franks 8575 W. 110th Street Overland Park, KS 66210

Тс Ss Cn Sr Qc Gl AI Sc

Entire Report Reviewed By:

Jubb law

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

ACCOUNT: SCS Engineers - KS PROJECT: 27213168.21

SDG: L1314503 DATE/TIME: 02/12/21 13:41 PAGE: 1 of 11

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ACCOUNT: SCS Engineers - KS

PROJECT: 27213168.21

SDG: L1314503

DATE/TIME: 02/12/21 13:41

Qc: Quality Control Summary Wet Chemistry by Method 9056A

GI: Glossary of Terms Al: Accreditations & Locations

MW-605 L1314503-01

DUPLICATE L1314503-02

Cp: Cover Page

Tc: Table of Contents

Ss: Sample Summary **Cn: Case Narrative**

Sr: Sample Results

Sc: Sample Chain of Custody

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

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MW-605 L1314503-01 GW			Collected by Whit Martin	Collected date/time 02/03/2110:25	Received da 02/05/21 13:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1618819	1	02/11/21 19:58	02/11/21 19:58	MCG	Mt. Juliet, TN
DUPLICATE L1314503-02 GW			Collected by Whit Martin	Collected date/time 02/03/21 10:30	Received da 02/05/21 13:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1618819	1	02/11/21 22:08	02/11/21 22:08	MCG	Mt. Juliet, TN

SDG: L1314503 DATE/TIME: 02/12/21 13:41

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.

Jubb land

Jeff Carr Project Manager

Τс Ss Cn Sr Qc GI AI Sc

PROJECT: 27213168.21

SDG: L1314503 DATE/TIME: 02/12/21 13:41

: 1 PAGE: 4 of 11

SAMPLE RESULTS - 01 L1314503

*

Wet Chemistry by Method 9056A

	D !!	0 110		D:1 .:	• • •		 Cp
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l		date / time		2
Chloride	59300		1000	1	02/11/2021 19:58	WG1618819	Тс

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⁴ Cn
⁵Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SDG: L1314503

DATE/TIME: 02/12/21 13:41

SAMPLE RESULTS - 02 L1314503



Wet Chemistry by Method 9056A

Wet Chemistry by	/ Method 90564	7					1	1
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср	
Analyte	ug/l		ug/l		date / time		 2	i
Chloride	59300		1000	1	02/11/2021 22:08	WG1618819	⁻Tc	

³ Ss
⁴ Cn
⁵Sr
⁶ Qc
⁷ Gl
⁸ Al
°Sc

SDG: L1314503

PAGE: 6 of 11

WG1618819

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1314503-01,02

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[°]Qc

Method Blank (MB)

(MB) R3621989-1 02	(MB) R3621989-1 02/11/21 10:25							
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	ug/l		ug/l	ug/l				
Chloride	U		379	1000				

L1314344-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1314344-02 02/11/21	OS) L1314344-02 02/11/21 15:25 • (DUP) R3621989-3 02/11/21 15:38										
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits					
Analyte	ug/l	ug/l		%		%					
Chloride	ND	ND	5	0.000		15					

L1314536-01 Original Sample (OS) • Duplicate (DUP)

L1314536-01 (1314536-01 Original Sample (OS) • Duplicate (DUP)										
(OS) L1314536-01	02/11/21 21:03 • (DUP) F	R3621989-10	02/11/21 21	:16							
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits					
Analyte	ug/l	ug/l		%		%					
Chloride	38000	38500	1	1.32		15					

Laboratory Control Sample (LCS)

(LCS) R3621989-2 02/11/	(LCS) R3621989-2 02/11/21 10:37										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	ug/l	ug/l	%	%							
Chloride	40000	39900	99.7	80.0-120							

L1314464-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1314464-02 02/11/21 17:08 • (MS) R3621989-4 02/11/21 17:21 • (MSD) R3621989-5 02/11/21 17:34												
	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	%	%		%			%	%
Chloride	50000	10500	60400	61500	99.9	102	1	80.0-120			1.84	15

L1314460-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1314460-02	02/11/21 19:18 • (MS) R3	3621989-6 02/	11/21 19:32 • (MSD) R3621989	9-7 02/11/21 1	9:45							
	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	%	%		%			%	%	
Chloride	50000	16800	66700	67500	99.8	101	1	80.0-120			1.15	15	
	ACCOUNT:			PRC	JECT:			SDG:		DATE	TIME:		PAGE:
	SCS Engineers - KS		2721	3168.21		L1314503			02/12/21 13:41			7 of 11	

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1314503-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1314503-01 02/11/21 1	9:58 • (MS) R3	621989-8 02/1	1/21 20:11 • (MS	D) R3621989-9	02/11/21 20:24	4						
	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	%	%		%			%	%
				-								

ACCOUNT:
SCS Engineers - KS

PROJECT: 27213168.21

SDG: L1314503 DATE/TIME: 02/12/21 13:41 PAGE: 8 of 11

GLOSSARY OF TERMS

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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).

ACCOUNT: SCS Engineers - KS

PROJECT: 27213168.21

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ACCREDITATIONS & LOCATIONS

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Cn

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Qc

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Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productive, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE. * 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 National.

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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
daho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
ouisiana	Al30792	Tennessee ¹⁴	2006
ouisiana	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		

Pace Analytical National 1313 Point Mallard Parkway SE Suite B Decatur, AL, 35601

Alabama	40160		
ANSI National Accreditation Board	L2239		
Pace Analytical National	660 Bercut Dr. Ste. C Sacra	imento, CA, 95811	
California	2961	Oregon	CA300002
Minnesota	006-999-465	Washington	C926
North Dakota	R-214		
Pace Analytical National	6000 South Eastern Avenue	e Ste 9A Las Vegas, NV, 89	9119
Nevada	NV009412021-1	_	
Pace Analytical National	1606 E. Brazos Street Suite	D Victoria, TX, 77901	
Texas	T104704328-20-18		

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

SDG: L1314503

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cs Engineers - KS			Accounts 8575 W.	s Payable		Pres Chk									Analytical [®]
575 W. 110th Street and Park, KS 66210			Overland	l Park, KS	66210	·**						E.		/ Nabonar Car	eer for tesang a innoviation
eport to: ason Franks			Email To: jfranks@sc	sengineers			5			1	16				t: 800-767-5859 this chain of custody nent and acceptance of the
Ever By - Montrose Generating Station	Louise prote	and the second s	Montro:	se, MO	PT MT	Circle:								Pace Terms and Condition https://info.pacelabs.com terms.odf SDG # 27	
Phone: 913-681-0030	Client Proje				PKS-MONTRO	SE	oPres								=20 3
collected by (print):	Site/Facility	/ ID #	1.1	P.O. #			mIHDPE-NoPres							Acctnum: AQU	
Collected by (signature):	Same	Lab MUST Be Day Five	Day	Quote #	- Torr		- 5							Template: T14 Prelogin: P82 PM: 206 - Jeff C	5369
Immediately packed on Ice NY_X	Next Two Three		y (Rad Only) ay (Rad Only)	Date	Results Needed	No. of	ide 12							PB: Shipped Via:	
Sample ID	Comp/Gra	b Matrix *	Depth	Dat	e Time	Cntr	Chlorid							Remarks	Sample # (lab only)
MW-605	Grab	GW		2/3/	21 102	100	X								-11-
DUPLICATE	Grab	GW		2/3/2	21 1030	Contraction of the second	X		1.12						-07
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			1	1-255-5		<u> </u>						- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
• Matrix: ss - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:	*					and and a		pH Flow		Temp Other		COC Seal COC Signe Bottles a	<pre>mple Receipt Ch Present/Intact: ed/Accurate: arrive intact: bottles used:</pre>	
DW - Drinking Water OT - Other	Samples return UPS Fed	ed via: IExCourie	r		Tracking #	Ţ							VOA Zero	nt volume sent: <u>If Applicab</u> Headspace: tion Correct/Che	Y N
Relinquished by : (Signature)	12 algorithting in the second second	Date: 2/3/21	Time	2:	Received by: (Sig	nature)	2	-4-21	Trip Blan		d: Yes/No HCL/N TBR	1eoH	RAD Scree	en <0.5 mR/hr:	<u></u> N
Relinquished by : (Signature)		Date:	Time	2:	Received by: (Sig	nature)		101-	Temp: 4.D4	-	Bottles Rec 2 He Z	eived:	If preservat	tion required by Log	in: Date/Time
Relinquished by : (Signature)		Date:	Time	e:	Received for lab	by: (Sign	ature)	10	Date:	, cc	Time:	00	Hold:		Condition: NCF / OK

Jared Morrison December 20, 2022

ATTACHMENT 1-2 March 2021 Sampling Event Laboratory Report



ANALYTICAL REPORT

SCS Engineers - KS

Sample Delivery Group: Samples Received: Project Number: Description: L1322439 03/03/2021 27213168.21 Evergy - Montrose Generating Station

Report To:

Jason Franks 8575 W. 110th Street Overland Park, KS 66210

Тс Ss Cn Sr Qc Gl AI Sc

Entire Report Reviewed By:

Jubb law

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

ACCOUNT: SCS Engineers - KS PROJECT: 27213168.21

SDG: L1322439 DATE/TIME: 03/09/21 11:21

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*	
¹ Cp	
² Tc	
^³ Ss	
⁴ Cn	
⁵ Sr	

Qc

GI

A

Sc

Cp: Cover Page
Tc: Table of Contents
Ss: Sample Summary
Cn: Case Narrative
Sr: Sample Results
MW-605 L1322439-01
DUPLICATE L1322439-02
Qc: Quality Control Summary
Wet Chemistry by Method 9056A
GI: Glossary of Terms
Al: Accreditations & Locations
Sc: Sample Chain of Custody



ACCOUNT: SCS Engineers - KS PROJECT: 27213168.21

SDG: L1322439 DATE/TIME: 03/09/21 11:21

PAGE: 2 of 10

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

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Wet Chemistry by Method 9056A	WG1630926	1	date/time 03/09/21 04:55	date/time 03/09/21 04:55	MCG	Mt. Juliet, TN
lethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
DUPLICATE L1322439-02 GW			Collected by	Collected date/time 03/01/21 10:40	Received dat 03/03/2113:0	
Wet Chemistry by Method 9056A	WG1630926	1	03/09/21 03:33	03/09/21 03:33	MCG	Mt. Juliet, TN
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
MW-605 L1322439-01 GW			Collected by	Collected date/time 03/01/21 10:35	Received dat 03/03/2113:0	
					-	

SDG: L1322439

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.

Jubb land

Jeff Carr Project Manager

Τс Ss Cn Sr Qc GI AI Sc

SDG: L1322439 DATE/TIME: 03/09/21 11:21

PAGE: 4 of 10

SAMPLE RESULTS - 01 L1322439

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Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	'Ср
Analyte	ug/l		ug/l		date / time		2
Chloride	58200		1000	1	03/09/2021 03:33	WG1630926	⁻Tc

SAMPLE RESULTS - 02 L1322439

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Wet Chemistry by Method 9056A

	Result	Qualifier RDL	Dilution	Analysis	Batch	Ср
Analyte	ug/l	ug/l		date / time		2
Chloride	58000	1000	1	03/09/2021 04:55	WG1630926	⁻Tc

WG1630926

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1322439-01,02

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Method Blank (MB)

(MB) R3628601-1 03/08/21 11:30				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		379	1000

L1322262-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1322262-01 03/08/2) L1322262-01 03/08/21 21:48 • (DUP) R3628601-3 03/08/21 22:04								
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits			
Analyte	ug/l	ug/l		%		%			
Chloride	121000	121000	1	0.0180	E	15			

L1322439-02 Original Sample (OS) • Duplicate (DUP)

L1322439-02 (Original Sample	(OS) • Du	plicate	(DUP)		
(OS) L1322439-02 (03/09/21 04:55 • (DU	P) R3628601-	7 03/09/2	1 05:11		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	58000	58100	1	0.206		15

Laboratory Control Sample (LCS)

(LCS) R3628601-2 03/08	3/21 11:46				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	40800	102	80.0-120	

L1322262-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1322262-02 03/08/	DS) L1322262-02 03/08/21 22:21 • (MS) R3628601-4 03/08/21 22:37										
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier				
Analyte	ug/l	ug/l	ug/l	%		%					
Chloride	50000	92600	141000	97.1	1	80.0-120	E				

L1322439-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1322439-01	03/09/21 03:33 • (MS)	R3628601-5 0	3/09/21 04:2	2 • (MSD) R362	8601-6 03/0	9/21 04:38							
	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	%	%		%			%	%	
Chloride	50000	58200	102000	102000	87.1	87.2	1	80.0-120	Ē	Ē	0.0505	15	
	ACCOUNT: PROJECT:				SDG:			DATE/TIME:			PAGE:		
	SCS Engineers - KS		27213168.21				L1322439			03/09/21 11:21			7 of 10

GLOSSARY OF TERMS

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Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Е

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

PROJECT: 27213168.21

SDG: L1322439

DATE/TIME: 03/09/21 11:21

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productive, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE. * 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 National.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN, 37122

Naska17-026NevadaTN000032021-1VritonaA20612New Hampshire2975Vritona88-0469New Jersey-NELAPTN000ColoradoTN00003New Jersey-NELAPTN0003ColoradoTN00003New York11742ConnecticutPH-0197North Carolina 1DW21704BeorgiaStaf487North Carolina 341Beorgia 1923North Carolina 341Beorgia 2North Carolina 34111020GamadaF1N00003Ohio-VAPCL0069Uilnois20008Ohio-VAPCL0099Ova364North Dakota8915Centucky 14K190010South Carolina84004002Centucky 2416South Carolina84004002ColsianaLA018Texas 311470424520-18Maryland324UtahTexas 4LA0152Maryland324VermontVI2006Minesota958Virginia10033MississippiN00003West Virginia233MississippiN00003West Virginia233MississippiN00003West Virginia233Mississippi146101WormingA2LAKotorofs 546102DOA461	Alabama	40660	Nebraska	NE-OS-15-05
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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	Missouri	340	Wisconsin	998093910
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Canada 1461.01 USDA P330-15-00234	A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
	A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
PA-Crypto TN00003	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

Τс Ss Cn Sr Qc Gl AI Sc

PROJECT: 27213168.21

SDG: L1322439

DATE/TIME: 03/09/21 11:21 PAGE: 9 of 10

ompany Name/Address:			Billing Infor	mation:					Analysis / C	Container /	Preservativ	/e		Chain of Custody	Page of
SCS Engineers - KS 8575 W. 110th Street Overland Park, KS 66210			8575 W.	s Payable 110th Street I Park, KS 6621	0	Pres Chk									Analytical * nter for Testing & Innove
Report to: Jason Franks				sengineers.com;ja	y.martin@ev	ergy.c								12065 Lebanon Road M Phone: 615-758-5858 Al Submitting a sample via constitutes acknowledg	t: 800-767-5859 this chain of custody ment and acceptance of
Project Description: Evergy - Montrose Generating Station	on City/State Collected:			Please G										Pace Terms and Condition https://info.pacelabs.co terms.pdf	m/hubfs/pas-standard-
Phone: 913-681-0030	Client Project 27213168.2				MONTROS	E	pres							sbg # [] 1092	322439
Collected by (print): FIOK	Site/Facility ID # P.O. #			P.O. #			DPE-NG							Acctnum: AQU Template:T14	
Collected by (signature)	Same Da	Rush? (Lab MUST Be Notified) Quote # Same Day Five Day				No.	125mlHDPE-NoPres		44					Prelogin: P83 PM: 206 - Jeff (PB:	0723
Packed on Ice N Y	Three D	ау	1	Sta	1	of	ride							Shipped Via:	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	Chlorid							Remarks	Sample # (lab
MW-605	GAAB	GW		34/1/21	1035	1	X								
DUPLICATE	G	GW		1	1040	1	X								
MW-605 MS/MSD	V	GW		1	1045	1	x								
												1			
	-														
											<u> </u>				
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	emarks:	1			1				pH _ Flow _		emp		COC Si Bottle	Sample Receipt CP al Present/Intact gned/Accurate: s arrive intact: t bottles used:	ecklist NP Y
DIAL Drinking Water	amples returned UPSFedEx			Tracki	ng #				10				VOA Ze	ient volume sent: <u>If Applicab</u> ro Headspace:	Y
Relinquished by : (Signature)	Da	ate: 3/02/	Time	Refer	ed by: (Signa	ture)	3-2-		Trip Blank	Received:	HCL / M TBR	еоН	RAD So	vation Correct/Cho reen <0.5 mR/hr:	Ľ
Relinquished by : (Signature)	Da	ate:	Time	e: Receiv	ved by: (Signa	ture)		1	Temp	y i	Bottles Rece	ived:	If prese	rvation required by Lop	gin: Date/Time
Relinquished by : (Signature)	Di	ate:	Time	e: Receiu	red for lab by	Signat	ture)	2	Date:	.61	Time:	200	Hold:		Condition



Pace Analytical® ANALYTICAL REPORT

March 10, 2021

SCS Engineers - KS

Sample Delivery Group: Samples Received: Project Number: Description:

L1322443 03/03/2021 27213168.21 Evergy - Montrose Generating Station

Report To:

Jason Franks 8575 W. 110th Street Overland Park, KS 66210

Тс Ss Cn Sr ʹQc Gl AI Sc

Entire Report Reviewed By:

Vubb land

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

ACCOUNT: SCS Engineers - KS

PROJECT: 27213168.21

SDG: L1322443

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PROJECT: 27213168.21

SDG: L1322443

DATE/TIME: 03/10/21 10:38 PAGE: 2 of 11

SAMPLE SUMMARY

MW-605 L1322443-01 GW			Collected by G. Panaflor	Collected date/time 03/01/2110:35	Received dat 03/03/2113:0	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 2320 B-2011	WG1629824	1	03/05/2110:08	03/05/2110:08	SL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1630420	100	03/06/21 22:40	03/06/21 22:40	ST	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1629875	1	03/08/21 17:27	03/09/21 11:46	KMG	Mt. Juliet, TN



PROJECT: 27213168.21

SDG: L1322443 DATE/TIME: 03/10/21 10:38 PAGE: 3 of 11

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.

ubb land

Jeff Carr Project Manager



PROJECT: 27213168.21

SDG: L1322443 DATE/TIME: 03/10/21 10:38 PAGE:

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MW-605

Collected date/time: 03/01/21 10:35

SAMPLE RESULTS - 01 L1322443

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	ug/l		ug/l		date / time		2
Alkalinity,Bicarbonate	40100		20000	1	03/05/2021 10:08	WG1629824	Tc
Alkalinity,Carbonate	ND		20000	1	03/05/202110:08	WG1629824	
							2

Sample Narrative:

L1322443-01 WG1629824: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Sulfate	1720000		500000	100	03/06/2021 22:40	WG1630420

Metals (ICP) by Method 6010B

Metals (ICP) by N	lethod 6010B						7
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l		date / time		
Calcium	407000		1000	1	03/09/2021 11:46	WG1629875	
Magnesium	103000		1000	1	03/09/2021 11:46	WG1629875	
Potassium	2550		2000	1	03/09/2021 11:46	WG1629875	1
Sodium	244000		3000	1	03/09/2021 11:46	WG1629875	

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WG1629824

Wet Chemistry by Method 2320 B-2011

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3627767-1 03/05	5/21 03:38			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Alkalinity,Bicarbonate	U		8450	20000
Alkalinity,Carbonate	U		8450	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

ACCOUNT:	
SCS Engineers - KS	5

PROJECT: 27213168.21

SDG: L1322443 DATE/TIME: 03/10/21 10:38 **PAGE**: 6 of 11

WG1630420

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1322443-01

Method Blank (MB)

(MB) R3628020-1 0	3/06/21 09:04			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Sulfate	U		594	5000

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L1323725-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1323725-03 03/06/	21 11:01 • (DUP)	R3628020-3	03/06/211	11:14		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfate	ND	ND	1	0.0741		15

L1323931-09 Original Sample (OS) • Duplicate (DUP)

L1323931-09 Orig	inal Sample	(OS) • Dup	olicate (DUP)			⁷ Gl
(OS) L1323931-09 03/06	6/21 15:02 • (DUF	P) R3628020-7	03/06/21	15:15			
	Original Resul	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al
Analyte	ug/l	ug/l		%		%	
Sulfate	31100	31300	1	0.792		15	°Sc

Laboratory Control Sample (LCS)

(LCS) R3628020-2 03/0	6/21 09:17				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfate	40000	41100	103	80.0-120	

L1323725-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1323725-06 03/06/	/21 11:27 • (MS) F	3628020-4 0	3/06/21 12:06	• (MSD) R3628	020-5 03/06/2	21 12:19						
	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	%	%		%			%	%
Sulfate	50000	ND	51800	51400	101	101	1	80.0-120			0.860	15

L1323924-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1323924-05 03/06	/21 14:35 • (MS)	R3628020-6 (03/06/21 14:49				
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Sulfate	50000	ND	51000	101	1	80.0-120	

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
SCS Engineers - KS	27213168.21	L1322443	03/10/21 10:38	7 of 11

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY L1322443-01

Method Blank (MB)

	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/l		ug/l	ug/l	
Calcium	U		79.3	1000	
Magnesium	U		85.3	1000	
Potassium	U		261	2000	
Sodium	U		504	3000	

Laboratory Control Sample (LCS)

(LCS) R3628906-2 (03/09/2110:52				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Calcium	10000	9740	97.4	80.0-120	
Magnesium	10000	9670	96.7	80.0-120	
Potassium	10000	9080	90.8	80.0-120	
Sodium	10000	9550	95.5	80.0-120	

L1322448-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1322448-02 03/09/21 10:54 • (MS) R3628906-4 03/09/21 11:00 • (MSD) R3628906-5 03/09/21 11:02												
	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	%	%		%			%	%
Calcium	10000	117000	125000	125000	77.5	74.0	1	75.0-125		V	0.278	20
Magnesium	10000	40500	49100	49100	85.6	86.3	1	75.0-125			0.134	20
Potassium	10000	2180	11500	11500	93.2	93.6	1	75.0-125			0.379	20
Sodium	10000	10200	19700	19700	95.3	95.0	1	75.0-125			0.171	20

