



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

**FEDERAL CCR COMPLIANCE
ANNUAL GROUNDWATER MONITORING and
CORRECTIVE ACTION REPORT - 2022**

**Midwest Generation, LLC
Joliet #9 Generating Station
1601 South Patterson Road
Joliet, Illinois**

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January 31, 2023

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OVERVIEW

Groundwater monitoring requirements in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Parts 257.94 and 257.95 Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule dated April 17, 2015 (CCR Rule) and subsequent amendments, have been completed for the ash disposal unit (Lincoln Stone Quarry [LSQ]) monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Joliet #9 Generating Station. The CCR monitoring well network consists of ten monitoring wells (R08S, G20S, G30S, R32S, G44S, G45S, G46S, G47S, G48S and T03S) as shown on Figure 1. Wells T03S and G45S are considered background monitoring wells. The assessment groundwater monitoring network was expanded in the 4th quarter 2018 to assist in defining the nature and extent of impacts as required under 257.95(g)(1). The expanded assessment network includes wells G31S, G33S, T01S, T02S, T04S, T05S, T06S, T08S and T09S. It is noted that Figure 1 also includes twelve extraction wells (X101 through X112) along the south side of the LSQ which are part of an interim corrective action which intercepts southward migration of groundwater from the LSQ. It is also noted that monitoring well T04S, which was located on Vulcan Quarry property and was previously being sampled as part of the expanded assessment monitoring network, was abandoned circa May 2020 by Vulcan due to expansion of their mining operations.

This overview of the 2022 groundwater monitoring period is provided in accordance with requirements under Section 257.90(e)(6). Each required item is discussed separately below.

- Section 257.90(e)(6)(i) – At the start of the current monitoring period, the subject CCR unit was operating under the assessment monitoring program outlined in Section 257.95.
- Section 257.90(e)(6)(ii) – At the end of the current monitoring period, the subject CCR unit continues to operate under the assessment monitoring program outlined in Section 257.95.
- Section 257.90(e)(6)(iii) – The following statistically significant increases (SSIs) above established background for the Appendix III detection monitoring constituents were noted during this monitoring period:

CCR Wells

- G45S –fluoride (2nd and 4th quarters).
- T03S – boron (1st, 3rd and 4th quarters), calcium (2nd quarter), chloride (2nd quarter), fluoride (4th quarter), sulfate (4th quarter).
- R08S – boron, calcium, pH and sulfate (1st through 4th quarters).
- G20S –boron and fluoride (1st through 4th quarters), and pH (3rd and 4th quarters).

- G30S – boron, fluoride, sulfate and TDS (1st through 4th quarters), chloride (4th quarter) and pH (1st, 3rd and 4th quarters).
- R32S – boron and sulfate (1st through 4th quarters), calcium (3rd and 4th quarters), fluoride (4th quarter), pH (1st quarter) and TDS (1st quarter).
- G44S – boron (1st through 4th quarters), calcium (2nd through 4th quarters), fluoride (4th quarter) and pH (2nd and 3rd quarters).
- G46S – boron and sulfate (1st through 4th quarters), calcium (1st and 4th quarters), fluoride (4th quarter) pH (4th quarter) and TDS (1st, 3rd and 4th quarters).
- G47S – boron, fluoride, pH, sulfate and TDS (1st through 4th quarters).
- G48S – boron, fluoride and sulfate (1st through 4th quarters), calcium (1st quarter), pH (1st, 3rd and 4th quarters) and TDS (1st, 2nd and 4th quarters).

Expanded Assessment Wells

- G31S – boron, calcium, sulfate, TDS (1st through 4th quarters), fluoride 94th quarter) and pH (3rd quarter).
- G33S – boron (1st quarter), fluoride (1st through 4th quarters).
- T01S – boron, fluoride and sulfate (1st through 4th quarters), pH (1st and 2nd quarters) and TDS (1st and 4th quarters).
- T02S – boron and fluoride (1st through 4th quarters), pH (1st and 2nd quarters), and sulfate and TDS (1st quarter).
- T05S – boron, fluoride, pH, sulfate and TDS (1st through 4th quarters).
- T06S – fluoride (1st through 4th quarters) and boron and pH (2nd quarter).
- T08S – boron, fluoride, sulfate and TDS (1st through 4th quarters) and pH (1st and 4th quarters).
- T09S – boron, sulfate and TDS (1st through 4th quarters), calcium (1st, 3rd and 4th quarters) and fluoride 91st and 4th quarters).

Wells G45S and T03S are background monitoring points.

The initial statistical evaluation of Appendix III constituents determined that there were SSIs in downgradient monitoring wells relative to established background for various Appendix III parameters at various downgradient monitoring locations. The monitoring program was transitioned to assessment monitoring under Section 257.95 in January 2018.

- Section 257.90(e)(6)(iv) – There were confirmed statistically significant levels (SSLs) above groundwater protection standards (GWPSs) for the Appendix IV assessment monitoring constituents for this unit recorded during this monitoring period. Various wells showed concentrations of five Appendix IV parameters above the established GWPSs. Specifically, these were:

- Molybdenum – CCR wells T03S (4th quarter), R08S, R32S, G44S, G46S, G47S and G48S (1st through 4th quarters), G44S (2nd through 4th quarters) and expanded network wells G31S, T01S, T02S, T05S, T08S and T09S (1st through 4th quarters).
- Lithium – CCR wells R08S, R32S and G46S (1st through 4th quarters), G47S (2nd through 4th quarters) and expanded network wells G31S and T09S (1st through 4th quarters).
- Arsenic – CCR wells T03S and R32S (1st quarter), G46S (1st through 4th quarters), G47S 2nd through 4th quarters), G48S (3rd and 4th quarters) and expanded network wells T01S (1st and 2nd quarters), T05S (1st through 3rd quarters) and T08S (1st through 4th quarters).
- Cobalt - Expanded network well T01S (1st quarter).
- Antimony – Expanded network well T02S (1st quarter)

Wells G45S and T03S are background monitoring points.

The assessment of corrective measures was initiated in March 2019 and completed on May 31, 2019. A public meeting to present the results of the corrective measures study was held on August 27, 2019.

- Section 257.90(e)(6)(v) – Remedy selection pursuant to Section 257.97 is in process; however, was not completed during this reporting period as Midwest Generation is awaiting Illinois Environmental Protection Agency (IEPA) review/approval of a State required Application for Initial Construction Permit (submitted to IEPA on January 28, 2022) under the State CCR Rule program prior to being able to proceed with final remedy selection and subsequent implementation.
- Section 257.90(e)(6)(vi) – As noted above, because Midwest Generation is waiting for an approved Construction Permit Application from IEPA, remedial activities pursuant to Section 257.98 were not initiated during this reporting period.

1.0 INTRODUCTION

The groundwater sampling for the 2022 semi-annual assessment monitoring requirements in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Parts 257.94 and 257.95, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule dated April 17, 2015 (CCR Rule) have been completed for the ash disposal unit (Lincoln Stone Quarry [LSQ]) monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Joliet #9 Generating Station. The CCR monitoring well network consists of ten monitoring wells (R08S, G20S, G30S, R32S, G44S, G45S, G46S, G47S, G48S and T03S) as shown on Figure 1. Wells T03S and G45S are considered background monitoring points. The assessment groundwater monitoring network was expanded in the 4th quarter 2018 to assist in defining the nature and extent of impacts as required under 257.95(g)(1). The current expanded assessment network includes wells G31S, G33S, T01S, T02S, T05S, T06S, T08S and T09S. It is noted that Figure 1 also includes twelve extraction wells (X101 through X112) along the south side of the LSQ which are part of an interim corrective action, initiated in 2010 and expanded in 2012, which intercepts southward migration of groundwater from the LSQ. It is also noted that monitoring well T04S, which was located on Vulcan Quarry property and was previously being sampled as part of the expanded assessment monitoring network, was abandoned circa May 2020 by Vulcan due to expansion of their mining operations.

This annual report covers the work performed relative to CCR groundwater monitoring during the calendar year 2022. It does not duplicate information or activities reported in previous annual submittals. It is prepared in accordance with Section 257.90(e)(1-6) and summarizes the sampling procedures used, provides an evaluation of groundwater flow conditions, summarizes the analytical data generated, presents the statistical evaluations and assessment monitoring completed, identifies the other key compliance actions completed during the year and provides the current status of the site compliance activities along with recommendations.

2.0 FIELD PROCEDURES AND GROUNDWATER FLOW EVALUATION

2.1 Field Procedures

As previously noted, the CCR groundwater monitoring network around the LSQ at the Joliet #9 facility consists of ten monitoring wells (R08S, G20S, G30S, R32S, G44S, G45S, G46S, G47S, G48S and T03S) and an expanded nature and extent characterization network which includes wells G31S, G33S, T01S, T02S, T05S, T06S, T08S and T09S as shown on Figure 1. As part of sampling procedures, the integrity of all monitoring wells was inspected and water levels were obtained using an electronic water level meter (see summary of water level discussion below).

All groundwater samples were collected using the low-flow sampling technique from dedicated pumps. The samples were not filtered prior to analysis to provide for total metals concentrations as opposed to dissolved metals concentrations. One duplicate sample was collected from a randomly selected monitoring well per sampling event for quality assurance purposes.

2.2 Groundwater Flow Evaluation

Water level data measurements were obtained from each well during each round of groundwater monitoring. A complete round of water levels was collected prior to initiating sampling, and the water level data are summarized in Table 1. The water levels were used to generate a groundwater flow map for each sampling event which are provided as Figures 2 through 5. It is noted that water levels were also concurrently measured at other monitoring well locations in the area that are not part of the CCR monitoring network. The full set of water levels were used to generate a groundwater flow map for each sampling event. A review of the maps indicates groundwater flow to the north and west from the LSQ. Groundwater moving to the south-southeast due to dewatering operations at the nearby Vulcan Quarry is captured by the extraction well system along the southern perimeter of the LSQ and discharged back into the LSQ. In accordance with general groundwater sampling requirements under Section 257.93(c), Table 2 provides a summary of the natural flow direction (i.e., not affected by extraction well or Vulcan Quarry pumping) and an estimated rate of groundwater flow for each sampling event. The flow rate was calculated using the following equation:

$$V_s = \frac{Kdh}{n_e dl}, \text{ where}$$

V_s is seepage velocity (distance/time)

K is hydraulic conductivity (distance/time)

dh/dl is hydraulic gradient (unitless)

n_e is effective porosity (unitless)

The average hydraulic conductivity of 1.38×10^{-5} ft/sec used in Table 2 was obtained from the Revised Groundwater Impact Assessment Lincoln Stone Quarry Landfill – Addendum to IEPA Application Logs 2004-052 and 2009-213 dated March 13, 2013. The estimated effective porosity of the aquifer materials (0.05) was also obtained from the above noted document.

3.0 ANALYTICAL DATA AND STATUS OF EVALUATIONS

3.1 Sampling Summary

The groundwater sampling summary from 2022 is provided in Table 3, in accordance with 257.90 (e)(3).

3.2 Data Summary

As discussed in Section 1.0, this site is in assessment monitoring. The analytical data from the assessment monitoring groundwater sampling for Appendix III and IV parameters are provided in Tables 4 and 5, respectively for the standard monitoring wells, and in Tables 6 and 7 for the expanded assessment wells, respectively. Tables 4 and 6 include Prediction Limits (PLs) for Appendix III parameters and Tables 5 and 7 include site-specific Groundwater Protection Standards (GWPSs) under the federal CCR rule for detected Appendix IV constituents. All tables include the sample dates and whether the specific well is considered upgradient or downgradient relative to groundwater flow and the regulated unit(s). All duplicate values were within an acceptable range. The analytical data packages from these sampling events are provided in Appendix A.

3.3 Current Status

The site continues to be in assessment monitoring. Additional study is being developed for refining the definition of the extent of impacts in accordance with Section 257.95(g)(1), as necessary. Additional assessment well installations are currently scheduled for the first quarter 2023.

4.0 SUMMARY/CONCLUSIONS AND RECOMMENDATIONS

The site continues to be in assessment monitoring. The assessment monitoring requirements in accordance with the CCR rule are being successfully met. Various wells showed concentrations of five Appendix IV parameters above the established GWPSs. Specifically, these were:

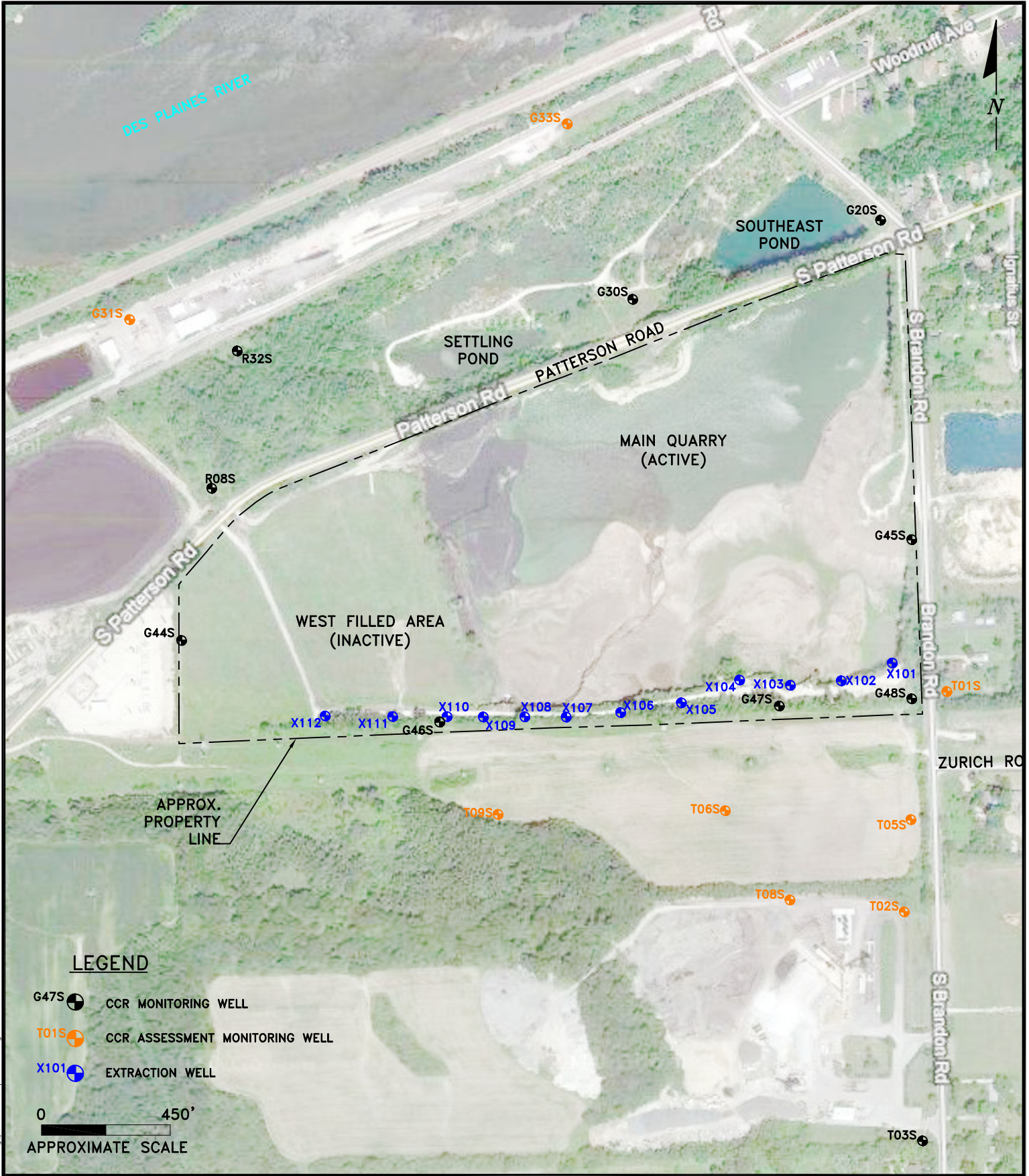
- Molybdenum – CCR wells T03S (4th quarter), R08S, R32S, G44S, G46S, G47S and G48S (1st through 4th quarters), G44S (2nd through 4th quarters) and expanded network wells G31S, T01S, T02S, T05S, T08S and T09S (1st through 4th quarters).
- Lithium – CCR wells R08S, R32S and G46S (1st through 4th quarters), G47S (2nd through 4th quarters) and expanded network wells G31S and T09S (1st through 4th quarters).
- Arsenic – CCR wells T03S and R32S (1st quarter), G46S (1st through 4th quarters), G47S (2nd through 4th quarters), G48S (3rd and 4th quarters) and expanded network wells T01S (1st and 2nd quarters), T05S (1st through 3rd quarters) and T08S (1st through 4th quarters).
- Cobalt - Expanded network well T01S (1st quarter).
- Antimony – Expanded network well T02S (1st quarter)

At this time, it is recommended to continue with assessment monitoring in accordance with Section 257.95 and formalize selection of remedy in accordance with Section 257.97 once the Initial Application for Initial Construction Permit submitted to IEPA on January 28, 2022, as required under the State CCR Rule program, is approved. It is noted that once the final remedy is selected, initiation of remedial activities must occur within 90-days in accordance with Section 257.98.




5.0 REFERENCES

- Federal Register, Environmental Protection Agency, 40 CFR Parts 257 and 261, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals From Electric Utilities; Final Rule. Vol. 80, No. 74, Friday April 17, 2015.
- KPRG and Associates, Inc. and Geo-Hydro, Inc., Revised Groundwater Impact Assessment Lincoln Stone Quarry Landfill – Addendum to IEPA Application Logs 2004-052 and 2009-213. March 13, 2013.
- KPRG and Associates, Inc., CCR Assessment of Corrective Measures Joliet #9 Generating Station Time Extension. March 28, 2019.
- KPRG and Associates, Inc., CCR Compliance Assessment of Corrective Measures Report Lincoln Stone Quarry. May 31, 2019.
- KPRG and Associates, Inc., CCR Compliance Monitoring, Sampling and Analysis Plan, Midwest Generation, LLC Joliet #9 Generating Station. October 10, 2017.
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- KPRG and Associates, Inc., Statistical Evaluation Summary CCR Groundwater Assessment Monitoring Powerton Generation Station. October 4, 2018; Revised October 18, 2018.
- KPRG and Associates, Inc., CCR Compliance Statistical Approach for Groundwater Data Evaluation, Midwest Generation, LLC Joliet #9 Generating Station. October 10, 2017.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Reports, Midwest Generation, LLC Joliet #9 Generating Station. January 31, 2017, 2018, 2019, 2020 and 2021.
- KPRG and Associates, Inc., Application for Initial Construction Permit, Joliet #9 Generation Station, Midwest Generation, LLC, January 28, 2022.

FIGURES



LEGEND

- G47S  CCR MONITORING WELL
- T01S  CCR ASSESSMENT MONITORING WELL
- X101  EXTRACTION WELL

0 450'
 APPROXIMATE SCALE

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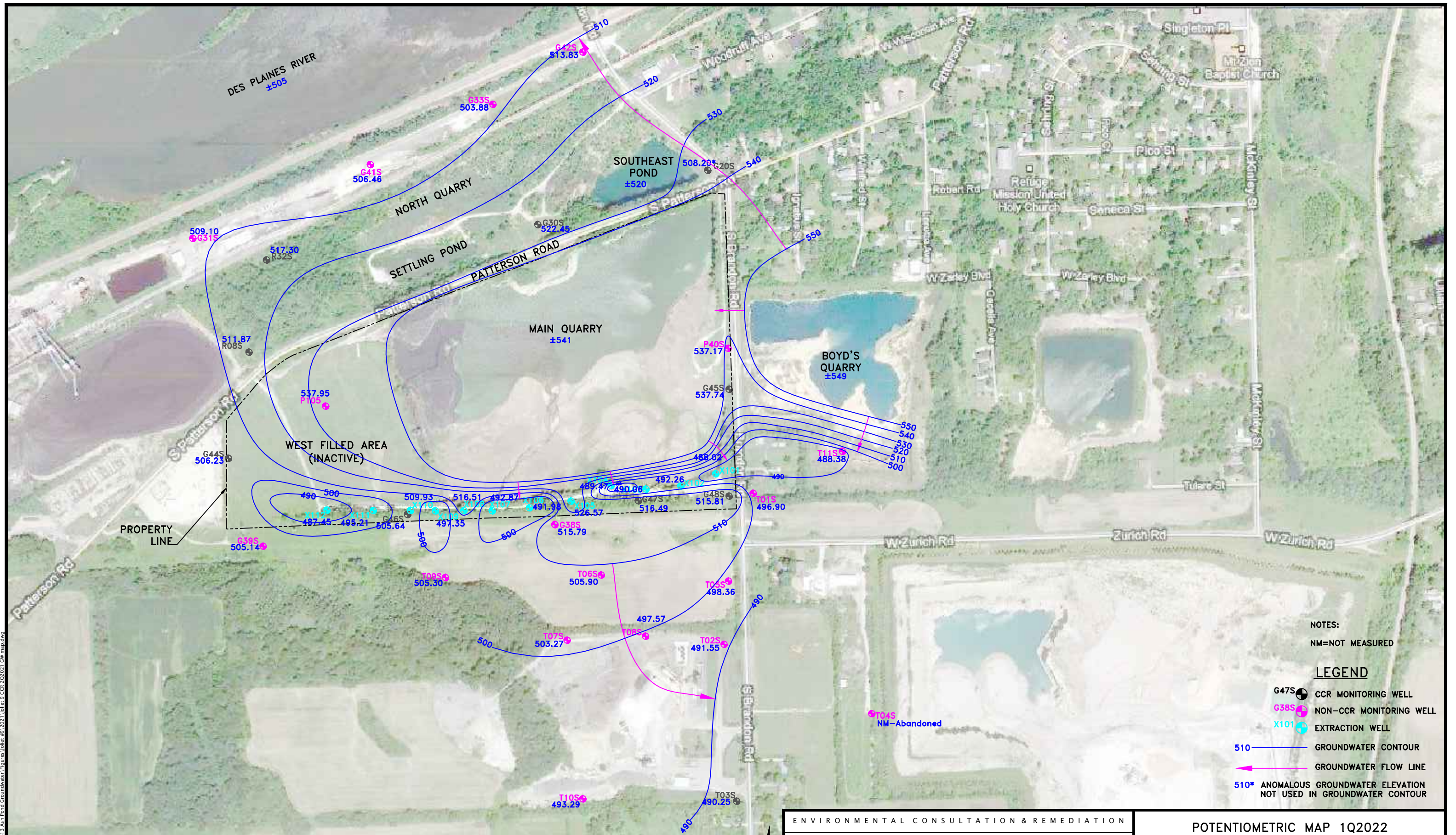
CCR MONITORING WELL SITE MAP