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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 fo 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

PROJECT: 27213168.21

SDG: L1322443 DATE/TIME: 03/10/21 10:38 PAGE: 9 of 11 Τс

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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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

PROJECT: 27213168.21

SDG: L1322443 DATE/TIME: 03/10/21 10:38 Τс

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Company Name/Address:				Billing Information:					Analysis / Container / Pres					Chain of Custody	Page of	
SCS Engineers - KS			Accounts Payable 8575 W. 110th Street					62	MINISTERAL CONTRACTORS					_ Pace	Analytical*	
3575 W. 110th Street Overland Park, KS 66210			Overland	d Park, KS 66	210									National Ce	inter for Testing & Innove	
Report to: Jason Franks				Email To: jfranks@scsengineers.com;jay.martin@eve				NO3						12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of ti		
Project Description: City/State Evergy - Montrose Generating Station Collected:			Montrese PT MT			rcle:	res	PE-H						Pace Terms and Condition https://info.pacelabs.co terms.ndf	Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard- terms.ndf	
Phone: 913-681-0030	Client Project # 27213168.21			Lab Project #	Project # JAOPKS-MONTROSE		PE-NoP	Na 250miHDPE-HNO3	res					and the second s	SDG # 61322443 1093	
Same Day Five			P.O. #			125mIHDPE-NoPres	-Ca, Mg, K,	Sulfate 125mlHDPE-NoPres				Acctnum: AQUAOPKS Template:T182502				
		ch? (Lab MUST Be Notified) ame Day Five Day lext Day 5 Day (Rad Only)		Quote # Date Results Needed							ALKCA 129			Prelogin: P83 PM: 206 - Jeff	0728	
mmediately Packed on Ice N Y					sta						BI, AL			PB: Shipped Via:		
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	ALKBI,		BERRE STREET					Remarks	Sample # (lab only	
MW-605	GPAB	GW		3/1/2/	1035	3	X	X	X						-0	
						1										
			1.													
						1										
						1						2:				
* Matrix: SS - Soil AIR - Air F - Filter SW - Groundwater B - Bioassay WW - WasteWater	Remarks:		pH Temp Flow Other							Sample Receipt Checklist COC Seal Present/Intact: NP Y COC Signed/Accurate: Bottles arrive intact: Y Correct bottles used:						
DW - Drinking Water DT - Other	Samples returned UPSFedE	Tra	Tracking #								Sufficient volume sent: Y N If Applicable VOA Zero Headspace: Y N					
Relineuished by (Signature) Date		ate:	Time: Received by: (Signature)					2-2/	i, F	Trip Blank Recei	ved: Yes / No HCL / M TBR	eoH	Preservation Correct/Checked:			
Refinquished by : (Signature) Date:		oate:	Time: Received by: (Signatu			ture)				Temp: 120°	C Bottles Recei	ved:	If preservation required by Login: D		gin: Date/Time	
Relinquished by : (Signature))ate:	Time	e: Rec	eived for lab by	: (Signat	ture)	-		Date: 3/3/21	Time: 130	0	Hold:		Condition: NCF / OK	

ATTACHMENT 1-3 May 2021 Sampling Event Laboratory Report



Pace Analytical® ANALYTICAL REPORT June 04, 2021

SCS Engineers - KS

Sample Delivery Group: Samples Received: Project Number: Description:

L1355008 05/19/2021 27213168.21-B Evergy - Montrose Generating Station

Report To:

Jason Franks 8575 W. 110th Street Overland Park, KS 66210

Тс Ss Cn Śr Qc Gl AI Sc

Entire Report Reviewed By:

Jubb land

Jeff Carr Project Manager

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Pace Analytical National

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ACCOUNT: SCS Engineers - KS

PROJECT: 27213168.21-B

SDG: L1355008

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

SDG: L1355008 DAT 06/04

SAMPLE SUMMARY

MW-601 L1355008-01 GW			Collected by Whit Martin	Collected date/time 05/18/21 12:15	Received da 05/19/21 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1677155	1	05/25/2114:38	05/25/2116:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	1	06/02/21 05:36	06/02/21 05:36	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	100	06/02/21 05:52	06/02/21 05:52	ELN	Mt. Juliet, TI
Metals (ICP) by Method 6010B	WG1680761	1	06/01/21 10:07	06/03/21 17:05	CCE	Mt. Juliet, TN
MW-602 L1355008-02 GW			Collected by Whit Martin	Collected date/time 05/17/21 10:35	Received da 05/19/21 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1676315	1	05/24/21 12:35	05/24/21 13:53	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	1	06/02/21 06:09	06/02/21 06:09	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	50	06/02/21 06:25	06/02/21 06:25	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1680761	1	06/01/21 10:07	06/03/21 17:09	CCE	Mt. Juliet, TN
MW-603 L1355008-03 GW			Collected by Whit Martin	Collected date/time 05/17/21 11:15	Received da 05/19/21 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1676315	1	05/24/21 12:35	05/24/21 13:53	MMF	Mt. Juliet, Ti
Wet Chemistry by Method 9056A	WG1680864	1	06/02/21 06:41	06/02/21 06:41	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	100	06/02/21 06:58	06/02/21 06:58	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1680761	1	06/01/21 10:07	06/03/21 17:12	CCE	Mt. Juliet, TN
MW-604 L1355008-04 GW			Collected by Whit Martin	Collected date/time 05/17/21 12:00	Received da 05/19/21 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1676555	1	05/24/21 18:27	05/24/21 19:30	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	1	06/02/21 07:14	06/02/21 07:14	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	100	06/02/21 08:36	06/02/21 08:36	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1681847	1	06/02/21 19:29	06/03/21 18:45	CCE	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
MW-605 L1355008-05 GW			Whit Martin	05/17/21 12:30	05/19/21 09:	30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1676475	1	05/24/21 15:35	05/24/21 17:11	MMF	Mt. Juliet, Ti
Wet Chemistry by Method 9056A	WG1680864	1	06/02/21 08:53	06/02/21 08:53	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	100	06/02/21 09:09	06/02/21 09:09	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1681847	1	06/02/21 19:29	06/03/21 19:06	CCE	Mt. Juliet, TN
DUPLICATE L1355008-06 GW			Collected by Whit Martin	Collected date/time 05/17/21 12:00	Received da 05/19/21 09:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1676555	1	05/24/21 18:27	05/24/21 19:30	MMF	Mt. Juliet, Ti
Wet Chemistry by Method 9056A	WG1680864	1	06/02/21 09:25	06/02/21 09:25	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	100	06/02/21 09:42	06/02/21 09:42	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1681847	1	06/02/21 19:29	06/03/21 19:15	CCE	Mt. Juliet, TN

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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.

ubb law

Jeff Carr Project Manager



SDG: L1355008 DA 06/0

SAMPLE RESULTS - 01 L1355008

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier RD	L Dilution	Analysis	Batch	Ср
Analyte	mg/l	m	J/I	date / time		2
Dissolved Solids	4650	50	.0 1	05/25/2021 16:54	WG1677155	¯Тс

Wet Chemistry by Method 9056A

Wet Chemistry by Method 9056A								
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	ug/l		ug/l		date / time			⁴ Cn
Chloride	48600		1000	1	06/02/2021 05:36	WG1680864		CII
Fluoride	439		150	1	06/02/2021 05:36	WG1680864		5
Sulfate	3200000		500000	100	06/02/2021 05:52	WG1680864		Sr

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	ND		200	1	06/03/2021 17:05	WG1680761
Calcium	466000		1000	1	06/03/2021 17:05	WG1680761

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SAMPLE RESULTS - 02 L1355008

Gravimetric Analysis by Method 2540 C-2011

,	,						ľ.	Cnl
	Result	Qualifier	RDL	Dilution	Analysis	Batch		СР
Analyte	mg/l		mg/l		date / time		2	
Dissolved Solids	1730	<u>J3</u>	25.0	1	05/24/2021 13:53	WG1676315	[⁻ .	Тс

Wet Chemistry by Method 9056A

Wet Chemistry by Method 9056A								
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	ug/l		ug/l		date / time			⁴ Cn
Chloride	3950		1000	1	06/02/2021 06:09	WG1680864		CII
Fluoride	ND		150	1	06/02/2021 06:09	WG1680864		5
Sulfate	1190000		250000	50	06/02/2021 06:25	WG1680864		Sr

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	4170		200	1	06/03/2021 17:09	WG1680761
Calcium	311000		1000	1	06/03/2021 17:09	WG1680761

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SAMPLE RESULTS - 03 L1355008

Gravimetric Analysis by Method 2540 C-2011

,								L
	Result	Qualifier	RDL	Dilution	Analysis	Batch		l
Analyte	mg/l		mg/l		date / time		2	i
Dissolved Solids	2600	<u>J3</u>	50.0	1	05/24/2021 13:53	WG1676315	Тс	l

Wet Chemistry by Method 9056A

Wet Chemistry by Method 9056A								
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	ug/l		ug/l		date / time			4 Cn
Chloride	6170		1000	1	06/02/2021 06:41	WG1680864		CII
Fluoride	535		150	1	06/02/2021 06:41	WG1680864		5
Sulfate	2130000		500000	100	06/02/2021 06:58	WG1680864		Sr

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	6220		200	1	06/03/2021 17:12	WG1680761
Calcium	403000		1000	1	06/03/2021 17:12	WG1680761

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SAMPLE RESULTS - 04 L1355008

Gravimetric Analysis by Method 2540 C-2011

						l'Cn	L
	Result	Qualifier RD	L Dilution	Analysis	Batch	Cp	
Analyte	mg/l	mg	/1	date / time		2	1
Dissolved Solids	2960	50	.0 1	05/24/2021 19:30	WG1676555	⁻Tc	l

Wet Chemistry by Method 9056A

Wet Chemistry by M	ethod 9056A						³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l		date / time		⁴Cn
Chloride	15600		1000	1	06/02/2021 07:14	WG1680864	CII
Fluoride	491		150	1	06/02/2021 07:14	WG1680864	5
Sulfate	2090000		500000	100	06/02/2021 08:36	WG1680864	Sr

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	5320	<u>01</u>	200	1	06/03/2021 18:45	WG1681847
Calcium	486000	<u>01 V</u>	1000	1	06/03/2021 18:45	WG1681847

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SAMPLE RESULTS - 05 L1355008

Gravimetric Analysis by Method 2540 C-2011

	,						 1'Cn	L
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Cp	l
Analyte	mg/l		mg/l		date / time		2	i
Dissolved Solids	2770		50.0	1	05/24/2021 17:11	WG1676475	Tc	

Wet Chemistry by Method 9056A

Wet Chemistry by Metho	od 9056A						^³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l		date / time		⁴ Cn
Chloride	52500		1000	1	06/02/2021 08:53	WG1680864	
Fluoride	216		150	1	06/02/2021 08:53	WG1680864	5
Sulfate	2040000		500000	100	06/02/2021 09:09	WG1680864	Sr

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	1540		200	1	06/03/2021 19:06	WG1681847
Calcium	420000		1000	1	06/03/2021 19:06	WG1681847

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SAMPLE RESULTS - 06 L1355008

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср	l
Analyte	mg/l		mg/l		date / time		2	i
Dissolved Solids	2960		50.0	1	05/24/2021 19:30	WG1676555	Tc	l

Wet Chemistry by Method 9056A

Wet Chemistry by	Method 9056A						³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l		date / time		⁴ Cn
Chloride	15400		1000	1	06/02/2021 09:25	WG1680864	
Fluoride	480		150	1	06/02/2021 09:25	WG1680864	5
Sulfate	2130000		500000	100	06/02/2021 09:42	WG1680864	Sr

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	5330		200	1	06/03/2021 19:15	WG1681847
Calcium	491000		1000	1	06/03/2021 19:15	WG1681847

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1355008-02,03

Method Blank (MB)

(MB) R3659102-1 05/24	/21 13:53			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1355008-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1355008-02 05	5/24/21 13:53 • (DU	P) R3659102-3	3 05/24/21	13:53		
	Original Resul	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1730	1840	1	5.89	<u>J3</u>	5

L1355008-03 Original Sample (OS) • Duplicate (DUP)

L1355008-03 OI	riginal Sample	e (OS) • Du	uplicate	(DUP)			⁷ G
(OS) L1355008-03 05	5/24/21 13:53 • (DUF	P) R3659102-4	1 05/24/21	13:53			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ A
Analyte	mg/l	mg/l		%		%	
Dissolved Solids	2600	2810	1	7.78	<u>J3</u>	5	°S

Laboratory Control Sample (LCS)

(LCS) R3659102-2 05	5/24/21 13:53				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8760	99.5	77.4-123	

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1355008-05

Method Blank (MB)

(MB) R3659088-1 05/24	4/21 17:11			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1355207-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1355207-04 05/2	4/21 17:11 • (DUP)	R3659088-3	05/24/21	17:11		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	2690	2800	1	4.01		5

L1355207-05 Original Sample (OS) • Duplicate (DUP)

L1355207-05 Ori	ginal Sample	e (OS) • Du	plicate	(DUP)			⁷ Gl
(OS) L1355207-05 05/2	24/21 17:11 • (DUP) R3659088-4	05/24/21	17:11			
	Original Resul	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al
Analyte	mg/l	mg/l		%		%	
Dissolved Solids	1150	1220	1	5.91	<u>13</u>	5	⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3659088-2 05/2	24/21 17:11				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8280	94.1	77.4-123	

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1355008-04,06

Method Blank (MB)

(MB) R3659092-1 05/2	24/21 19:30			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1354704-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1354704-01 05/	/24/2119:30 • (DU	P) R3659092-3	8 05/24/21	19:30		
	Original Resu	It DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1480	1670	1	11.8	<u>J3</u>	5

L1354919-01 Original Sample (OS) • Duplicate (DUP)

L1354919-01 Ori	iginal Sample (OS) • Dup	olicate (I	DUP)			⁷ Gl
(OS) L1354919-01 05/	/24/21 19:30 • (DUP)	R3659092-4	05/24/21	19:30			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al
Analyte	mg/l	mg/l		%		%	
Dissolved Solids	950	1080	1	12.6	<u>J3</u>	5	⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3659092-2 0	5/24/21 19:30				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8660	98.4	77.4-123	

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1355008-01

Method Blank (MB)

IVIB)				
5/25/21 16:54				
MB Result	MB Qualifier	MB MDL	MB RDL	
mg/l		mg/l	mg/l	
U		10.0	10.0	
` -	/25/21 16:54 MB Result	/25/21 16:54 MB Result <u>MB Qualifier</u>	/25/21 16:54 MB Result <u>MB Qualifier</u> MB MDL mg/l mg/l	/25/21 16:54 MB Result <u>MB Qualifier</u> MB MDL MB RDL mg/l mg/l mg/l

Original Sample (OS) • Duplicate (DUP)

Original Sample	e (OS) • Duplic	ate (DUP)					
(OS) • (DUP) R36596	07-3 05/25/2116:	54					
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	
Analyte		mg/l		%		%	
Dissolved Solids		2840	1	1.24		5	

Original Sample (OS) • Duplicate (DUP)

Original Sample	(OS) • Duplic	ate (DUP)					⁷ G
(OS) • (DUP) R36596	07-4 05/25/2116:5	54					
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ A
Analyte		mg/l		%		%	
Dissolved Solids		1450	1	1.80		5	°S¢

Laboratory Control Sample (LCS)

(LCS) R3659607-2 05	5/25/21 16:54				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8420	95.7	77.4-123	

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1355008-01,02,03,04,05,06

Method Blank (MB)

Method Dian	K (IVID)				
(MB) R3662195-1	06/01/21 20:04				
	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	

L1355256-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1355256-01 06/01/2	21 23:19 • (DUP)	R3662195-3	06/01/212	23:35		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	3470	3460	1	0.395		15
Fluoride	ND	ND	1	3.50		15
Sulfate	ND	ND	1	0.491		15

L1359548-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1359548-01 06/02/	nalyte ug/l ug/l % hloride 6740 6770 1 0.463 uoride ND ND 1 5.65					
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	6740	6770	1	0.463		15
Fluoride	ND	ND	1	5.65		15
Sulfate	19200	19200	1	0.134		15

Laboratory Control Sample (LCS)

(LCS) R3662195-2 06/01/21 20:21									
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	ug/l	ug/l	%	%					
Chloride	40000	40700	102	80.0-120					
Fluoride	8000	8320	104	80.0-120					
Sulfate	40000	40800	102	80.0-120					

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1355042-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355042-01 06/02/	21 09:58 • (MS)	R3662195-7 C	06/02/21 10:15	• (MSD) R3662	195-8 06/02/2	1 10:31						
	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	%	%		%			%	%
Chloride	50000	91300	133000	133000	84.0	84.1	1	80.0-120	E	E	0.0528	15
Fluoride	5000	ND	4620	4620	90.2	90.2	1	80.0-120			0.0281	15
Sulfate	50000	1750000	1730000	1740000	0.000	0.000	1	80.0-120	EV	EV	0.332	15

L1355008-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355008-04 06/02	2/21 07:14 • (MS)	R3662195-5 C	6/02/21 07:31	• (MSD) R3662	195-6 06/02/2	21 07:47						
	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	%	%		%			%	%
Chloride	50000	15600	63300	62900	95.5	94.6	1	80.0-120			0.730	15
Fluoride	5000	491	5230	5220	94.7	94.7	1	80.0-120			0.0459	15
Sulfate	50000	2050000	1980000	1960000	0.000	0.000	1	80.0-120	EV	EV	0.744	15

DATE/TIME: 06/04/2112:26

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Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3663072-1 0	6/03/21 15:49					
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	ug/l		ug/l	ug/l		
Boron	U		20.0	200		
Calcium	U		79.3	1000		

Laboratory Control Sample (LCS)

(LCS) R3663072-2 06/03	3/21 15:52				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Boron	1000	1000	100	80.0-120	
Calcium	10000	10200	102	80.0-120	

DATE/TIME: 06/04/2112:26

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

Method Blank (MB)

Method Bidh					
(MB) R3663084-1	06/03/21 18:39				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/l		ug/l	ug/l	
Boron	U		20.0	200	
Calcium	U		79.3	1000	

Laboratory Control Sample (LCS)

(LCS) R3663084-2 (06/03/21 18:42					
	Spike Amour	t LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	ug/l	ug/l	%	%		
Boron	1000	962	96.2	80.0-120		
Calcium	10000	9740	97.4	80.0-120		

L1355008-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355008-04 06/03/	21 18:45 • (MS)	R3663084-4 C	06/03/21 18:51 •	• (MSD) R36630	084-5 06/03/2	21 18:54							8
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	L
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%	ę
Boron	1000	5320	6200	6190	87.5	86.8	1	75.0-125			0.109	20	
Calcium	10000	486000	484000	483000	0.000	0.000	1	75.0-125	$\underline{\vee}$	$\underline{\vee}$	0.321	20	

L1355042-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355042-01 06/03/2	(OS) L1355042-01 06/03/21 18:57 • (MS) R3663084-6 06/03/21 19:00 • (MSD) R3663084-7 06/03/21 19:03												
	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	%	%		%			%	%	
Boron	1000	ND	1060	1060	96.1	95.7	1	75.0-125			0.368	20	
Calcium	10000	375000	378000	376000	28.7	7.52	1	75.0-125	$\underline{\vee}$	$\underline{\vee}$	0.563	20	

PROJECT: 27213168.21-B

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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 resul 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 fo 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).
J3	The associated batch QC was outside the established quality control range for precision.
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.

ACCOUNT:

SCS Engineers - KS

PROJECT: 27213168.21-B

SDG: L1355008 DATE/TIME: 06/04/2112:26

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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	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.

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

SCS Engineers - KS 8575 W. 110th Street Overland Park, KS 66210			Billing Information: Accounts Payable 8575 W. 110th Street Overland Park, KS 66210			Pres Chk		2	A		Contai	ner / Pres				Pac	Page of }_ Page of }_ Pe Analytical [®]
Report to: Jason Franks		1	Email To: jfranks@s	csengineers.co	om;jay.martin@	evergy.c	res								Submit	tting a sample vi	unt Juliet, TN 37122 a this chain of custody gment and acceptance of the
Project Description: Evergy - Montrose Generating Station		City/State Collected:		ntrose, Mo Please Circle: PT MT DET			NoP-								Pace Te	erms and Condit //info.pacelabs.c	
Phone: 913-681-0030	Client Project 27213168.	#		Lab Project # AQUAOPKS-MONTROS			125mlHDPE-NoPres	-HNO3							SDG		207
Collected by (print): Whit Martin	Site/Facility II	D#		P.O. #			4) 125r	IHDPE	VoPres						A	num: AQI	UAOPKS
Collected by (signature); MAAMAAA mmediately Packed on Ice N Y X	Same D	ab MUST Be ay Five y 5 Day y 10 D ay	Day (Rad Only)		esults Needed	No.	Anions (Cld, F, SO4)	- 6010 250mlHDPE-HNO3	250mIHDPE-NoPres						Preic PM: PB:		6546 ^{Carr} 5/11/21
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	Anion	B, Ca	TDS 2				(*) (k.) (-		ped Via: Fo Remarks	Sample # (lab only)
MW-601	Grab	GW		5/18/2	1 1215	3	X	X	X						and Call and a second and and the second and		01
viw-602	Grab	GW		5/17/2	1 1039	5 3	X	X	X		1						02
NW-603	Grab	GW		SINIA	1 1115	3	X	x	x							ing yan ng ng pakis	- 6
/IW-604	Grab	GW		5/17/2	1 1200) 3	X	x	X								na
NW-605	Grab	GW		6/17/-	21 1230) 3	x	X	X							L.	-05
MW 604MS/MSD	Grab	GW		5/17/2	1/1200	3	X	x	X								1.03
DUPLICATE	Grab	GW		5/17/2) 3.	x	X	x								-06
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and the second secon				1.24	- A. 4										9-		
SS - Soil AIR - Air F - Filter SW - Groundwater B - Bioassay NW - WasteWater	emarks:									pH Flow		_ Temp _ _ Other		COC Sig Bottles	Sample Red al Present gned/Accur s arrive i bottles	/Intact: ate: intact:	NP Y N NP Y N N N N N
- Drinking Water - Other Samples returned via: UPSFedExCourier Tracking # 9883 0088 (6005 inquished by: (Signature) Trip Blank Received: Yes No							6	VOA Zei	ro Headspa	Applicab. ace:	le _Y_N						
Relinquished by : (Signature)	Da S	te: 18/21		Time: Received by: (Signature)					Т	rip Blan	k Receiv		MeoH	Preservation Correct/Checked:			
Relinquished by : (Signature)	Da	te:	Time					1990-19 1911-19 241)	T	Infe 11+1	H?		Received:	If preser	vation requi	ired by Log	gin: Date/Time
Relinquished by : (Signature)	Da	te:	Time	: Re	ceived for lab by	r: (Signat	ure)	Ann	04	Date:	121	Time:	30	Hold:	de la la		Condition

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Pace Analytical® ANALYTICAL REPORT June 04, 2021

SCS Engineers - KS

Sample Delivery Group: Samples Received: Project Number: Description:

L1355042 05/19/2021 27213168.21-A Evergy - Montrose Generating Station

Report To:

Jason Franks 8575 W. 110th Street Overland Park, KS 66210

Тс Ss Cn Śr Qc Gl AI Sc

Entire Report Reviewed By:

Jubb land

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

ACCOUNT: SCS Engineers - KS

PROJECT: 27213168.21-A

SDG: L1355042

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SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	te/time
MW-506 L1355042-01 GW			Whit Martin	05/18/21 15:05	05/19/21 09:	30
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1677155	1	05/25/21 14:38	05/25/21 16:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	1	06/02/21 09:58	06/02/21 09:58	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	100	06/02/21 10:47	06/02/21 10:47	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1681847	1	06/02/21 19:29	06/03/21 18:57	CCE	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time

DUPLICATE L1355042-02 GW			Whit Martin	05/18/21 15:05	05/19/21 09:3	30
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1677155	1	05/25/21 14:38	05/25/21 16:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	1	06/02/21 11:04	06/02/21 11:04	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1680864	100	06/02/21 11:53	06/02/21 11:53	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1681847	1	06/02/21 19:29	06/03/21 19:18	CCE	Mt. Juliet, TN

²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

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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.

ubb law

Jeff Carr Project Manager



SDG: L1355042 DATE/TIME:

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SAMPLE RESULTS - 01 L1355042

Gravimetric Analysis by Method 2540 C-2011

								'nl
	Result	Qualifier	RDL	Dilution	Analysis	Batch		γĻ
Analyte	mg/l		mg/l		date / time		2	
Dissolved Solids	2800		50.0	1	05/25/2021 16:54	WG1677155		Ċ

Wet Chemistry by Method 9056A

Wet Chemistry by	Method 9056A						³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l		date / time		⁴ Cn
Chloride	91300		1000	1	06/02/2021 09:58	WG1680864	CII
Fluoride	ND		150	1	06/02/2021 09:58	WG1680864	5
Sulfate	1880000		500000	100	06/02/2021 10:47	WG1680864	Sr

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	ND		200	1	06/03/2021 18:57	WG1681847
Calcium	375000	V	1000	1	06/03/2021 18:57	WG1681847

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SAMPLE RESULTS - 02 L1355042

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l	mg/I		date / time		2
Dissolved Solids	2820	50.0	1	05/25/2021 16:54	WG1677155	Tc

Wet Chemistry by Method 9056A

Wet Chemistry by	y Method 9056A						3	³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	L	
Analyte	ug/l		ug/l		date / time		2	⁴ Cn
Chloride	91100		1000	1	06/02/2021 11:04	WG1680864		CII
Fluoride	ND		150	1	06/02/2021 11:04	<u>WG1680864</u>		5
Sulfate	1830000		500000	100	06/02/2021 11:53	WG1680864		⁵Sr

Metals (ICP) by Method 6010B

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	ND		200	1	06/03/2021 19:18	WG1681847
Calcium	375000		1000	1	06/03/2021 19:18	WG1681847

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1355042-01,02

Method Blank (MB)

(MB) R3659607-1 05/25	5/21 16:54			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1355042-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1355042-01 05/25	/21 16:54 • (DUP) R3659607-3	05/25/21	16:54					
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits			
Analyte	mg/l	mg/l		%		%			
Dissolved Solids	2800	2840	1	1.24		5			

L1355337-03 Original Sample (OS) • Duplicate (DUP)

L1355337-03 O	riginal Sample	(OS) • Du	plicate	(DUP)				⁷ Gl
(OS) L1355337-03 05	5/25/21 16:54 • (DUP	P) R3659607-4	4 05/25/2	1 16:54				
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		⁸ Al
Analyte	mg/l	mg/l		%		%		
Dissolved Solids	1430	1450	1	1.80		5		°Sc

Laboratory Control Sample (LCS)

(LCS) R3659607-2 05	5/25/21 16:54				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8420	95.7	77.4-123	

DATE/TIME: 06/04/21 12:09 Тс

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1355042-01,02

Method Blank (MB)

(MB) R3662195-1	06/01/21	20:04

Method Didi	K (IVID)					
(MB) R3662195-1	06/01/21 20:04					
	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		

L1355256-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1355256-01 06/01/	21 23:19 • (DUP)	R3662195-3	06/01/21 2	23:35		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	3470	3460	1	0.395		15
Fluoride	ND	ND	1	3.50		15
Sulfate	ND	ND	1	0.491		15

L1359548-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1359548-01 06/02/2	21 04:14 • (DUP)	R3662195-4	06/02/21	04:30		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	6740	6770	1	0.463		15
Fluoride	ND	ND	1	5.65		15
Sulfate	19200	19200	1	0.134		15

Laboratory Control Sample (LCS)

(LCS) R3662195-2 06/01	/21 20:21				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	40700	102	80.0-120	
Fluoride	8000	8320	104	80.0-120	
Sulfate	40000	40800	102	80.0-120	

ACCOUNT:
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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1355042-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355042-01 06/02/	21 09:58 • (MS)	R3662195-7 C	06/02/21 10:15	• (MSD) R3662	195-8 06/02/2	21 10:31						
	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	%	%		%			%	%
Chloride	50000	91300	133000	133000	84.0	84.1	1	80.0-120	E	E	0.0528	15
Fluoride	5000	ND	4620	4620	90.2	90.2	1	80.0-120			0.0281	15
Sulfate	50000	1750000	1730000	1740000	0.000	0.000	1	80.0-120	EV	EV	0.332	15

L1355008-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355008-04 06/02	/21 07:14 • (MS)	R3662195-5 C	6/02/21 07:31	• (MSD) R3662	195-6 06/02/2	21 07:47						
	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	%	%		%			%	%
Chloride	50000	15600	63300	62900	95.5	94.6	1	80.0-120			0.730	15
Fluoride	5000	491	5230	5220	94.7	94.7	1	80.0-120			0.0459	15
Sulfate	50000	2050000	1980000	1960000	0.000	0.000	1	80.0-120	EV	EV	0.744	15

ACCOUNT: SCS Engineers - KS PROJECT: 27213168.21-A

SDG: L1355042 DATE/TIME: 06/04/21 12:09

PAGE: 9 of 13 Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

Method Blank (MB)

Method Dial	ik (ivid)				
(MB) R3663084-1	06/03/21 18:39				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	ug/l		ug/l	ug/l	ŤΤ
Boron	U		20.0	200	
Calcium	U		79.3	1000	³ Ss

Laboratory Control Sample (LCS)

(LCS) R3663084-2 (06/03/21 18:42					
	Spike Amour	t LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	ug/l	ug/l	%	%		
Boron	1000	962	96.2	80.0-120		
Calcium	10000	9740	97.4	80.0-120		

L1355008-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355008-04 06/03/	21 18:45 • (MS)	R3663084-4 C	06/03/21 18:51	• (MSD) R3663	084-5 06/03/2	21 18:54							8
	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	%	%		%			%	%	Ş
Boron	1000	5320	6200	6190	87.5	86.8	1	75.0-125			0.109	20	
Calcium	10000	486000	484000	483000	0.000	0.000	1	75.0-125	$\underline{\vee}$	$\underline{\vee}$	0.321	20	

L1355042-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1355042-01 06/03/2	21 18:57 • (MS) F	83663084-6 0	6/03/21 19:00	• (MSD) R3663	084-7 06/03/	21 19:03						
	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	%	%		%			%	%
Boron	1000	ND	1060	1060	96.1	95.7	1	75.0-125			0.368	20
Calcium	10000	375000	378000	376000	28.7	7.52	1	75.0-125	V	$\underline{\vee}$	0.563	20

PROJECT: 27213168.21-A

SDG: L1355042 DATE/TIME: 06/04/21 12:09

PAGE: 10 of 13 ¹Cn

GI

A

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.

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Abbreviations and Definitions

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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.
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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).

V

PROJECT: 27213168.21-A

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

SDG: L1355042 DATE/TIME: 06/04/21 12:09

²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl

AI

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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

SDG: L1355042 DATE/TIME: 06/04/21 12:09

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

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SCS Engineers - KS 8575 W. 110th Street			8575 W	Accounts Payable 8575 W. 110th Street					V			contar	rier / Preservat				Chain of Cust	2	
Overland Park, KS 66210			Overlan	Overland Park, KS 66210														ace Analytical	
Report to:			-	n de la companya de l									A.						
Jason Franks	1 S. I.		Email To: jfranks@s	scsenginee	ers.com;	jay.martin@e	evergy.c	es							3			Mount Juliet, TN 37122 Ne via this chain of custody	
Project Description: City/State Evergy - Montrose Generating Station Collected:		200-14.			Please C PT MT	Ci <u>rcl</u> a:	-NoPI									constitutes acknow Pace Terms and Co	wledgment and acceptance of the anditions found at: bbs.com/hubfs/pas-standard-		
Phone: 913-681-0030				Lab Proj		MONTROS		125mlHDPE-NoPres	HNO3		- A				- 		SDG #	35504	
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W - WasteWater V - Drinking Water								17			Flow		Other	<u> </u>	COC	Signed/ les arr	Accurate: ive intact: tles used:	A. N	
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linquished by : (Signature)	Dat		Time:		Received	d by: (Signatu	re)	1		Te	4.5+1	uil.	Bottles Re	ceived:	If pre	servation	required by Lo	ogin: Date/Time	
linquished by : (Signature)	Dat	e:	Time:	F	Received	d for lab by: (S	ignatur	e)	<u>-111 / 17 / 1</u>	Da	ate:	122	Time:	Carl State	Hold:			Condition	

ATTACHMENT 1-4 July 2021 Sampling Event Laboratory Report



Pace Analytical® ANALYTICAL REPORT

August 02, 2021

SCS Engineers - KS

Sample Delivery Group: Samples Received: Project Number: Description:

L1381299 07/21/2021 27213168.21 - G Evergy - Montrose Generating Station

Report To:

Jason Franks 8575 W. 110th Street Overland Park, KS 66210

Тс Ss Cn Śr Qc Gl AI Sc

Entire Report Reviewed By:

Jubb land

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

ACCOUNT: SCS Engineers - KS

PROJECT: 27213168.21 - G

L1381299

SDG:

DATE/TIME: 08/02/21 08:55

PAGE: 1 of 11

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Metals (ICP) by Method 6010B	8
GI: Glossary of Terms	9
Al: Accreditations & Locations	10
Sc: Sample Chain of Custody	11



SDG: L1381299

SAMPLE SUMMARY

			Collected by	Collected date/time	Received dat	te/time
MW-604 L1381299-01 GW				07/19/21 10:35	07/21/21 08:3	80
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 9056A	WG1711019	1	07/27/21 16:36	07/27/21 16:36	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1712965	1	07/29/21 09:47	08/01/21 11:40	EL	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
DUPLICATE1 L1381299-02 GW				07/19/21 10:35	07/21/21 08:3	30
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 9056A	WG1711019	1	07/27/21 17:25	07/27/21 17:25	ELN	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1712965	1	07/29/21 09:47	08/01/21 12:23	EL	Mt. Juliet, TN

SDG: L1381299 Ср

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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.

ubb law

Jeff Carr Project Manager



SDG: L1381299 DATE/TIME: 08/02/21 08:55

SAMPLE RESULTS - 01 L1381299

Wet Chemistry by Method 9056A

Wet Chemistry	by Method 9056A						1
	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	ug/l		ug/l		date / time		2
Chloride	14700		1000	1	07/27/2021 16:36	<u>WG1711019</u>	Ťc
Metals (ICP) by	Method 6010B						³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l		date / time		4 Cn
Calcium	432000	V	1000	1	08/01/2021 11:40	WG1712965	СП

Qc

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SAMPLE RESULTS - 02 L1381299

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	(
Analyte	ug/l		ug/l		date / time	—	2
Chloride	14800		1000	1	07/27/2021 17:25	WG1711019	² T
Metals (ICP) by	Method 6010B						3
	B 11	Qualifier	RDL	Dilution	Analysis	Batch	
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	Result ug/l	Qualifier	ug/l	Dilution	date / time	baen	4

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1381299-01,02

Method Blank (MB)

(MB) R3684750-1 07/	/27/2112:34			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		379	1000

Тс

Ss

Cn

Sr

L1381295-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1381295-05 07/27/2	21 15:46 • (DUP)	R3684750-3	07/27/211	5:56		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	37400	37500	1	0.210		15

L1382223-05 Original Sample (OS) • Duplicate (DUP)

L1382223-05 Or	riginal Sample	e (OS) • Du	iplicate	(DUP)		
(OS) L1382223-05 07/	/27/21 18:34 • (DUF	P) R3684750-8	07/27/21	19:04		
	Original Resul	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	ND	ND	1	2.45		15

Laboratory Control Sample (LCS)

(LCS) R3684750-2 07/27	7/21 12:44				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	40500	101	80.0-120	

L1381295-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1381295-05 07/27/2	21 15:46 • (MS) F	3684750-4 0	7/27/21 16:06 •	(MSD) R36847	50-5 07/27/21	1 16:16						
	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	%	%		%			%	%
Chloride	50000	37400	88800	88200	103	102	1	80.0-120			0.659	15

L1381299-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1381299-01	07/27/21 16:36 • (MS) R	3684750-6 07	7/27/21 17:05	• (MSD) R36847	250-7 07/27/	21 17:15							
	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	%	%		%			%	%	
Chloride	50000	14700	66800	65300	104	101	1	80.0-120			2.19	15	
	ACCOUNT:			PRC	JECT:			SDG:		DATE	TIME:		PAGE:
	SCS Engineers - KS			272131	68.21 - G		L1	381299		08/02/2	1 08:55		7 of 11

Metals (ICP) by Method 6010B

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3686434-1 08/0	01/21 11:35			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Calcium	U		79.3	1000

Laboratory Control Sample (LCS)

(LCS) R3686434-2 08/01/21 11:37					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Calcium	10000	9560	95.6	80.0-120	

L1381299-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1381299-01 08/01/2	(OS) L1381299-01 08/01/21 11:40 • (MS) R3686434-4 08/01/21 11:45 • (MSD) R3686434-5 08/01/21 11:48											
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ua/l	ua/l	ua/l	ug/l	0/_	0/		0/			0/	%
, unally to	ugn	ug/i	uyn	ugn	/0	/0		/0			/0	70

DATE/TIME: 08/02/21 08:55

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Qualifier	Description

AI

Sc

PROJECT: 27213168.21 - G

SDG: L1381299

DATE/TIME: 08/02/21 08:55

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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

SDG: L1381299 Τс

Ss

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Sr

Qc

Gl

AI

Company Name/Address:			Billing Info	rmation:		T	T		400	hucic /	Contair	or / Dr	eservativ				Chain of Custody	Page of
SCS Engineers - KS 8575 W. 110th Street Overland Park, KS 66210			Account 8575 W.	s Payable 110th Street d Park, KS 662	210	Pres Chk	23		Ana		Contain		Servauv	<u>e</u>			0	e Analytical
Report to: Jason Franks			Email To: jfranks@so	csengineers.com;	jay.martin@e	vergy.c												a this chain of custody gment and acceptance of the
Project Description: Evergy - Montrose Generating Station		City/State Collected: /	-	se, MO	Please C PT MT	ircle:	03	Pres									Pace Terms and Condit https://info.pacelabs.c terms.pdf	ions found at: om/hubfs/pas-standard-
Phone: 913-681-0030	Client Proj 2721316	ect #		Lab Project #			250miHDPE-HNO3	125mlHDPE-NoPres									SDG # 5	81299
Collected by (print): Whit Martin	Site/Facilit	ty ID #		P.O. #		1	OmIHD	SmiHC									Acctnum: AQ	
Collected by (signature):	Sam	(Lab MUST Be to Day Five to Day 5 Day to Day 10 D	Day		lts Needed	No.	- 6010 25	- 9056									Template: T13 Prelogin: P86 PM: 206 - Jeff	1393
Packed on Ice N Y X Sample ID		ee Day	Depth	Date	Time	of Cntrs	Calcium	Chloride -									PB: Shipped Via: Remarks	Sample # (lab only)
MW-604	Gul	GW	1	Tabi	1035	2	Co X	5 X										
MW-604 MS/MSD	Grab			7/19/2	1039	2	X	x										- 187
DUPLICATE 1	Grab			7/19/21	1039	_	X	· X	-		1.							- 02-
	UIND							•		-								K
							1											
SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay	Remarks:		<u> </u>							pH . Flow		Temp Othe	in the second		COC S Bottl	eal Pr igned/ es arr	le Receipt Ch esent/Intact Accurate: ive intact:	ecklist
WW - WasteWater DW - Drinking Water OT - Other	Samples return UPS Feb	ned via: dExCourier		Track	ing # 51	5	4	43	11	5	14				Suffi	cient	tles used: volume sent; <u>If Applicab</u> adspace:	
Relinquished by : (Signature)		Date: 7/20/2	1 15	Rece	ived by: (Signa	ture)			Trip	o Blan	k Receiv	4	HCL Me	оН	Prese	rvatio	n Correct/Che <0.5 mR/hr:	cked:N
Relinquished by : (Signature)		Date:	Time	Recei	ived by: (Signa	ture)			Ten D 4	Temp: °C Bottles Received:				ed:	If pres	ervation	required by Log	in: Date/Time
Relinquished by : (Signature)		Date:	Time	4.	ived for lab by:	1	ure)	24-2	Dat 71		121	Tim	e: 831	0	Hold:			Condition: NCF

37.

Jared Morrison December 20, 2022

ATTACHMENT 1-5 November 2021 Sampling Event Laboratory Report



Pace Analytical® ANALYTICAL REPORT

December 13, 2021

SCS Engineers - KS

Sample Delivery Group: Samples Received: Project Number: Description:

L1433072 11/18/2021 27213168.21-A Evergy - Montrose Generating Station

Report To:

Jason Franks 8575 W. 110th Street Overland Park, KS 66210

Тс Ss Cn Śr Qc Gl AI Sc

Entire Report Reviewed By:

Jubb land

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

ACCOUNT: SCS Engineers - KS

PROJECT: 27213168.21-A

L1433072

SDG:

DATE/TIME: 12/13/21 08:34

PAGE: 1 of 20

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

SDG: L1433072 DATE/TIME: 12/13/21 08:34

SAMPLE SUMMARY

			Collected by	Collected date/time	Received dat	e/time
MW-601 L1433072-01 GW			Whit Martin	11/16/21 12:40	11/18/21 15:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1779293	1	11/23/21 16:55	11/23/21 17:57	VRP	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1786205	1	12/09/21 03:16	12/09/21 03:16	LBR	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1786205	100	12/09/21 03:32	12/09/21 03:32	LBR	Mt. Juliet, T
Metals (ICP) by Method 6010D	WG1787177	1	12/10/21 07:53	12/10/21 20:20	KMG	Mt. Juliet, T
			Collected by	Collected date/time	Received dat	e/time
MW-602 L1433072-02 GW			Whit Martin	11/16/21 10:55	11/18/21 15:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1779293	1	11/23/21 16:55	11/23/21 17:57	VRP	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1786205	1	12/09/21 03:48	12/09/21 03:48	LBR	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1786205	20	12/09/21 04:04	12/09/21 04:04	LBR	Mt. Juliet, T
Metals (ICP) by Method 6010D	WG1787177	1	12/10/21 07:53	12/10/21 20:23	KMG	Mt. Juliet, TI
			Collected by Whit Martin	Collected date/time 11/16/21 12:25	Received date 11/18/21 15:00	e/time
MW-603 L1433072-03 GW			white marent	11/10/21 12.20	1,10/2110.00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1779293	1	11/23/21 16:55	11/23/21 17:57	VRP	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1786205	1	12/09/21 04:29	12/09/21 04:29	LBR	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1786205	100	12/09/21 04:44	12/09/21 04:44	LBR	Mt. Juliet, T
Metals (ICP) by Method 6010D	WG1787177	1	12/10/21 07:53	12/10/21 20:31	KMG	Mt. Juliet, T
MW-604 L1433072-04 GW			Collected by Whit Martin	Collected date/time 11/16/21 13:55	Received date 11/18/21 15:00	e/time
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time	5	
Gravimetric Analysis by Method 2540 C-2011	WG1779073	1	11/23/21 13:07	11/23/21 14:10	VRP	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1786205	1	12/09/21 05:00	12/09/21 05:00	LBR	Mt. Juliet, TI
Wet Chemistry by Method 9056A	WG1786205	100	12/09/21 06:20	12/09/21 06:20	LBR	Mt. Juliet, TI
Metals (ICP) by Method 6010D	WG1787177	1	12/10/21 07:53	12/10/21 19:31	KMG	Mt. Juliet, T
			Collected by	Collected date/time	Received dat	e/time
MW-605 L1433072-05 GW			Whit Martin	11/16/21 14:40	11/18/21 15:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1779073	1	11/23/21 13:07	11/23/21 14:10	VRP	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1786205	1	12/09/21 06:35	12/09/21 06:35	LBR	Mt. Juliet, T
Wet Chemistry by Method 9056A	WG1786205	100	12/09/21 06:51	12/09/21 06:51	LBR	Mt. Juliet, T
Metals (ICP) by Method 6010D	WG1787177	1	12/10/21 07:53	12/10/21 20:34	KMG	Mt. Juliet, Tl
			Collected by	Collected date/time	Received dat	e/time
DUPLICATE L1433072-06 GW			Whit Martin	11/16/21 13:55	11/18/21 15:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
	WG1779139	1	11/23/21 14:01	11/23/21 18:14	MEU	Mt. Juliet, T
Gravimetric Analysis by Method 2540 C-2011			12/09/21 07:07	12/09/21 07:07	LBR	Mt. Juliet, T
Gravimetric Analysis by Method 2540 C-2011 Wet Chemistry by Method 9056A	WG1786205	1	12/09/21 07.07	12/00/21 01:01		
	WG1786205 WG1786205	1 100	12/09/21 07:23	12/09/21 07:23	LBR	Mt. Juliet, TI

 ACCOUNT:
 PROJECT:
 SDG:
 DATE/TIME:

 SCS Engineers - KS
 27213168.21-A
 L1433072
 12/13/21 08:34

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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.