LINCOLN STONE QUARRY
 JOLIET, ILLINOIS

Scale: 1" = 450' Date: January 13, 2022

KPRG Project No. 12313.3 FIGURE 1

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NOTES:
 NM=NOT MEASURED

LEGEND

- G47S ● CCR MONITORING WELL
- G38S ● NON-CCR MONITORING WELL
- X101 ● EXTRACTION WELL
- 510 — GROUNDWATER CONTOUR
- ← GROUNDWATER FLOW LINE
- 510* ANOMALOUS GROUNDWATER ELEVATION NOT USED IN GROUNDWATER CONTOUR

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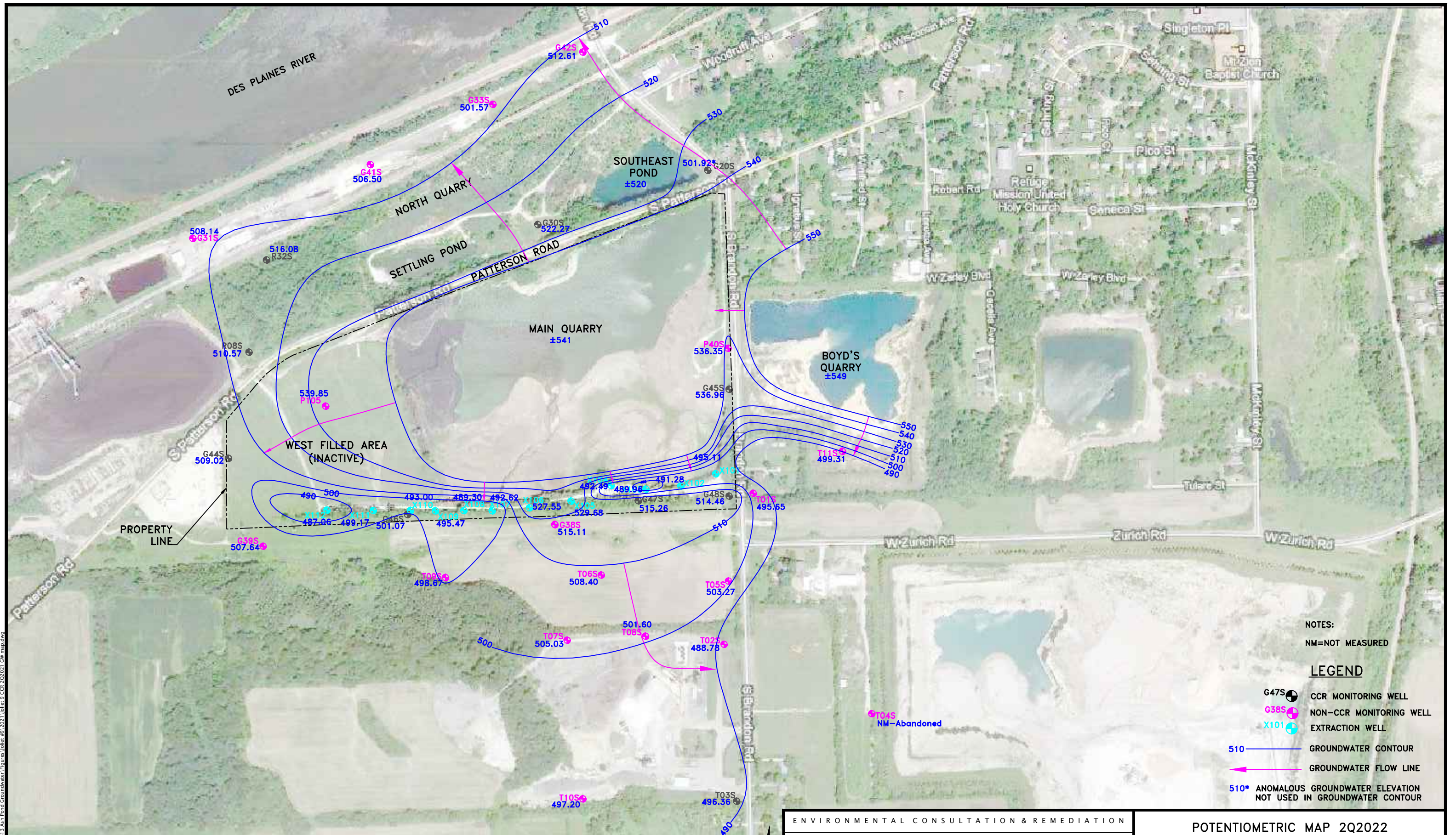
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POTENTIOMETRIC MAP 1Q2022	
LINCOLN STONE QUARRY JOLIET, ILLINOIS	
Scale: 1" = 450'	Date: January 25, 2023
KPRG Project No. 11306	Figure 2



NOTES:
 NM=NOT MEASURED

LEGEND

- G47S ● CCR MONITORING WELL
- G38S ● NON-CCR MONITORING WELL
- X101 ● EXTRACTION WELL
- 510 — GROUNDWATER CONTOUR
- ← GROUNDWATER FLOW LINE
- 510* ANOMALOUS GROUNDWATER ELEVATION NOT USED IN GROUNDWATER CONTOUR

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0 450'
 APPROXIMATE SCALE



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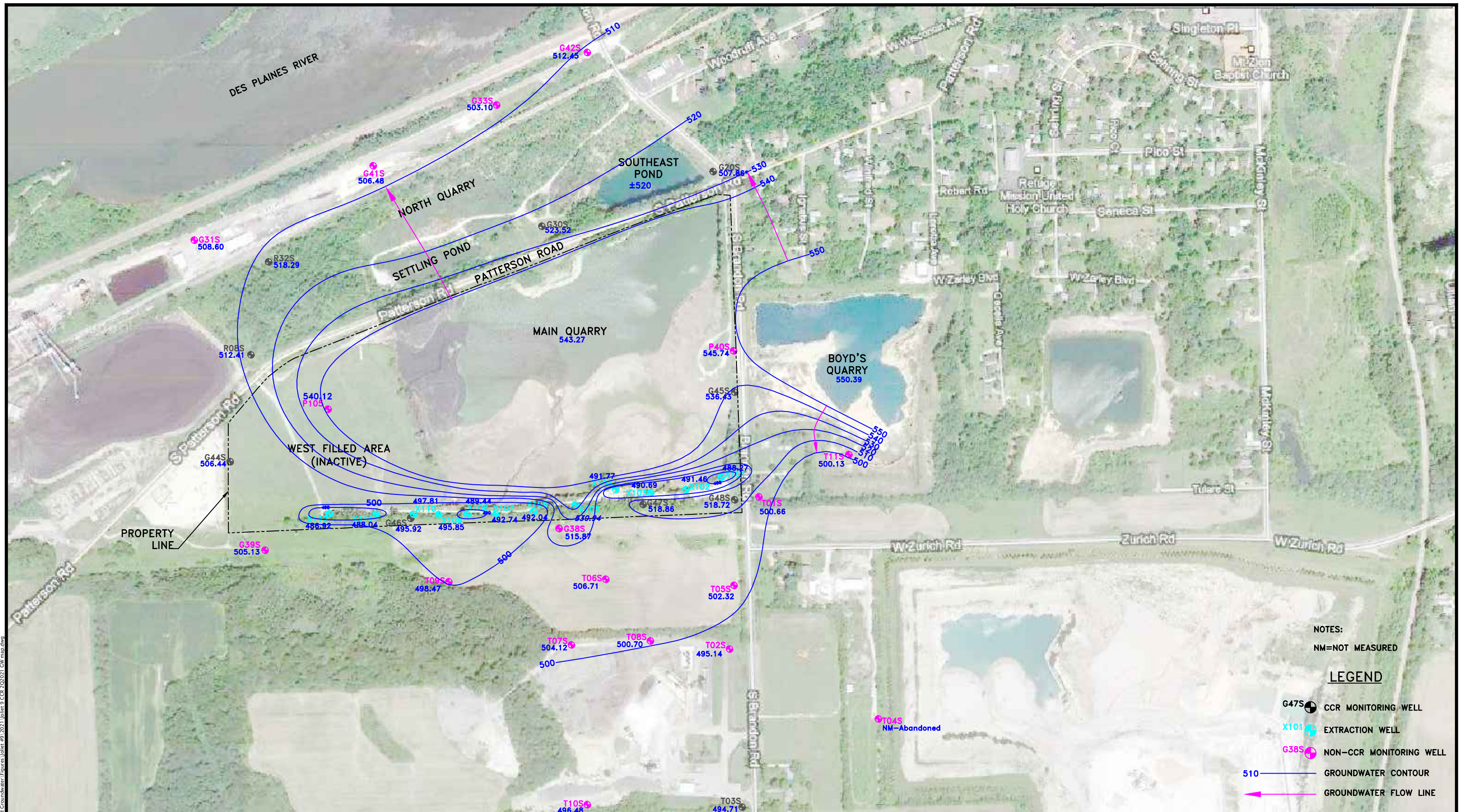
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

POTENTIOMETRIC MAP 2Q2022

LINCOLN STONE QUARRY
 JOLIET, ILLINOIS

Scale: 1" = 450' Date: January 25, 2023

KPRG Project No. 11306 Figure 3

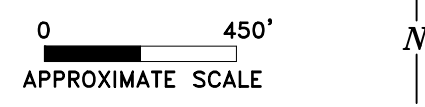


NOTES:
 NM=NOT MEASURED

LEGEND

- G47S CCR MONITORING WELL
- X101 EXTRACTION WELL
- G38S NON-CCR MONITORING WELL
- 510 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE

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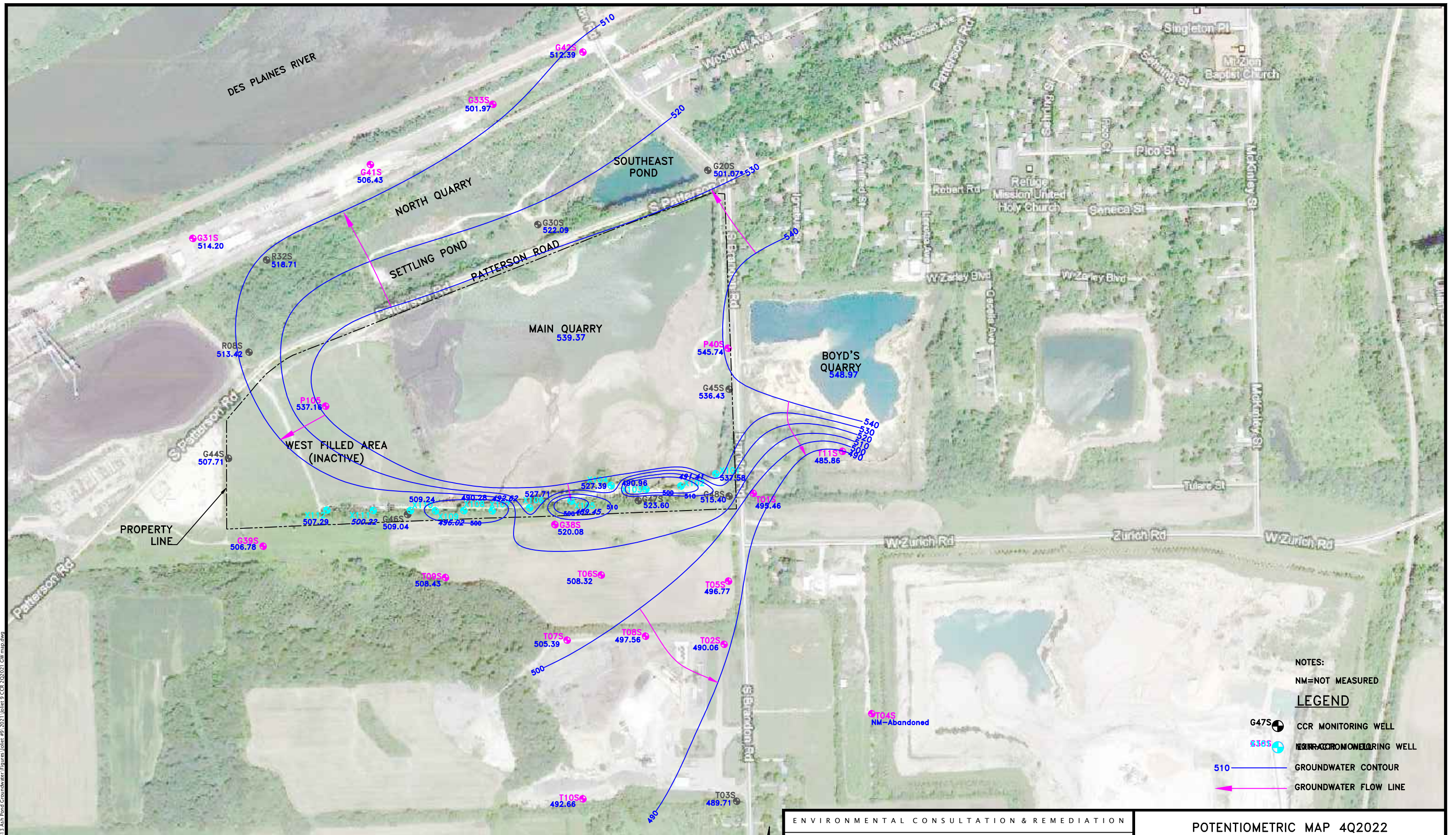
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 414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

POTENTIOMETRIC MAP 3Q2022

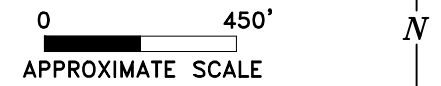
LINCOLN STONE QUARRY
 JOLIET, ILLINOIS

Scale: 1" = 450' | Date: January 25, 2023

KPRG Project No. 11306 | Figure 4



- NOTES:
 NM=NOT MEASURED
- LEGEND**
- G47S CCR MONITORING WELL
 - B385 CHROMIUM MONITORING WELL
 - 510 GROUNDWATER CONTOUR
 - GROUNDWATER FLOW LINE



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POTENTIOMETRIC MAP 4Q2022

LINCOLN STONE QUARRY
 JOLIET, ILLINOIS

Scale: 1" = 450' | Date: January 23, 2023

KPRG Project No. 11306 | Figure 5

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TABLES

Table 1. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date ¹	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
RO8S	Nov-2015	578.65	66.74	511.91
	May-2016	578.65	67.02	511.63
	Jun-2016	578.65	67.50	511.15
	Aug-2016	578.65	67.47	511.18
	Nov-2016	578.65	67.84	510.81
	Feb-2017	578.65	69.28	509.37
	May-2017	578.65	67.56	511.09
	Jul-2017	578.65	67.54	511.11
	Sep-2017	578.65	65.72	512.93
	Nov-2017	578.65	64.83	513.82
	Mar-2018	578.65	65.12	513.53
	May-2018	578.65	65.31	513.34
	Oct-2018	578.62	65.48	513.14
	May-2019	578.62	67.24	511.38
	Nov-2019	578.62	66.78	511.84
	Apr-2020	578.62	65.63	512.99
	Oct-2020	578.62	68.14	510.48
	Apr-2021	578.62	69.20	509.42
	May-2021	578.62	68.06	510.56
	Jun-2021	578.62	68.49	510.13
	Jul-2021	578.62	66.54	512.08
	Aug-2021	578.62	67.38	511.24
	Sep-2022	578.62	67.15	511.47
	Oct-2021	578.62	68.05	510.57
	Nov-2021	578.62	66.18	512.44
	Dec-2021	578.62	69.45	509.17
	Jan-2022	578.62	66.75	511.87
	Feb-2022	578.62	67.19	511.43
	Mar-2022	578.62	66.09	512.53
	Apr-2022	578.62	66.96	511.66
	May-2022	578.62	67.58	511.04
	Jun-2022	578.62	68.20	510.42
Jul-2022	578.62	66.21	512.41	
Aug-2022	578.62	65.86	512.76	
Sep-2022	578.62	67.21	511.41	
Oct-2022	578.62	65.20	513.42	
Nov-2022	578.62	66.41	512.21	
Dec-2022	578.62	66.33	512.29	
G20S	Nov-2015	580.33	55.33	525.00
	May-2016	580.33	51.32	529.01
	Jun-2016	580.33	53.14	527.19
	Aug-2016	580.33	61.32	519.01
	Nov-2016	580.33	54.69	525.64
	Feb-2017	580.33	52.41	527.92
	May-2017	580.33	46.06	534.27
	Jul-2017	580.33	47.85	532.48
	Sep-2017	580.33	49.02	531.31
	Nov-2017	580.33	52.57	527.76
	Mar-2018	580.33	46.65	533.68
	May-2018	580.33	48.83	531.50
	Oct-2018	580.91	49.46	531.45
	May-2019	580.91	39.03	541.88
	Nov-2019	580.91	41.82	539.09
	Apr-2020	580.91	41.69	539.22
	Oct-2020	580.91	46.74	534.17
	Apr-2021	580.91	45.69	535.22
	May-2021	580.91	46.15	534.76
	Jun-2021	580.91	48.50	532.41
	Jul-2021	580.91	56.19	524.72
	Aug-2021	580.91	64.02	516.89
	Sep-2021	580.91	72.75	508.16
	Oct-2021	580.91	78.99	501.92
	Nov-2021	580.91	77.54	503.37
	Dec-2021	580.91	129.36	451.55
	Jan-2022	580.91	72.71	508.20
	Feb-2022	580.91	67.38	513.53
	Mar-2022	580.91	55.70	525.21
	Apr-2022	580.91	60.53	520.38
	May-2022	580.91	67.59	513.32
	Jun-2022	580.91	67.32	513.59
Jul-2022	580.91	73.05	507.86	
Aug-2022	580.91	71.72	509.19	
Sep-2022	580.91	73.94	506.97	
Oct-2022	580.91	79.84	501.07	
Nov-2022	580.91	82.86	498.05	
Dec-2022	580.91	72.26	508.65	

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 TOC - Top of Casing
¹ - Date of water levels collected at beginning of quarter, actual sample date may vary.
 NM - Not Measured

Table 1. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date ¹	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G30S	Nov-2015	524.40	2.74	521.66
	May-2016	524.40	2.53	521.87
	Jun-2016	524.40	3.54	520.86
	Aug-2016	524.40	2.45	521.95
	Nov-2016	524.40	2.57	521.83
	Feb-2017	524.40	2.13	522.27
	May-2017	524.40	1.69	522.71
	Jul-2017	524.40	1.96	522.44
	Sep-2017	524.40	1.84	522.56
	Nov-2017	524.40	1.48	522.92
	Mar-2018	524.40	1.48	522.92
	May-2018	524.40	1.62	522.78
	Oct-2018	524.70	2.51	522.19
	May-2019	524.70	1.57	523.13
	Nov-2019	524.70	1.53	523.17
	Apr-2020	524.70	1.03	523.67
	Oct-2020	524.70	2.19	522.51
	Apr-2021	524.70	2.55	522.15
	May-2021	524.70	2.37	522.33
	Jun-2021	524.70	2.53	522.17
	Jul-2021	524.70	2.32	522.38
	Aug-2021	524.70	2.45	522.25
	Sep-2021	524.70	2.65	522.05
	Oct-2021	524.70	2.43	522.27
	Nov-2021	524.70	2.20	522.50
	Dec-2021	524.70	2.21	522.49
	Jan-2022	524.70	2.25	522.45
	Feb-2022	524.70	2.01	522.69
	Mar-2022	524.70	2.02	522.68
	Apr-2022	524.70	1.84	522.86
May-2022	524.70	1.77	522.93	
Jun-2022	524.70	1.82	522.88	
Jul-2022	524.70	1.18	523.52	
Aug-2022	524.70	1.65	523.05	
Sep-2022	524.70	2.59	522.11	
Oct-2022	524.70	2.61	522.09	
Nov-2022	524.70	2.60	522.10	
Dec-2022	524.70	2.48	522.22	
R32S	Nov-2015	536.81	19.99	516.82
	May-2016	536.81	19.72	517.09
	Jun-2016	536.81	20.51	516.30
	Aug-2016	536.81	20.51	516.30
	Nov-2016	536.81	20.24	516.57
	Feb-2017	536.81	21.12	515.69
	May-2017	536.81	19.33	517.48
	Jul-2017	536.81	19.38	517.43
	Sep-2017	536.81	17.91	518.90
	Nov-2017	536.81	16.32	520.49
	Mar-2018	536.81	16.98	519.83
	May-2018	536.81	20.26	516.55
	Oct-2018	536.99	18.32	518.67
	May-2019	536.99	19.28	517.71
	Nov-2019	536.99	19.09	517.90
	Apr-2020	536.99	17.74	519.25
	Oct-2020	536.99	20.76	516.23
	Apr-2021	536.99	22.06	514.93
	May-2021	536.99	21.41	515.58
	Jun-2021	536.99	21.19	515.80
	Jul-2021	536.99	19.69	517.30
	Aug-2021	536.99	NM	NM
	Sep-2021	536.99	21.18	515.81
	Oct-2021	536.99	20.91	516.08
	Nov-2021	536.99	19.17	517.82
	Dec-2021	536.99	21.74	515.25
	Jan-2022	536.99	19.69	517.30
	Feb-2022	536.99	20.06	516.93
	Mar-2022	536.99	19.68	517.31
	Apr-2022	536.99	19.80	517.19
May-2022	536.99	20.09	516.90	
Jun-2022	536.99	20.49	516.50	
Jul-2022	536.99	18.70	518.29	
Aug-2022	536.99	20.59	516.40	
Sep-2022	536.99	20.17	516.82	
Oct-2022	536.99	18.28	518.71	
Nov-2022	536.99	19.28	517.71	
Dec-2022	536.99	18.35	518.64	

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¹ - Date of water levels collected at beginning of quarter, actual sample date may vary.
 NM - Not Measured

Table 1. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date ¹	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G44S	Nov-2015	586.69	80.54	506.15
	May-2016	586.69	80.42	506.27
	Jun-2016	586.69	80.68	506.01
	Aug-2016	586.69	80.65	506.04
	Nov-2016	586.69	80.69	506.00
	Feb-2017	586.69	84.34	502.35
	May-2017	586.69	82.14	504.55
	Jul-2017	586.69	81.13	505.56
	Sep-2017	586.69	80.15	506.54
	Nov-2017	586.69	77.10	509.59
	Mar-2018	586.69	78.74	507.95
	May-2018	586.69	80.17	506.52
	Oct-2018	586.53	78.21	508.32
	May-2019	586.53	80.05	506.48
	Nov-2019	586.53	79.96	506.57
	Apr-2020	586.53	79.25	507.28
	Oct-2020	586.53	81.51	505.02
	Apr-2021	586.53	82.51	504.02
	May-2021	586.53	80.80	505.73
	Jun-2021	586.53	82.21	504.32
	Jul-2021	586.53	79.66	506.87
	Aug-2021	586.53	80.80	505.73
	Sep-2021	586.53	80.90	505.63
	Oct-2021	586.53	77.51	509.02
	Nov-2021	586.53	66.28	520.25
	Dec-2021	586.53	82.71	503.82
	Jan-2022	586.53	80.30	506.23
	Feb-2022	586.53	81.07	505.46
	Mar-2022	586.53	79.64	506.89
	Apr-2022	586.53	78.65	507.88
May-2022	586.53	89.85	496.68	
Jun-2022	586.53	80.75	505.78	
Jul-2022	586.53	80.09	506.44	
Aug-2022	586.53	79.01	507.52	
Sep-2022	586.53	80.24	506.29	
Oct-2022	586.53	78.82	507.71	
Nov-2022	586.53	79.79	506.74	
Dec-2022	586.53	80.89	505.64	
G45S	Nov-2015	603.31	68.90	534.41
	May-2016	603.31	67.28	536.03
	Jun-2016	603.31	68.88	534.43
	Aug-2016	603.31	68.39	534.92
	Nov-2016	603.31	66.69	536.62
	Feb-2017	603.31	65.34	537.97
	May-2017	603.31	63.07	540.24
	Jul-2017	603.31	63.44	539.87
	Sep-2017	603.31	63.10	540.21
	Nov-2017	603.31	62.28	541.03
	Mar-2018	603.31	61.82	541.49
	May-2018	603.31	68.50	534.81
	Oct-2018	603.90	66.74	537.16
	May-2019	603.90	62.72	541.18
	Nov-2019	603.90	62.38	541.52
	Apr-2020	603.90	60.10	543.80
	Oct-2020	603.90	65.51	538.39
	Apr-2021	603.90	67.71	536.19
	May-2021	603.90	67.32	536.58
	Jun-2021	603.90	67.41	536.49
	Jul-2021	603.90	66.55	537.35
	Aug-2021	603.90	66.74	537.16
	Sep-2021	603.90	66.87	537.03
	Oct-2021	603.90	66.94	536.96
	Nov-2021	603.90	66.28	537.62
	Dec-2021	603.90	66.15	537.75
	Jan-2022	603.90	66.16	537.74
	Feb-2022	603.90	66.13	537.77
	Mar-2022	603.90	65.50	538.40
	Apr-2022	603.90	64.85	539.05
May-2022	603.90	64.13	539.77	
Jun-2022	603.90	64.07	539.83	
Jul-2022	603.90	64.36	539.54	
Aug-2022	603.90	53.95	549.95	
Sep-2022	603.90	67.31	536.59	
Oct-2022	603.90	67.47	536.43	
Nov-2022	603.90	67.51	536.39	
Dec-2022	603.90	67.78	536.12	

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 NM - Not Measured

Table 1. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date ¹	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G46S	Nov-2015	601.32	95.78	505.54
	May-2016	601.32	96.74	504.58
	Jun-2016	601.32	97.31	504.01
	Aug-2016	601.32	97.32	504.00
	Nov-2016	601.32	97.50	503.82
	Feb-2017	601.32	98.14	503.18
	May-2017	601.32	98.43	502.89
	Jul-2017	601.32	98.96	502.36
	Sep-2017	601.32	96.61	504.71
	Nov-2017	601.32	95.65	505.67
	Mar-2018	601.32	96.80	504.52
	May-2018	601.32	95.59	505.73
	Oct-2018	601.43	91.34	510.09
	May-2019	601.43	101.40	500.03
	Nov-2019	601.43	100.01	503.83
	Apr-2020	601.43	100.19	501.24
	Oct-2020	601.43	101.44	499.99
	Apr-2021	601.43	103.09	498.34
	May-2021	601.43	99.02	502.41
	Jun-2021	601.43	100.03	501.40
	Jul-2021	601.43	94.99	506.44
	Aug-2021	601.43	99.46	501.97
	Sep-2021	601.43	99.09	502.34
	Oct-2021	601.43	100.36	501.07
	Nov-2021	601.43	95.22	506.21
	Dec-2021	601.43	105.28	496.15
	Jan-2022	601.43	95.79	505.64
	Feb-2022	601.43	95.75	505.68
	Mar-2022	601.43	95.71	505.72
	Apr-2022	601.43	105.41	496.02
May-2022	601.43	102.83	498.60	
Jun-2022	601.43	103.40	498.03	
Jul-2022	601.43	105.51	495.92	
Aug-2022	601.43	107.49	493.94	
Sep-2022	601.43	96.60	504.83	
Oct-2022	601.43	92.39	509.04	
Nov-2022	601.43	93.24	508.19	
Dec-2022	601.43	93.90	507.53	
G47S	Nov-2015	612.32	99.44	512.88
	May-2016	612.32	95.48	516.84
	Jun-2016	612.32	96.58	515.74
	Aug-2016	612.32	96.79	515.53
	Nov-2016	612.32	88.96	523.36
	Feb-2017	612.32	96.41	515.91
	May-2017	612.32	92.61	519.71
	Jul-2017	612.32	93.53	518.79
	Sep-2017	612.32	93.50	518.82
	Nov-2017	612.32	92.57	519.75
	Mar-2018	612.32	93.63	518.69
	May-2018	612.32	93.51	518.81
	Oct-2018	612.10	96.29	515.81
	May-2019	612.10	91.78	520.32
	Nov-2019	612.10	91.98	520.12
	Apr-2020	612.10	89.34	522.76
	Oct-2020	612.10	86.78	525.32
	Apr-2021	612.10	96.78	515.32
	May-2021	612.10	96.77	515.33
	Jun-2021	612.10	96.78	515.32
	Jul-2021	612.10	94.99	517.11
	Aug-2021	612.10	95.92	516.18
	Sep-2021	612.10	96.51	515.59
	Oct-2021	612.10	96.84	515.26
	Nov-2021	612.10	95.49	516.61
	Dec-2021	612.10	95.98	516.12
	Jan-2022	612.10	95.61	516.49
	Feb-2022	612.10	96.08	516.02
	Mar-2022	612.10	94.26	517.84
	Apr-2022	612.10	92.90	519.20
May-2022	612.10	92.19	519.91	
Jun-2022	612.10	92.26	519.84	
Jul-2022	612.10	93.24	518.86	
Aug-2022	612.10	86.20	525.90	
Sep-2022	612.10	88.85	523.25	
Oct-2022	612.10	88.50	523.60	
Nov-2022	612.10	95.24	516.86	
Dec-2022	612.10	96.57	515.53	

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 NM - Not Measured

Table 1. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date ¹	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G48S	Nov-2015	620.77	106.83	513.94
	May-2016	620.77	105.20	515.57
	Jun-2016	620.77	104.95	515.82
	Aug-2016	620.77	104.77	516.00
	Nov-2016	620.77	102.41	518.36
	Feb-2017	620.77	103.05	517.72
	May-2017	620.77	100.06	520.71
	Jul-2017	620.77	102.31	518.46
	Sep-2017	620.77	102.88	517.89
	Nov-2017	620.77	100.83	519.94
	Mar-2018	620.77	99.77	521.00
	May-2018	620.77	100.74	520.03
	Oct-2018	620.78	105.79	514.99
	May-2019	620.78	98.18	522.60
	Nov-2019	620.78	98.30	522.48
	Apr-2020	620.78	95.54	525.24
	Oct-2020	620.78	100.63	520.15
	Apr-2021	620.78	104.98	515.80
	May-2021	620.78	103.69	517.09
	Jun-2021	620.78	NM	NM
	Jul-2021	620.78	100.85	519.93
	Aug-2021	620.78	95.92	524.86
	Sep-2021	620.78	105.19	515.59
	Oct-2021	620.78	106.32	514.46
	Nov-2021	620.78	103.91	516.87
	Dec-2021	620.78	105.09	515.69
	Jan-2022	620.78	104.97	515.81
	Feb-2022	620.78	105.59	515.19
	Mar-2022	620.78	104.27	516.51
	Apr-2022	620.78	101.51	519.27
	May-2022	620.78	101.03	519.75
	Jun-2022	620.78	101.51	519.27
	Jul-2022	620.78	102.06	518.72
	Aug-2022	620.78	99.48	521.30
	Sep-2022	620.78	104.86	515.92
	Oct-2022	620.78	105.38	515.40
Nov-2022	620.78	105.42	515.36	
Dec-2022	620.78	105.61	515.17	
T03S	Nov-2015	629.65	136.30	493.35
	May-2016	629.65	135.24	494.41
	Jun-2016	629.65	134.26	495.39
	Aug-2016	629.65	134.13	495.52
	Nov-2016	629.65	135.03	494.62
	Feb-2017	629.65	134.92	494.73
	May-2017	629.65	131.87	497.78
	Jul-2017	629.65	135.99	493.66
	Sep-2017	629.65	136.40	493.25
	Nov-2017	629.65	133.61	496.04
	Mar-2018	629.65	131.05	498.60
	May-2018	629.65	134.42	495.23
	Oct-2018	629.89	140.03	489.86
	May-2019	629.89	125.79	504.10
	Oct-2019	629.89	132.92	496.97
	Apr-2020	629.89	133.84	496.05
	Oct-2020	629.89	135.88	494.01
	Apr-2021	629.89	138.78	491.11
	May-2021	629.89	NM	NM
	Jun-2021	629.89	138.84	491.05
	Jul-2021	629.89	134.89	495.00
	Aug-2021	629.89	NM	NM
	Sep-2021	629.89	139.69	490.20
	Oct-2021	629.89	141.48	488.41
	Nov-2021	629.89	138.02	491.87
	Dec-2021	629.89	139.40	490.49
	Jan-2022	629.89	139.64	490.25
	Feb-2022	629.89	140.43	489.46
	Mar-2022	629.89	138.79	491.10
	Apr-2022	629.89	133.53	496.36
	May-2022	629.89	134.64	495.25
	Jun-2022	629.89	134.89	495.00
	Jul-2022	629.89	135.18	494.71
	Aug-2022	629.89	134.83	495.06
	Sep-2022	629.89	140.62	489.27
	Oct-2022	629.89	140.18	489.71
Nov-2022	629.89	140.29	489.60	
Dec-2022	629.89	140.69	489.20	

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 NM - Not Measured

Table 2. Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate - Joliet #9 Generation Station (Lincoln Stone Quarry).

DATE	Natural Groundwater Flow Direction	Kavg (ft/sec)*	Average Hydraulic Gradient (ft/ft)	Porosity (unitless)**	Estimated Seepage Velocity (ft/day)
April-21	Northerly and Westerly	1.38E-05	0.0464	0.05	1.11
October-21	Northerly and Westerly	1.38E-05	0.0409	0.05	0.98
March-22	Northerly and Westerly	1.38E-05	0.0498	0.05	1.19
June-22	Northerly and Westerly	1.38E-05	0.0513	0.05	1.22
September-22	Northerly and Westerly	1.38E-05	0.0701	0.05	1.67
December-22	Northerly and Westerly	1.38E-05	0.0479	0.05	1.14

* Kavg - Average hydraulic conductivity (feet/second) from Revised Groundwater Impacts assessment Lincoln Stone Quarry, 3/13/2013.

** - Porosity estimate from Revised Groundwater Impacts assessment Lincoln Stone Quarry, 3/13/2013.

Table 3. CCR Groundwater Sample Collection Summary for 2022 - Joliet #9 Lincoln Stone Quarry

Well ID	Number of Groundwater Sampling Events	Dates of Groundwater Sampling Events	Detection Monitoring (D), Assessment Monitoring (A), Nature and Extent (N&E)
G45S (Upgradient)	4	3/16/2022	A
		6/10/2022	A
		9/26/2022	A
		12/21/2022	A
T03S (Upgradient)	4	3/14/2022	A
		6/13/2022	A
		9/26/2022	A
		12/21/2022	A
R08S (Downgradient)	4	3/11/2022	A
		6/7/2022	A
		9/19/2022	A
		12/19/2022	A
G20S (Downgradient)	4	3/15/2022	A
		6/7/2022	A
		9/19/2022	A
		12/19/2022	A
G30S (Downgradient)	4	3/15/2022	A
		6/10/2022	A
		9/28/2022	A
		12/19/2022	A
R32S (Downgradient)	4	3/16/2022	A
		6/10/2022	A
		9/26/2022	A
		12/16/2022	A
G44S (Downgradient)	4	3/15/2022	A
		6/9/2022	A
		9/26/2022	A
		12/21/2022	A
G46S (Downgradient)	4	3/11/2022	A
		6/9/2022	A
		9/26/2022	A
		12/20/2022	A
G47S (Downgradient)	4	3/16/2022	A
		6/9/2022	A
		9/22/2022	A
		12/21/2022	A
G48S (Downgradient)	4	3/16/2022	A
		6/9/2022	A
		9/22/2022	A
		12/21/2022	A
G31S (Downgradient)	4	3/11/2022	N&E
		6/10/2022	N&E
		9/27/2022	N&E
		12/16/2022	N&E
G33S (Downgradient)	4	3/11/2022	N&E
		6/6/2022	N&E
		9/28/2022	N&E
		12/16/2022	N&E
T01S (Downgradient)	4	3/14/2022	N&E
		6/14/2022	N&E
		9/28/2022	N&E
		12/20/2022	N&E
T02S (Downgradient)	4	3/10/2022	N&E
		6/14/2022	N&E
		9/29/2022	N&E
		12/20/2022	N&E
T04S (Downgradient)	0	3/16/2022	ABD
		6/6/2022	ABD
		9/29/2022	ABD
		12/20/2022	ABD
T05S (Downgradient)	4	3/10/2022	N&E
		6/13/2022	N&E
		9/27/2022	N&E
		12/15/2022	N&E
T06S (Downgradient)	4	3/8/2022	N&E
		6/13/2022	N&E
		9/27/2022	N&E
		12/15/2022	N&E
T08S (Downgradient)	4	3/14/2022	N&E
		6/21/2022	N&E
		9/29/2022	N&E
		12/20/2022	N&E
T09S (Downgradient)	4	3/8/2022	N&E
		6/8/2022	N&E
		9/27/2022	N&E
		12/15/2022	N&E

ABD - Abandoned. Vulcan property well removed by Vulcan as part of mine expansion.

Table 4. Appendix III Groundwater Analytical Results through June 2022: Midwest Generation, LLC, Joliet Station #9 Lincoln Stone Quarry, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	
G4SS up gradient	11/20/2015	0.81	120	180	0.35	7.20	360	810	
	3/12/2016	0.68	110	140	0.34	7.37	230	860	
	6/30/2016	0.48	87	110	0.34	7.50	170	670	
	8/25/2016	0.47	94	100	0.35	7.28	170	790	
	11/16/2016	0.41	91	90	0.33	7.34	170	620	
	2/14/2017	0.43	97	97	0.32	7.36	160	620	
	5/23/2017	0.36	85	110	0.35	7.30	150	660	
	7/7/2017	0.47	128	128	0.37	7.21	160	600	
	Pred. Limit*	1.031	133.3	206.7	0.38	7.61-7.03	360	1,097	
	9/26/2017	0.43	110	130	0.3	7.21	160	790	
	11/21/2017	0.34	96	130	0.33	7.29	180	820	
	1/8/2018	0.38	97	110	0.32	7.18	180	710	
	3/21/2018	0.76	110	150	0.33	7.00	230	970	
	11/7/2018	0.66	91	120	0.33	7.02	190	740	
	6/28/2019	0.39	96	130	0.33	7.51	120	720	
	11/14/2019	0.48	110	170	0.33	7.33	170	830	
	6/29/2020	0.62	130	230	0.33	7.21	240	970	
	12/11/2020	0.70	120	180	0.38	7.05	220	760	
	6/28/2021	0.44	91	110	0.35	7.20	150	680	
	12/16/2021	0.34	84	87	0.36	7.38	130	510	
	4/16/2022	0.5	98	96	0.36	7.35	130	300	
	6/10/2022	0.34	84	110	0.35	7.28	110	630	
	8/26/2022	0.48	97	150	0.35	7.11	140	830	
	12/21/2022	0.39	100	190	0.22	7.05	490	920	
	T03S up gradient	11/19/2015	0.5	110	75	0.22	7.07	250	710
		8/5/2016	0.84	100	100	0.21	7.18	190	620
8/28/2016		0.98	100	94	0.19	7.30	180	910	
8/25/2016		1.1	110	99	0.20	7.32	180	880	
11/17/2016		1.3	120	100	0.19	7.14	150	860	
2/15/2017		1.0	98	110	0.19	7.36	230	810	
5/22/2017		1.4	110	78	0.23	7.25	160	740	
7/7/2017		1.1	100	71	<	7.32	180	710	
Pred. Limit*		1.85	129	134	0.26	7.55-6.93	292	1,030	
9/26/2017		1.3	110	80	0.21	7.19	240	790	
11/20/2017		1.7	98	90	0.24	7.13	130	770	
3/7/2018		1.5	110	110	0.23	7.34	250	900	
5/17/2018		1.8	100	82	0.24	7.07	210	890	
12/11/2018		1.8	100	140	0.23	6.96	160	890	
6/24/2019		1.7	100	89	0.27	7.17	360	830	
10/28/2019		2.5	100	73	0.25	7.19	<	800	780
2/3/2020		2.3	67	74	0.33	7.29	240	770	
12/15/2020		1.4	140	110	0.27	7.01	280	560	
6/22/2021		0.92	120	130	0.23	6.94	220	980	
8/28/2021		2.4	130	110	0.33	7.48	F1	360	820
3/14/2022		3.6	31	110	0.22	7.37	280	1000	
6/13/2022		1.7	130	160	0.21	7.44	260	980	
8/26/2022		2.2	110	100	0.21	7.00	260	810	
12/21/2022		2.9	110	91	0.22	7.44	300	960	
R08S down gradient		11/23/2015	6.9	130	77	0.19	7.80	520	740
		8/8/2016	6.1	120	80	0.19	7.70	380	820
	8/28/2016	6.8	130	89	0.18	7.49	320	960	
	11/25/2016	6.3	120	84	0.19	7.54	350	800	
	1/11/2017	6.4	120	86	0.17	7.53	380	790	
	2/14/2017	5.4	150	220	0.17	7.60	280	1,000	
	3/25/2017	6.3	250	90	0.17	7.58	340	830	
	7/8/2017	6.3	140	87	0.17	7.52	350	850	
	Pred. Limit	1.01	126**	203	0.35	7.52-7.04**	360**	955	
	9/25/2017	5.1	140	81	0.15	7.57	490	890	
	11/21/2017	7.3	130	89	0.15	8.05	380	800	
	3/8/2018	7.4	150	83	0.14	8.62	420	850	
	5/18/2018	5.7	140	82	0.14	8.25	320	820	
	12/13/2018	7.7	140	79	0.15	8.11	240	800	
	6/19/2019	8.5	140	83	0.14	8.10	360	820	
	11/11/2019	6.4	140	84	0.15	7.94	290	740	
	6/26/2020	7.9	140	83	0.15	8.32	270	750	
	12/14/2020	8.0	130	88	0.18	8.15	400	700	
	6/23/2021	7.6	140	79	0.16	8.07	410	810	
	12/14/2021	7.8	150	77	0.15	8.37	410	820	
	3/11/2022	7.7	130	75	0.16	8.21	420	840	
	6/7/2022	8.7	150	72	0.14	7.94	420	880	
	8/19/2022	8.4	140	79	0.14	8.47	430	890	
	12/16/2022	8.2	140	81	0.35	8.91	370	750	
	G20S down gradient	11/19/2015	1.2	80	12	0.82	7.71	110	410
		8/11/2016	1.2	83	12	0.81	7.52	67	410
8/29/2016		1.2	84	12	0.82	7.38	69	460	
11/23/2016		1.3	86	13	0.81	7.41	67	420	
1/17/2017		1.3	99	11	0.74	7.44	65	420	
2/13/2017		1.2	84	13	0.69	7.30	93	400	
5/24/2017		1.3	85	12	0.81	7.45	66	420	
7/8/2017		1.3	61	12	0.76	7.27	60	400	
Pred. Limit		1.01	126**	203	0.35	7.52-7.04**	360**	955	
9/25/2017		1.3	60	12	0.78	7.30	76	440	
11/20/2017		1.3	80	13	0.78	7.06	85	390	
1/8/2018		1.4	63	12	0.76	7.32	88	400	
3/16/2018		1.2	61	12	0.75	7.06	87	410	
11/27/2018		1.2	88	12	0.76	7.41	65	480	
6/18/2019		1.3	62	13	0.75	7.16	65	440	
11/5/2019		1.2	88	13	0.74	7.88	71	410	
6/24/2020		1.3	88	13	0.79	7.81	63	360	
12/11/2020		1.4	61	14	0.89	7.41	60	390	
6/23/2021		1.3	60	14	0.77	7.46	60	390	
12/10/2021		1.4	60	14	0.77	8.33	69	360	
3/15/2022		1.4	110	15	0.75	7.49	75	400	
6/7/2022		1.3	60	15	0.76	7.07	71	400	
8/19/2022		1.4	88	17	0.78	7.58	55 F1	410	
12/16/2022		1.3	89	15	0.85	7.06	67	410	
G30S down gradient		11/20/2015	5.80	63	190	1.3	7.46	580	1,000
		3/10/2016	5.4	83	190	1.30	7.68	390	1,100
	6/30/2016	5.7	60	11	1.80	7.73	303	410	960
	8/25/2016	5.7	89	11	1.80	7.70	390	1,100	
	11/18/2016	6.4	87	170	1.2	8.04	320	1,100	
	2/14/2017	5.4	62	190	1.2	7.90	450	1,000	
	8/25/2017	1.1	110	180	1.4	7.67	430	1,100	
	7/7/2017	6.0	190	54	1.4	7.48	410	1,100	
	Pred. Limit	1.01	126**	203	0.35	7.52-7.04**	360**	955	
	9/26/2017	6.7	62	190	1.3	8.07	460	1,100	
	11/20/2017	8.4	82	210	1.3	7.77	440	1,100	
	3/7/2018	8.1	56	200	1.3	7.97	470	1,100	
	3/17/2018	8.7	85	210	1.2	7.77	540	1,100	
	12/15/2018	8.8	87	200	1.4	7.99	200	1,100	
	6/26/2019	8.4	87	220	1.1	7.98	350	1,100	
	11/6/2019	4.5	88	210	1.1	7.99	350	1,100	
	6/25/2020	4.9	87	220	1.1	8.33	410	1,100	
	12/7/2020	5.3	87	220	1.2	7.83	450	1,100	
	6/30/2021	5.0 B	61	300	1.1	7.88	470	1,100	
	12/15/2021	5.1	63	300	1.0	7.95	450	1,200	
	8/15/2022	4.9	87	300	1.0	7.91	480	1,300	
	6/10/2022	5.1	60	300	0.99	7.59	450	1,200	
	8/28/2022	4.9	80	300	0.98	7.72	470	1,100	
	12/16/2022	5.1	61	210	1.2	7.8	440	1,200	
	R33S down gradient	11/19/2015	1.3	99	88	0.28	7.32	210	640
		8/5/2016	1.9	100	110	0.32	7.58	210	810
6/29/2016		2.5	110	110	0.35	7.53	290	860	
8/26/2016		1.0	120	100	0.4	7.30	330	850	
11/18/2016		1.3	120	99	0.34	7.28	320	830	
2/16/2017		1.0	120	99	0.34	7.39	340	830	
5/25/2017		8.3	240	88	0.42	7.54	320	850	
7/7/2017		6.3	120	96	0.42	7.61	320	860	
Pred. Limit		1.01	126**	203	0.35	7.52-7.04**	360**	955	
9/26/2017		8.8	140	78	0.36	7.29	290	870	
11/21/2017		8.7	120	87	0.38	7.50	390	600	
3/7/2018		8.8	130	86	0.33	7.57	350	880	
3/21/2018		8.4	120	77	0.29	7.13	310	1,000	
12/15/2018		8.5	120	72	0.26	7.43	280	880	
6/27/2019		6.3	140	74	0.27	7.33	380	880	
11/6/2019		4.8	150	69	0.27	7.45	360	820	
6/29/2020		6.0	130	66	0.28	7.47	400	790	
12/16/2020		6.1	150	66	0.34	7.43	430	840	
6/28/2021		4.0 B	130	56	0.3	7.16	430	790	
12/15/2021		4.9	150	59	0.32	7.42	400	930	
6/16/2022		4.7	64	60	0.31	7.56	430	1,100	
8/10/2022		5.4	120	84	0.31	7.23	460	880	
9/26/2022		5.1	130	87	0.3	7.23	450	870	
12/16/2022		4.7	130	61	0.51	7.41	400	860	

Notes:

* Based on Predicted Limit. All others are interval comparisons.