Wubb law

Jeff Carr Project Manager



SDG: L1433072 DATE/TIME:

PAGE: 4 of 20

SAMPLE RESULTS - 01 L1433072

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch	– Cp
Analyte	mg/l		mg/l		date / time		2
Dissolved Solids	3710		50.0	1	11/23/2021 17:57	WG1779293	Tc

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
analyte	ug/l		ug/l		date / time		
hloride	36600		1000	1	12/09/2021 03:16	<u>WG1786205</u>	
Fluoride	384		150	1	12/09/2021 03:16	<u>WG1786205</u>	
Sulfate	3030000		500000	100	12/09/2021 03:32	WG1786205	

Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	ND		200	1	12/10/2021 20:20	<u>WG1787177</u>
Calcium	460000		1000	1	12/10/2021 20:20	WG1787177

Qc

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SAMPLE RESULTS - 02 L1433072

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l	mg/l		date / time		2
Dissolved Solids	1690	20.0	1	11/23/2021 17:57	WG1779293	Tc

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ss
Analyte	ug/l		ug/l		date / time		⁴ Cp
Chloride	3650		1000	1	12/09/2021 03:48	WG1786205	Cn
Fluoride	ND		150	1	12/09/2021 03:48	WG1786205	5
Sulfate	1170000		100000	20	12/09/2021 04:04	WG1786205	ິSr

Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	4090		200	1	12/10/2021 20:23	WG1787177
Calcium	292000		1000	1	12/10/2021 20:23	WG1787177

Qc

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SAMPLE RESULTS - 03 L1433072

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l	mg/		date / time		2
Dissolved Solids	2290	50.0	1	11/23/2021 17:57	<u>WG1779293</u>	¯Тс

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	[Ss
Analyte	ug/l		ug/l		date / time		4 C
Chloride	5530		1000	1	12/09/2021 04:29	WG1786205	
Fluoride	540		150	1	12/09/2021 04:29	WG1786205	5
Sulfate	1860000		500000	100	12/09/2021 04:44	WG1786205	Sr

Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	5250		200	1	12/10/2021 20:31	<u>WG1787177</u>
Calcium	370000		1000	1	12/10/2021 20:31	WG1787177

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SAMPLE RESULTS - 04 L1433072

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l	mg/		date / time		2
Dissolved Solids	2710	50.0) 1	11/23/2021 14:10	WG1779073	¯Тс

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ss
Analyte	ug/l		ug/l		date / time		4
Chloride	16300		1000	1	12/09/2021 05:00	WG1786205	
Fluoride	425		150	1	12/09/2021 05:00	<u>WG1786205</u>	5
Sulfate	1940000		500000	100	12/09/2021 06:20	WG1786205	Sr

Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	5920		200	1	12/10/2021 19:31	WG1787177
Calcium	472000	V	1000	1	12/10/2021 19:31	WG1787177

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SAMPLE RESULTS - 05 L1433072

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier RDI	Dilution	Analysis	Batch	Ср
Analyte	mg/l	mg/	l	date / time		2
Dissolved Solids	2410	50.) 1	11/23/2021 14:10	WG1779073	⁻Tc

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l		date / time	—	
hloride	46600		1000	1	12/09/2021 06:35	WG1786205	
luoride	212		150	1	12/09/2021 06:35	WG1786205	
Sulfate	1850000		500000	100	12/09/2021 06:51	WG1786205	

Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	1630		200	1	12/10/2021 20:34	WG1787177
Calcium	435000		1000	1	12/10/2021 20:34	WG1787177

Qc

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SAMPLE RESULTS - 06 L1433072

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l		date / time		2
Dissolved Solids	3050		50.0	1	11/23/2021 18:14	<u>WG1779139</u>	Тс

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l	-	date / time		4
hloride	16200		1000	1	12/09/2021 07:07	WG1786205	
luoride	444		150	1	12/09/2021 07:07	WG1786205	5
Sulfate	1940000		500000	100	12/09/2021 07:23	WG1786205	Ĭ

Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	5890		200	1	12/10/2021 20:37	WG1787177
Calcium	470000		1000	1	12/10/2021 20:37	WG1787177

Qc

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Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1433072-04,05

Method Blank (MB)

(MB) R3734195-1 11/23,	/21 14:10			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1432107-02 Original Sample (OS) • Duplicate (DUP)

1432107-02 Origi				· · · · ·			
i) L1432107-02 11/23/2	21 14:10 • (DUP) R	3734195-3 11/	/23/21 14:10	C			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	UP RPD mits	
nalyte	mg/l	mg/l		%		,	
issolved Solids	783	825	1	5.31	<u>J3</u>		

L1432321-01 Original Sample (OS) • Duplicate (DUP)

L1432321-01 Oriç	ginal Sample	e (OS) • Dup	olicate (I	OUP)			⁷ Gl
(OS) L1432321-01 11/23	3/21 14:10 • (DUP)	R3734195-4 11/	/23/21 14:10)			
	Original Res	ult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al
Analyte	mg/l	mg/l		%		%	
Dissolved Solids	1400	1550	1	9.90	<u>J3</u>	5	⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3734195-2 11/2	(LCS) R3734195-2 11/23/21 14:10						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/l	mg/l	%	%			
Dissolved Solids	8800	8340	94.8	77.4-123			

DATE/TIME: 12/13/21 08:34 Тс

Ss

Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1433072-06

Method Blank (MB)

Method Blank	(MB)				1 Cp
(MB) R3734170-1 11/2	3/21 18:14				Ср
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	Tc
Dissolved Solids	U		10.0	10.0	
					³ Ss

L1433076-01 Original Sample (OS) • Duplicate (DUP)

L1433076-01 Orig						
(OS) L1433076-01 11/23	/2118:14 • (DUP) R	3/341/0-3 11/	/23/2118:14	ŧ		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	2410	2430	1	0.723		5

L1433076-02 Original Sample (OS) • Duplicate (DUP)

L1433076-02 Or	iginal Sample	e (OS) • Du	plicate	(DUP)		
(OS) L1433076-02 11/2	23/21 18:14 • (DUP)	R3734170-4 11	1/23/21 18:1	4		
	Original Result	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	2280	2290	1	0.656		5

Laboratory Control Sample (LCS)

(LCS) R3734170-2 11/	(LCS) R3734170-2 11/23/21 18:14						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/l	mg/l	%	%			
Dissolved Solids	8800	8570	97.4	77.4-123			

DATE/TIME: 12/13/21 08:34

Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1433072-01,02,03

Method Blank (MB)

(MB) R3734199-1 11/23/2	21 17:57			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1432826-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1432826-03 11/	/23/21 17:57 • (DUF	P) R3734199-3	11/23/21 17:	57		
	Original Resu	ult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	303	322	1	6.08	<u>J3</u>	5

L1432912-05 Original Sample (OS) • Duplicate (DUP)

L1432912-05 Ori	iginal Sample	e (OS) • Du	plicate (DUP)			⁷ Gl
(OS) L1432912-05 11/2	:3/21 17:57 • (DUP)	R3734199-4 1	1/23/21 17:5	57			
	Original Result	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al
Analyte	mg/l	mg/l		%		%	
Dissolved Solids	771	783	1	1.54		5	⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3734199-2 11/2	(LCS) R3734199-2 11/23/21 17:57						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/l	mg/l	%	%			
Dissolved Solids	8800	8510	96.7	77.4-123			

DATE/TIME: 12/13/21 08:34 Тс

Ss

Cn

Sr

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY L1433072-01,02,03,04,05,06

Method Blank (MB)

(MB) R3738957-1	12/08/21 23:18

(MB) R3738957-1	12/08/21 23:18				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	ug/l		ug/l	ug/l	T
Chloride	U		379	1000	
Fluoride	U		64.0	150	³S
Sulfate	U		594	5000	Ľ

L1432919-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-22 12/09/21	00:21 • (DUP)	R3738957-3 1	2/09/210	0:37			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	
Analyte	ug/l	ug/l		%		%	
Chloride	ND	ND	1	0.000		15	
Fluoride	ND	ND	1	0.000		15	
Sulfate	ND	ND	1	0.000		15	

L1437768-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1437768-01 12/09/21 11:22 • (DUP) R3738957-8 12/09/21 12:10										
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits				
Analyte	ug/l	ug/l		%		%				
Chloride	9460	9440	1	0.147		15				
Fluoride	ND	ND	1	0.000		15				
Sulfate	ND	ND	1	0.105		15				

Laboratory Control Sample (LCS)

(LCS) R3738957-2 12/08/21 23:33										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	ug/l	ug/l	%	%						
Chloride	40000	39100	97.7	80.0-120						
Fluoride	8000	7990	99.9	80.0-120						
Sulfate	40000	39600	99.0	80.0-120						

ACCOUNT:
SCS Engineers - KS

PROJECT: 27213168.21-A

SDG: L1433072

DATE/TIME: 12/13/21 08:34

PAGE: 14 of 20 °Cn

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Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1433072-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433072-04 12/09/2	(OS) L1433072-04 12/09/21 05:00 • (MS) R3738957-4 12/09/21 05:48 • (MSD) R3738957-5 12/09/21 06:04													
	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	%	%		%			%	%		
Chloride	50000	16300	64700	64500	96.8	96.5	1	80.0-120			0.248	15		
Fluoride	5000	425	5010	5040	91.7	92.3	1	80.0-120			0.571	15		
Sulfate	50000	2010000	1980000	2000000	0.000	0.000	1	80.0-120	EV	EV	0.892	15		

L1433073-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433073-01 12/09/21 07:39 • (MS) R3738957-6 12/09/21 07:55 • (MSD) R3738957-7 12/09/21 08:11													
	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	%	%		%			%	%	
Chloride	50000	86300	130000	131000	88.1	90.1	1	80.0-120	E	E	0.779	15	
Fluoride	5000	ND	4620	4660	90.3	91.0	1	80.0-120			0.761	15	
Sulfate	50000	1680000	1680000	1680000	3.59	0.000	1	80.0-120	EV	EV	0.166	15	

ACCOUNT: SCS Engineers - KS PROJECT: 27213168.21-A

SDG: L1433072 DATE/TIME: 12/13/21 08:34 PAGE: 15 of 20 ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

Metals (ICP) by Method 6010D

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3739620-1 1	2/10/21 19:25			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Boron	U		20.0	200
Calcium	U		79.3	1000

Laboratory Control Sample (LCS)

(LCS) R3739620-2 12	2/10/21 19:28					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>CS Qualifier</u>	
Analyte	ug/l	ug/l	%	%		
Boron	1000	975	97.5	80.0-120		
Calcium	10000	9730	97.3	80.0-120		

L1433072-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433072-04 12/10/21 19:31 • (MS) R3739620-4 12/10/21 19:36 • (MSD) R3739620-5 12/10/21 19:39												⁸ Al		
	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	%	%		%			%	%	9	
Boron	1000	5920	6930	6900	101	98.3	1	75.0-125			0.429	20	SC	
Calcium	10000	472000	478000	473000	59.2	15.7	1	75.0-125	$\underline{\vee}$	$\underline{\vee}$	0.914	20		

ACCOUNT:										
SCS Engineers - KS										

SDG: L1433072 DATE/TIME: 12/13/21 08:34

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

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

PROJECT: 27213168.21-A

SDG: L1433072 DATE/TIME: 12/13/21 08:34 Τс

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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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

¹Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

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Company Name/Address:			Billing Info	ormation:			T	-			Analvsis / Con	tainer / Pres	ervative		Chain of Custor	y Page of
SCS Engineers - KS 8575 W. 110th Street Overland Park, KS 66210		Accounts Payable 8575 W. 110th Street Overland Park, KS 66210			Pres Chk		Ky -						- Pau) ce Analytical [®]		
Report to:			Email To:				-	s								
Jason Franks			jfranks@s	csengineer	s.com;j	ay.martin@e	vergy.c	Pre							Submitting a sample v	lount Juliet, TN 37122 via this chain of custody dgment and acceptance of the
Project Description: Evergy - Montrose Generating Statio	'n	City/State Collected:	Mont	rose,	MO	Please C PT MT		ION-							Pace Terms and Cond	itions found at: com/hubfs/pas-standard-
Phone: 913-681-0030	Client Project 27213168			Lab Proje	ect #	MONTROS	E	125mlHDPE-NoPres	HNO3						SDG #	1433072
Collected by (print):	Site/Facility	ID #		P.O. #					HDPE-	oPres					Table Acctnum: AQ	J106
Collected by (signature):	Same		Day	Quote #		s Needed Fd	No. of	(Cld, F, SO4)	- 6010 250mlHDPE-HNO3	250mlHDPE-NoPres					Template: T13 Prelogin: P88 PM: 206 - Jeff PB:	35966 35772
Sample ID	Comp/Grab	Matrix *	Depth	Dat		Time	Cntrs	Anions (Cld,	Ca	TDS 25					Shipped Via: F	edEX Ground Sample # (lab only)
MW-601	Grah	GW		11/1/	61	1240	3	Contraction of	° v	CONTRACTOR						-
MW-602		GW		11/10	14	IDEE	-	X	X	X						Ól
MW-603	Grab			11/10	12	1033	3	X	X	X						02
MW-604	Grab			11/61	121	1225	3	X	X	X						53
MW-605	Grab			11/161	121	1355	3	X	X	X						27
ALL MS/MSD	Orab	GW		11/16	21	1440	3	X	X	X						05
007	Orab	GW		11/16	121	1355	3	x	X	X						04
DUPLICATE	Grab	GW		11/161	121	1355	3	X	x	X						06
		1														
		1					1			No. 19						
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:	1		1							pH	Temp Other		COC Sid	Sample Receipt Ch al Present/Intact: gned/Accurate: s arrive intact:	ecklist NPYN + YN
DW - Drinking Water DT - Other		amples returned via: _ UPS FedEx Courier Tr				Tracking #				Other				Correct bottles used:		
Relinquished by : (Signature)	Di	ate: /-/7-2	LI Z	17	Receive	ed by: (Signatu	ure)			T	Trip Blank Rece	HCL	MeoH	Preserv	ro Headspace: vation Correct/Che reen <0.5 mR/hr:	ecked: $\begin{array}{c} Y \\ W \\ Y \\ W \\ N \end{array}$
Relinquished by : (Signature)	Da	ate:	Time:		Receive	d by: (Signatu	ıre)			-	emp: 2610-	°C Bottles	Received:	If preser	vation required by Log	in: Date/Time
Relinquished by : (Signature)	Da	ate:	Time:		Receive	d foolab by: (Signatu	re)		-	Date:	Time:	500	Hold:	1	Condition; NCF / DK

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	AKH	ArkH	And	之	
Temperature	2. 8±0=2.8 MKH	8:3±0=2:3 ATKH	2.6 to = 2.6 Arct	2.64n=2.6 A7KH	
<u>Tracking</u> Numbers	SWA	SWA	SWA	SWA	



Pace Analytical® ANALYTICAL REPORT

December 15, 2021

SCS Engineers - KS

Sample Delivery Group: Samples Received: Project Number: Description:

L1433073 11/18/2021 27213168.21-A Evergy - Montrose Generating Station

Report To:

Jason Franks 8575 W. 110th Street Overland Park, KS 66210

Тс Ss Cn Śr Qc Gl AI Sc

Entire Report Reviewed By:

Jubb land

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

ACCOUNT: SCS Engineers - KS

PROJECT: 27213168.21-A

L1433073

SDG:

DATE/TIME: 12/15/21 13:39 PAGE: 1 of 15

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Al: Accreditations & Locations 13	Metals (ICP) by Method 6010D	10
	GI: Glossary of Terms	12
Sc: Sample Chain of Custody 14	Al: Accreditations & Locations	13
	Sc: Sample Chain of Custody	14

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SAMPLE SUMMARY

		Collecte		Collected date/time	ne Received date/time	
MW-506 L1433073-01 GW			Whit Martin	11/16/21 14:05	11/18/21 15:00)
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1779139	1	11/23/21 14:01	11/23/21 18:14	MEU	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786205	1	12/09/21 07:39	12/09/21 07:39	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786205	100	12/09/21 08:59	12/09/21 08:59	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1788842	1	12/14/21 10:31	12/14/21 18:44	CCE	Mt. Juliet, TN

DUPLICATE L1433073-02 GW			Collected by Whit Martin	Collected date/time 11/16/21 14:05	Received dat 11/18/21 15:00	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Gravimetric Analysis by Method 2540 C-2011	WG1779139	1	11/23/21 14:01	11/23/21 18:14	MEU	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786205	1	12/09/21 09:15	12/09/21 09:15	LBR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1786205	100	12/09/21 09:30	12/09/21 09:30	LBR	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1788314	1	12/13/21 14:16	12/15/21 03:27	CCE	Mt. Juliet, TN

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Tc

SDG: L1433073

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.

ubb law

Jeff Carr Project Manager



SDG: L1433073 DATE/TIME: 12/15/21 13:39

SAMPLE RESULTS - 01 L1433073

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l		date / time		2
Dissolved Solids	2670		50.0	1	11/23/2021 18:14	WG1779139	⁻Tc

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ss
Analyte	ug/l		ug/l		date / time		⁴ C
Chloride	86300		1000	1	12/09/2021 07:39	WG1786205	Ci
Fluoride	ND		150	1	12/09/2021 07:39	WG1786205	5
Sulfate	1590000		500000	100	12/09/2021 08:59	WG1786205	٣Si

Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	ND		200	1	12/14/2021 18:44	WG1788842
Calcium	353000	V	1000	1	12/14/2021 18:44	WG1788842

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SAMPLE RESULTS - 02 L1433073

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch	— Ср
Analyte	mg/l		mg/l		date / time		2
Dissolved Solids	2700		50.0	1	11/23/2021 18:14	WG1779139	Tc

Wet Chemistry by Method 9056A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	[S
Analyte	ug/l	ducino	ug/l	Distor	date / time	Batch	4
hloride	86400		1000	1	12/09/2021 09:15	WG1786205	(
luoride	ND		150	1	12/09/2021 09:15	WG1786205	5
Sulfate	1610000		500000	100	12/09/2021 09:30	WG1786205	័ទ

Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l		date / time	
Boron	ND		200	1	12/15/2021 03:27	WG1788314
Calcium	357000		1000	1	12/15/2021 03:27	WG1788314

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WG1779139

Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY L1433073-01,02

Method Blank (MB)

(MB) R3734170-1 11/23/21 18:14							
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/l		mg/l	mg/l			
Dissolved Solids	U		10.0	10.0			

L1433076-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1433076-01 11/23/21 18:14 • (DUP) R3734170-3 11/23/21 18:14 Original Result DUP Result DUP RPD DUP Qualifier DUP RPD Limits Analyte mg/l % % Dissolved Solids 2410 2430 1 0.723 5
Analyte mg/l mg/l %

L1433076-02 Original Sample (OS) • Duplicate (DUP)

L1433076-02 Or	1433076-02 Original Sample (OS) • Duplicate (DUP)									
(OS) L1433076-02 11/23/21 18:14 • (DUP) R3734170-4 11/23/21 18:14										
	Original Resu	ult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		8		
Analyte	mg/l	mg/l		%		%		L		
Dissolved Solids	2280	2290	1	0.656		5		9		

Laboratory Control Sample (LCS)

(LCS) R3734170-2 11/23/21 18:14						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/l	mg/l	%	%		
Dissolved Solids	8800	8570	97.4	77.4-123		

DATE/TIME: 12/15/21 13:39

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WG1786205

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3738957-1	12/08/21	23:18	
		MR Result	MB

	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

L1432919-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1432919-22 12/09/2	DS) L1432919-22 12/09/21 00:21 • (DUP) R3738957-3 12/09/21 00:37											
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits						
Analyte	ug/l	ug/l		%		%						
Chloride	ND	ND	1	0.000		15						
Fluoride	ND	ND	1	0.000		15						
Sulfate	ND	ND	1	0.000		15						

L1437768-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1437768-01 12/09/2111:22 • (DUP) R3738957-8 12/09/2112:10											
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits					
Analyte	ug/l	ug/l		%		%					
Chloride	9460	9440	1	0.147		15					
Fluoride	ND	ND	1	0.000		15					
Sulfate	ND	ND	1	0.105		15					

Laboratory Control Sample (LCS)

(LCS) R3738957-2 12/08	CS) R3738957-2 12/08/21 23:33											
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier							
Analyte	ug/l	ug/l	%	%								
Chloride	40000	39100	97.7	80.0-120								
Fluoride	8000	7990	99.9	80.0-120								
Sulfate	40000	39600	99.0	80.0-120								