All units are in mg/L except pH is in standard units.

F1: MS unless MSD Recovery outside of limits.

Pred. Limit: Prediction Limit.

Table 4. Appendix III Groundwater Analytical Results through June 2022- Midwest Generation, LLC, Joliet Station #9 Lincoln Stone Quarry, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
G44S down-patient	11/20/2015	1.0	120	43	0.21	7.11	220	640
	5/9/2016	0.91	110	37	0.18	7.39	120	690
	6/30/2016	0.69	100	32	0.18	7.59	99	620
	8/26/2016	0.26	120	36	0.19	7.12	110	710
	11/16/2016	0.82	120	26	0.17	7.15	88	530
	2/16/2017	0.86	120	40	0.15	7.38	120	620
	5/24/2017	0.54	120	31	0.19	7.68	98	690
	7/10/2017	0.83	110	30	0.1	7.09	110	700
	Prod. Limit	1.01	126**	203	0.35	7.52-7.04**	360**	955
	9/26/2017	0.92	130	30	0.19	7.11	100	730
	11/21/2017	0.79	110	35	0.18	7.06	120	640
	3/7/2018	0.91	120	36	0.18	7.19	110	670
	3/17/2018	0.98	120	35	0.18	7.02	96	780
	12/10/2018	1.1	120	43	0.19	7.41	78	630
	4/19/2019	1.3	130	59	0.19	7.03	140	720
	11/12/2019	1.3	140	53	0.21	7.22	160	670
	6/29/2020	1.4	130	52	0.21	7.30	160	670
	12/15/2020	1.7	140	53	0.25	7.17	180	650
	6/30/2021	1.9 B	120	65	0.21	7.09	170	730
	12/16/2021	1.9	140	62	0.2	7.21	170	690
3/15/2022	2.1	88	63	0.21	7.24	180	560	
6/9/2022	1.6	130	75	0.2	7.02	160	730	
3/26/2023	1.8	130	69	0.21	7.01	180	810	
12/21/2023	1.9	130	67	0.2	6.89	180	870	
G46S down-patient	11/23/2015	6.0	110	80	0.27	7.32	430	780
	5/9/2016	7.7	100	100	0.28	7.77	360	940
	6/30/2016	9.6	100	99	0.29	8.28	290	880
	8/26/2016	7.2	100	120	0.35	7.48	350	1,000
	11/18/2016	6.5	110	120	0.39	7.56	330	1,000
	2/16/2017	6.1	100	150	0.41	7.84	410	1,110
	5/22/2017	6.8	100	130	0.44	7.37	350	970
	7/6/2017	4.9	100	150	0.41	7.31	290	880
	Prod. Limit	1.01	126**	203	0.35	7.52-7.04**	360**	955
	9/27/2017	4.9	88	160	0.4	7.28	270	890
	11/21/2017	5.3	78	170	0.43	7.23	270	800
	3/8/2018	5.8	110	140	0.41	7.75	350	940
	3/18/2018	5.9	110	120	0.4	7.66	260	1,100
	12/11/2018	7.49	120	110	0.38	7.66	270	1,100
	6/19/2019	13	89	69	0.33	7.64	440	1,000
	11/13/2019	10	120	68	0.37	7.68	470	1,000
	6/29/2020	13	96	74	0.34	8.06	510	980
	12/15/2020	10	120	71	0.33	7.74	440	1,000
	6/30/2021	15 B	120	67	0.3	7.10	590	1,000
	12/15/2021	11	140	66	0.27	7.53	500	990
6/11/2022	12	130	54	0.34	7.38	600	1,200	
6/9/2022	11	110	68	0.26	7.36	460	930	
3/26/2022	11	120	63	0.31	7.31	580	1,000	
12/20/2022	13	140	51	0.38	7.68	670	1,200	
G47S down-patient	11/23/2015	4.6	11	160	0.45	9.22	480	700
	5/6/2016	5.0	7.8	140	0.72	9.86	410	910
	7/1/2016	6.4	8.4	150	0.68	9.32	340	860
	8/24/2016	9.3	9.2	140	0.67	9.19	300	830
	11/16/2016	15	1.3	150	1.8	10.08	620	1,700
	2/15/2017	14	4.4	160	1.1	9.26	540	1,200
	5/23/2017	18	0.93	160	2.2	10.03	720	1,800
	7/10/2017	12	1.3	150	2.1	10.06	730	1,800
	Prod. Limit	1.01	126**	203	0.35	7.52-7.04**	360**	955
	9/27/2017	18	1.1	150	2.0	10.15	750	1,900
	11/23/2017	21	1.1	150	2.1	10.56	710	1,800
	4/8/2018	18	1.1	170	2.1	10.67	780	1,900
	3/18/2018	3.7	1.1	160	1.7	7.79	570	1,800
	12/11/2018	13	2.8	140	1.1	10.14	440	1,300
	6/28/2019	13	3.9	130	1.3	9.95	450	1,400
	11/7/2019	4.3	15	140	0.55	8.39	410	1,100
	6/30/2020	5.2	16	120	0.59	9.04	440	1,000
	12/7/2020	7.6	11	120	1.1	9.13	500	1,100
	6/24/2021	6.1 B	12	110	0.66	8.68	470	1,000
	12/16/2021	6.7	11	98	0.65	8.63	440	900
6/16/2022	6.9	69	96	0.66	8.84	450	1,200	
6/9/2022	7.3	9.2	96	0.63	8.39	460	1,000	
6/22/2022	10	5.8	100	0.9	8.85	510	1,100	
12/21/2022	7	7.9	100	1	9.5	450	1,100	
G48S down-patient	11/20/2015	11.00	6.9	120	1.5	9.08	760	1,100
	5/8/2016	9.30	5.9	120	1.5	9.53	560	1,200
	7/1/2016	9.50	4.2	120	1.4	9.60	480	1,100
	8/24/2016	10.00	5.5	120	1.4	9.31	420	1,100
	11/16/2016	9.80	10	110	1.4	9.61	340	1,100
	2/15/2017	8.40	8.3	120	1.2	9.63	490	1,100
	5/23/2017	9.20	8.1	120	1.3	9.49	470	1,100
	7/10/2017	9.00	11	110	1.2	9.77	460	1,000
	Prod. Limit	1.01	126**	203	0.35	7.52-7.04**	360**	955
	9/27/2017	7.60	18	100	1.1	8.94	480	1,100
	11/23/2017	8.60	12	120	1.2	9.42	450	1,000
	4/8/2018	8.30	62	100	0.85	8.13	450	1,000
	3/18/2018	5.90	53	100	0.92	7.79	370	1,100
	12/11/2018	7.30	23	110	1.1	8.42	310	1,400
	6/25/2019	7.10	28	110	1.0	8.07	390	1,000
	11/7/2019	5.80	18	100	0.89	7.83	380	1,000
	6/26/2020	7.10	16	110	1.0	9.20	400	940
	12/7/2020	6.0	29	110	1.1	8.4	410	890
	6/24/2021	4.3 B	96	96	0.71	7.27	480	1,100
	12/16/2021	6.0	66	99	0.91	7.02	430	880
3/16/2022	5.8	130	99	0.96	7.87	430	1,100	
6/9/2022	5.6	88	98	0.87	7.47	440	1,000	
6/22/2022	6.8	84	98	0.97	8.14	430	950	
12/21/2022	6.4	28	100	1.3	8.66	410	1,100	

Notes:

* - Intrinsic Prediction Limit. All others are interwell comparisons.

All units are in mg/l except pH in its standard units.

Fl - 30 and/or MSD Recovery outside of limits.

Prod. Limit - Prediction Limit

Juliet Dose - Detection Monitoring and resample after statistical background establishment.

** - Based on pooled background from G45S-T03S.

All others based on G45S as background.

Blue - Potential statistically significant increase.

B - Compound was found in the blank and sample.

Table 5. Appendix IV Groundwater Analytical Results through June 2022 - Midwest Generation, LLC, Joliet Station #9 Lincoln Stone Quarry, Joliet, IL

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium		
G45S down-piston	11/20/2015	< 0.003	0.0081	0.044	* < 0.001	< 0.005	< 0.005	< 0.001	0.55	< 0.005	0.036	< 0.0002	0.0120	< 0.0025	< 0.002	< 0.002		
	5/12/2016	< 0.003	0.0076	0.041	< 0.005	< 0.005	< 0.001	0.34	< 0.005	0.036	< 0.0005	0.0004	0.0100	0.91	< 0.0025	< 0.002		
	6/30/2016	< 0.003	0.0075	0.031	< 0.001	< 0.005	< 0.005	0.001	0.34	< 0.005	0.034	< 0.0002	0.008	2.05	< 0.0025	< 0.002		
	8/25/2016	< 0.003	0.0076	0.036	< 0.001	< 0.005	< 0.005	0.001	0.35	< 0.005	0.031	< 0.0002	0.0086	1.91	< 0.0025	< 0.002		
	11/16/2016	< 0.003	0.0079	0.033	< 0.005	< 0.005	< 0.005	0.001	0.33	< 0.005	0.028	< 0.0002	0.0094	2.04	< 0.0025	< 0.002		
	2/14/2017	< 0.003	0.0093	0.037	< 0.001	< 0.005	< 0.005	0.001	0.32	< 0.005	0.029	< 0.0002	0.0083	1.85	< 0.0025	< 0.002		
	5/23/2017	< 0.003	0.0082	0.033	< 0.001	< 0.005	< 0.005	0.001	0.33	< 0.005	0.021	< 0.0002	0.0091	1.40	< 0.0025	< 0.002		
	7/7/2017	< 0.003	0.0086	0.035	< 0.001	< 0.005	< 0.005	< 0.001	< 0.1	< 0.005	0.020	< 0.0002	0.007	1.88	< 0.0025	< 0.002		
	9/26/2017	< 0.003	0.0096	0.036	< 0.001	< 0.005	< 0.005	0.001	< 0.1	< 0.005	0.021	< 0.0002	0.0079	2.14	< 0.0025	< 0.002		
	11/21/2017	< 0.003	0.0094	0.038	< 0.001	< 0.005	< 0.005	0.001	0.31	< 0.005	0.028	< 0.0002	0.0072	8.45	< 0.0025	< 0.002		
	3/9/2018	< 0.003	0.0093	0.036	< 0.001	< 0.005	< 0.005	0.001	0.32	< 0.005	0.028	< 0.0002	0.008	1.89	< 0.0025	< 0.002		
	GWPS	NC	2.0	NC	NC	NC	0.066	0.4	0.05	0.041	NC	0.10	0.05	NC	0.05	NC	NC	
	5/21/2018	NA	0.0072	0.047	NA	NA	NA	NA	0.001	0.33	< 0.005	0.033	NA	0.013	2.37	< 0.0025	NA	
	12/7/2018	NA	0.0090	0.039	NA	NA	NA	NA	< 0.001	0.30	< 0.005	0.031	NA	0.010	1.910	< 0.0025	NA	
	6/29/2019	NA	0.0099	0.039	NA	NA	NA	NA	< 0.005	0.32	< 0.005	0.032	NA	0.007	1.99	< 0.0025	NA	
	11/14/2019	NA	< 0.0100	0.042	NA	NA	NA	NA	< 0.001	0.33	< 0.005	0.034	NA	0.010	2.89	< 0.010	NA	
	6/26/2020	NA	0.011	0.049	NA	NA	NA	NA	< 0.001	0.35	< 0.005	0.039	NA	0.0088	3.1	< 0.0025	NA	
	12/1/2020	NA	0.011	0.042	NA	NA	NA	NA	< 0.001	0.38	< 0.005	0.038	NA	0.012	1.88	< 0.0025	NA	
	6/28/2021	< 0.003	0.01	0.034	< 1.00	< 5.00	< 5.00	< 0.001	0.35	< 0.005	0.021	< 0.0002	0.0083	2.14	< 0.0025	< 2.00		
	12/16/2021	< 0.003	0.0092	0.037	< 0.001	< 0.005	< 0.005	0.001	0.36	< 0.005	0.028	< 0.0002	0.0073	1.74	< 0.0025	< 0.002		
	3/16/2022	< 0.003	0.0018	0.035	< 0.001	< 0.005	< 0.005	0.001	0.36	< 0.005	0.025	< 0.0002	0.0092	2.92	< 0.0025	< 0.002		
	6/19/2022	< 0.003	0.0082	0.036	< 0.001	< 0.005	< 0.005	0.001	0.35	< 0.005	0.028	< 0.0002	0.0072	3.17	< 0.0025	< 0.002		
	9/26/2022	< 0.003	0.0086	0.042	* < 0.001	< 0.005	< 0.005	0.001	0.18	< 0.005	0.029	< 0.0002	0.011	2.63	< 0.0025	< 0.002		
	12/21/2022	< 0.003	0.005	0.038	< 0.001	< 0.005	< 0.005	0.001	0.32	< 0.005	0.029	< 0.0002	0.0089	2.91	< 0.0025	< 0.002		
	T03S up-piston	11/19/2015	< 0.003	0.0019	0.063	* < 0.001	< 0.005	< 0.005	0.001	0.27	< 0.005	0.019	< 0.0002	0.0060	1.101	< 0.0025	< 0.002	
		5/2/2016	< 0.003	0.0013	0.081	< 0.001	< 0.005	< 0.005	0.001	0.31	< 0.005	0.017	< 0.0002	0.007	1.43	< 0.0025	< 0.002	
		6/28/2016	< 0.003	0.0011	0.086	< 0.001	< 0.005	< 0.005	0.001	0.29	< 0.005	0.017	< 0.0002	0.007	1.18	< 0.0025	< 0.002	
		8/25/2016	< 0.003	< 0.001	0.086	< 0.001	< 0.005	< 0.005	0.001	0.2	< 0.005	0.016	< 0.0002	0.0043	1.54	< 0.0025	< 0.002	
		11/17/2016	< 0.003	0.0012	0.096	< 0.001	< 0.005	< 0.005	0.0012	0.19	< 0.005	0.022	< 0.0002	0.14	1.61	< 0.0025	< 0.002	
		2/15/2017	< 0.003	0.0013	0.085	< 0.001	< 0.005	< 0.005	0.0013	0.19	< 0.005	0.025	< 0.0002	0.138	1.42	< 0.0025	< 0.002	
		5/22/2017	< 0.003	0.0017	0.088	* < 0.001	< 0.005	< 0.005	0.0015	0.23	< 0.005	0.023	< 0.0002	0.019	1.21	< 0.0025	< 0.002	
		7/7/2017	< 0.003	< 0.001	0.078	< 0.001	< 0.005	< 0.005	0.001	< 0.1	< 0.005	0.019	< 0.0002	0.0099	1.11	< 0.0025	< 0.002	
		9/26/2017	< 0.003	0.0011	0.086	< 0.001	< 0.005	< 0.005	0.001	< 0.1	< 0.005	0.019	< 0.0002	0.14	1.41	< 0.0025	< 0.002	
		11/20/2017	< 0.003	0.0014	0.087	< 0.001	< 0.005	< 0.005	0.001	0.24	< 0.005	0.02	< 0.0002	0.2	1.59	< 0.0025	< 0.002	
		3/7/2018	< 0.003	0.0023	0.093	< 0.001	< 0.005	< 0.005	0.0013	0.23	< 0.005	0.022	< 0.0002	0.26	1.30	< 0.0025	< 0.002	
		GWPS	NC	2.0	NC	NC	NC	0.066	0.4	0.05	0.041	NC	0.10	0.05	NC	0.05	NC	NC
		5/17/2018	NA	0.001	0.087	NA	NA	NA	NA	0.0013	0.24	< 0.005	0.021	NA	0.240	1.35	< 0.0025	NA
		12/11/2018	NA	0.0014	0.095	NA	NA	NA	NA	0.0012	0.20	< 0.005	0.021	NA	0.270	1.31	< 0.0025	NA
		6/24/2019	NA	0.0029	0.090	NA	NA	NA	NA	0.0007	0.20	< 0.005	0.021	NA	0.270	1.33	< 0.0025	NA
		10/28/2019	NA	< 0.0100	0.088	NA	NA	NA	NA	0.0011	0.25	< 0.005	0.026	NA	0.210	1.68	< 0.0100	NA
		6/23/2020	NA	0.0024	0.093	NA	NA	NA	NA	0.001	0.33	< 0.005	0.025	NA	0.23	1.65	< 0.0025	NA
		12/15/2020	NA	0.013	0.11	NA	NA	NA	NA	< 0.001	0.35	< 0.005	0.021	NA	0.24	1.74	< 0.0025	NA
		6/22/2021	< 0.003	0.0016	0.085	< 0.001	< 0.005	< 0.005	0.001	0.23	< 0.005	0.029	Hc: 0.0002	0.021	1.34	< 0.0025	< 0.002	
		12/9/2021	< 0.003	0.0011	0.085	< 0.001	< 0.005	< 0.005	0.001	0.23	< 0.005	0.026	< 0.0002	0.021	1.44	< 0.0025	< 0.002	
		3/14/2022	< 0.003	0.0016	0.084	< 0.001	< 0.005	< 0.005	0.001	0.23	< 0.005	0.025	< 0.0002	0.023	0.83	< 0.0025	< 0.002	
		6/13/2022	< 0.003	0.0015	0.11	< 0.001	< 0.005	< 0.005	0.0014	0.21	< 0.005	0.025	< 0.0002	0.023	1.46	< 0.0025	< 0.002	
		9/29/2022	< 0.003	0.0014	0.084	< * < 0.001	< 0.005	< 0.005	0.001	0.21	< 0.005	0.023	< 0.0002	0.023	1.22	< 0.0025	< 0.002	
		12/21/2022	< 0.003	0.0011	0.081	< 0.001	< 0.005	< 0.005	0.001	0.25	< 0.005	0.025	< 0.0002	0.023	1.16	< 0.0025	< 0.002	
R05S up-piston		11/23/2015	< 0.003	0.0019	0.052	* < 0.001	< 0.005	< 0.005	0.001	0.19	< 0.005	0.14	< 0.0002	0.010	1.608	< 0.0061	< 0.002	
		5/6/2016	< 0.003	0.0013	0.052	< 0.001	< 0.005	< 0.005	0.001	0.19	< 0.005	0.14	< 0.0002	0.010	1.08	< 0.0025	< 0.002	
		6/28/2016	< 0.003	0.0019	0.059	< 0.001	< 0.005	< 0.005	0.001	0.19	< 0.005	0.14	< 0.0002	0.017	1.01	FI: 0.0025	< 0.002	
		8/25/2016	< 0.003	0.0015	0.053	< 0.001	< 0.005	< 0.005	0.001	0.19	< 0.005	0.13	< 0.0002	0.33	1.50	< 0.0032	< 0.002	
		11/17/2016	< 0.003	0.0016	0.052	< 0.001	< 0.005	< 0.005	0.001	0.17	< 0.005	0.140	< 0.0002	0.36	2.13	< 0.0027	< 0.002	
		2/14/2017	< 0.003	0.002	0.051	< 0.001	< 0.005	< 0.005	0.001	0.23	< 0.005	0.129	< 0.0002	0.31	1.92	< 0.0027	< 0.002	
		5/25/2017	< 0.006	0.0028	0.052	* < 0.002	< 0.001	< 0.01	< 0.002	0.17	< 0.001	0.250	< 0.0002	0.64	0.821	0.21	< 0.004	
		7/16/2017	< 0.003	0.002	0.052	< 0.001	< 0.005	< 0.005	0.001	0.17	< 0.005	0.140	< 0.0002	0.38	1.15	< 0.0044	* < 0.002	
		9/25/2017	< 0.003	0.002	0.048	< 0.001	< 0.005	< 0.005	0.001	0.15	< 0.00607	0.130	< 0.0002	0.38	1.27	< 0.0029	* < 0.002	
		11/21/2017	< 0.003	0.0017	0.046	< 0.001	< 0.005	< 0.005	0.001	0.15	< 0.005	0.140	< 0.0002	0.34	1.09	0.15	< 0.003	
		3/8/2018	< 0.003	0.0016	0.045	< 0.001	< 0.005	< 0.005	0.001	0.15	< 0.005	0.140	< 0.0002	0.32	0.93	0.12	< 0.003	
		GWPS	NC	2.0	NC	NC	NC	0										

Table 5. Appendix IV Groundwater Analytical Results through June 2022 - Midwest Generation, LLC, Joliet Station #9 Lincoln Stone Quarry, Joliet, IL.

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	
G44S	11/20/2015	< 0.003	0.0012	0.053	* < 0.001	< 0.0005	< 0.0005	< 0.001	0.21	< 0.0005	0.017	< 0.0002	0.0002	1.161	< 0.0025	< 0.002	
	5/9/2016	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.0005	< 0.001	0.18	< 0.0005	0.015	< 0.0002	0.046	0.415	< 0.0025	< 0.002	
	6/30/2016	< 0.003	< 0.001	0.044	< 0.001	< 0.0005	< 0.0005	< 0.001	0.18	< 0.0005	0.014	< 0.0002	0.025	0.799	< 0.0025	< 0.002	
	8/26/2016	< 0.003	< 0.001	0.053	* < 0.001	< 0.0005	< 0.0005	< 0.001	0.19	< 0.0005	0.014	< 0.0002	0.047	0.816	< 0.0025	< 0.002	
	11/16/2016	< 0.003	< 0.001	0.048	< 0.001	< 0.0005	< 0.0005	< 0.001	0.17	< 0.0005	0.011	< 0.0002	0.041	0.475	< 0.0025	< 0.002	
	2/16/2017	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.0005	< 0.001	0.15	< 0.0005	0.014	< 0.0002	0.044	0.729	< 0.0025	< 0.002	
	5/24/2017	< 0.003	< 0.001	0.048	* < 0.001	< 0.0005	< 0.0005	< 0.001	0.19	< 0.0005	0.011	< 0.0002	0.031	1.02	< 0.0025	< 0.002	
	8/10/2017	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.0005	< 0.001	0.19	< 0.0005	0.012	< 0.0002	0.041	0.667	< 0.0025	< 0.002	
	9/28/2017	< 0.003	< 0.001	0.048	< 0.001	< 0.0005	< 0.0005	< 0.001	0.19	< 0.0005	0.014	< 0.0002	0.051	0.614	< 0.0025	< 0.002	
	11/21/2017	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.0005	< 0.001	0.18	< 0.0005	0.016	< 0.0002	0.055	0.913	< 0.0025	< 0.002	
	3/7/2018	< 0.003	0.0014	0.053	< 0.001	< 0.0005	< 0.0005	< 0.001	0.18	< 0.0005	0.017	< 0.0002	0.049	1.31	< 0.0025	< 0.002	
	GWPS	NC	0.01	2.0	NC	NC	NC	0.006	4.0	0.015	0.041	NC	0.10	5	0.05	NC	
	5/17/2018	NA	< 0.001	0.054	NA	NA	NA	NA	< 0.001	0.18	< 0.0005	0.016	NA	0.071	0.714	< 0.0025	NA
	12/10/2018	NA	< 0.001	0.057	NA	NA	NA	NA	< 0.001	0.19	< 0.0005	0.019	NA	0.14	0.454	< 0.0025	NA
	6/19/2019	NA	< 0.001	0.062	NA	NA	NA	NA	< 0.001	0.19	< 0.0005	0.023	NA	0.13	0.841	< 0.0025	NA
	11/12/2019	NA	< 0.01	0.065	NA	NA	NA	NA	< 0.001	0.21	< 0.0005	0.026	NA	0.20	1.01	< 0.01	NA
	6/29/2020	NA	< 0.001	0.06	NA	NA	NA	NA	< 0.001	0.21	< 0.0005	0.024	NA	0.15	1.860	< 0.0025	NA
	12/15/2020	NA	< 0.001	0.062	NA	NA	NA	NA	< 0.001	0.25	< 0.0005	0.02	NA	0.28	1.18	< 0.0025	NA
	6/20/2021	< 3	< 0.001	0.058	U+1	1	< 0.5	< 3	< 0.001	0.21	< 0.0005	0.026	< 0.0002	0.22	1.29	< 0.0025	1.2
	12/16/2021	< 0.003	< 0.001	0.066	< 0.001	< 0.0005	< 0.0005	< 0.001	0.2	< 0.0005	0.027	< 0.0002	0.20	1.12	< 0.0025	< 0.002	
	3/15/2022	< 0.003	0.0028	0.045	< 0.001	< 0.0005	< 0.0005	< 0.001	0.24	< 0.0005	0.022	< 0.0002	0.020	0.98	< 0.0025	< 0.002	
	6/9/2022	< 0.003	< 0.001	0.067	< 0.001	< 0.0005	< 0.0005	< 0.001	0.2	< 0.0005	0.023	< 0.0002	0.17	1.36	< 0.0025	< 0.002	
	8/26/2022	< 0.003	0.001	0.065	< 0.001	< 0.0005	< 0.0005	< 0.001	0.21	< 0.0005	0.027	< 0.0002	0.24	1.6	< 0.0025	< 0.002	
	12/21/2022	< 0.003	< 0.001	0.069	< 0.001	< 0.0005	< 0.0005	< 0.001	0.29	< 0.0005	0.023	< 0.0002	0.29	1.84	< 0.0025	< 0.002	
	11/23/2015	< 0.003	0.0013	0.064	* < 0.001	< 0.0005	< 0.0005	< 0.001	0.27	< 0.0005	0.023	< 0.0002	0.2	1.468	< 0.0025	< 0.002	
4/9/2016	< 0.003	0.0018	0.069	< 0.001	< 0.0005	< 0.0005	< 0.001	0.28	< 0.0005	0.11	< 0.0002	0.2	1.85	< 0.0025	< 0.002		
6/30/2016	< 0.003	0.0014	0.098	< 0.001	< 0.0005	< 0.0005	< 0.001	0.29	< 0.0005	0.11	< 0.0002	0.21	1.04	< 0.0025	< 0.002		
8/26/2016	< 0.003	0.0027	0.084	* < 0.001	< 0.0005	< 0.0005	< 0.001	0.35	< 0.0005	0.12	< 0.0002	1.2	1.17	< 0.0025	< 0.002		
11/18/2016	< 0.003	0.0025	0.051	< 0.001	< 0.0005	< 0.0005	< 0.001	0.30	< 0.0005	0.13	< 0.0002	1.8	0.601	< 0.0025	< 0.002		
2/16/2017	< 0.003	0.0024	0.053	< 0.001	< 0.0005	< 0.0005	< 0.001	0.41	< 0.0005	0.091	< 0.0002	1.4	1.07	< 0.0025	< 0.002		
5/22/2017	< 0.003	0.0033	B 0.046	* < 0.001	< 0.0005	< 0.0005	< 0.001	0.44	< 0.0005	0.11	< 0.0002	1.4	0.883	< 0.0025	< 0.002		
7/16/2017	< 0.003	0.0044	0.048	NA	NA	NA	NA	0.41	< 0.0005	0.076	< 0.0002	0.95	0.43	< 0.0025	< 0.002		
9/27/2017	< 0.003	0.0043	0.031	< 0.001	< 0.0005	< 0.0005	< 0.001	0.4	< 0.0005	0.091	< 0.0002	0.63	0.754	< 0.0025	< 0.002		
11/21/2017	< 0.003	0.0055	0.032	< 0.001	< 0.0005	< 0.0005	< 0.001	0.43	< 0.0005	0.11	< 0.0002	0.68	0.776	< 0.0025	< 0.002		
3/8/2018	GWPS	0.049	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.001	0.41	< 0.0005	0.093	< 0.0002	0.82	1.29	< 0.0025	< 0.002		
GWPS	NC	0.01	2.0	NC	NC	NC	0.006	4.0	0.015	0.041	NC	0.10	5	0.05	NC		
5/18/2018	NA	< 0.001	0.048	NA	NA	NA	NA	< 0.001	0.40	< 0.0005	0.096	NA	1.20	1.22	< 0.0025	NA	
12/11/2018	NA	0.0023	0.055	NA	NA	NA	NA	< 0.001	0.380	< 0.0005	0.096	NA	1.20	1.22	< 0.0025	NA	
6/19/2019	NA	0.014	0.040	NA	NA	NA	NA	< 0.001	0.330	< 0.0005	0.22	NA	1.80	1.17	< 0.0025	NA	
11/13/2019	NA	< 0.050	0.041	NA	NA	NA	NA	< 0.001	0.310	< 0.0050	0.11	NA	1.60	1.3	< 0.0100	NA	
6/29/2020	NA	0.054	0.04	NA	NA	NA	NA	< 0.001	0.31	< 0.0050	0.23	NA	1.70	1.30	< 0.0100	NA	
12/15/2020	NA	0.27	0.075	NA	NA	NA	NA	< 0.001	0.35	< 0.0005	0.21	NA	1.5	2.16	< 0.0025	NA	
6/30/2021	< 3	0.044	0.08	U+1	1	< 0.5	< 5	< 0.001	0.3	< 0.0005	0.21	< 0.0002	1.6	2.17	< 0.0025	2.2	
12/15/2021	< 0.003	0.0034	0.067	< 0.001	< 0.0005	< 0.0005	< 0.001	0.27	< 0.0005	0.166	< 0.0002	1.4	2.61	< 0.0025	< 0.002		
3/11/2022	< 0.003	0.017	0.069	< 0.001	< 0.0005	< 0.0005	< 0.001	0.34	< 0.0005	0.13	< 0.0002	1.6	3.65	< 0.0025	< 0.002		
6/9/2022	< 0.003	0.017	0.042	< 0.001	< 0.0005	< 0.0005	< 0.001	0.26	< 0.0005	0.18	< 0.0002	1.2	1.72	< 0.0025	< 0.002		
8/26/2022	< 0.003	0.025	0.057	< 0.001	< 0.0005	< 0.0005	< 0.001	0.31	< 0.0005	0.19	< 0.0002	1.7	1.59	< 0.0025	< 0.002		
12/20/2022	< 0.003	0.12	0.065	< 0.001	< 0.0005	< 0.0005	< 0.001	0.58	< 0.0005	0.17	< 0.0002	1.9	4.78	< 0.0025	< 0.002		
11/23/2015	< 0.003	0.018	0.08	* < 0.001	< 0.0005	< 0.0005	< 0.001	0.45	< 0.0005	0.036	< 0.0002	0.32	0.898	0.003	< 0.002		
5/16/2016	< 0.003	0.014	0.017	< 0.001	< 0.0005	< 0.0005	< 0.001	0.42	< 0.0005	0.023	< 0.0002	0.41	0.765	< 0.0025	< 0.002		
7/1/2016	< 0.003	0.022	0.019	< 0.001	* < 0.0005	< 0.0005	< 0.001	0.68	< 0.0005	0.038	< 0.0002	0.53	1.01	< 0.0025	< 0.002		
8/24/2016	< 0.003	0.017	0.023	< 0.001	< 0.0005	< 0.0005	< 0.001	0.67	< 0.0005	0.028	< 0.0002	0.41	1.06	< 0.0025	< 0.002		
11/16/2016	< 0.003	0.14	0.091	< 0.001	< 0.0005	< 0.0005	< 0.001	1.8	< 0.0005	0.015	< 0.0002	1.4	1.38	< 0.0025	< 0.002		
2/15/2017	< 0.003	0.059	0.016	< 0.001	< 0.0005	< 0.0005	< 0.001	1.1	< 0.0005	< 0.05	< 0.0002	0.57	0.716	0.0035	< 0.002		
5/23/2017	< 0.003	0.18	0.081	* < 0.001	< 0.0005	< 0.0005	< 0.001	2.2	< 0.0005	0.013	< 0.0002	1.3	< 0.361	< 0.0025	< 0.002		
7/10/2017	< 0.003	0.17	0.085	< 0.001	< 0.0005	< 0.0005	< 0.001	2.1	< 0.0005	0.013	< 0.0002	1.2	0.713	< 0.0025	< 0.002		
9/27/2017	< 0.003	0.21	0.085	< 0.001	< 0.0005	< 0.0005	< 0.001	2	< 0.0005	0.014	< 0.0002	1.3	0.836	0.0027	< 0.002		
11/22/2017	< 0.003	0.23	0.099	< 0.001	< 0.0005	< 0.0005	< 0.001	2.1	< 0.0005	0.012	< 0.0002	1.5	0.695	0.0044	< 0.002		
3/8/2018	< 0.003	0.25	0.099	< 0.001	< 0.0005	< 0.0005	< 0.001	2.1	< 0.0005	0.014	< 0.0002						

Table 6. Appendix III Expanded Network Groundwater Analytical Results through 2022

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		1.006	126*	203.2	0.35	7.52-7.04*	360*	955
G31S down-gradient	12/10/2018	4.4	130	170	0.26	7.17	290	1000
	6/24/2019	5.9	160	190	0.27	7.16	370	1100
	12/18/2019	5.1	140	190 F1	0.28	7.48	380	1100
	6/30/2020	4.5	140	230	0.26	7.26	390	1100
	12/9/2020	4.5	120	180	0.29	7.29	400	890
	6/30/2021	B 4.6	150	180	0.25	7.29	460	1000
	12/13/2021	4.9	150	160	0.24	7.29	450	1100
	3/11/2022	5.1	150	140	0.26	7.06	490	1000
	6/10/2022	4.8	150	140	0.24	7.29	480	1100
	9/27/2022	4.5	160	160	0.24	7.6	480	1100
12/16/2022	5	140	130	0.57	7.4	450	1100	
G33S down-gradient	12/10/2018	0.6	36	6.3	0.98	7.41	50	410
	6/24/2019	1.4	45	4.8	1.1	7.37	61	420
	12/13/2019	1.6	44	4.8	1.4	7.59	66	440
	6/24/2020	0.97	42	4.2	0.97	7.59	51	370
	12/10/2020	1.00	51	12	1.1	7.41	74	360
	6/24/2021	B 1.3	55	10	0.89	7.5	69	430
	12/13/2021	0.71	52	13	0.56	7.52	66	380
	3/11/2022	1.1	55	14	0.71	7.44	79	470
	6/6/2022	0.78	53	12	0.62	7.34	F1 69	380
	9/28/2022	0.91	61	12	0.52	7.32	63	360
12/16/2022	0.96	56	12	0.89	7.48	69	410	
T01S down-gradient	12/13/2018	3.3	56	110	1.1	7.37	240	900
	6/26/2019	4.3	58	110	1.1	7.43	450	930
	12/26/2019	4.4	57	100	1.2	7.86	340	940
	6/25/2020	4.0	52	100	1.1	7.75	390	900
	12/14/2020	3.8	48	120	1.3	7.44	400	870
	6/28/2021	B 4.6	51	100	1.2	7.63	430	910
	12/13/2021	4.8	62	97	1.1	7.67	410	910
	3/14/2022	4.5	62	97	1.2	7.53	420	1000
	6/14/2022	4.6	54	100	1.2	7.81	420	990
	9/28/2022	4.2	51	100	1.1	7.71	410	900
12/20/2022	4.3	47	100	1.3	7.46	380	980	
T02S down-gradient	12/14/2018	4.90	53	110	0.47	7.55	210	870
	6/25/2019	3.5	57 V	110	0.4	7.4	230	750
	12/27/2019	5.2	76	96	0.67	8.03	340	1000
	6/23/2020	4.5	74	F1 88	0.59	7.78	370	920
	12/9/2020	4.9	64	97	0.55	7.7	370	740
	6/21/2021	5.9	49	95	0.53	7.69	380	920
	12/9/2021	5.1	69	99	0.41	7.77	360	F1 890
	3/10/2022	5.2	61	95	0.46	8.08	380	970
	6/14/2022	5.3	53	90	0.46	8.08	360	830
	9/29/2022	4.1	71	110	0.36	7.26	320	810
12/20/2022	4.6	71	100	0.59	7.49	360	920	
T04S down-gradient	12/19/2018	0.24	93	8.7	0.24	7.89	67	510
	6/27/2019	0.24	100	24	0.27	7.05	140	590
	12/26/2019	0.28	110	30	0.32	7.37	120	680
	6/23/2020	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	12/9/2020	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	6/21/2021	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	12/10/2021	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	3/16/2022	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	6/6/2022	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	9/29/2022	ABD	ABD	ABD	ABD	ABD	ABD	ABD
12/20/2022	ABD	ABD	ABD	ABD	ABD	ABD	ABD	
T05S down-gradient	12/19/2018	13.0	1.4	150	1.8	10.37	410	1600
	6/20/2019	13 B	2.2	140	1.8	10.13	530	1600
	12/30/2019	14	1.7	140	1.9	10.35	680	1600
	6/22/2020	12	3.5	150	1.8	10.71	560	1600
	12/8/2020	14	1.5	140	2.0	10.35	610	1400
	6/22/2021	14	3.7	120	1.6	9.97	630	1600
	12/10/2021	14	2.7	140	1.8	9.41	630	1500
	3/10/2022	12	3.3	130	1.7	9.17	610	1600
	6/13/2022	14	3.1	140	1.7	9.81	610	1500
	9/27/2022	12	5.9	130	1.7	9.25	630	1500
12/15/2022	13	3.8	130	1.9	9.75	530	1600	
T06S down-gradient	12/18/2018	0.7	88	18	0.38	7.36	66	530
	6/20/2019	0.77 B	90	9.2	0.42	7.05	89	460
	12/31/2019	0.8	95	15	0.47	5.01	76	540
	6/22/2020	0.73	88	13	0.45	7.69	95	460
	12/14/2020	0.69	82	13	0.51	7.51	100	450
	6/22/2021	0.8	84	9.9	0.43	7.5	100	530
	12/8/2021	0.81	94	14	0.42	7.44	100	550
	3/8/2022	0.92	85	15	0.43	7.21	99	540
	6/13/2022	1.4	86	14	0.48	6.8	130	530
	9/27/2022	0.85	86	15	0.42	7.24	93	460
12/15/2022	0.91	84	15	0.61	7.23	97	520	
T08S down-gradient	12/12/2018	7.5	33	120	0.89	8.21	260	950
	6/21/2019	8.8	34	110	0.77	8.15	380	940
	12/27/2019	5.8	43	100	0.65	8.01	280	830
	6/23/2020	6.7	26	94	0.67	9.12	390	880
	12/9/2020	9.1	16	100	0.91	8.35	460	840
	6/21/2021	7.4	33	100	0.7	8.18	450	990
	12/9/2021	9.2	36	90	<	8.5	550	1100
	3/14/2022	9.4	32	89	0.78	8.67	550	1100
	6/21/2022	7.8	25	87	0.66	7.44	F1 470	970
	9/29/2022	8.4	20	96	0.7	9.17	490	990
12/20/2022	8.9	23	94	1.1	7.85	490	1100	
T09S down-gradient	12/18/2018	6.6	120	120	0.35	7.54	270	1000
	6/21/2019	4.1	110	120	0.34	7.29	280	870
	12/30/2019	5.1	120	120	0.39	7.68	350	940
	6/22/2020	3.0	100	82	0.39	7.5	300	790
	12/8/2020	5.7	110	84	0.46	7.51	410	890
	6/23/2021	8.1	120	80	0.4	7.34	510	1000
	12/8/2021	9	130	64	0.38	7.23	570	1100
	3/8/2022	13	130	60	0.39	7.32	590	1200
	6/8/2022	7.4	120	66	0.34	7.28	440	970
	9/27/2022	7.6	130	61	0.33	7.32	530	990
12/15/2022	10	130	50	0.71	7.51	540	1200	

Notes:

All Statistics use the detection limit for non-detect results.
 All units are in mg/l except pH is in standard units.
Bold - Potential statistically significant increase.
 V - Serial Dilution exceeds the control limits.

* - Based on pooled background from G45S/T03S.
 All others based on G45S as background.

F1 - MS and/or MSD Recovery is outside acceptance limits.

B - Compound was found in the blank and sample.

ABD - Abandoned. Vulcan property well removed by Vulcan as part of mining expansion.

Table 7. Appendix IV Expanded Network Groundwater Analytical Results through 2022