ACCOUNT:	
SCS Engineers - KS	

PROJECT: 27213168.21-A

SDG: L1433073 DATE/TIME: 12/15/21 13:39

PAGE: 8 of 15 ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

L1433072-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433072-04 12/09/2	(OS) L1433072-04 12/09/21 05:00 • (MS) R3738957-4 12/09/21 05:48 • (MSD) R3738957-5 12/09/21 06:04												
	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	%	%		%			%	%	
Chloride	50000	16300	64700	64500	96.8	96.5	1	80.0-120			0.248	15	
Fluoride	5000	425	5010	5040	91.7	92.3	1	80.0-120			0.571	15	
Sulfate	50000	2010000	1980000	2000000	0.000	0.000	1	80.0-120	EV	EV	0.892	15	

L1433073-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433073-01 12/09/	DS) L1433073-01 12/09/21 07:39 • (MS) R3738957-6 12/09/21 07:55 • (MSD) R3738957-7 12/09/21 08:11												
	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	%	%		%			%	%	
Chloride	50000	86300	130000	131000	88.1	90.1	1	80.0-120	E	E	0.779	15	
Fluoride	5000	ND	4620	4660	90.3	91.0	1	80.0-120			0.761	15	
Sulfate	50000	1680000	1680000	1680000	3.59	0.000	1	80.0-120	EV	EV	0.166	15	

DATE/TIME: 12/15/21 13:39

PAGE: 9 of 15 ¹ Cp ² Tc ³ Ss ⁴ Cn ⁵ Sr ⁶ Qc ⁷ Gl ⁸ Al ⁹ Sc

WG1788314

Metals (ICP) by Method 6010D

QUALITY CONTROL SUMMARY L1433073-02

Method Blank (MB)

Method Blank	(MB)				
(MB) R3740935-1 1	2/15/21 03:08				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/l		ug/l	ug/l	
Boron	U		20.0	200	
Calcium	U		79.3	1000	

Laboratory Control Sample (LCS)

(LCS) R3740935-2 12/15/	21 03:10					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	CS Qualifier	
Analyte	ug/l	ug/l	%	%		
Boron	1000	1000	100	80.0-120		
Calcium	10000	10300	103	80.0-120		

⁺Cn

Sr

Qc

GI

Â

WG1788842

Metals (ICP) by Method 6010D

QUALITY CONTROL SUMMARY

Method Blank (MB)

Method Didin	k (IVID)									
(MB) R3740819-1 12/14/21 18:39										
	MB Result	MB Qualifier	MB MDL	MB RDL						
Analyte	ug/l		ug/l	ug/l						
Boron	U		20.0	200						
Calcium	U		79.3	1000						

Laboratory Control Sample (LCS)

(LCS) R3740819-2 12/14/2	CS) R3740819-2 12/14/21 18:41												
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier								
Analyte	ug/l	ug/l	%	%									
Boron	1000	991	99.1	80.0-120									
Calcium	10000	10000	100	80.0-120									

L1433073-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433073-01 12/14/21	(OS) L1433073-01 12/14/21 18:44 • (MS) R3740819-4 12/14/21 18:50 • (MSD) R3740819-5 12/14/21 18:53												
	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	%	%		%			%	%	
Boron	1000	ND	1080	1080	98.2	98.6	1	75.0-125			0.404	20	
Calcium	10000	353000	349000	350000	0.000	0.000	1	75.0-125	$\underline{\vee}$	V	0.275	20	

L1433184-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1433184-07 12/14/21 18:55 • (MS) R3740819-6 12/14/21 18:58 • (MSD) R3740819-7 12/14/21 19:00												
	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	%	%		%			%	%
Boron	1000	1640	2630	2610	98.3	96.8	1	75.0-125			0.594	20
Calcium	10000	85300	95500	94300	102	89.8	1	75.0-125			1.32	20

PROJECT: 27213168.21-A

SDG: L1433073 DATE/TIME: 12/15/21 13:39

PAGE: 11 of 15 ¹Cn

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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).

V

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

Τс

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Cn

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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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	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.

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Company Name/Address:		1,00 (Ball of a loss)	1														
SCS Engineers - KS			Billing Info	ormation:			1.100.000		/	Analysis / Co	ntainer / F	reservati	ive		-	Chain of Custod	y Page of
8575 W. 110th Street Overland Park, KS 66210			8575 W.	ts Payable . 110th Stree d Park, KS 66		Pres Chk		J								Pau) ce Analytical
Report to: Jason Franks			Email To:	csengineers.cor	n iav martin@	avorav c	es									12065 Lebanon Rd M	ount Juliet, TN 37122
Project Description:		City/State	Please Cin			Circle:	NoPr									Pace Terms and Condi	ia this chain of custody Igment and acceptance of the tions found at: com/hubfs/pas-standard-
Evergy - Montrose Generating Stati Phone: 913-681-0030	Client Projec	:t #	montro	Lab Project #	PT MT		125mlHDPE-NoPres	03								terms.pdf	143303
,	27213168				S-MONTROS	SE	HIM	E-HN	s							- AND DESCRIPTION OF THE OWNER	J105
Collected by (print): Whit Martin	Site/Facility	ID #					HDP	oPre							Acctnum: AQ	UAOPKS	
Collected by (signature):	MartSame DayFive Day		1	F, S04)	250ml	DPE-N							Template: T16 Prelogin: P88	6717			
mediately Next Day ked on Ice N Y		ay 5 Day ay 10 D	y (Rad Only) Date Results Need		Results Needed		(Cld,	- 6010 250mlHDPE-HNO3	250mlHDPE-NoPres							PM: 206 - Jeff PB:	
		Matrix *	Depth	Date			nions	Anions	Ca	TDS 25							
/W-506	Grab	GW		11/16/51	1405	3	X	a X	×								Sample # (lab only)
AW-506 MS/MSD	Grab	GW		11/11/14	1405	3	X	X	x							<u> </u>	61
UPLICATE	Grab	GW		IIIIbh	1405	3	X	X	x								01
				1.01=1													02
																	and the second second
Matrix: S - Soil AIR - Air F - Filter SW - Groundwater B - Bioassay WW - WasteWater	Remarks:									pH	Tem Othe			COC Si	al Pre	e Receipt Ch esent/Intact: Accurate: ave intact:	ecklist NPYN YN
W - Drinking Water T - OtherSamples returned via: UPSFedExCourier elinquished by : (Signature) Date: 11/17/2				Trac	king #	- de	and the second s							Correc	t bott	les used: volume sent: If Applicabl	
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Relinquished by : (Signature)	Da	te:	Time:	Rece	ved for lab by:	(Signatu	re)		D	ate: //9/	Tim	e:	7)	Hold:		1	Condition: NCF / OK

Temperature	R. B±0=2.8 AKH	8.3 t0=2.3 ArkH	2.6 to = 2.4 Arct	2.64n=2.6 A7KH	
<u>Tracking</u> Numbers	SWA	SWA	SWA	SWA	

Jared Morrison December 20, 2022

ATTACHMENT 2 Statistical Analyses

Jared Morrison December 20, 2022

ATTACHMENT 2-1

Fall 2020 Semiannual Detection Monitoring Statistical Analyses

MEMORANDUM

March 22, 2021

To: Montrose Generating Station 400 SW Highway P Clinton, MO 64735 Evergy Metro, Inc.





RE: Determination of Statistically Significant Increases - CCR Landfill Fall 2020 Semiannual Detection Monitoring 40 CFR 257.94

Statistical analysis of monitoring data from the groundwater monitoring system for the CCR Landfill at the Montrose Generating Station has been completed in substantial compliance with the "Statistical Method Certification by A Qualified Professional Engineer" dated October 12, 2017. Detection monitoring groundwater samples were collected on November 10, 2020. Review and validation of the results from the November 2020 Detection Monitoring Event was completed on December 22, 2020, 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. Two rounds of verification sampling were conducted for certain constituents on February 3, 2021 and March 1, 2021.

The completed statistical evaluation identified one Appendix III constituent above the prediction limit established for monitoring well MW-605.

Constituent/Monitoring Well	tuent/Monitoring Well *UPL Observ		1st Verification February 3, 2021	2nd Verification March 1, 2021		
Chloride						
MW-605	55.57	59.7	59.3	58.2		

*UPL – Upper 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 a SSI above the background prediction limit for chloride at monitoring well MW-605.

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, 1st verification re-sample results (when applicable), 2nd verification re-sample results (when applicable), extra sample results for pH because pH is collected as part of the

sampling procedure, 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.

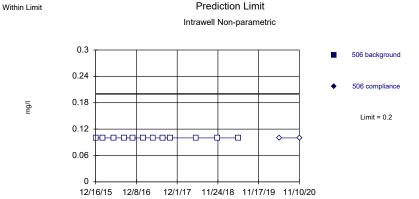
Revision Number	Revision Date	Attachment Revised	Summary of Revisions

Montrose Generating Station Determination of Statistically Significant Increases CCR Landfill March 22, 2021

ATTACHMENT 1

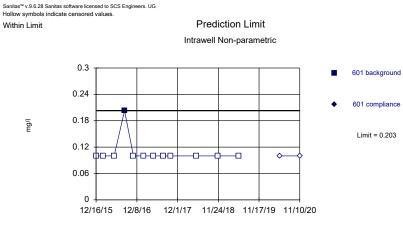
Sanitas[™] Output

Sanitas $^{\mbox{\tiny W}}$ v.9.6.28 Sanitas software licensed to SCS Engineers. UG Hollow symbols indicate censored values.



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 12) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

Prediction Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

> Constituent: Boron Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Sanitas[™] v.9.6.28 Sanitas software licensed to SCS Engineers. UG

Within Limit

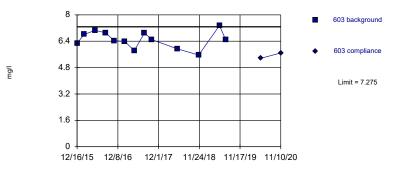
Intrawell Parametric 602 background 602 background 602 compliance 1.2 0 1.2 0 1.21.2

Background Data Summary: Mean=4.707, Std. Dev.=0.2995, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9228, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132. Report alpha = 0.00188.

Sanitas™ v.9.6.28 Sanitas software licensed to SCS Engineers. UG



Prediction Limit



Background Data Summary: Mean=6.496, Std. Dev.=0.5141, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9744, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

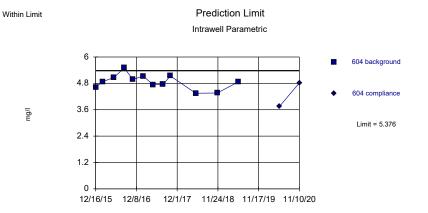
Constituent: Boron Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Constituent: Boron Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Constituent: Boron Analysis Run 3/10/2021 9:55 AM View: LF CCR III

			Montrose Gen		Client. 303 Lingi	neers Data. Mont	1056	
	506	506	601	601	602	602	603	603
12/16/2015	<0.2		<0.2		5.08		6.28	
2/16/2016	<0.2		<0.2		5.04		6.81	
5/23/2016	<0.2		<0.2		5.17		7.06	
8/22/2016	<0.2		0.203		4.62		6.91	
11/7/2016					4.84		6.43	
11/8/2016	<0.2		<0.2					
2/7/2017	<0.2		<0.2		4.62		6.39	
5/1/2017	<0.2							
5/2/2017			<0.2		4.35		5.83	
7/31/2017	<0.2		<0.2		4.63		6.9	
10/2/2017	<0.2		<0.2		4.94		6.5	
5/14/2018	<0.2		<0.2		4.39		5.94	
11/19/2018	<0.2		<0.2		4.32		5.56	
5/21/2019	<0.2		<0.2		4.48		7.35	
7/15/2019							6.49	
5/21/2020		<0.2		<0.2		4.27		5.37
11/10/2020		<0.2		<0.2		4.18		5.69

Sanitas™ v.9.6.28 Sanitas software licensed to SCS Engineers. UG



Background Data Summary: Mean=4.864, Std. Dev.=0.3316, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.011, calculated = 0.9664, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.





l/gr

Prediction Limit





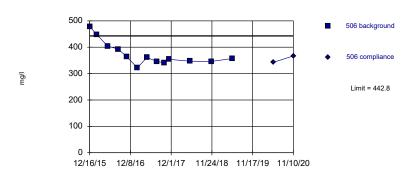
Background Data Summary: Mean=1.842, Std. Dev.=0.132, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9267, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Boron Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Boron Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Sanitas™ v.9.6.28 Sanitas software licensed to SCS Engineers. UG

Within Limit

Prediction Limit Intrawell Parametric



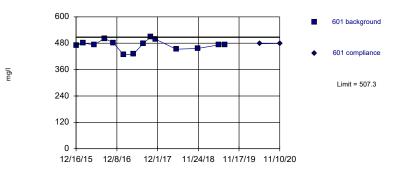
Background Data Summary: Mean=373.9, Std. Dev.=45.49, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8335, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Sanitas™ v.9.6.28 Sanitas software licensed to SCS Engineers. UG



Prediction Limit

Intrawell Parametric

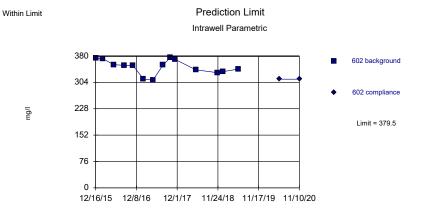


Background Data Summary: Mean=471.6, Std. Dev.=24.04, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9414, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Boron, Calcium Analysis Run 3/10/2021 9:55 AM View: LF CCR III

Montrose Generating Station UWL Client: SCS Engineers Data: Montrose 604 604 605 506 601 601 605 506 12/16/2015 4.62 479 469 12/17/2015 2.02 2/16/2016 4.88 2.03 448 481 5/23/2016 5.06 404 473 2.02 8/22/2016 5.5 1.89 393 502 11/7/2016 4.98 1.85 11/8/2016 363 481 2/7/2017 5.13 1.84 322 427 5/1/2017 361 5/2/2017 4.74 1.78 430 7/31/2017 4.75 1.74 346 480 10/2/2017 5.14 1.87 341 508 11/15/2017 498 354 5/14/2018 4.35 1.73 347 453 11/19/2018 4.36 1.68 346 456 5/21/2019 4.86 1.65 357 472 7/15/2019 472 3.76 5/21/2020 1.45 343 478 367 11/10/2020 4.82 1.47 479

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Background Data Summary: Mean=348.4, Std. Dev.=20.89, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.929, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

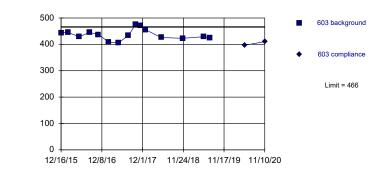




l/gr





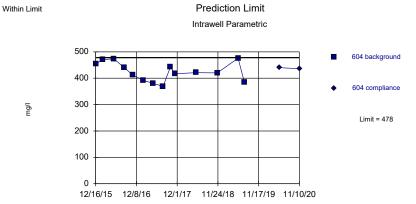


Intrawell Parametric

Background Data Summary: Mean=436.8, Std. Dev.=20.01, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9561, critical = 0.835. Kappa = 1.458 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Calcium Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

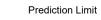
Sanitas™ v.9.6.28 Sanitas software licensed to SCS Engineers. UG



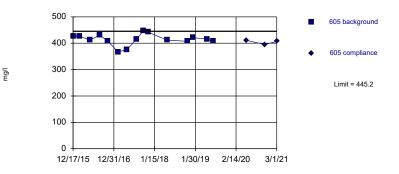
Background Data Summary: Mean=425.3, Std. Dev.=35.45, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9457, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0188.

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Intrawell Parametric

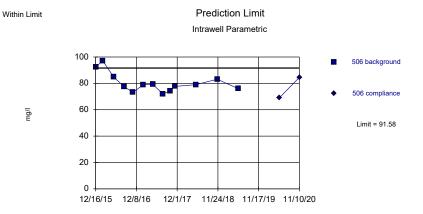


Background Data Summary: Mean=414.2, Std. Dev.=21.27, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9188, critical = 0.835. Kappa = 1.458 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 3/10/2021 9:55 AM View: LF CCR III

			Montrose Ger	ierating Station UVVL	. Client: SCS Eng	ineers Data: Mont	rose	
	602	602	603	603	604	604	605	605
12/16/2015	373		444		454			
12/17/2015							427	
2/16/2016	372		445		470		426	
5/23/2016	355		429		474		412	
8/22/2016	353		445		440		431	
11/7/2016	353		437		412		407	
2/7/2017	314		409		392		367	
5/2/2017	310		405		381		376	
7/31/2017	354		434		369		415	
10/2/2017	375		476		442		447	
11/15/2017	370		471		417		442	
12/29/2017			455					
5/14/2018	340		426		421		412	
11/19/2018	332		423		420		407	
1/10/2019	335						421	
5/21/2019	342		429		476		416	
7/15/2019			424		386		407	
5/21/2020		313		397		440		411
11/10/2020		313		410		436		395
3/1/2021								407 Extra Sample

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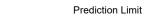


Background Data Summary: Mean=80.4, Std. Dev.=7.382, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8755, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0188.

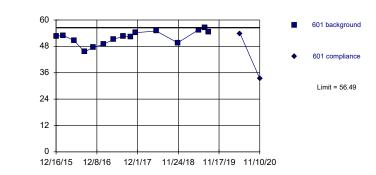




l/gr







Intrawell Parametric

Background Data Summary: Mean=51.97, Std. Dev.=3.1, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9652, critical = 0.835. Kappa = 1.458 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Chloride Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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Within Limit Prediction Limit Intrawell Parametric 602 background 602 compliance 4.2 2.8 1.4 0 1.2/16/15 12/8/16 12/1/17 11/24/18 11/17/19 11/10/20

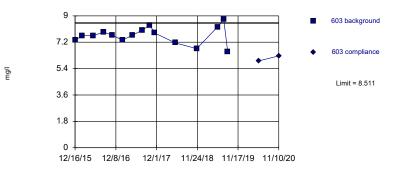
Background Data Summary (based on square root transformation): Mean=2.102, Std. Dev.=0.1238, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8603, critical = 0.855. Kappa = 1.458 (c=7), w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.





Prediction Limit

Intrawell Parametric

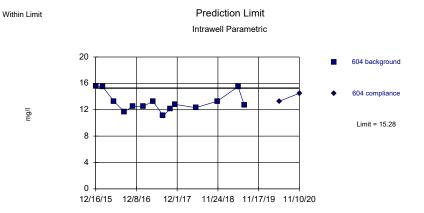


Background Data Summary: Mean=7.659, Std. Dev.=0.5838, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @aipha = 0.001, calculated = 0.9807, critical = 0.835. Kappa = 1.458 (c=7), w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 3/10/2021 9:55 AM View: LF CCR III

			Montro	se Generating Stati	on UWL Client: SC	CS Engineers Data	a: Montrose		
	506	506	601	601	602	602	603	603	
12/16/2015	92.4		52.5		4.48		7.33		
2/16/2016	97.2		53		4.38		7.65		
5/23/2016	84.7		50.6		4.29		7.64		
8/22/2016	77.5		45.5		4.65		7.9		
11/7/2016					4.35		7.67		
11/8/2016	73.1		47.5						
2/7/2017	79		49		4.04		7.35		
5/1/2017	79.2								
5/2/2017			51.1		4.69		7.67		
7/31/2017	71.9		52.7		4.28		8.03		
10/2/2017	74.4		52.4		6.06		8.37		
11/15/2017	77.7		54.2		4.93		7.83		
12/29/2017					4.44				
5/14/2018	79		55		4.14		7.16		
11/19/2018	83.1		49.6		3.97		6.76		
1/10/2019					3.71				
5/21/2019	76		55.5		4.11		8.24		
7/15/2019			56.5				8.75		
8/19/2019			54.5				6.54		
5/21/2020		69.3		53.8		3.99		5.93	
11/10/2020		84.5		33.4		3.77		6.27	

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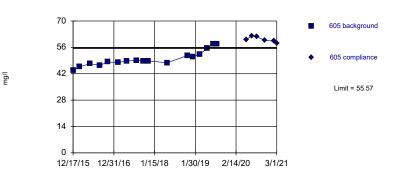


Background Data Summary: Mean=13.16, Std. Dev.=1.425, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8723, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.





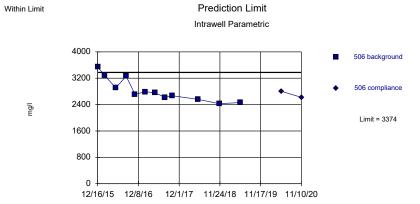


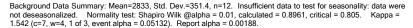


Background Data Summary: Mean=49.93, Std. Dev.=3.99, n=17. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.904, critical = 0.851. Kappa = 1.413 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0188.