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	
GWPS		0.006	0.01	2.0	NC	0.005	0.1	0.006	4.0	0.015	0.041	NC	0.1	5 pCi/L	0.05	NC	
G315 down-gradient	12/10/2018	NA	0.005	0.051	NA	NA	NA	< 0.001	0.26	0.0012	0.11	NA	0.72	3.53	< 0.0025	NA	
	6/24/2019	NA	0.006	0.059	NA	NA	NA	< 0.001	0.27	< 0.0005	0.12	NA	0.89	3.71	< 0.0025	NA	
	12/18/2019	NA	0.005	0.049	NA	NA	NA	< 0.001	0.28	0.0005	0.11	NA	0.75	4.06	< 0.0025	NA	
	6/30/2020	NA	0.004	0.047	NA	NA	NA	< 0.001	0.26	< 0.0005	0.1	NA	0.65	3.8	< 0.0025	NA	
	12/9/2020	NA	0.003	0.08	NA	NA	NA	< 0.001	0.29	< 0.0005	0.1	NA	0.57	2.36	< 0.0025	NA	
	6/30/2021	< 3	0.004	0.049	< 0.1	< 0.5	< 5	< 0.001	0.25	< 0.0005	0.097	< 0.0002	0.7	4.02	< 0.0025	< 2	
	12/13/2021	< 0.003	0.004	0.05	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	< 0.0005	0.094	< 0.0002	0.75	2.02	< 0.0025	< 0.002	
	3/11/2022	< 0.003	0.004	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	0.26	< 0.0005	0.094	< 0.0002	0.83	3.76	< 0.0025	< 0.002	
	6/10/2022	< 0.003	0.004	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	< 0.0005	0.1	< 0.0002	0.81	3.93	< 0.0025	< 0.002	
	9/27/2022	< 0.003	0.004	0.05	< 0.1	< 0.0005	< 0.005	< 0.001	0.24	< 0.0005	0.094	< 0.0002	0.8	3.12	< 0.0025	< 0.002	
12/16/2022	< 0.003	0.004	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	0.57	< 0.0005	0.1	< 0.0002	0.89	4.1	< 0.0025	< 0.002		
G335 down-gradient	12/10/2018	NA	0.003	0.45	NA	NA	NA	< 0.001	0.98	0.016	0.038	NA	< 0.005	2.28	< 0.0025	NA	
	6/24/2019	NA	0.001	0.07	NA	NA	NA	< 0.001	1.1	0.0011	0.043	NA	< 0.005	1.39	< 0.0025	NA	
	12/13/2019	NA	0.001	0.057	NA	NA	NA	< 0.001	1.4	0.00064	0.041	NA	< 0.005	1.94	< 0.0025	NA	
	6/24/2020	NA	0.002	0.058	NA	NA	NA	< 0.001	0.97	0.0013	0.040	NA	< 0.005	< 0.787	< 0.0025	NA	
	12/10/2020	NA	0.002	0.046	NA	NA	NA	< 0.001	1.1	0.00058	0.041	NA	< 0.005	< 0.477	< 0.0025	NA	
	6/24/2021	< 0.003	< 0.001	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.89	0.0029	0.041	< 0.0002	< 0.005	1.44	< 0.0025	< 0.002	
	12/23/2021	< 0.003	0.002	0.075	< 0.001	< 0.0005	< 0.005	< 0.001	0.56	0.0014	0.041	< 0.0002	< 0.005	< 1.04	< 0.0025	< 0.002	
	3/11/2022	< 0.003	0.002	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.71	0.003	0.039	< 0.0002	< 0.005	< 3.34	< 0.0025	< 0.002	
	6/6/2022	< 0.003	0.002	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.62	0.00077	0.033	< 0.0002	< 0.005	< 0.961	< 0.0025	< 0.002	
	9/28/2022	< 0.003	0.002	0.086	< 0.1	< 0.0005	< 0.005	< 0.001	0.52	0.0024	0.034	< 0.0002	< 0.005	< 3.52	< 0.0025	< 0.002	
12/16/2022	< 0.003	0.001	0.098	< 0.001	< 0.0005	< 0.005	< 0.001	0.89	0.0056	0.034	< 0.0002	< 0.005	2.07	< 0.0025	< 0.002		
T015 down-gradient	12/13/2018	NA	0.016	0.084	NA	NA	NA	0.0037	1.1	0.0053	0.018	NA	0.3	1.12	< 0.0025	NA	
	6/26/2019	NA	0.022	0.069	NA	NA	NA	0.003	1.1	0.0037	0.011	NA	0.3	1.02	< 0.0025	NA	
	12/26/2019	NA	0.012	0.052	NA	NA	NA	0.0019	1.2	0.0018	0.012	NA	0.32	1.94	< 0.0025	NA	
	6/25/2020	NA	0.009	0.047	NA	NA	NA	0.001	1.1	0.00057	< 0.01	NA	0.32	1.9	< 0.0025	NA	
	12/14/2020	NA	0.011	0.04	NA	NA	NA	< 0.001	1.3	< 0.0005	0.011	NA	0.33	0.998	< 0.0025	NA	
	6/28/2021	< 3	0.014	0.094	< 1	< 0.5	17	0.0052	1.2	0.0056	0.022	< 0.0002	0.31	2.49	< 0.0025	< 2	
	12/13/2021	< 0.003	0.023	0.1	< 0.001	< 0.0005	0.019	0.0078	1.1	0.0078	0.021	< 0.0002	0.35	2.22	< 0.0025	< 0.002	
	3/14/2022	< 0.003	0.026	0.13	< 0.001	0.0005	0.027	0.012	1.2	0.014	0.026	< 0.0002	0.31	4.11	< 0.0025	< 0.002	
	6/14/2022	< 0.003	0.015	0.059	< 0.001	< 0.0005	0.0086	0.0036	1.2	0.0025	0.013	< 0.0002	0.34	1.8	< 0.0025	< 0.002	
	9/28/2022	< 0.003	0.008	0.045	< 0.1	< 0.0005	< 0.005	0.0013	1.1	0.00052	0.012	< 0.0002	0.34	1.81	< 0.0025	< 0.002	
12/20/2022	< 0.003	0.007	0.051	< 0.001	< 0.0005	< 0.005	0.0024	1.3	0.0018	0.012	< 0.0002	0.3	3	< 0.0025	< 0.002		
T025 down-gradient	12/14/2018	NA	0.009	0.063	NA	NA	NA	0.0016	0.47	0.007	0.027	NA	0.5	1.2	< 0.0025	NA	
	6/26/2019	NA	0.006	0.091	V	NA	NA	0.0021	0.4	0.0024	0.034	NA	0.25	1.45	< 0.0025	NA	
	12/27/2019	NA	0.019	0.083	NA	NA	NA	0.012	0.67	0.0044	0.038	NA	0.42	1.21	< 0.0025	NA	
	6/23/2020	NA	0.014	0.075	NA	NA	NA	0.0037	0.59	0.0012	0.034	NA	0.33	2.07	< 0.0025	NA	
	12/9/2020	NA	0.006	0.091	NA	NA	NA	< 0.001	0.55	< 0.0005	0.04	NA	0.33	1.170	< 0.0025	NA	
	6/21/2021	< 0.003	0.009	0.063	< 0.001	< 0.0005	< 0.005	0.0029	0.53	0.00099	0.038	< 0.0002	0.5	1.31	< 0.0025	< 0.002	
	12/9/2021	0.008	0.010	0.078	< 0.001	< 0.0005	< 0.005	0.0041	0.41	0.0027	0.034	< 0.0002	0.54	2.82	< 0.0025	< 0.002	
	3/10/2022	0.0092	0.009	0.065	< 0.001	< 0.0005	< 0.005	0.0026	0.46	0.0016	0.029	< 0.0002	0.5	< 0.782	< 0.0025	< 0.002	
	6/14/2022	< 0.003	0.009	0.066	< 0.001	< 0.0005	< 0.005	0.0036	0.46	0.0017	0.033	< 0.0002	0.46	2.52	< 0.0025	< 0.002	
	9/29/2022	< 0.003	0.008	0.088	< 0.1	< 0.0005	< 0.005	0.0036	0.36	0.0021	0.033	< 0.0002	0.4	3.36	< 0.0025	< 0.002	
12/20/2022	< 0.003	0.005	0.082	< 0.001	< 0.0005	< 0.005	0.0021	0.59	0.0029	0.033	< 0.0002	0.46	3.68	< 0.0025	< 0.002		
T045 down-gradient	12/19/2018	NA	< 0.001	0.056	NA	NA	NA	< 0.001	0.24	0.0018	0.027	NA	0.012	0.768	< 0.0025	NA	
	6/27/2019	NA	0.002	0.087	NA	NA	NA	0.0033	0.27	0.0038	0.038	NA	0.014	1.14	< 0.0025	NA	
	12/26/2019	NA	0.002	0.078	NA	NA	NA	0.0044	0.32	0.0049	0.041	NA	0.013	1.16	< 0.0025	NA	
	6/23/2020	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	12/9/2020	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	6/21/2021	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	12/9/2021	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	3/16/2022	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	6/6/2022	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	9/29/2022	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
12/20/2022	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	
T055 down-gradient	12/19/2018	NA	0.140	0.01	NA	NA	NA	< 0.001	1.8	< 0.0005	0.015	NA	1.0	0.928	0.026	NA	
	6/20/2019	NA	0.140	0.0099	NA	NA	NA	< 0.001	1.8	< 0.0005	0.018	NA	1.1	0.606	0.056	NA	
	12/30/2019	NA	0.140	0.011	NA	NA	NA	< 0.001	1.9	< 0.0005	0.02	NA	1.0	< 0.482	0.049	NA	
	6/22/2020	NA	0.130	0.01	NA	NA	NA	< 0.001	1.8	< 0.0005	0.017	NA	0.96	< 1.01	0.038	NA	
	12/8/2020	NA	0.130	0.01	NA	NA	NA	< 0.001	2	< 0.0005	0.021	NA	1.2	0.607	0.048	NA	
	6/2/2021	< 0.003	0.130	0.01	< 0.001	< 0.0005	< 0.005	< 0.001	1.6	< 0.0005	0.022	< 0.0002	1	< 0.558	0.044	< 0.002	
	12/10/2021	< 0.003	0.120	0.0098	< 0.001	< 0.0005	< 0.005	< 0.001	1.8	< 0.0005	0.019	< 0.0002	0.96	1.37	0.041	< 0.002	
	3/10/2022	0.003	0.130	0.01	< 0.001	< 0.0005	< 0.005	< 0.001	1.7	< 0.0005	0.018	< 0.0002	0.92	0.877	0.029	< 0.002	
	6/13/2022	< 0.003	0.120	0.01	< 0.001	< 0.0005	< 0.005	< 0.001	1.7	< 0.0005	0.019	< 0.0002	0.96	0.842	0.052	< 0.002	
	9/2																

APPENDIX A
Analytical Data Packages

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-213350-1
Client Project/Site: Joliet #9 (Quarry) CCR 1Q22
Revision: 1

For:
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:
4/4/2022 1:26:49 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

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Job ID: 500-213350-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-213350-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 3/25/2022. The report (revision 1) is being revised due to: Client requesting the -1 and -3 subjobs get merged into 1 job.

Receipt

The samples were received on 3/8/2022 2:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.1° C, 1.4° C, 2.1° C, 2.3° C, 2.8° C and 3.1° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-213350-3

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-213350-3

Comments

No additional comments.

Receipt

The samples were received on 3/8/2022 2:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.1° C, 1.4° C, 2.1° C, 2.3° C, 2.8° C and 3.1° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 Cl- E	Chloride, Total	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 SO4 E	Sulfate, Total	SM	TAL CHI
Field Sampling	Field Sampling	EPA	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-213350-1	T09S	Water	03/08/22 09:53	03/08/22 14:50
500-213350-2	T09S DUP	Water	03/08/22 09:53	03/08/22 14:50
500-213350-3	T06S	Water	03/08/22 12:55	03/08/22 14:50
500-213350-4	T05S	Water	03/10/22 10:07	03/10/22 14:50
500-213350-5	T02S	Water	03/10/22 12:49	03/10/22 14:50
500-213350-6	G31S	Water	03/11/22 09:44	03/11/22 15:27
500-213350-7	G46S	Water	03/11/22 10:56	03/11/22 15:27
500-213350-8	R08S	Water	03/11/22 12:35	03/11/22 15:27
500-213350-9	G33S	Water	03/11/22 13:32	03/11/22 15:27
500-213350-10	T01S	Water	03/14/22 09:52	03/14/22 14:56
500-213350-11	T08S	Water	03/14/22 11:49	03/14/22 14:56
500-213350-12	T03S	Water	03/14/22 13:45	03/14/22 14:56
500-213350-13	G20S	Water	03/15/22 09:30	03/15/22 14:52
500-213350-14	G30S	GW	03/15/22 11:43	03/15/22 14:52
500-213350-15	G44S	Water	03/15/22 13:49	03/15/22 14:52
500-213350-16	G48S	Water	03/16/22 09:28	03/16/22 14:55
500-213350-17	G47S	Water	03/16/22 10:55	03/16/22 14:55
500-213350-18	R32S	Water	03/16/22 12:44	03/16/22 14:55
500-213350-19	G45S	Water	03/16/22 13:31	03/16/22 14:55
500-213350-20	T04S	Water	03/16/22 14:10	03/16/22 14:55

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T09S

Lab Sample ID: 500-213350-1

Date Collected: 03/08/22 09:53

Matrix: Water

Date Received: 03/08/22 14:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 16:23	1
Arsenic	0.0030		0.0010		mg/L		03/18/22 07:53	03/18/22 16:23	1
Barium	0.064		0.0025		mg/L		03/18/22 07:53	03/18/22 16:23	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:23	1
Boron	13		2.5		mg/L		03/18/22 07:53	03/21/22 12:59	50
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:23	1
Calcium	130		0.20		mg/L		03/18/22 07:53	03/18/22 16:23	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:23	1
Cobalt	0.0012		0.0010		mg/L		03/18/22 07:53	03/18/22 16:23	1
Lead	0.00058		0.00050		mg/L		03/18/22 07:53	03/18/22 16:23	1
Lithium	0.13		0.0020		mg/L		03/18/22 07:53	03/18/22 16:23	1
Molybdenum	1.5		0.0050		mg/L		03/18/22 07:53	03/18/22 16:23	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:23	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			03/11/22 03:19	1
Chloride	60		4.0		mg/L			03/22/22 11:31	2
Fluoride	0.39		0.10		mg/L			03/14/22 12:03	1
Sulfate	590		100		mg/L			03/22/22 13:12	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	95.81				ft			03/08/22 09:53	1
Depth to Water (ft from MP)	98.21				ft			03/08/22 09:53	1
Elevation of well (ft from MP)	603.69				ft			03/08/22 09:53	1
Field pH	7.32				SU			03/08/22 09:53	1
Field Temperature	45.5				Degrees F			03/08/22 09:53	1
Ground Water Elevation	505.48				ft			03/08/22 09:53	1
Specific Conductance	1313				umhos/cm			03/08/22 09:53	1
Well bottom elevation	444.80				ft			03/08/22 09:53	1
Field Turbidity	14.70				NTU			03/08/22 09:53	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T09S DUP

Lab Sample ID: 500-213350-2

Date Collected: 03/08/22 09:53

Matrix: Water

Date Received: 03/08/22 14:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 16:41	1
Arsenic	0.0032		0.0010		mg/L		03/18/22 07:53	03/18/22 16:41	1
Barium	0.061		0.0025		mg/L		03/18/22 07:53	03/18/22 16:41	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:41	1
Boron	11		2.5		mg/L		03/18/22 07:53	03/21/22 13:24	50
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:41	1
Calcium	130		0.20		mg/L		03/18/22 07:53	03/18/22 16:41	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:41	1
Cobalt	0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:41	1
Lead	0.00052		0.00050		mg/L		03/18/22 07:53	03/18/22 16:41	1
Lithium	0.13		0.0020		mg/L		03/18/22 07:53	03/18/22 16:41	1
Molybdenum	1.6		0.0050		mg/L		03/18/22 07:53	03/18/22 16:41	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:41	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			03/11/22 03:22	1
Chloride	60		4.0		mg/L			03/22/22 11:32	2
Fluoride	0.40		0.10		mg/L			03/14/22 12:07	1
Sulfate	590		100		mg/L			03/22/22 13:13	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	95.81				ft			03/08/22 09:53	1
Depth to Water (ft from MP)	98.21				ft			03/08/22 09:53	1
Elevation of well (ft from MP)	603.69				ft			03/08/22 09:53	1
Field pH	7.32				SU			03/08/22 09:53	1
Field Temperature	45.5				Degrees F			03/08/22 09:53	1
Ground Water Elevation	505.48				ft			03/08/22 09:53	1
Specific Conductance	1313				umhos/cm			03/08/22 09:53	1
Well bottom elevation	444.80				ft			03/08/22 09:53	1
Field Turbidity	14.70				NTU			03/08/22 09:53	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T06S

Lab Sample ID: 500-213350-3

Date Collected: 03/08/22 12:55

Matrix: Water

Date Received: 03/08/22 14:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 16:44	1
Arsenic	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:44	1
Barium	0.032		0.0025		mg/L		03/18/22 07:53	03/18/22 16:44	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:44	1
Boron	0.92		0.25		mg/L		03/18/22 07:53	03/21/22 13:27	5
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:44	1
Calcium	85		0.20		mg/L		03/18/22 07:53	03/18/22 16:44	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:44	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:44	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:44	1
Lithium	0.025		0.0020		mg/L		03/18/22 07:53	03/18/22 16:44	1
Molybdenum	0.017		0.0050		mg/L		03/18/22 07:53	03/18/22 16:44	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:44	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	540		10		mg/L			03/11/22 03:24	1
Chloride	15		2.0		mg/L			03/22/22 11:32	1
Fluoride	0.43		0.10		mg/L			03/14/22 12:11	1
Sulfate	99		25		mg/L			03/22/22 13:13	5

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	111.50				ft			03/08/22 12:55	1
Depth to Water (ft from MP)	113.80				ft			03/08/22 12:55	1
Elevation of well (ft from MP)	620.99				ft			03/08/22 12:55	1
Field pH	7.21				SU			03/08/22 12:55	1
Field Temperature	53.8				Degrees F			03/08/22 12:55	1
Ground Water Elevation	507.19				ft			03/08/22 12:55	1
Specific Conductance	688				umhos/cm			03/08/22 12:55	1
Well bottom elevation	447.94				ft			03/08/22 12:55	1
Field Turbidity	1.28				NTU			03/08/22 12:55	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T05S

Lab Sample ID: 500-213350-4

Date Collected: 03/10/22 10:07

Matrix: Water

Date Received: 03/10/22 14:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 16:48	1
Arsenic	0.13		0.0010		mg/L		03/18/22 07:53	03/18/22 16:48	1
Barium	0.010		0.0025		mg/L		03/18/22 07:53	03/18/22 16:48	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:48	1
Boron	12		2.5		mg/L		03/18/22 07:53	03/21/22 13:31	50
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:48	1
Calcium	3.3		0.20		mg/L		03/18/22 07:53	03/18/22 16:48	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:48	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:48	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:48	1
Lithium	0.018		0.0020		mg/L		03/18/22 07:53	03/18/22 16:48	1
Molybdenum	0.92		0.0050		mg/L		03/18/22 07:53	03/18/22 16:48	1
Selenium	0.0029		0.0025		mg/L		03/18/22 07:53	03/18/22 16:48	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			03/11/22 03:27	1
Chloride	130		10		mg/L			03/22/22 11:48	5
Fluoride	1.7		0.10		mg/L			03/14/22 12:24	1
Sulfate	610		130		mg/L			03/22/22 14:08	25

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	121.91				ft			03/10/22 10:07	1
Depth to Water (ft from MP)	124.31				ft			03/10/22 10:07	1
Elevation of well (ft from MP)	623.46				ft			03/10/22 10:07	1
Field pH	9.17				SU			03/10/22 10:07	1
Field Temperature	47.1				Degrees F			03/10/22 10:07	1
Ground Water Elevation	499.15				ft			03/10/22 10:07	1
Specific Conductance	2000				umhos/cm			03/10/22 10:07	1
Well bottom elevation	448.35				ft			03/10/22 10:07	1
Field Turbidity	2.68				NTU			03/10/22 10:07	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T02S

Lab Sample ID: 500-213350-5

Date Collected: 03/10/22 12:49

Matrix: Water

Date Received: 03/10/22 14:50

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0092		0.0030		mg/L		03/18/22 07:53	03/18/22 16:58	1
Arsenic	0.0092		0.0010		mg/L		03/18/22 07:53	03/18/22 16:58	1
Barium	0.065		0.0025		mg/L		03/18/22 07:53	03/18/22 16:58	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:58	1
Boron	5.2		1.0		mg/L		03/18/22 07:53	03/21/22 13:34	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:58	1
Calcium	61		0.20		mg/L		03/18/22 07:53	03/18/22 16:58	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:58	1
Cobalt	0.0026		0.0010		mg/L		03/18/22 07:53	03/18/22 16:58	1
Lead	0.0016		0.00050		mg/L		03/18/22 07:53	03/18/22 16:58	1
Lithium	0.029		0.0020		mg/L		03/18/22 07:53	03/18/22 16:58	1
Molybdenum	0.50		0.0050		mg/L		03/18/22 07:53	03/18/22 16:58	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:58	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	970		10		mg/L			03/11/22 03:30	1
Chloride	95		6.0		mg/L			03/22/22 11:32	3
Fluoride	0.46		0.10		mg/L			03/14/22 12:33	1
Sulfate	380		50		mg/L			03/22/22 13:14	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	132.23				ft			03/10/22 12:49	1
Depth to Water (ft from MP)	134.56				ft			03/10/22 12:49	1
Elevation of well (ft from MP)	626.12				ft			03/10/22 12:49	1
Field pH	8.08				SU			03/10/22 12:49	1
Field Temperature	46.6				Degrees F			03/10/22 12:49	1
Ground Water Elevation	491.56				ft			03/10/22 12:49	1
Specific Conductance	1163				umhos/cm			03/10/22 12:49	1
Well bottom elevation	453.40				ft			03/10/22 12:49	1
Field Turbidity	74.00				NTU			03/10/22 12:49	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G31S

Lab Sample ID: 500-213350-6

Date Collected: 03/11/22 09:44

Matrix: Water

Date Received: 03/11/22 15:27

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:02	1
Arsenic	0.0043		0.0010		mg/L		03/18/22 07:53	03/18/22 17:02	1
Barium	0.047		0.0025		mg/L		03/18/22 07:53	03/18/22 17:02	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:02	1
Boron	5.1		1.0		mg/L		03/18/22 07:53	03/21/22 13:38	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:02	1
Calcium	150		0.20		mg/L		03/18/22 07:53	03/18/22 17:02	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:02	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:02	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:02	1
Lithium	0.094		0.0020		mg/L		03/18/22 07:53	03/18/22 17:02	1
Molybdenum	0.83		0.0050		mg/L		03/18/22 07:53	03/18/22 17:02	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:02	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			03/14/22 06:09	1
Chloride	140		10		mg/L			03/22/22 11:33	5
Fluoride	0.26		0.10		mg/L			03/14/22 12:48	1
Sulfate	490		50		mg/L			03/22/22 13:14	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	23.37				ft			03/11/22 09:44	1
Depth to Water (ft from MP)	25.95				ft			03/11/22 09:44	1
Elevation of well (ft from MP)	535.77				ft			03/11/22 09:44	1
Field pH	7.06				SU			03/11/22 09:44	1
Field Temperature	54.0				Degrees F			03/11/22 09:44	1
Ground Water Elevation	509.82				ft			03/11/22 09:44	1
Specific Conductance	1406				umhos/cm			03/11/22 09:44	1
Well bottom elevation	453.36				ft			03/11/22 09:44	1
Field Turbidity	0.73				NTU			03/11/22 09:44	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G46S

Lab Sample ID: 500-213350-7

Date Collected: 03/11/22 10:56

Matrix: Water

Date Received: 03/11/22 15:27

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:05	1
Arsenic	0.17		0.0010		mg/L		03/18/22 07:53	03/18/22 17:05	1
Barium	0.069		0.0025		mg/L		03/18/22 07:53	03/18/22 17:05	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:05	1
Boron	12		2.5		mg/L		03/18/22 07:53	03/21/22 13:41	50
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:05	1
Calcium	130		0.20		mg/L		03/18/22 07:53	03/18/22 17:05	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:05	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:05	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:05	1
Lithium	0.13		0.0020		mg/L		03/18/22 07:53	03/18/22 17:05	1
Molybdenum	1.6		0.0050		mg/L		03/18/22 07:53	03/18/22 17:05	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:05	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			03/14/22 06:14	1
Chloride	54		4.0		mg/L			03/22/22 11:33	2
Fluoride	0.34		0.10		mg/L			03/14/22 12:52	1
Sulfate	600		100		mg/L			03/22/22 13:14	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	93.01				ft			03/11/22 10:56	1
Depth to Water (ft from MP)	95.71				ft			03/11/22 10:56	1
Elevation of well (ft from MP)	601.34				ft			03/11/22 10:56	1
Field pH	7.38				SU			03/11/22 10:56	1
Field Temperature	53.2				Degrees F			03/11/22 10:56	1
Ground Water Elevation	505.63				ft			03/11/22 10:56	1
Specific Conductance	1325				umhos/cm			03/11/22 10:56	1
Well bottom elevation	453.62				ft			03/11/22 10:56	1
Field Turbidity	99.30				NTU			03/11/22 10:56	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: R08S