Constituent: Chloride Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Chloride Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

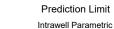
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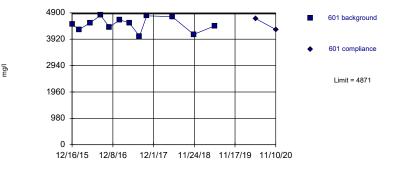




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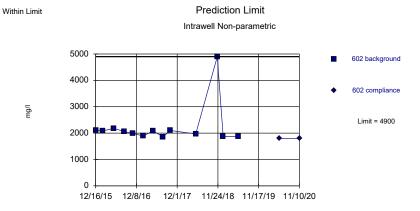


Background Data Summary: Mean=4477, Std. Dev.=255.5, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9477, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride, Dissolved Solids Analysis Run 3/10/2021 9:55 AM View: LF CCR III

			Montro	se Generating Static	DI UVVL Client. 30	S Engineers Data	a. WORLOSE		
	604	604	605	605	506	506	601	601	
12/16/2015	15.6				3540		4470		
12/17/2015			43.9						
2/16/2016	15.5		45.7		3280		4280		
5/23/2016	13.3		47.3		2910		4530		
8/22/2016	11.7		46.5		3260		4810		
11/7/2016	12.5		48.2						
11/8/2016					2710		4370		
2/7/2017	12.5		48		2790		4640		
5/1/2017					2760				
5/2/2017	13.3		48.7				4530		
7/31/2017	11.1		49.1		2620		4030		
10/2/2017	12.1		48.7		2670		4790		
11/15/2017	12.8		48.8						
5/14/2018	12.3		47.8		2560		4760		
11/19/2018	13.3		51.7		2430		4100		
1/10/2019			50.9						
3/13/2019			52.4						
5/21/2019	15.5		55.4		2460		4410		
7/15/2019	12.7		57.8						
8/19/2019			57.9						
5/21/2020		13.3		60.2		2800		4680	
7/14/2020				62.1 1st \	/erification				
8/26/2020				61.6 2nd \	/erification				
11/10/2020		14.5		59.7		2620		4280	
2/3/2021				59.3 1st V	erification				
3/1/2021				58.2 2nd V	/erification				

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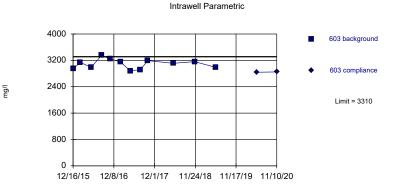


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.003769. Individual comparison alpha = 0.001886 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Dissolved Solids Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Sanitas™ v.9.6.28 Sanitas software licensed to SCS Engineers. UG

Within Limit

Prediction Limit



Background Data Summary: Mean=3088, Std. Dev.=143.6, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9528, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

> Constituent: Dissolved Solids Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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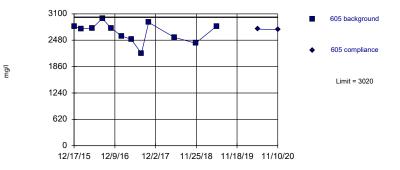
Within Limit Prediction Limit Intrawell Parametric 4000 4000 2400 4000 2400 1600 1600 1600 1600 1600 1600 1600 1600 1600 1601 1711 17124/18 11/17/19 11/10/20

Background Data Summary: Mean=2648, Std. Dev.=331.5, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9778, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0188.

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Within Limit

Prediction Limit



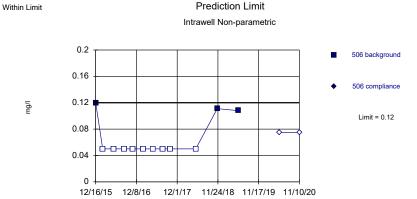
Background Data Summary: Mean=2665, Std. Dev.=230.2, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9421, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Dissolved Solids Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Constituent: Dissolved Solids Analysis Run 3/10/2021 9:55 AM View: LF CCR III

			World G	se denorating etall		5 Eligineero Dat			
	602	602	603	603	604	604	605	605	
12/16/2015	2100		2940		2820				
12/17/2015							2800		
2/16/2016	2080		3140		2690		2750		
5/23/2016	2180		2990		3010		2760		
8/22/2016	2060		3350		2890		2990		
11/7/2016	1990		3240		2270		2760		
2/7/2017	1890		3150		2670		2580		
5/2/2017	2080		2880		2350		2500		
7/31/2017	1860		2920		2070		2170		
10/2/2017	2100		3190		2570		2900		
5/14/2018	1970		3110		2820		2550		
11/19/2018	4900		3160		2320		2410		
1/10/2019	1870								
5/21/2019	1870		2990		3270		2810		
7/15/2019					2680				
5/21/2020		1800		2840		2780		2740	
11/10/2020		1800		2850		2790		2730	

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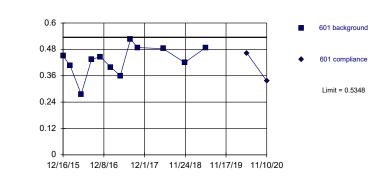


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized. Sanitas™ v.9.6.28 Sanitas software licensed to SCS Engineers. UG

Within Limit

l/gm

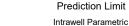
Prediction Limit



Background Data Summary: Mean=0.4313, Std. Dev.=0.06712, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9364, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Fluoride Analysis Run 3/10/2021 9:51 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Fluoride Analysis Run 3/10/2021 9:52 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Sanitas^w v.9.6.28 Sanitas software licensed to SCS Engineers. UG Hollow symbols indicate censored values. Within Limit

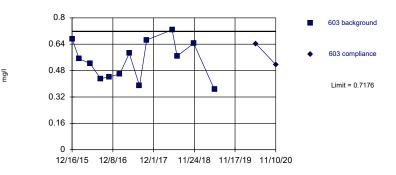


602 background 0.16 0.12 0.08 0.04 0.12/16/15 12/8/16 12/1/17 11/24/18 11/17/19 11/10/20

Background Data Summary (after Aitchison's Adjustment): Mean=0.07108, Std. Dev.=0.06358, n=12, 41.67% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8063, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188. Sanitas™ v.9.6.28 Sanitas software licensed to SCS Engineers. UG



Prediction Limit Intrawell Parametric

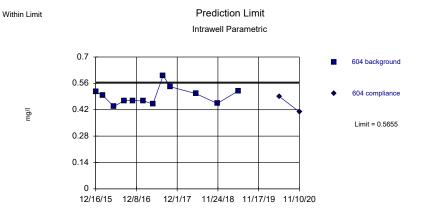


Background Data Summary: Mean=0.5403, Std. Dev.=0.1171, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9546, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Fluoride Analysis Run 3/10/2021 9:55 AM View: LF CCR III

	506	506	601	601	602	602	603	603			
12/16/2015	0.12		0.45		0.148		0.673				
2/16/2016	<0.1		0.406		<0.1		0.552				
5/23/2016	<0.1		0.276		<0.1		0.523				
8/22/2016	<0.1		0.435		0.114		0.431				
11/7/2016					<0.1		0.442				
11/8/2016	<0.1		0.446								
2/7/2017	<0.1		0.399		<0.1		0.459				
5/1/2017	<0.1										
5/2/2017			0.36		0.122		0.585				
7/31/2017	<0.1		0.526		0.116		0.388				
10/2/2017	<0.1		0.488		0.108		0.666				
5/14/2018	<0.1		0.483		0.113		0.727				
6/26/2018							0.568				
11/19/2018	0.111		0.42		<0.1		0.645				
5/21/2019	0.108		0.487		0.132		0.365				
5/21/2020		<0.15		0.462		<0.15		0.642			
11/10/2020		<0.15		0.336		<0.15		0.516			

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Background Data Summary: Mean=0.4936, Std. Dev.=0.04663, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9142, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05123). Report alpha = 0.00188.

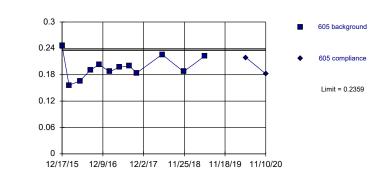
Sanitas™ v.9.6.28 Sanitas software licensed to SCS Engineers. UG

Within Limit

l/gr

Prediction Limit





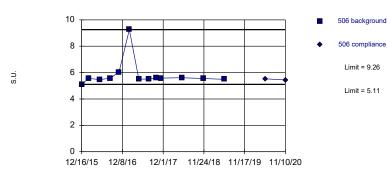
Background Data Summary: Mean=0.1971, Std. Dev.=0.02515, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9677, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Fluoride Analysis Run 3/10/2021 9:52 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Fluoride Analysis Run 3/10/2021 9:52 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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Within Limits

Prediction Limit Intrawell Non-parametric

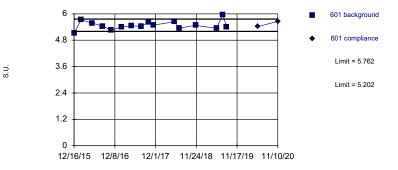


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 13 background values. Well-constituent pair annual alpha = 0.007539. Individual comparison alpha = 0.003773 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

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Within Limits

Prediction Limit Intrawell Parametric

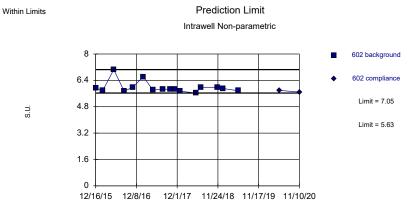


Background Data Summary: Mean=5.482, Std. Dev.=0.1956, n=16. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9558, critical = 0.844. Kappa = 1.43 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

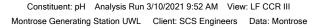
Constituent: Fluoride, pH Analysis Run 3/10/2021 9:55 AM View: LF CCR III

			Montro	se Generating Static	n UWL Client: SC	CS Engineers Da	ata: Montrose		
	604	604	605	605	506	506	601	601	
12/16/2015	0.515				5.11		5.12		
12/17/2015			0.246						
2/16/2016	0.497		0.156		5.56		5.73		
5/23/2016	0.437		0.166		5.47		5.58		
8/22/2016	0.468		0.191		5.57		5.44		
11/7/2016	0.468		0.203						
11/8/2016					6.04		5.26		
2/7/2017	0.467		0.187		9.26		5.41		
5/1/2017					5.51				
5/2/2017	0.45		0.197				5.45		
7/31/2017	0.601		0.2		5.51		5.44		
10/2/2017	0.542		0.184		5.59		5.61		
11/15/2017					5.58		5.49		
5/14/2018	0.506		0.226		5.61		5.64		
6/26/2018							5.35		
11/19/2018	0.453		0.187		5.55		5.48		
5/21/2019	0.519		0.222		5.49		5.34		
7/15/2019							5.96		
8/19/2019							5.41		
5/21/2020		0.489		0.219		5.53		5.42	
11/10/2020		0.409		0.182		5.44		5.66	

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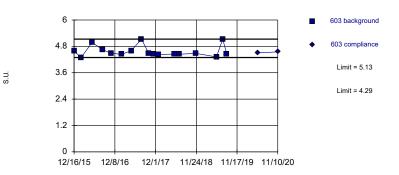
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 16 background values. Well-constituent pair annual alpha = 0.004102. Individual comparison alpha = 0.002052 (1 of 3). Insufficient data to test for seasonalized.



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Within Limits

Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 17 background values. Well-constituent pair annual alpha = 0.003639. Individual comparison alpha = 0.00182 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: pH Analysis Run 3/10/2021 9:52 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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Within Limits

S.U

Prediction Limit Intrawell Parametric

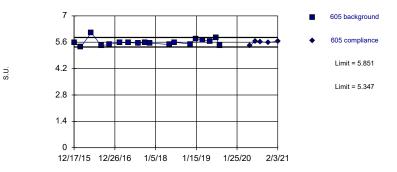


Background Data Summary: Mean=5.848, Std. Dev.=0.2249, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8937, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

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Prediction Limit Intrawell Parametric

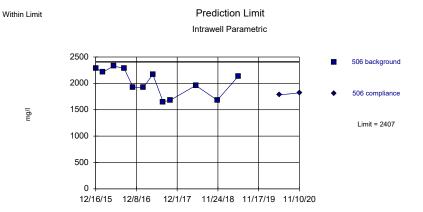


Background Data Summary: Mean=5.599, Std. Dev.=0.1804, n=18. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8888, critical = 0.858. Kappa = 1.396 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 3/10/2021 9:55 AM View: LF CCR III

			Montro	se Generating Stati	on UWL Client: SC	S Engineers Data	a: Montrose			
	602	602	603	603	604	604	605	605		
12/16/2015	5.93		4.58		5.79					
12/17/2015							5.57			
2/16/2016	5.78		4.29		5.51		5.34			
5/23/2016	7.05		4.98		6.3		6.11			
8/22/2016	5.74		4.65		5.67		5.42			
11/7/2016	5.99		4.48		6.04		5.49			
2/7/2017	6.62		4.44		6.1		5.58			
5/2/2017	5.81		4.6		5.72		5.58			
7/31/2017	5.87		5.13		5.82		5.55			
10/2/2017	5.86		4.48		5.72		5.58			
11/15/2017	5.87		4.44		5.73		5.55			
12/29/2017	5.74		4.43							
5/14/2018	5.63		4.45		5.7		5.48			
6/26/2018	5.98		4.44				5.6			
11/19/2018	5.98		4.48		5.75		5.5			
1/10/2019	5.9						5.79			
3/13/2019							5.73			
5/21/2019	5.77		4.32		5.82		5.64			
7/15/2019			5.13		6.2		5.85			
8/19/2019			4.46				5.42			
5/21/2020		5.79		4.5		5.54		5.42		
7/14/2020								5.66 Extra	Sample	
8/26/2020								5.62 Extra	Sample	
11/10/2020		5.69		4.55		5.58		5.58		
2/3/2021									Sample	
								5.96 Extra	a Sample	

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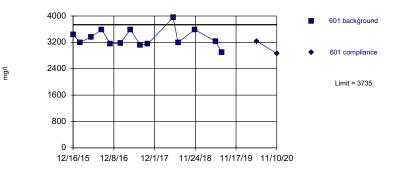


Background Data Summary: Mean=2019, Std. Dev.=251.7, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8935, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0188.



Within Limit

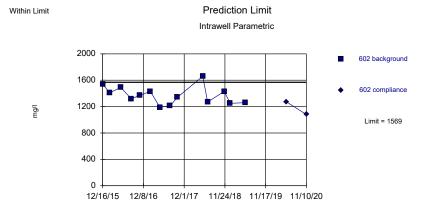
Prediction Limit



Background Data Summary: Mean=3331, Std. Dev.=272, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9196, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 3/10/2021 9:52 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Sulfate Analysis Run 3/10/2021 9:52 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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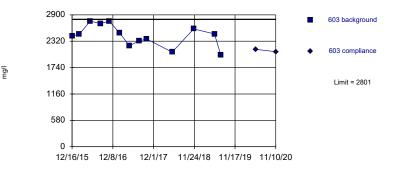


Background Data Summary: Mean=1369, Std. Dev.=134.2, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.956, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

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Within Limit

Prediction Limit

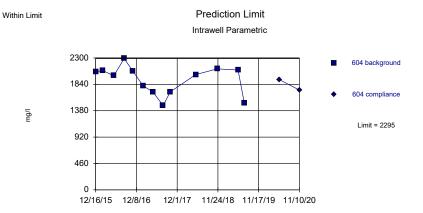


Background Data Summary: Mean=2441, Std. Dev =237.6, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9483, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 3/10/2021 9:55 AM View: LF CCR III

	Monitose denerating officient over Crient, SCO Engineers Data, Monitose								
		506	506	601	601	602	602	603	603
12/16	/2015	2290		3430		1540		2440	
2/16/2	2016	2210		3200		1410		2470	
5/23/2	2016	2330		3360		1490		2760	
8/22/2	2016	2280		3590		1320		2710	
11/7/2	2016					1370		2760	
11/8/2	2016	1930		3160					
2/7/20)17	1920		3180		1430		2500	
5/1/20)17	2170							
5/2/20)17			3590		1190		2220	
7/31/2	2017	1650		3110		1210		2330	
10/2/2	2017	1680		3150		1340		2370	
5/14/2	2018	1960		3950		1660		2080	
6/26/2	2018			3190		1270			
11/19	/2018	1680		3590		1430		2590	
1/10/2	2019					1250			
5/21/2	2019	2130		3230		1260		2480	
7/15/2	2019			2900				2020	
5/21/2	2020		1780		3230		1270		2140
11/10	/2020		1820		2860		1080		2090

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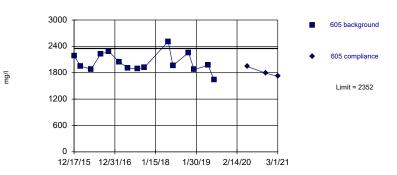


Background Data Summary: Mean=1916, Std. Dev.=250.6, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9059, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

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Prediction Limit Intrawell Parametric



Background Data Summary: Mean=2033, Std. Dev.=218.7, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9344, critical = 0.835. Kappa = 1.458 (c=7), w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0188.

Constituent: Sulfate Analysis Run 3/10/2021 9:52 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Sulfate Analysis Run 3/10/2021 9:52 AM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Constituent: Sulfate Analysis Run 3/10/2021 9:55 AM View: LF CCR III

	604	604	605	605	
12/16/2015	2060				
12/17/2015			2180		
2/16/2016	2080		1950		
5/23/2016	1990		1880		
8/22/2016	2290		2230		
11/7/2016	2070		2280		
2/7/2017	1810		2050		
5/2/2017	1710		1910		
7/31/2017	1470		1890		
10/2/2017	1710		1920		
5/14/2018	2010		2510		
6/26/2018			1960		
11/19/2018	2110		2260		
1/10/2019			1870		
5/21/2019	2090		1970		
7/15/2019	1510		1640		
5/21/2020		1920		1940	
11/10/2020		1740		1790	
3/1/2021				1720	Extra Sample

Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Printed 3/10/2021, 9:55 AM

		Montrose	Generating Sta	ation UWL	Client: SCS Engine	eers Data:	Montro	ose F	rinted 3/10/	2021, 9:55 AM		
Constituent	Well	<u>Upper Lim.</u>	Lower Lim.	Date		Observ.	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	Method
Boron (mg/l)	506	0.2	n/a	11/10/202	20	0.1ND	No	12	100	n/a	0.002173	NP Intra (NDs) 1 of 3
Boron (mg/l)	601	0.203	n/a	11/10/202	20	0.1ND	No	12	91.67	n/a	0.002173	NP Intra (NDs) 1 of 3
Boron (mg/l)	602	5.168	n/a	11/10/202	20	4.18	No	12	0	No	0.00188	Param Intra 1 of 3
Boron (mg/l)	603	7.275	n/a	11/10/202	20	5.69	No	13	0	No	0.00188	Param Intra 1 of 3
Boron (mg/l)	604	5.376	n/a	11/10/202	20	4.82	No	12	0	No	0.00188	Param Intra 1 of 3
Boron (mg/l)	605	2.045	n/a	11/10/202	20	1.47	No	12	0	No	0.00188	Param Intra 1 of 3
Calcium (mg/l)	506	442.8	n/a	11/10/202	20	367	No	13	0	No	0.00188	Param Intra 1 of 3
Calcium (mg/l)	601	507.3	n/a	11/10/202	20 -	479	No	14	0	No	0.00188	Param Intra 1 of 3
Calcium (mg/l)	602	379.5	n/a	11/10/202	20	313	No	14	0	No	0.00188	Param Intra 1 of 3
Calcium (mg/l)	603	466	n/a	11/10/202	20 -	410	No	15	0	No	0.00188	Param Intra 1 of 3
Calcium (mg/l)	604	478	n/a	11/10/202	20 -	436	No	14	0	No	0.00188	Param Intra 1 of 3
Calcium (mg/l)	605	445.2	n/a	3/1/2021		407	No	15	0	No	0.00188	Param Intra 1 of 3
Chloride (mg/l)	506	91.58	n/a	11/10/202	20	84.5	No	13	0	No	0.00188	Param Intra 1 of 3
Chloride (mg/l)	601	56.49	n/a	11/10/202	20	33.4	No	15	0	No	0.00188	Param Intra 1 of 3
Chloride (mg/l)	602	5.212	n/a	11/10/202	20	3.77	No	15	0	sqrt(x)	0.00188	Param Intra 1 of 3
Chloride (mg/l)	603	8.511	n/a	11/10/202	20	6.27	No	15	0	No	0.00188	Param Intra 1 of 3
Chloride (mg/l)	604	15.28	n/a	11/10/202	20	14.5	No	14	0	No	0.00188	Param Intra 1 of 3
Chloride (mg/l)	605	55.57	n/a	3/1/2021		58.2	Yes	17	0	No	0.00188	Param Intra 1 of 3
Dissolved Solids (mg/l)	506	3374	n/a	11/10/202	20	2620	No	12	0	No	0.00188	Param Intra 1 of 3
Dissolved Solids (mg/l)	601	4871	n/a	11/10/202	20	4280	No	12	0	No	0.00188	Param Intra 1 of 3
Dissolved Solids (mg/l)	602	4900	n/a	11/10/202	20	1800	No	13	0	n/a	0.001886	NP Intra (normality)
Dissolved Solids (mg/l)	603	3310	n/a	11/10/202	20	2850	No	12	0	No	0.00188	Param Intra 1 of 3
Dissolved Solids (mg/l)	604	3150	n/a	11/10/202	20	2790	No	13	0	No	0.00188	Param Intra 1 of 3
Dissolved Solids (mg/l)	605	3020	n/a	11/10/202	20	2730	No	12	0	No	0.00188	Param Intra 1 of 3
Fluoride (mg/l)	506	0.12	n/a	11/10/202	20	0.075ND	No	12	75	n/a	0.002173	NP Intra (NDs) 1 of 3
Fluoride (mg/l)	601	0.5348	n/a	11/10/202	20	0.336	No	12	0	No	0.00188	Param Intra 1 of 3
Fluoride (mg/l)	602	0.1691	n/a	11/10/202	20	0.075ND	No	12	41.67	No	0.00188	Param Intra 1 of 3
Fluoride (mg/l)	603	0.7176	n/a	11/10/202	20	0.516	No	13	0	No	0.00188	Param Intra 1 of 3
Fluoride (mg/l)	604	0.5655	n/a	11/10/202	20	0.409	No	12	0	No	0.00188	Param Intra 1 of 3
Fluoride (mg/l)	605	0.2359	n/a	11/10/202	20	0.182	No	12	0	No	0.00188	Param Intra 1 of 3
pH (S.U.)	506	9.26	5.11	11/10/202	20	5.44	No	13	0	n/a	0.003773	NP Intra (normality)
pH (S.U.)	601	5.762	5.202	11/10/202	20	5.66	No	16	0	No	0.000	Param Intra 1 of 3
pH (S.U.)	602	7.05	5.63	11/10/202	20	5.69	No	16	0	n/a	0.002052	NP Intra (normality)
pH (S.U.)	603	5.13	4.29	11/10/202	20	4.55	No	17	0	n/a	0.00182	NP Intra (normality)
pH (S.U.)	604	6.182	5.514	11/10/202	20	5.58	No	14	0	No	0.000	Param Intra 1 of 3
pH (S.U.)	605	5.851	5.347	2/3/2021		5.66	No	18	0	No	0.000	Param Intra 1 of 3
Sulfate (mg/l)	506	2407	n/a	11/10/202	20	1820	No	12	0	No	0.00188	Param Intra 1 of 3
Sulfate (mg/l)	601	3735	n/a	11/10/202	20	2860	No	14	0	No	0.00188	Param Intra 1 of 3
Sulfate (mg/l)	602	1569	n/a	11/10/202	20	1080	No	14	0	No	0.00188	Param Intra 1 of 3
Sulfate (mg/l)	603	2801	n/a	11/10/202	20	2090	No	13	0	No	0.00188	Param Intra 1 of 3
Sulfate (mg/l)	604	2295	n/a	11/10/202	20	1740	No	13	0	No	0.00188	Param Intra 1 of 3
Sulfate (mg/l)	605	2352	n/a	3/1/2021		1720	No	15	0	No	0.00188	Param Intra 1 of 3

Montrose Generating Station Determination of Statistically Significant Increases CCR Landfill March 22, 2021

ATTACHMENT 2

Sanitas[™] Configuration Settings

Data	Output	Trend Test	Control Cht	Prediction Lim	Tolerance Lim	Conf/Tol Int	ANOVA	Welchs	Other Tests
Exclud	le data flag	s: i							
Data	Reading O	ptions							
🔘 In	ndividual Ob	oservations							
\bigcirc M	lean of Eac	:h:	O Month						
\bigcirc M	ledian of Ea	ach:	Seasor	n					
Setup	Seasons	ace Handling. Process Resa							

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														
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 Automatically Remove Outliers (Parametric test only)														
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.														