Lab Sample ID: 500-213350-8

Date Collected: 03/11/22 12:35

Matrix: Water

Date Received: 03/11/22 15:27

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:09	1
Arsenic	0.0014		0.0010		mg/L		03/18/22 07:53	03/18/22 17:09	1
Barium	0.039		0.0025		mg/L		03/18/22 07:53	03/18/22 17:09	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:09	1
Boron	7.7		1.0		mg/L		03/18/22 07:53	03/21/22 13:45	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:09	1
Calcium	130		0.20		mg/L		03/18/22 07:53	03/18/22 17:09	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:09	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:09	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:09	1
Lithium	0.13		0.0020		mg/L		03/18/22 07:53	03/18/22 17:09	1
Molybdenum	0.37		0.0050		mg/L		03/18/22 07:53	03/18/22 17:09	1
Selenium	0.0027		0.0025		mg/L		03/18/22 07:53	03/18/22 17:09	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	840		10		mg/L			03/14/22 06:17	1
Chloride	75		4.0		mg/L			03/22/22 11:33	2
Fluoride	0.16		0.10		mg/L			03/14/22 12:56	1
Sulfate	420		50		mg/L			03/22/22 13:15	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	63.54				ft			03/11/22 12:35	1
Depth to Water (ft from MP)	66.09				ft			03/11/22 12:35	1
Elevation of well (ft from MP)	578.51				ft			03/11/22 12:35	1
Field pH	8.21				SU			03/11/22 12:35	1
Field Temperature	53.1				Degrees F			03/11/22 12:35	1
Ground Water Elevation	512.42				ft			03/11/22 12:35	1
Specific Conductance	955				umhos/cm			03/11/22 12:35	1
Well bottom elevation	453.08				ft			03/11/22 12:35	1
Field Turbidity	0.52				NTU			03/11/22 12:35	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G33S

Lab Sample ID: 500-213350-9

Date Collected: 03/11/22 13:32

Matrix: Water

Date Received: 03/11/22 15:27

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:12	1
Arsenic	0.0024		0.0010		mg/L		03/18/22 07:53	03/18/22 17:12	1
Barium	0.11		0.0025		mg/L		03/18/22 07:53	03/18/22 17:12	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:12	1
Boron	1.1		0.25		mg/L		03/18/22 07:53	03/21/22 13:48	5
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:12	1
Calcium	55		0.20		mg/L		03/18/22 07:53	03/18/22 17:12	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:12	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:12	1
Lead	0.0030		0.00050		mg/L		03/18/22 07:53	03/18/22 17:12	1
Lithium	0.039		0.0020		mg/L		03/18/22 07:53	03/18/22 17:12	1
Molybdenum	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:12	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:12	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	470		10		mg/L			03/14/22 06:20	1
Chloride	14		2.0		mg/L			03/22/22 11:34	1
Fluoride	0.71		0.10		mg/L			03/14/22 12:59	1
Sulfate	79		10		mg/L			03/22/22 13:57	2

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	28.06				ft			03/11/22 13:32	1
Depth to Water (ft from MP)	29.79				ft			03/11/22 13:32	1
Elevation of well (ft from MP)	535.65				ft			03/11/22 13:32	1
Field pH	7.44				SU			03/11/22 13:32	1
Field Temperature	49.5				Degrees F			03/11/22 13:32	1
Ground Water Elevation	505.86				ft			03/11/22 13:32	1
Specific Conductance	642				umhos/cm			03/11/22 13:32	1
Well bottom elevation	452.72				ft			03/11/22 13:32	1
Field Turbidity	22.60				NTU			03/11/22 13:32	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T01S

Lab Sample ID: 500-213350-10

Date Collected: 03/14/22 09:52

Matrix: Water

Date Received: 03/14/22 14:56

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:16	1
Arsenic	0.026		0.0010		mg/L		03/18/22 07:53	03/18/22 17:16	1
Barium	0.13		0.0025		mg/L		03/18/22 07:53	03/18/22 17:16	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:16	1
Boron	4.5		0.50		mg/L		03/18/22 07:53	03/21/22 13:52	10
Cadmium	0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:16	1
Calcium	62		0.20		mg/L		03/18/22 07:53	03/18/22 17:16	1
Chromium	0.027		0.0050		mg/L		03/18/22 07:53	03/18/22 17:16	1
Cobalt	0.012		0.0010		mg/L		03/18/22 07:53	03/18/22 17:16	1
Lead	0.014		0.00050		mg/L		03/18/22 07:53	03/18/22 17:16	1
Lithium	0.026		0.0020		mg/L		03/18/22 07:53	03/18/22 17:16	1
Molybdenum	0.31		0.0050		mg/L		03/18/22 07:53	03/18/22 17:16	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:16	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			03/16/22 03:04	1
Chloride	97		6.0		mg/L			03/22/22 11:34	3
Fluoride	1.2		0.10		mg/L			03/21/22 09:17	1
Sulfate	420		50		mg/L			03/22/22 13:15	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	121.22				ft			03/14/22 09:52	1
Depth to Water (ft from MP)	123.70				ft			03/14/22 09:52	1
Elevation of well (ft from MP)	621.71				ft			03/14/22 09:52	1
Field pH	7.53				SU			03/14/22 09:52	1
Field Temperature	50.7				Degrees F			03/14/22 09:52	1
Ground Water Elevation	498.01				ft			03/14/22 09:52	1
Specific Conductance	1245				umhos/cm			03/14/22 09:52	1
Well bottom elevation	451.46				ft			03/14/22 09:52	1
Field Turbidity	9.95				NTU			03/14/22 09:52	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T08S

Lab Sample ID: 500-213350-11

Date Collected: 03/14/22 11:49

Matrix: Water

Date Received: 03/14/22 14:56

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/21/22 15:22	1
Arsenic	0.016		0.0010		mg/L		03/18/22 07:53	03/21/22 15:22	1
Barium	0.042		0.0025		mg/L		03/18/22 07:53	03/21/22 15:22	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/21/22 15:22	1
Boron	9.4		0.25		mg/L		03/18/22 07:53	03/21/22 14:20	5
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/21/22 15:22	1
Calcium	32		0.20		mg/L		03/18/22 07:53	03/21/22 15:22	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/21/22 15:22	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/21/22 15:22	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/21/22 15:22	1
Lithium	0.034		0.0020		mg/L		03/18/22 07:53	03/21/22 15:22	1
Molybdenum	0.96		0.0050		mg/L		03/18/22 07:53	03/21/22 15:22	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/21/22 15:22	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/21/22 15:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			03/16/22 03:06	1
Chloride	89		6.0		mg/L			03/22/22 11:34	3
Fluoride	0.78		0.10		mg/L			03/21/22 09:26	1
Sulfate	550		100		mg/L			03/22/22 13:15	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	127.18				ft			03/14/22 11:49	1
Depth to Water (ft from MP)	129.56				ft			03/14/22 11:49	1
Elevation of well (ft from MP)	627.50				ft			03/14/22 11:49	1
Field pH	8.67				SU			03/14/22 11:49	1
Field Temperature	57.2				Degrees F			03/14/22 11:49	1
Ground Water Elevation	497.94				ft			03/14/22 11:49	1
Specific Conductance	1387				umhos/cm			03/14/22 11:49	1
Well bottom elevation	447.38				ft			03/14/22 11:49	1
Field Turbidity	1.84				NTU			03/14/22 11:49	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T03S

Lab Sample ID: 500-213350-12

Date Collected: 03/14/22 13:45

Matrix: Water

Date Received: 03/14/22 14:56

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:23	1
Arsenic	0.016		0.0010		mg/L		03/18/22 07:53	03/18/22 17:23	1
Barium	0.041		0.0025		mg/L		03/18/22 07:53	03/18/22 17:23	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:23	1
Boron	3.6		2.5		mg/L		03/18/22 07:53	03/21/22 14:23	50
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:23	1
Calcium	31		0.20		mg/L		03/18/22 07:53	03/18/22 17:23	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:23	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:23	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:23	1
Lithium	0.032		0.0020		mg/L		03/18/22 07:53	03/18/22 17:23	1
Molybdenum	0.93		0.0050		mg/L		03/18/22 07:53	03/18/22 17:23	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:23	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			03/16/22 03:09	1
Chloride	110		10		mg/L			03/22/22 11:35	5
Fluoride	0.22		0.10		mg/L			03/21/22 09:29	1
Sulfate	280		50		mg/L			03/22/22 13:17	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	135.71				ft			03/14/22 13:45	1
Depth to Water (ft from MP)	138.79				ft			03/14/22 13:45	1
Elevation of well (ft from MP)	629.74				ft			03/14/22 13:45	1
Field pH	7.37				SU			03/14/22 13:45	1
Field Temperature	54.0				Degrees F			03/14/22 13:45	1
Ground Water Elevation	490.95				ft			03/14/22 13:45	1
Specific Conductance	1192				umhos/cm			03/14/22 13:45	1
Well bottom elevation	456.70				ft			03/14/22 13:45	1
Field Turbidity	0.65				NTU			03/14/22 13:45	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G20S

Lab Sample ID: 500-213350-13

Date Collected: 03/15/22 09:30

Matrix: Water

Date Received: 03/15/22 14:52

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:26	1
Arsenic	0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:26	1
Barium	0.083		0.0025		mg/L		03/18/22 07:53	03/18/22 17:26	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:26	1
Boron	1.4		0.50		mg/L		03/18/22 07:53	03/21/22 14:27	10
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:26	1
Calcium	110		0.20		mg/L		03/18/22 07:53	03/18/22 17:26	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:26	1
Cobalt	0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:26	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:26	1
Lithium	0.025		0.0020		mg/L		03/18/22 07:53	03/18/22 17:26	1
Molybdenum	0.28		0.0050		mg/L		03/18/22 07:53	03/18/22 17:26	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:26	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	500		10		mg/L			03/16/22 03:12	1
Chloride	15		2.0		mg/L			03/22/22 11:35	1
Fluoride	0.75		0.10		mg/L			03/21/22 09:33	1
Sulfate	74		10		mg/L			03/22/22 13:57	2

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	52.92				ft			03/15/22 09:30	1
Depth to Water (ft from MP)	55.70				ft			03/15/22 09:30	1
Elevation of well (ft from MP)	580.94				ft			03/15/22 09:30	1
Field pH	7.49				SU			03/15/22 09:30	1
Field Temperature	45.7				Degrees F			03/15/22 09:30	1
Ground Water Elevation	525.24				ft			03/15/22 09:30	1
Specific Conductance	609				umhos/cm			03/15/22 09:30	1
Well bottom elevation	442.28				ft			03/15/22 09:30	1
Field Turbidity	0.46				NTU			03/15/22 09:30	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G30S

Lab Sample ID: 500-213350-14

Date Collected: 03/15/22 11:43

Matrix: GW

Date Received: 03/15/22 14:52

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:30	1
Arsenic	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:30	1
Barium	0.047		0.0025		mg/L		03/18/22 07:53	03/18/22 17:30	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:30	1
Boron	4.9		0.25		mg/L		03/18/22 07:53	03/21/22 14:30	5
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:30	1
Calcium	57		0.20		mg/L		03/18/22 07:53	03/18/22 17:30	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:30	1
Cobalt	0.0012		0.0010		mg/L		03/18/22 07:53	03/18/22 17:30	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:30	1
Lithium	0.039		0.0020		mg/L		03/18/22 07:53	03/18/22 17:30	1
Molybdenum	0.017		0.0050		mg/L		03/18/22 07:53	03/18/22 17:30	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:30	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			03/16/22 03:14	1
Chloride	200		10		mg/L			03/22/22 11:35	5
Fluoride	1.0		0.10		mg/L			03/21/22 09:37	1
Sulfate	480		50		mg/L			03/22/22 13:17	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	-0.29				ft			03/15/22 11:43	1
Depth to Water (ft from MP)	2.02				ft			03/15/22 11:43	1
Elevation of well (ft from MP)	524.69				ft			03/15/22 11:43	1
Field pH	7.91				SU			03/15/22 11:43	1
Field Temperature	48.7				Degrees F			03/15/22 11:43	1
Ground Water Elevation	522.67				ft			03/15/22 11:43	1
Specific Conductance	1610				umhos/cm			03/15/22 11:43	1
Well bottom elevation	462.58				ft			03/15/22 11:43	1
Field Turbidity	0.45				NTU			03/15/22 11:43	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G44S

Lab Sample ID: 500-213350-15

Date Collected: 03/15/22 13:49

Matrix: Water

Date Received: 03/15/22 14:52

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:40	1
Arsenic	0.0025		0.0010		mg/L		03/18/22 07:53	03/18/22 17:40	1
Barium	0.045		0.0025		mg/L		03/18/22 07:53	03/18/22 17:40	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:40	1
Boron	2.1		1.0		mg/L		03/18/22 07:53	03/21/22 14:33	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:40	1
Calcium	58		0.20		mg/L		03/18/22 07:53	03/18/22 17:40	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:40	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:40	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:40	1
Lithium	0.022		0.0020		mg/L		03/18/22 07:53	03/18/22 17:40	1
Molybdenum	0.0093		0.0050		mg/L		03/18/22 07:53	03/18/22 17:40	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:40	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	860		10		mg/L			03/16/22 03:17	1
Chloride	63		4.0		mg/L			03/22/22 11:35	2
Fluoride	0.21		0.10		mg/L			03/21/22 09:41	1
Sulfate	180		25		mg/L			03/22/22 13:17	5

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	77.46				ft			03/15/22 13:49	1
Depth to Water (ft from MP)	79.64				ft			03/15/22 13:49	1
Elevation of well (ft from MP)	586.49				ft			03/15/22 13:49	1
Field pH	7.24				SU			03/15/22 13:49	1
Field Temperature	54.5				Degrees F			03/15/22 13:49	1
Ground Water Elevation	506.85				ft			03/15/22 13:49	1
Specific Conductance	994				umhos/cm			03/15/22 13:49	1
Well bottom elevation	455.11				ft			03/15/22 13:49	1
Field Turbidity	1.09				NTU			03/15/22 13:49	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G48S

Lab Sample ID: 500-213350-16

Date Collected: 03/16/22 09:28

Matrix: Water

Date Received: 03/16/22 14:55

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:44	1
Arsenic	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:44	1
Barium	0.064		0.0025		mg/L		03/18/22 07:53	03/18/22 17:44	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:44	1
Boron	5.8		0.25		mg/L		03/18/22 07:53	03/21/22 14:37	5
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:44	1
Calcium	130		0.20		mg/L		03/18/22 07:53	03/18/22 17:44	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:44	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:44	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:44	1
Lithium	0.024		0.0020		mg/L		03/18/22 07:53	03/18/22 17:44	1
Molybdenum	0.27		0.0050		mg/L		03/18/22 07:53	03/18/22 17:44	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:44	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/17/22 10:35	03/18/22 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			03/17/22 03:33	1
Chloride	99		6.0		mg/L			03/22/22 11:36	3
Fluoride	0.96		0.10		mg/L			03/21/22 09:55	1
Sulfate	430		50		mg/L			03/22/22 13:17	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	101.82				ft			03/16/22 09:28	1
Depth to Water (ft from MP)	104.27				ft			03/16/22 09:28	1
Elevation of well (ft from MP)	620.74				ft			03/16/22 09:28	1
Field pH	7.87				SU			03/16/22 09:28	1
Field Temperature	52.5				Degrees F			03/16/22 09:28	1
Ground Water Elevation	516.47				ft			03/16/22 09:28	1
Specific Conductance	1353				umhos/cm			03/16/22 09:28	1
Well bottom elevation	468.32				ft			03/16/22 09:28	1
Field Turbidity	0.31				NTU			03/16/22 09:28	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G47S

Lab Sample ID: 500-213350-17

Date Collected: 03/16/22 10:55

Matrix: Water

Date Received: 03/16/22 14:55

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:47	1
Arsenic	0.0074		0.0010		mg/L		03/18/22 07:53	03/18/22 17:47	1
Barium	0.021		0.0025		mg/L		03/18/22 07:53	03/18/22 17:47	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:47	1
Boron	6.9		1.0		mg/L		03/18/22 07:53	03/21/22 14:40	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:47	1
Calcium	40		0.20		mg/L		03/18/22 07:53	03/18/22 17:47	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:47	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:47	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:47	1
Lithium	0.021		0.0020		mg/L		03/18/22 07:53	03/18/22 17:47	1
Molybdenum	0.48		0.0050		mg/L		03/18/22 07:53	03/18/22 17:47	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:47	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/17/22 10:35	03/18/22 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			03/17/22 03:40	1
Chloride	96		6.0		mg/L			03/22/22 11:36	3
Fluoride	0.66		0.10		mg/L			03/21/22 09:58	1
Sulfate	450		50		mg/L			03/22/22 13:18	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	91.76				ft			03/16/22 10:55	1
Depth to Water (ft from MP)	94.26				ft			03/16/22 10:55	1
Elevation of well (ft from MP)	612.04				ft			03/16/22 10:55	1
Field pH	8.94				SU			03/16/22 10:55	1
Field Temperature	55.4				Degrees F			03/16/22 10:55	1
Ground Water Elevation	517.78				ft			03/16/22 10:55	1
Specific Conductance	1348				umhos/cm			03/16/22 10:55	1
Well bottom elevation	459.84				ft			03/16/22 10:55	1
Field Turbidity	0.26				NTU			03/16/22 10:55	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: R32S

Lab Sample ID: 500-213350-18

Date Collected: 03/16/22 12:44

Matrix: Water

Date Received: 03/16/22 14:55

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:51	1
Arsenic	0.037		0.0010		mg/L		03/18/22 07:53	03/18/22 17:51	1
Barium	0.012		0.0025		mg/L		03/18/22 07:53	03/18/22 17:51	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:51	1
Boron	4.0		1.0		mg/L		03/18/22 07:53	03/21/22 14:44	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:51	1
Calcium	9.6		0.20		mg/L		03/18/22 07:53	03/18/22 17:51	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:51	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:51	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:51	1
Lithium	0.043		0.0020		mg/L		03/18/22 07:53	03/18/22 17:51	1
Molybdenum	0.51		0.0050		mg/L		03/18/22 07:53	03/18/22 17:51	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:51	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/17/22 10:35	03/18/22 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			03/17/22 03:46	1
Chloride	50		4.0		mg/L			03/22/22 11:37	2
Fluoride	0.31		0.10		mg/L			03/21/22 10:01	1
Sulfate	430		50		mg/L			03/22/22 13:18	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	17.65				ft			03/16/22 12:44	1
Depth to Water (ft from MP)	19.68				ft			03/16/22 12:44	1
Elevation of well (ft from MP)	536.91				ft			03/16/22 12:44	1
Field pH	7.56				SU			03/16/22 12:44	1
Field Temperature	53.2				Degrees F			03/16/22 12:44	1
Ground Water Elevation	517.23				ft			03/16/22 12:44	1
Specific Conductance	785				umhos/cm			03/16/22 12:44	1
Well bottom elevation	457.84				ft			03/16/22 12:44	1
Field Turbidity	1.31				NTU			03/16/22 12:44	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G45S

Lab Sample ID: 500-213350-19

Date Collected: 03/16/22 13:31

Matrix: Water

Date Received: 03/16/22 14:55

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 17:54	1
Arsenic	0.0018		0.0010		mg/L		03/18/22 07:53	03/18/22 17:54	1
Barium	0.035		0.0025		mg/L		03/18/22 07:53	03/18/22 17:54	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:54	1
Boron	<0.50		0.50		mg/L		03/18/22 07:53	03/21/22 14:47	10
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:54	1
Calcium	130		0.20		mg/L		03/18/22 07:53	03/18/22 17:54	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:54	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:54	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:54	1
Lithium	0.075		0.0020		mg/L		03/18/22 07:53	03/18/22 17:54	1
Molybdenum	0.56		0.0050		mg/L		03/18/22 07:53	03/18/22 17:54	1
Molybdenum	0.0092		0.0050		mg/L		03/31/22 16:51	04/01/22 15:34	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:54	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/17/22 10:35	03/18/22 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	700		10		mg/L			03/17/22 03:48	1
Chloride	86		6.0		mg/L			03/22/22 11:37	3
Fluoride	0.36		0.10		mg/L			03/21/22 10:05	1
Sulfate	130		25		mg/L			03/22/22 13:18	5

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	62.53				ft			03/16/22 13:31	1
Depth to Water (ft from MP)	65.50				ft			03/16/22 13:31	1
Elevation of well (ft from MP)	603.94				ft			03/16/22 13:31	1
Field pH	7.35				SU			03/16/22 13:31	1
Field Temperature	57.9				Degrees F			03/16/22 13:31	1
Ground Water Elevation	538.44				ft			03/16/22 13:31	1
Specific Conductance	789				umhos/cm			03/16/22 13:31	1
Well bottom elevation	471.05				ft			03/16/22 13:31	1
Field Turbidity	0.98				NTU			03/16/22 13:31	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T04S

Lab Sample ID: 500-213350-20

Date Collected: 03/16/22 14:10

Matrix: Water

Date Received: 03/16/22 14:55

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	0				ft			03/16/22 14:10	1
Depth to Water (ft from MP)	0				ft			03/16/22 14:10	1
Elevation of well (ft from MP)	631.35				ft			03/16/22 14:10	1
Field pH	0				SU			03/16/22 14:10	1
Field Temperature	0				Degrees F			03/16/22 14:10	1
Ground Water Elevation	0				ft			03/16/22 14:10	1
Specific Conductance	0				umhos/cm			03/16/22 14:10	1
Well bottom elevation	458.07				ft			03/16/22 14:10	1
Field Turbidity	0				NTU			03/16/22 14:10	1



Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Metals

Prep Batch: 647262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	7470A	
500-213350-2	T09S DUP	Total/NA	Water	7470A	
500-213350-3	T06S	Total/NA	Water	7470A	
500-213350-4	T05S	Total/NA	Water	7470A	
500-213350-5	T02S	Total/NA	Water	7470A	
500-213350-6	G31S	Total/NA	Water	7470A	
500-213350-7	G46S	Total/NA	Water	7470A	
500-213350-8	R08S	Total/NA	Water	7470A	
500-213350-9	G33S	Total/NA	Water	7470A	
500-213350-10	T01S	Total/NA	Water	7470A	
500-213350-11	T08S	Total/NA	Water	7470A	
500-213350-12	T03S	Total/NA	Water	7470A	
500-213350-13	G20S	Total/NA	Water	7470A	
500-213350-14	G30S	Total/NA	GW	7470A	
500-213350-15	G44S	Total/NA	Water	7470A	
MB 500-647262/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-647262/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-213350-10 MS	T01S	Total/NA	Water	7470A	
500-213350-10 MSD	T01S	Total/NA	Water	7470A	
500-213350-10 DU	T01S	Total/NA	Water	7470A	