Data	Output	Trend Test	Control Cht	Prediction Lim	Tolerance Lim	Conf/Tol Int	ANOVA	Welchs	Other Tests		
⊡ Use		netric Test wh	apiro-Wilk/Fra nen Non-Dete	cts Percent > 5	Use Specific Transformation:						
_			Use Aitchise	etects Percent > on's v w		15 Natural nen NDs % > 50 Use Best W Statistic					
Use	Poisson Pr	ediction Limit	when Non-De	etects Percent >	90		Plot Transfo	ormed Value	es		
If If If A Facility Statist Constri Down Sampli	Seasonality Seasonality Iways (Whe Iways Use / α ical Evalua tuents Anal gradient (Co ing Plan	en Sufficient E Non-Parametr tions per Year yzed: ompliance) Wo	Or Insufficient Data) O ic r: ells:	to Test Never	Plot Ba Override St Override D Automa 2-Taileo Show D Non-Paramo	Background Tr ckground Data andard Deviati F:	a ion: Dvenide Kap Backgroun Backgroun a Lighter Highest Bac	ppa:			
01	of 1 C	ividual Obsen) 1 of 2 (ified California	1 of 3	✓ 1 of 4	 Highest Most R 	t/Second High lecent PQL if a lecent Backgro	est Backgro vailable, or	ound Value MDL			

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 $\alpha = 0.05 \lor$ or if n > 22 \lor Rosner's at $\alpha = 0.01 \lor$ Use EPA Screening to establish Suspected Outliers												
O 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 \checkmark at Alpha = 0.1 \checkmark												
Stop if Non-Normal												
Continue with Parametric Test if Non-Normal												
○ Tukey's if Non-Normal, with IQR Multiplier = 3.0												
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 Label Axes												
Use Default Constituent Names Note Cation-Anion Balance (Piper only)												
O Use Constituent Definition File Edit												

ATTACHMENT 2-2

Spring 2021 Semiannual Detection Monitoring Statistical Analyses

MEMORANDUM

October 5, 2021

To: Montrose Generating Station 400 SW Highway P Clinton, MO 64735 Evergy Metro, Inc.



From: SCS Engineers

RE: Determination of Statistically Significant Increases - CCR Landfill Spring 2021 Semiannual Detection Monitoring 40 CFR 257.94

Statistical analysis of monitoring data from the groundwater monitoring system for the CCR Landfill at the Montrose Generating Station has been completed in substantial compliance with the "Statistical Method Certification by A Qualified Professional Engineer" dated October 12, 2017. Detection monitoring groundwater samples were collected on May 17 and May 18, 2021. Review and validation of the results from the May 2021 Detection Monitoring Event was completed on July 27, 2021, 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. One round of verification sampling was conducted for certain constituents on July 19, 2021.

Determination: A statistical evaluation was completed for all Appendix III detection monitoring constituents in accordance with the certified statistical method. The statistical evaluation did not identify any SSIs above background.

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, 1st verification re-sample results (when applicable), 2nd verification re-sample results (when applicable), extra sample results for pH because pH is collected as part of the sampling procedure, 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.

Montrose Generating Station Determination of Statistically Significant Increases CCR Landfill October 5, 2021 Page 2 of 2

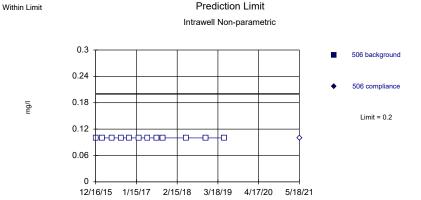
Revision Number	Revision Date	Attachment Revised	Summary of Revisions

Montrose Generating Station Determination of Statistically Significant Increases CCR Landfill October 5, 2021

ATTACHMENT 1

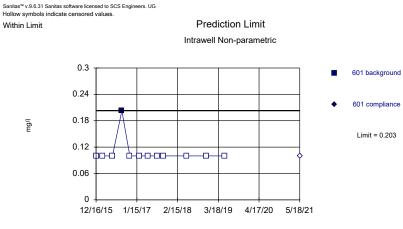
Sanitas[™] Output

Sanitas $^{\rm vw}$ v.9.6.31 Sanitas software licensed to SCS Engineers. UG Hollow symbols indicate censored values.



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 12) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

Prediction Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

> Constituent: Boron Analysis Run 9/13/2021 2:04 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Sanitas[™] v.9.6.31 Sanitas software licensed to SCS Engineers. UG

Within Limit

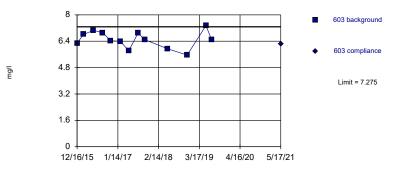
Intrawell Parametric 602 background 602 background 602 compliance 602 compliance 1.2 0 1.21.2

Background Data Summary: Mean=4.707, Std. Dev.=0.2995, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9228, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132. Report alpha = 0.00188.

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Prediction Limit Intrawell Parametric



Background Data Summary: Mean=6.496, Std. Dev.=0.5141, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9744, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

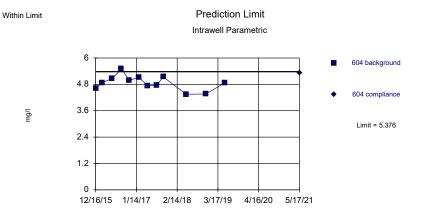
Constituent: Boron Analysis Run 9/13/2021 2:04 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Constituent: Boron Analysis Run 9/13/2021 2:04 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Constituent: Boron Analysis Run 9/13/2021 2:40 PM View: LF CCR III

Wolliuse Generaling Station own Client. SCS Englineers Data. Molitose													
	506	506	601	601	602	602	603	603					
12/16/2015	<0.2		<0.2		5.08		6.28						
2/16/2016	<0.2		<0.2		5.04		6.81						
5/23/2016	<0.2		<0.2		5.17		7.06						
8/22/2016	<0.2		0.203		4.62		6.91						
11/7/2016					4.84		6.43						
11/8/2016	<0.2		<0.2										
2/7/2017	<0.2		<0.2		4.62		6.39						
5/1/2017	<0.2												
5/2/2017			<0.2		4.35		5.83						
7/31/2017	<0.2		<0.2		4.63		6.9						
10/2/2017	<0.2		<0.2		4.94		6.5						
5/14/2018	<0.2		<0.2		4.39		5.94						
11/19/2018	<0.2		<0.2		4.32		5.56						
5/21/2019	<0.2		<0.2		4.48		7.35						
7/15/2019							6.49						
5/17/2021						4.17		6.22					
5/18/2021		<0.2		<0.2									

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Background Data Summary: Mean=4.864, Std. Dev.=0.3316, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.011, calculated = 0.9664, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

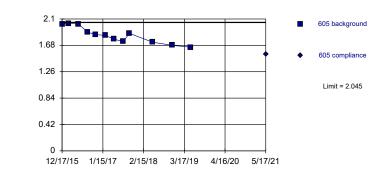


Within Limit

l/gr

Prediction Limit





Background Data Summary: Mean=1.842, Std. Dev.=0.132, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9267, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Boron Analysis Run 9/13/2021 2:04 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Prediction Limit

Constituent: Boron Analysis Run 9/13/2021 2:04 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Sanitas[™] v.9.6.31 Sanitas software licensed to SCS Engineers. UG

Within Limit

Intrawell Parametric 500 506 background 506 compliance Limit = 442.8 12/16/15 1/15/17 2/15/18 3/18/19 4/17/20 5/18/21

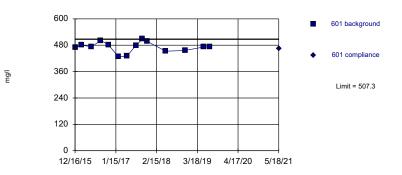
Background Data Summary: Mean=373.9, Std. Dev.=45.49, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8335, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0188.

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Prediction Limit

Intrawell Parametric

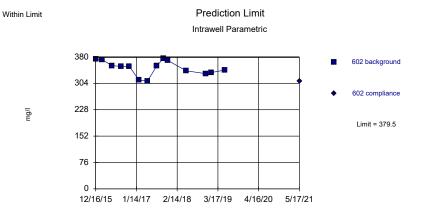


Background Data Summary: Mean=471.6, Std. Dev.=24.04, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9414, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Boron, Calcium Analysis Run 9/13/2021 2:40 PM View: LF CCR III

	Montrose Generating Station OWL Chent. SCS Engineers Data. Montrose												
	604	604	605	605	506	506	601	601					
12/16/2015	4.62				479		469						
12/17/2015			2.02										
2/16/2016	4.88		2.03		448		481						
5/23/2016	5.06		2.02		404		473						
8/22/2016	5.5		1.89		393		502						
11/7/2016	4.98		1.85										
11/8/2016					363		481						
2/7/2017	5.13		1.84		322		427						
5/1/2017					361								
5/2/2017	4.74		1.78				430						
7/31/2017	4.75		1.74		346		480						
10/2/2017	5.14		1.87		341		508						
11/15/2017					354		498						
5/14/2018	4.35		1.73		347		453						
11/19/2018	4.36		1.68		346		456						
5/21/2019	4.86		1.65		357		472						
7/15/2019							472						
5/17/2021		5.32		1.54									
5/18/2021						375		466					

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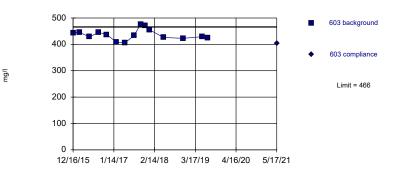


Background Data Summary: Mean=348.4, Std. Dev.=20.89, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.929, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.



Within Limit

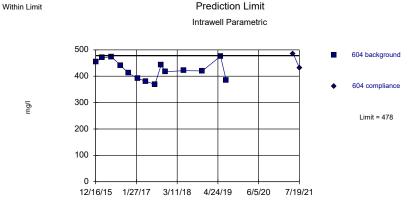
Prediction Limit



Background Data Summary: Mean=436.8, Std. Dev.=20.01, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9561, critical = 0.835. Kappa = 1.458 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Calcium Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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Background Data Summary: Mean=425.3, Std. Dev.=35.45, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9457, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0188.





Prediction Limit Intrawell Parametric

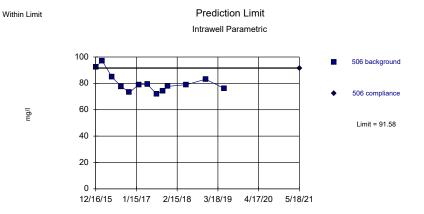


Background Data Summary: Mean=414.2, Std. Dev.=21.27, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9188, critical = 0.835. Kappa = 1.458 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 9/13/2021 2:40 PM View: LF CCR III

	602	602	603	603	604	604	605	605					
12/16/2015	373		444		454								
12/17/2015							427						
2/16/2016	372		445		470		426						
5/23/2016	355		429		474		412						
8/22/2016	353		445		440		431						
11/7/2016	353		437		412		407						
2/7/2017	314		409		392		367						
5/2/2017	310		405		381		376						
7/31/2017	354		434		369		415						
10/2/2017	375		476		442		447						
11/15/2017	370		471		417		442						
12/29/2017			455										
5/14/2018	340		426		421		412						
11/19/2018	332		423		420		407						
1/10/2019	335						421						
5/21/2019	342		429		476		416						
7/15/2019			424		386		407						
5/17/2021		311		403		486		420					
7/19/2021						432							

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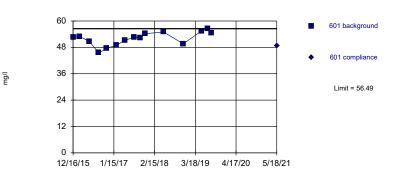
Background Data Summary: Mean=80.4, Std. Dev.=7.382, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8755, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0188.





Prediction Limit





Intrawell Parametric

Background Data Summary: Mean=51.97, Std. Dev=3.1, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9652, critical = 0.835. Kappa = 1.458 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

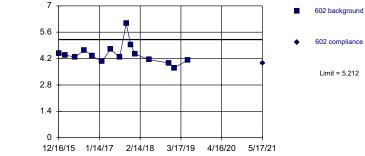
Constituent: Chloride Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Chloride Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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Within Limit

ng/l

Prediction Limit Intrawell Parametric

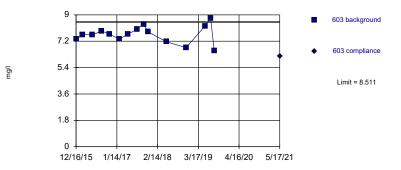


Background Data Summary (based on square root transformation): Mean=2.102, Std. Dev.=0.1238, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8603, critical = 0.855. Kappa = 1.458 (c=7), w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Sanitas™ v.9.6.31 Sanitas software licensed to SCS Engineers. UG



Prediction Limit

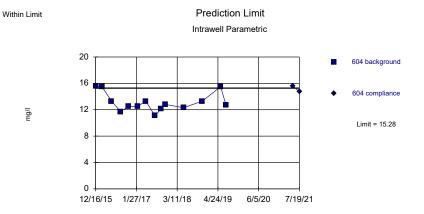


Background Data Summary: Mean=7.659, Std. Dev.=0.5838, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9807, critical = 0.835. Kappa = 1.458 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 9/13/2021 2:40 PM View: LF CCR III

			Montros	e Generating Statio	n UWL Client: SC	S Engineers Dat	a: Montrose		 	
	506	506	601	601	602	602	603	603		
12/16/2015	92.4		52.5		4.48		7.33			
2/16/2016	97.2		53		4.38		7.65			
5/23/2016	84.7		50.6		4.29		7.64			
8/22/2016	77.5		45.5		4.65		7.9			
11/7/2016					4.35		7.67			
11/8/2016	73.1		47.5							
2/7/2017	79		49		4.04		7.35			
5/1/2017	79.2									
5/2/2017			51.1		4.69		7.67			
7/31/2017	71.9		52.7		4.28		8.03			
10/2/2017	74.4		52.4		6.06		8.37			
11/15/2017	77.7		54.2		4.93		7.83			
12/29/2017					4.44					
5/14/2018	79		55		4.14		7.16			
11/19/2018	83.1		49.6		3.97		6.76			
1/10/2019					3.71					
5/21/2019	76		55.5		4.11		8.24			
7/15/2019			56.5				8.75			
8/19/2019			54.5				6.54			
5/17/2021						3.95		6.17		
5/18/2021		91.3		48.6						

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Background Data Summary: Mean=13.16, Std. Dev.=1.425, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8723, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

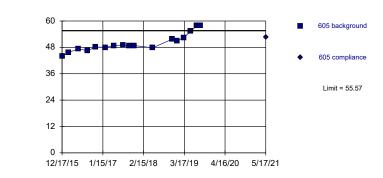


Within Limit

l/gr

Prediction Limit

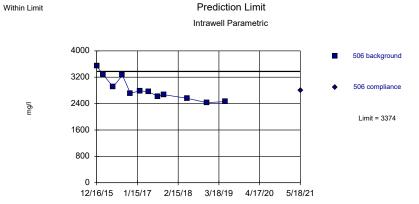




Background Data Summary: Mean=49.93, Std. Dev.=3.99, n=17. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.904, critical = 0.851. Kappa = 1.413 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Chloride Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

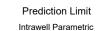
Sanitas[™] v.9.6.31 Sanitas software licensed to SCS Engineers. UG

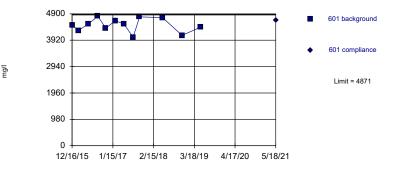


Background Data Summary: Mean=2833, Std. Dev.=351.4, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8961, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0188.

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Within Limit





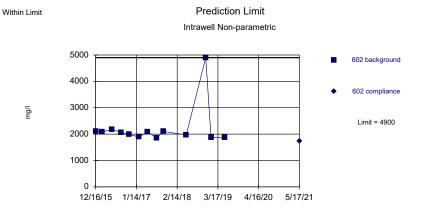
Background Data Summary: Mean=4477, Std. Dev.=255.5, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9477, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Dissolved Solids Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Constituent: Chloride, Dissolved Solids Analysis Run 9/13/2021 2:40 PM View: LF CCR III

			WOILIO	se Generating Statio	SILOWE CITETIL SC	S Eligineers Data	a. Montrose			
	604	604	605	605	506	506	601	601		
12/16/2015	15.6				3540		4470			
12/17/2015			43.9							
2/16/2016	15.5		45.7		3280		4280			
5/23/2016	13.3		47.3		2910		4530			
8/22/2016	11.7		46.5		3260		4810			
11/7/2016	12.5		48.2							
11/8/2016					2710		4370			
2/7/2017	12.5		48		2790		4640			
5/1/2017					2760					
5/2/2017	13.3		48.7				4530			
7/31/2017	11.1		49.1		2620		4030			
10/2/2017	12.1		48.7		2670		4790			
11/15/2017	12.8		48.8							
5/14/2018	12.3		47.8		2560		4760			
11/19/2018	13.3		51.7		2430		4100			
1/10/2019			50.9							
3/13/2019			52.4							
5/21/2019	15.5		55.4		2460		4410			
7/15/2019	12.7		57.8							
8/19/2019			57.9							
5/17/2021		15.6		52.5						
5/18/2021						2800		4650		
7/19/2021		14.7								

Sanitas™ v.9.6.31 Sanitas software licensed to SCS Engineers. UG

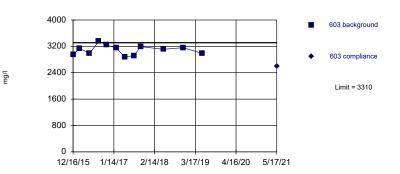


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 13 background values. Well-constituent pair annual alpha = 0.003769. Individual comparison alpha = 0.001886 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Dissolved Solids Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Sanitas™ v.9.6.31 Sanitas software licensed to SCS Engineers. UG

Within Limit

Prediction Limit



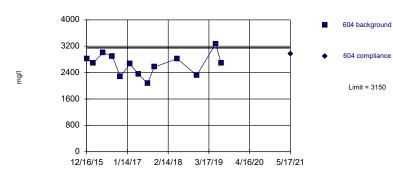
Background Data Summary: Mean=3088, Std. Dev.=143.6, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9528, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Dissolved Solids Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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Within Limit

Prediction Limit Intrawell Parametric



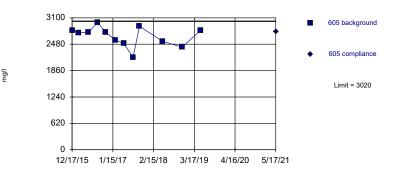
Background Data Summary: Mean=2648, Std. Dev.=331.5, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9778, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

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Prediction Limit

Intrawell Parametric

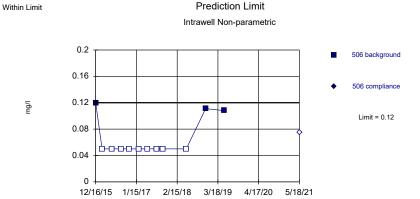


Background Data Summary: Mean=2665, Std. Dev.=230.2, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9421, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Dissolved Solids Analysis Run 9/13/2021 2:40 PM View: LF CCR III

			Worldoo	ie denerating oldite		Engineers But			
	602	602	603	603	604	604	605	605	
12/16/2015	2100		2940		2820				
12/17/2015							2800		
2/16/2016	2080		3140		2690		2750		
5/23/2016	2180		2990		3010		2760		
8/22/2016	2060		3350		2890		2990		
11/7/2016	1990		3240		2270		2760		
2/7/2017	1890		3150		2670		2580		
5/2/2017	2080		2880		2350		2500		
7/31/2017	1860		2920		2070		2170		
10/2/2017	2100		3190		2570		2900		
5/14/2018	1970		3110		2820		2550		
11/19/2018	4900		3160		2320		2410		
1/10/2019	1870								
5/21/2019	1870		2990		3270		2810		
7/15/2019					2680				
5/17/2021		1730		2600		2960		2770	

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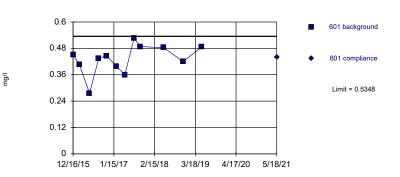


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

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Within Limit

Prediction Limit Intrawell Parametric

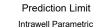


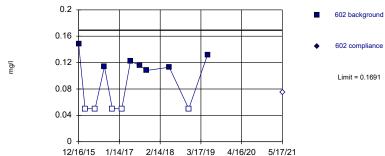
Background Data Summary: Mean=0.4313, Std. Dev.=0.06712, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9364, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Fluoride Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Constituent: Fluoride Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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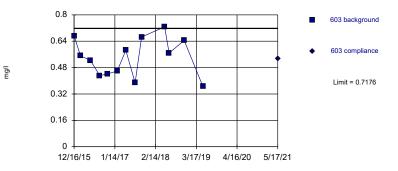
602 compliance

Sanitas™ v.9.6.31 Sanitas software licensed to SCS Engineers. UG



Prediction Limit

Intrawell Parametric



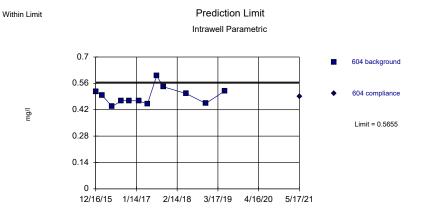
Background Data Summary: Mean=0.5403, Std. Dev.=0.1171, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9546, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Background Data Summary (after Aitchison's Adjustment): Mean=0.07108, Std. Dev.=0.06358, n=12, 41.67% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8063, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Fluoride Analysis Run 9/13/2021 2:40 PM View: LF CCR III

			Montrose den	citating clation offe	oliona oco Engi	Data. Mont		
	506	506	601	601	602	602	603	603
12/16/2015	0.12		0.45		0.148		0.673	
2/16/2016	<0.1		0.406		<0.1		0.552	
5/23/2016	<0.1		0.276		<0.1		0.523	
8/22/2016	<0.1		0.435		0.114		0.431	
11/7/2016					<0.1		0.442	
11/8/2016	<0.1		0.446					
2/7/2017	<0.1		0.399		<0.1		0.459	
5/1/2017	<0.1							
5/2/2017			0.36		0.122		0.585	
7/31/2017	<0.1		0.526		0.116		0.388	
10/2/2017	<0.1		0.488		0.108		0.666	
5/14/2018	<0.1		0.483		0.113		0.727	
6/26/2018							0.568	
11/19/2018	0.111		0.42		<0.1		0.645	
5/21/2019	0.108		0.487		0.132		0.365	
5/17/2021						<0.15		0.535
5/18/2021		<0.15		0.439				

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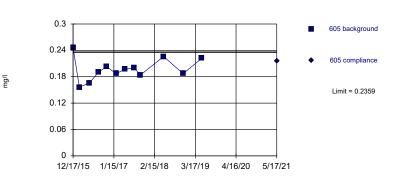
Background Data Summary: Mean=0.4936, Std. Dev.=0.04663, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9142, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05123). Report alpha = 0.00188.

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Within Limit

Prediction Limit



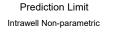


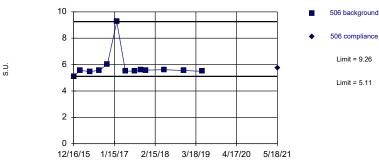
Background Data Summary: Mean=0.1971, Std. Dev.=0.02515, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9677, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Fluoride Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Fluoride Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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Within Limits



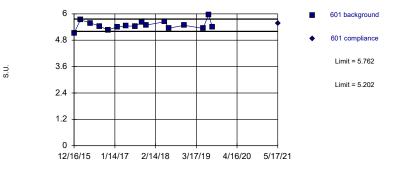


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 13 background values. Well-constituent pair annual alpha = 0.007539. Individual comparison alpha = 0.003773 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

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Prediction Limit Intrawell Parametric

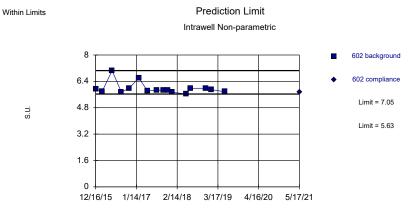


Background Data Summary: Mean=5.482, Std. Dev.=0.1956, n=16. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9558, critical = 0.844. Kappa = 1.43 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

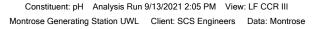
Constituent: Fluoride, pH Analysis Run 9/13/2021 2:40 PM View: LF CCR III

			Montro	se Generating Statio	on UVVL Client: SC	5 Engineers Da	ita: Montrose		
	604	604	605	605	506	506	601	601	
12/16/2015	0.515				5.11		5.12		
12/17/2015			0.246						
2/16/2016	0.497		0.156		5.56		5.73		
5/23/2016	0.437		0.166		5.47		5.58		
8/22/2016	0.468		0.191		5.57		5.44		
11/7/2016	0.468		0.203						
11/8/2016					6.04		5.26		
2/7/2017	0.467		0.187		9.26		5.41		
5/1/2017					5.51				
5/2/2017	0.45		0.197				5.45		
7/31/2017	0.601		0.2		5.51		5.44		
10/2/2017	0.542		0.184		5.59		5.61		
11/15/2017					5.58		5.49		
5/14/2018	0.506		0.226		5.61		5.64		
6/26/2018							5.35		
11/19/2018	0.453		0.187		5.55		5.48		
5/21/2019	0.519		0.222		5.49		5.34		
7/15/2019							5.96		
8/19/2019							5.41		
5/17/2021		0.491		0.216				5.56	
5/18/2021						5.73			

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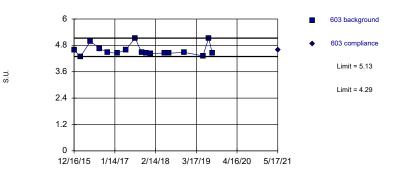
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 16 background values. Well-constituent pair annual alpha = 0.004102. Individual comparison alpha = 0.002052 (1 of 3). Insufficient data to test for seasonalized.



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Within Limits

Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 17 background values. Well-constituent pair annual alpha = 0.003639. Individual comparison alpha = 0.00182 (1 of 3). Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: pH Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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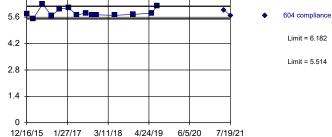
7

Within Limits

S.U

Prediction Limit Intrawell Parametric

604 background

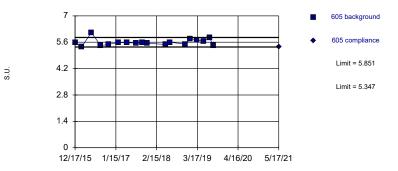


Background Data Summary: Mean=5.848, Std. Dev.=0.2249, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8937, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

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Prediction Limit

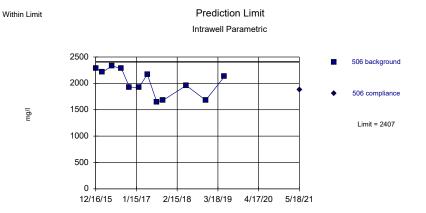


Background Data Summary: Mean=5.599, Std. Dev.=0.1804, n=18. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8888, critical = 0.858. Kappa = 1.396 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 9/13/2021 2:40 PM View: LF CCR III

			Montro	se Generating Stati	on UWL Client: SC	S Engineers Dat	ta: Montrose		
	602	602	603	603	604	604	605	605	
12/16/2015	5.93		4.58		5.79				
12/17/2015							5.57		
2/16/2016	5.78		4.29		5.51		5.34		
5/23/2016	7.05		4.98		6.3		6.11		
8/22/2016	5.74		4.65		5.67		5.42		
11/7/2016	5.99		4.48		6.04		5.49		
2/7/2017	6.62		4.44		6.1		5.58		
5/2/2017	5.81		4.6		5.72		5.58		
7/31/2017	5.87		5.13		5.82		5.55		
10/2/2017	5.86		4.48		5.72		5.58		
11/15/2017	5.87		4.44		5.73		5.55		
12/29/2017	5.74		4.43						
5/14/2018	5.63		4.45		5.7		5.48		
6/26/2018	5.98		4.44				5.6		
11/19/2018	5.98		4.48		5.75		5.5		
1/10/2019	5.9						5.79		
3/13/2019							5.73		
5/21/2019	5.77		4.32		5.82		5.64		
7/15/2019			5.13		6.2		5.85		
8/19/2019			4.46				5.42		
5/17/2021		5.76		4.6		5.98		5.36	
7/19/2021						5.69			

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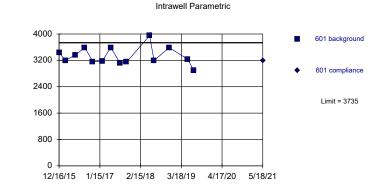
Background Data Summary: Mean=2019, Std. Dev.=251.7, n=12. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8935, critical = 0.805. Kappa = 1.542 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.



Within Limit

l/gr

Prediction Limit



Background Data Summary: Mean=3331, Std. Dev.=272, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9196, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Sulfate Analysis Run 9/13/2021 2:05 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

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Within Limit

Prediction Limit Intrawell Parametric



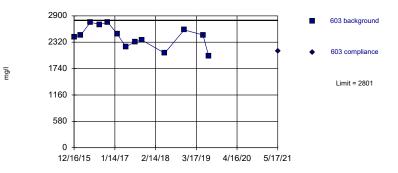
Background Data Summary: Mean=1369, Std. Dev.=134.2, n=14. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.956, critical = 0.825. Kappa = 1.486 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

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Prediction Limit

Intrawell Parametric

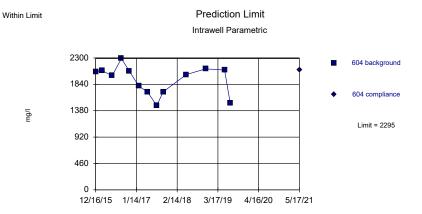


Background Data Summary: Mean=2441, Std. Dev.=237.6, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9483, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 9/13/2021 2:40 PM View: LF CCR III

			Mondose Gen		Client. 303 Lingi	neers Data. Mont	1056	
1	506	506	601	601	602	602	603	603
12/16/2015	2290		3430		1540		2440	
2/16/2016	2210		3200		1410		2470	
5/23/2016	2330		3360		1490		2760	
8/22/2016	2280		3590		1320		2710	
11/7/2016					1370		2760	
11/8/2016	1930		3160					
2/7/2017	1920		3180		1430		2500	
5/1/2017	2170							
5/2/2017			3590		1190		2220	
7/31/2017	1650		3110		1210		2330	
10/2/2017	1680		3150		1340		2370	
5/14/2018	1960		3950		1660		2080	
6/26/2018			3190		1270			
11/19/2018	1680		3590		1430		2590	
1/10/2019					1250			
5/21/2019	2130		3230		1260		2480	
7/15/2019			2900				2020	
5/17/2021						1190		2130
5/18/2021		1880		3200				

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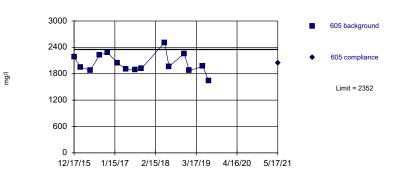


Background Data Summary: Mean=1916, Std. Dev.=250.6, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9059, critical = 0.814. Kappa = 1.514 (c=7, w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.00188.

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Prediction Limit Intrawell Parametric



Background Data Summary: Mean=2033, Std. Dev.=218.7, n=15. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9344, critical = 0.835. Kappa = 1.458 (c=7), w=4, 1 of 3, event alpha = 0.05132). Report alpha = 0.0188.

Constituent: Sulfate Analysis Run 9/13/2021 2:06 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Constituent: Sulfate Analysis Run 9/13/2021 2:06 PM View: LF CCR III Montrose Generating Station UWL Client: SCS Engineers Data: Montrose

Constituent: Sulfate Analysis Run 9/13/2021 2:40 PM View: LF CCR III

	604	604	605	605
12/16/2015	2060			
12/17/2015			2180	
2/16/2016	2080		1950	
5/23/2016	1990		1880	
8/22/2016	2290		2230	
11/7/2016	2070		2280	
2/7/2017	1810		2050	
5/2/2017	1710		1910	
7/31/2017	1470		1890	
10/2/2017	1710		1920	
5/14/2018	2010		2510	
6/26/2018			1960	
11/19/2018	2110		2260	
1/10/2019			1870	
5/21/2019	2090		1970	
7/15/2019	1510		1640	
5/17/2021		2090		2040

Montrose Generating Station UWL Client: SCS Engineers Data: Montrose Printed 9/13/2021, 2:40 PM Bg N <u>%NDs</u> Constituent Well Upper Lim. Lower Lim. Date Transform Alpha Method Observ. <u>Sig.</u> Boron (mg/l) 506 0.2 n/a 5/18/2021 0.1ND No 12 100 n/a 0.002173 NP Intra (NDs) 1 of 3 601 0.203 5/18/2021 0.1ND No 12 91.67 0.002173 NP Intra (NDs) 1 of 3 Boron (mg/l) n/a n/a 602 12 Boron (mg/l) 5.168 5/17/2021 4.17 No 0 No 0.00188 Param Intra 1 of 3 n/a 603 Boron (mg/l) 7.275 n/a 5/17/2021 6.22 No 13 0 No 0.00188 Param Intra 1 of 3 604 5.376 5.32 Param Intra 1 of 3 Boron (mg/l) 5/17/2021 12 0 No 0.00188 n/a No Boron (mg/l) 605 2.045 5/17/2021 1.54 No 12 0 No 0.00188 Param Intra 1 of 3 n/a 506 442.8 5/18/2021 375 13 0 0.00188 Param Intra 1 of 3 Calcium (mg/l) No No n/a 601 507.3 466 0 Calcium (mg/l) n/a 5/18/2021 No 14 No 0.00188 Param Intra 1 of 3 Calcium (mg/l) 602 379.5 n/a 5/17/2021 311 No 14 0 No 0.00188 Param Intra 1 of 3 Calcium (mg/l) 603 466 n/a 5/17/2021 403 No 15 0 No 0.00188 Param Intra 1 of 3 Calcium (mg/l) 604 478 n/a 7/19/2021 432 No 14 0 No 0.00188 Param Intra 1 of 3 Calcium (mg/l) 605 445.2 n/a 5/17/2021 420 No 15 0 No 0.00188 Param Intra 1 of 3 Chloride (mg/l) 506 91.58 n/a 5/18/2021 91.3 No 13 0 No 0.00188 Param Intra 1 of 3 56.49 Chloride (mg/l) 601 n/a 5/18/2021 48.6 No 15 0 No 0.00188 Param Intra 1 of 3 Chloride (mg/l) 602 5.212 5/17/2021 3.95 15 0 0.00188 n/a No sqrt(x) Param Intra 1 of 3 Chloride (mg/l) 603 8.511 5/17/2021 6.17 15 0 0.00188 Param Intra 1 of 3 n/a No No 604 0 Chloride (mg/l) 15.28 n/a 7/19/2021 14.7 No 14 No 0.00188 Param Intra 1 of 3 Chloride (mg/l) 605 55.57 5/17/2021 52.5 No 17 0 No 0.00188 Param Intra 1 of 3 n/a 506 12 Dissolved Solids (mg/l) 3374 n/a 5/18/2021 2800 No 0 No 0.00188 Param Intra 1 of 3 Dissolved Solids (mg/l) 601 4871 4650 12 0 n/a 5/18/2021 No No 0.00188 Param Intra 1 of 3 Dissolved Solids (mg/l) 602 4900 5/17/2021 13 0.001886 NP Intra (normality) ... n/a 1730 No 0 n/a Dissolved Solids (mg/l) 603 3310 5/17/2021 2600 No 12 0 No 0.00188 Param Intra 1 of 3 n/a Dissolved Solids (mg/l) 604 3150 n/a 5/17/2021 2960 No 13 0 No 0.00188 Param Intra 1 of 3 Dissolved Solids (mg/l) 605 3020 n/a 5/17/2021 2770 No 12 0 No 0.00188 Param Intra 1 of 3 Fluoride (mg/l) 506 0.12 5/18/2021 0.075ND 12 75 0.002173 NP Intra (NDs) 1 of 3 n/a No n/a Fluoride (mg/l) 601 0.5348 n/a 5/18/2021 0.439 No 12 0 No 0.00188 Param Intra 1 of 3 0.075ND Fluoride (mg/l) 602 0.1691 n/a 5/17/2021 No 12 41.67 No 0.00188 Param Intra 1 of 3 Fluoride (mg/l) 603 0.7176 n/a 5/17/2021 0.535 No 13 0 No 0.00188 Param Intra 1 of 3 Fluoride (mg/l) 604 0.5655 n/a 5/17/2021 0.491 No 12 0 No 0.00188 Param Intra 1 of 3 605 12 Fluoride (mg/l) 0.2359 n/a 5/17/2021 0.216 No 0 No 0.00188 Param Intra 1 of 3 506 13 0 NP Intra (normality) ... pH (S.U.) 9.26 5.11 5/18/2021 5.73 No n/a 0.003773 pH (S.U.) 601 5.762 5.202 5/17/2021 5.56 16 0 No 0.000... Param Intra 1 of 3 No pH (S.U.) 602 7.05 5.63 5/17/2021 5.76 No 16 0 n/a 0.002052 NP Intra (normality) ... 603 5.13 4.29 5/17/2021 4.6 No 17 0 0.00182 NP Intra (normality) ... pH (S.U.) n/a pH (S.U.) 604 6.182 5.514 7/19/2021 5.69 14 0 No 0.000... Param Intra 1 of 3 No pH (S.U.) 605 5.851 5.347 5/17/2021 5.36 No 18 0 No 0.000... Param Intra 1 of 3 506 Sulfate (mg/l) 2407 n/a 5/18/2021 1880 No 12 0 No 0.00188 Param Intra 1 of 3 Sulfate (mg/l) 601 3735 n/a 5/18/2021 3200 No 14 0 No 0.00188 Param Intra 1 of 3 Sulfate (mg/l) 602 1569 5/17/2021 1190 14 0 0.00188 n/a No No Param Intra 1 of 3 603 0 Sulfate (mg/l) 2801 5/17/2021 2130 No 13 0.00188 Param Intra 1 of 3 n/a No 604 Sulfate (mg/l) 2295 n/a 5/17/2021 2090 No 13 0 No 0.00188 Param Intra 1 of 3 Sulfate (mg/l) 605 2352 5/17/2021 2040 No 15 0 0.00188 Param Intra 1 of 3 n/a No

Montrose Generating Station Determination of Statistically Significant Increases CCR Landfill October 5, 2021

ATTACHMENT 2

Sanitas[™] Configuration Settings

Data	Output	Trend Test	Control Cht	Prediction Lim	Tolerance Lim	Conf/Tol Int	ANOVA	Welchs	Other Tests
Exclud	le data flag	s: i							
Data	Reading O	ptions							
🔘 In	ndividual Ob	oservations							
\bigcirc M	lean of Eac	:h:	 Month 						
\bigcirc M	ledian of Ea	ach:	Seasor	n					
Setup	Seasons	ace Handling. Process Resa							

Data Output	Trend Test	Control Cht	Prediction Lim	Tolerance Lim	Conf/Tol Int	ANOVA	Welchs	Other Tests
Use Modified	Alpha							
✓ Test Residua	ls For Normalit	y (Parametric f	est only) using	Shapiro-Wilk/Fra	ancia 🗸 🗸	at Alpha	= 0.01	\sim
Continue	Parametric if l	Inable to Nom	nalize					
 Never Tran Use Specifi 	of Powers or No Transfo sform c Transformati	omation						
Use Best W	/ Statistic ormed Values							
_	-	e Interval arou	und Trend Line	Non-Detects Perc	cent > 75			
Note: there is no "/ Mann-Kendall (the								's Slope /

Data	Output	Trend Test	Control Cht	Prediction Lim	Tolerance Lim	Conf/Tol Int	ANOVA	Welchs	Other Tests
⊡ Use		netric Test wh	apiro-Wilk/Fra nen Non-Dete	cts Percent > 5	at Alpha = 0.01	▼ 0 0 0	Isformation Use Ladder Natural Log Never Tran Use Specifi	or No Tran sform	nsformation
_			Use Aitchise	etects Percent > on's v w	15 hen NDs % >	50	Use Best W	Natura V Statistic	l Log 🛛 🗸
Use	Poisson Pr	ediction Limit	when Non-De	etects Percent >	90		Plot Transfo	ormed Value	es
If If If A Facility Statist Constri Down Sampli	Seasonality Seasonality Iways (Whe Iways Use / α ical Evalua tuents Anal gradient (Co ing Plan	en Sufficient E Non-Parametr tions per Year yzed: ompliance) Wo	Or Insufficient Data) O ic r: ells:	to Test Never	Plot Ba Override St Override D Automa 2-Taileo Show D Non-Paramo	Background Tr ckground Data andard Deviati F:	a ion: Dvenide Kap Backgroun Backgroun a Lighter Highest Bac	ppa:	
01	of 1 C	ividual Obsen) 1 of 2 (ified California	1 of 3	✓ 1 of 4	 Highest Most R 	t/Second High lecent PQL if a lecent Backgro	est Backgro vailable, or	ound Value MDL	

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 $\alpha = 0.05 \lor$ or if n > 22 \lor Rosner's at $\alpha = 0.01 \lor$ Use EPA Screening to establish Suspected Outliers
O 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 \checkmark at Alpha = 0.1 \checkmark
Stop if Non-Normal
Continue with Parametric Test if Non-Normal
○ Tukey's if Non-Normal, with IQR Multiplier = 3.0
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 Label Axes
Use Default Constituent Names Note Cation-Anion Balance (Piper only)
O Use Constituent Definition File Edit

Jared Morrison December 20, 2022

ATTACHMENT 3 Groundwater Potentiometric Surface Maps