Prep Batch: 647536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-16	G48S	Total/NA	Water	7470A	
500-213350-17	G47S	Total/NA	Water	7470A	
500-213350-18	R32S	Total/NA	Water	7470A	
500-213350-19	G45S	Total/NA	Water	7470A	
MB 500-647536/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-647536/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 647539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	7470A	647262
500-213350-2	T09S DUP	Total/NA	Water	7470A	647262
500-213350-3	T06S	Total/NA	Water	7470A	647262
500-213350-4	T05S	Total/NA	Water	7470A	647262
500-213350-5	T02S	Total/NA	Water	7470A	647262
500-213350-6	G31S	Total/NA	Water	7470A	647262
500-213350-7	G46S	Total/NA	Water	7470A	647262
500-213350-8	R08S	Total/NA	Water	7470A	647262
500-213350-9	G33S	Total/NA	Water	7470A	647262
500-213350-10	T01S	Total/NA	Water	7470A	647262
500-213350-11	T08S	Total/NA	Water	7470A	647262
500-213350-12	T03S	Total/NA	Water	7470A	647262
500-213350-13	G20S	Total/NA	Water	7470A	647262
500-213350-14	G30S	Total/NA	GW	7470A	647262
500-213350-15	G44S	Total/NA	Water	7470A	647262
MB 500-647262/12-A	Method Blank	Total/NA	Water	7470A	647262
LCS 500-647262/13-A	Lab Control Sample	Total/NA	Water	7470A	647262
500-213350-10 MS	T01S	Total/NA	Water	7470A	647262
500-213350-10 MSD	T01S	Total/NA	Water	7470A	647262

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QC Association Summary

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Metals (Continued)

Analysis Batch: 647539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-10 DU	T01S	Total/NA	Water	7470A	647262

Prep Batch: 647664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total Recoverable	Water	3005A	
500-213350-2	T09S DUP	Total Recoverable	Water	3005A	
500-213350-3	T06S	Total Recoverable	Water	3005A	
500-213350-4	T05S	Total Recoverable	Water	3005A	
500-213350-5	T02S	Total Recoverable	Water	3005A	
500-213350-6	G31S	Total Recoverable	Water	3005A	
500-213350-7	G46S	Total Recoverable	Water	3005A	
500-213350-8	R08S	Total Recoverable	Water	3005A	
500-213350-9	G33S	Total Recoverable	Water	3005A	
500-213350-10	T01S	Total Recoverable	Water	3005A	
500-213350-11	T08S	Total Recoverable	Water	3005A	
500-213350-12	T03S	Total Recoverable	Water	3005A	
500-213350-13	G20S	Total Recoverable	Water	3005A	
500-213350-14	G30S	Total Recoverable	GW	3005A	
500-213350-15	G44S	Total Recoverable	Water	3005A	
500-213350-16	G48S	Total Recoverable	Water	3005A	
500-213350-17	G47S	Total Recoverable	Water	3005A	
500-213350-18	R32S	Total Recoverable	Water	3005A	
500-213350-19	G45S	Total Recoverable	Water	3005A	
MB 500-647664/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-647664/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-213350-1 MS	T09S	Total Recoverable	Water	3005A	
500-213350-1 MSD	T09S	Total Recoverable	Water	3005A	
500-213350-1 DU	T09S	Total Recoverable	Water	3005A	

Analysis Batch: 647747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-16	G48S	Total/NA	Water	7470A	647536
500-213350-17	G47S	Total/NA	Water	7470A	647536
500-213350-18	R32S	Total/NA	Water	7470A	647536
500-213350-19	G45S	Total/NA	Water	7470A	647536
MB 500-647536/12-A	Method Blank	Total/NA	Water	7470A	647536
LCS 500-647536/13-A	Lab Control Sample	Total/NA	Water	7470A	647536

Analysis Batch: 647950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total Recoverable	Water	6020A	647664
500-213350-2	T09S DUP	Total Recoverable	Water	6020A	647664
500-213350-3	T06S	Total Recoverable	Water	6020A	647664
500-213350-4	T05S	Total Recoverable	Water	6020A	647664
500-213350-5	T02S	Total Recoverable	Water	6020A	647664
500-213350-6	G31S	Total Recoverable	Water	6020A	647664
500-213350-7	G46S	Total Recoverable	Water	6020A	647664
500-213350-8	R08S	Total Recoverable	Water	6020A	647664
500-213350-9	G33S	Total Recoverable	Water	6020A	647664
500-213350-10	T01S	Total Recoverable	Water	6020A	647664
500-213350-12	T03S	Total Recoverable	Water	6020A	647664

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QC Association Summary

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Metals (Continued)

Analysis Batch: 647950 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-13	G20S	Total Recoverable	Water	6020A	647664
500-213350-14	G30S	Total Recoverable	GW	6020A	647664
500-213350-15	G44S	Total Recoverable	Water	6020A	647664
500-213350-16	G48S	Total Recoverable	Water	6020A	647664
500-213350-17	G47S	Total Recoverable	Water	6020A	647664
500-213350-18	R32S	Total Recoverable	Water	6020A	647664
500-213350-19	G45S	Total Recoverable	Water	6020A	647664
MB 500-647664/1-A	Method Blank	Total Recoverable	Water	6020A	647664
LCS 500-647664/2-A	Lab Control Sample	Total Recoverable	Water	6020A	647664
500-213350-1 MS	T09S	Total Recoverable	Water	6020A	647664
500-213350-1 MSD	T09S	Total Recoverable	Water	6020A	647664
500-213350-1 DU	T09S	Total Recoverable	Water	6020A	647664

Analysis Batch: 648012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total Recoverable	Water	6020A	647664
500-213350-2	T09S DUP	Total Recoverable	Water	6020A	647664
500-213350-3	T06S	Total Recoverable	Water	6020A	647664
500-213350-4	T05S	Total Recoverable	Water	6020A	647664
500-213350-5	T02S	Total Recoverable	Water	6020A	647664
500-213350-6	G31S	Total Recoverable	Water	6020A	647664
500-213350-7	G46S	Total Recoverable	Water	6020A	647664
500-213350-8	R08S	Total Recoverable	Water	6020A	647664
500-213350-9	G33S	Total Recoverable	Water	6020A	647664
500-213350-10	T01S	Total Recoverable	Water	6020A	647664
500-213350-11	T08S	Total Recoverable	Water	6020A	647664
500-213350-11	T08S	Total Recoverable	Water	6020A	647664
500-213350-12	T03S	Total Recoverable	Water	6020A	647664
500-213350-13	G20S	Total Recoverable	Water	6020A	647664
500-213350-14	G30S	Total Recoverable	GW	6020A	647664
500-213350-15	G44S	Total Recoverable	Water	6020A	647664
500-213350-16	G48S	Total Recoverable	Water	6020A	647664
500-213350-17	G47S	Total Recoverable	Water	6020A	647664
500-213350-18	R32S	Total Recoverable	Water	6020A	647664
500-213350-19	G45S	Total Recoverable	Water	6020A	647664
MB 500-647664/1-A	Method Blank	Total Recoverable	Water	6020A	647664
LCS 500-647664/2-A	Lab Control Sample	Total Recoverable	Water	6020A	647664
500-213350-1 MS	T09S	Total Recoverable	Water	6020A	647664
500-213350-1 MSD	T09S	Total Recoverable	Water	6020A	647664
500-213350-1 DU	T09S	Total Recoverable	Water	6020A	647664

Prep Batch: 649736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-19	G45S	Total Recoverable	Water	3005A	
MB 500-649736/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-649736/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 650072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-19	G45S	Total Recoverable	Water	6020A	649736
MB 500-649736/1-A	Method Blank	Total Recoverable	Water	6020A	649736

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Metals (Continued)

Analysis Batch: 650072 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-649736/2-A	Lab Control Sample	Total Recoverable	Water	6020A	649736

General Chemistry

Analysis Batch: 646556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	SM 2540C	
500-213350-2	T09S DUP	Total/NA	Water	SM 2540C	
500-213350-3	T06S	Total/NA	Water	SM 2540C	
500-213350-4	T05S	Total/NA	Water	SM 2540C	
500-213350-5	T02S	Total/NA	Water	SM 2540C	
MB 500-646556/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-646556/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 646780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-6	G31S	Total/NA	Water	SM 2540C	
500-213350-7	G46S	Total/NA	Water	SM 2540C	
500-213350-8	R08S	Total/NA	Water	SM 2540C	
500-213350-9	G33S	Total/NA	Water	SM 2540C	
MB 500-646780/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-646780/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-213350-6 DU	G31S	Total/NA	Water	SM 2540C	

Analysis Batch: 646928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	SM 4500 F C	
500-213350-2	T09S DUP	Total/NA	Water	SM 4500 F C	
500-213350-3	T06S	Total/NA	Water	SM 4500 F C	
500-213350-4	T05S	Total/NA	Water	SM 4500 F C	
500-213350-5	T02S	Total/NA	Water	SM 4500 F C	
500-213350-6	G31S	Total/NA	Water	SM 4500 F C	
500-213350-7	G46S	Total/NA	Water	SM 4500 F C	
500-213350-8	R08S	Total/NA	Water	SM 4500 F C	
500-213350-9	G33S	Total/NA	Water	SM 4500 F C	
MB 500-646928/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-646928/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-646928/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-646928/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-213350-4 MS	T05S	Total/NA	Water	SM 4500 F C	
500-213350-4 MSD	T05S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 647142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-10	T01S	Total/NA	Water	SM 2540C	
500-213350-11	T08S	Total/NA	Water	SM 2540C	
500-213350-12	T03S	Total/NA	Water	SM 2540C	
500-213350-13	G20S	Total/NA	Water	SM 2540C	
500-213350-14	G30S	Total/NA	GW	SM 2540C	
500-213350-15	G44S	Total/NA	Water	SM 2540C	
MB 500-647142/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

General Chemistry (Continued)

Analysis Batch: 647142 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-647142/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 647391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-16	G48S	Total/NA	Water	SM 2540C	
500-213350-17	G47S	Total/NA	Water	SM 2540C	
500-213350-18	R32S	Total/NA	Water	SM 2540C	
500-213350-19	G45S	Total/NA	Water	SM 2540C	
MB 500-647391/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-647391/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-213350-16 MS	G48S	Total/NA	Water	SM 2540C	
500-213350-16 DU	G48S	Total/NA	Water	SM 2540C	
500-213350-17 DU	G47S	Total/NA	Water	SM 2540C	

Analysis Batch: 647983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-10	T01S	Total/NA	Water	SM 4500 F C	
500-213350-11	T08S	Total/NA	Water	SM 4500 F C	
500-213350-12	T03S	Total/NA	Water	SM 4500 F C	
500-213350-13	G20S	Total/NA	Water	SM 4500 F C	
500-213350-14	G30S	Total/NA	GW	SM 4500 F C	
500-213350-15	G44S	Total/NA	Water	SM 4500 F C	
500-213350-16	G48S	Total/NA	Water	SM 4500 F C	
500-213350-17	G47S	Total/NA	Water	SM 4500 F C	
500-213350-18	R32S	Total/NA	Water	SM 4500 F C	
500-213350-19	G45S	Total/NA	Water	SM 4500 F C	
MB 500-647983/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-647983/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-213350-10 MS	T01S	Total/NA	Water	SM 4500 F C	
500-213350-10 MSD	T01S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 648185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	SM 4500 CI- E	
500-213350-2	T09S DUP	Total/NA	Water	SM 4500 CI- E	
500-213350-3	T06S	Total/NA	Water	SM 4500 CI- E	
500-213350-4	T05S	Total/NA	Water	SM 4500 CI- E	
500-213350-5	T02S	Total/NA	Water	SM 4500 CI- E	
500-213350-6	G31S	Total/NA	Water	SM 4500 CI- E	
500-213350-7	G46S	Total/NA	Water	SM 4500 CI- E	
500-213350-8	R08S	Total/NA	Water	SM 4500 CI- E	
500-213350-9	G33S	Total/NA	Water	SM 4500 CI- E	
500-213350-10	T01S	Total/NA	Water	SM 4500 CI- E	
500-213350-11	T08S	Total/NA	Water	SM 4500 CI- E	
500-213350-12	T03S	Total/NA	Water	SM 4500 CI- E	
500-213350-13	G20S	Total/NA	Water	SM 4500 CI- E	
500-213350-14	G30S	Total/NA	GW	SM 4500 CI- E	
500-213350-15	G44S	Total/NA	Water	SM 4500 CI- E	
500-213350-16	G48S	Total/NA	Water	SM 4500 CI- E	
500-213350-17	G47S	Total/NA	Water	SM 4500 CI- E	
500-213350-18	R32S	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

General Chemistry (Continued)

Analysis Batch: 648185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-19	G45S	Total/NA	Water	SM 4500 CI- E	
MB 500-648185/58	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-648185/59	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 648186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	SM 4500 SO4 E	
500-213350-2	T09S DUP	Total/NA	Water	SM 4500 SO4 E	
500-213350-3	T06S	Total/NA	Water	SM 4500 SO4 E	
500-213350-4	T05S	Total/NA	Water	SM 4500 SO4 E	
500-213350-5	T02S	Total/NA	Water	SM 4500 SO4 E	
500-213350-6	G31S	Total/NA	Water	SM 4500 SO4 E	
500-213350-7	G46S	Total/NA	Water	SM 4500 SO4 E	
500-213350-8	R08S	Total/NA	Water	SM 4500 SO4 E	
500-213350-9	G33S	Total/NA	Water	SM 4500 SO4 E	
500-213350-10	T01S	Total/NA	Water	SM 4500 SO4 E	
500-213350-11	T08S	Total/NA	Water	SM 4500 SO4 E	
500-213350-12	T03S	Total/NA	Water	SM 4500 SO4 E	
500-213350-13	G20S	Total/NA	Water	SM 4500 SO4 E	
500-213350-14	G30S	Total/NA	GW	SM 4500 SO4 E	
500-213350-15	G44S	Total/NA	Water	SM 4500 SO4 E	
500-213350-16	G48S	Total/NA	Water	SM 4500 SO4 E	
500-213350-17	G47S	Total/NA	Water	SM 4500 SO4 E	
500-213350-18	R32S	Total/NA	Water	SM 4500 SO4 E	
500-213350-19	G45S	Total/NA	Water	SM 4500 SO4 E	
MB 500-648186/42	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-648186/43	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 646667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	Field Sampling	
500-213350-2	T09S DUP	Total/NA	Water	Field Sampling	
500-213350-3	T06S	Total/NA	Water	Field Sampling	
500-213350-4	T05S	Total/NA	Water	Field Sampling	
500-213350-5	T02S	Total/NA	Water	Field Sampling	
500-213350-6	G31S	Total/NA	Water	Field Sampling	
500-213350-7	G46S	Total/NA	Water	Field Sampling	
500-213350-8	R08S	Total/NA	Water	Field Sampling	
500-213350-9	G33S	Total/NA	Water	Field Sampling	
500-213350-10	T01S	Total/NA	Water	Field Sampling	
500-213350-11	T08S	Total/NA	Water	Field Sampling	
500-213350-12	T03S	Total/NA	Water	Field Sampling	
500-213350-13	G20S	Total/NA	Water	Field Sampling	
500-213350-14	G30S	Total/NA	GW	Field Sampling	
500-213350-15	G44S	Total/NA	Water	Field Sampling	
500-213350-16	G48S	Total/NA	Water	Field Sampling	
500-213350-17	G47S	Total/NA	Water	Field Sampling	
500-213350-18	R32S	Total/NA	Water	Field Sampling	
500-213350-19	G45S	Total/NA	Water	Field Sampling	

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 646667 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-20	T04S	Total/NA	Water	Field Sampling	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-647664/1-A
Matrix: Water
Analysis Batch: 647950

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 16:16	1
Arsenic	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:16	1
Barium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:16	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:16	1
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:16	1
Calcium	<0.20		0.20		mg/L		03/18/22 07:53	03/18/22 16:16	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:16	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:16	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:16	1
Lithium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:16	1
Molybdenum	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:16	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:16	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:16	1

Lab Sample ID: MB 500-647664/1-A
Matrix: Water
Analysis Batch: 648012

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		03/18/22 07:53	03/21/22 14:51	1

Lab Sample ID: LCS 500-647664/2-A
Matrix: Water
Analysis Batch: 647950

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0964		mg/L		96	80 - 120
Barium	0.500	0.502		mg/L		100	80 - 120
Beryllium	0.0500	0.0477		mg/L		95	80 - 120
Cadmium	0.0500	0.0492		mg/L		98	80 - 120
Calcium	10.0	9.69		mg/L		97	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.510		mg/L		102	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.100	0.0960		mg/L		96	80 - 120
Molybdenum	1.00	0.943		mg/L		94	80 - 120
Selenium	0.100	0.0976		mg/L		98	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-647664/2-A
Matrix: Water
Analysis Batch: 648012

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-213350-1 MS
Matrix: Water
Analysis Batch: 647950

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0030		0.500	0.521		mg/L		104	75 - 125
Arsenic	0.0030		0.100	0.105		mg/L		102	75 - 125
Barium	0.064		0.500	0.552		mg/L		98	75 - 125
Beryllium	<0.0010		0.0500	0.0440		mg/L		88	75 - 125
Cadmium	<0.00050		0.0500	0.0493		mg/L		98	75 - 125
Calcium	130		10.0	139	4	mg/L		86	75 - 125
Chromium	<0.0050		0.200	0.194		mg/L		97	75 - 125
Cobalt	0.0012		0.500	0.484		mg/L		97	75 - 125
Lead	0.00058		0.100	0.101		mg/L		101	75 - 125
Lithium	0.13		0.100	0.217		mg/L		91	75 - 125
Molybdenum	1.5		1.00	2.54		mg/L		99	75 - 125
Selenium	<0.0025		0.100	0.105		mg/L		105	75 - 125
Thallium	<0.0020		0.100	0.0994		mg/L		99	75 - 125

Lab Sample ID: 500-213350-1 MS
Matrix: Water
Analysis Batch: 648012

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Boron	13		1.00	12.8	4	mg/L		-19	75 - 125

Lab Sample ID: 500-213350-1 MSD
Matrix: Water
Analysis Batch: 647950

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030		0.500	0.525		mg/L		105	75 - 125	1	20
Arsenic	0.0030		0.100	0.105		mg/L		102	75 - 125	0	20
Barium	0.064		0.500	0.555		mg/L		98	75 - 125	1	20
Beryllium	<0.0010		0.0500	0.0452		mg/L		90	75 - 125	3	20
Cadmium	<0.00050		0.0500	0.0499		mg/L		99	75 - 125	1	20
Calcium	130		10.0	139	4	mg/L		86	75 - 125	0	20
Chromium	<0.0050		0.200	0.195		mg/L		98	75 - 125	0	20
Cobalt	0.0012		0.500	0.491		mg/L		98	75 - 125	2	20
Lead	0.00058		0.100	0.103		mg/L		103	75 - 125	2	20
Lithium	0.13		0.100	0.217		mg/L		91	75 - 125	0	20
Molybdenum	1.5		1.00	2.52		mg/L		98	75 - 125	1	20
Selenium	<0.0025		0.100	0.105		mg/L		105	75 - 125	0	20
Thallium	<0.0020		0.100	0.101		mg/L		101	75 - 125	2	20

Lab Sample ID: 500-213350-1 MSD
Matrix: Water
Analysis Batch: 648012

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	13		1.00	12.8	4	mg/L		-18	75 - 125	0	20

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QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-213350-1 DU
Matrix: Water
Analysis Batch: 647950

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0030		0.00288		mg/L		2	20
Barium	0.064		0.0621		mg/L		2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	130		130		mg/L		0.4	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	0.0012		<0.0010		mg/L		NC	20
Lead	0.00058		0.000520		mg/L		10	20
Lithium	0.13		0.126		mg/L		0.8	20
Molybdenum	1.5		1.54		mg/L		0.3	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-213350-1 DU
Matrix: Water
Analysis Batch: 648012

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	13		11.9		mg/L		8	20

Lab Sample ID: MB 500-649736/1-A
Matrix: Water
Analysis Batch: 650072

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 649736

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Molybdenum	<0.0050		0.0050		mg/L		03/31/22 16:51	04/01/22 15:27	1

Lab Sample ID: LCS 500-649736/2-A
Matrix: Water
Analysis Batch: 650072

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 649736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-647262/12-A
Matrix: Water
Analysis Batch: 647539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647262

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 09:42	1

Lab Sample ID: LCS 500-647262/13-A
Matrix: Water
Analysis Batch: 647539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

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QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-213350-10 MS
Matrix: Water
Analysis Batch: 647539

Client Sample ID: T01S
Prep Type: Total/NA
Prep Batch: 647262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00106		mg/L		106	75 - 125

Lab Sample ID: 500-213350-10 MSD
Matrix: Water
Analysis Batch: 647539

Client Sample ID: T01S
Prep Type: Total/NA
Prep Batch: 647262

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00104		mg/L		104	75 - 125	2	20

Lab Sample ID: 500-213350-10 DU
Matrix: Water
Analysis Batch: 647539

Client Sample ID: T01S
Prep Type: Total/NA
Prep Batch: 647262

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Lab Sample ID: MB 500-647536/12-A
Matrix: Water
Analysis Batch: 647747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/17/22 10:35	03/18/22 08:18	1

Lab Sample ID: LCS 500-647536/13-A
Matrix: Water
Analysis Batch: 647747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00205		mg/L		102	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-646556/1
Matrix: Water
Analysis Batch: 646556

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			03/11/22 02:41	1

Lab Sample ID: LCS 500-646556/2
Matrix: Water
Analysis Batch: 646556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	244		mg/L		98	80 - 120

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 500-646780/1
Matrix: Water
Analysis Batch: 646780

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			03/14/22 05:49	1

Lab Sample ID: LCS 500-646780/2
Matrix: Water
Analysis Batch: 646780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	244		mg/L		98	80 - 120

Lab Sample ID: 500-213350-6 DU
Matrix: Water
Analysis Batch: 646780

Client Sample ID: G31S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1060		mg/L		4	5

Lab Sample ID: MB 500-647142/1
Matrix: Water
Analysis Batch: 647142

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			03/16/22 02:41	1

Lab Sample ID: LCS 500-647142/2
Matrix: Water
Analysis Batch: 647142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	244		mg/L		98	80 - 120

Lab Sample ID: MB 500-647391/1
Matrix: Water
Analysis Batch: 647391

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			03/17/22 03:28	1

Lab Sample ID: LCS 500-647391/2
Matrix: Water
Analysis Batch: 647391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	278		mg/L		111	80 - 120

Lab Sample ID: 500-213350-16 MS
Matrix: Water
Analysis Batch: 647391

Client Sample ID: G48S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1100		250	1340	4	mg/L		94	75 - 125

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QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: 500-213350-16 DU
 Matrix: Water
 Analysis Batch: 647391

Client Sample ID: G48S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1100		mg/L		0.7	5

Lab Sample ID: 500-213350-17 DU
 Matrix: Water
 Analysis Batch: 647391

Client Sample ID: G47S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1200		1130		mg/L		4	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-648185/58
 Matrix: Water
 Analysis Batch: 648185

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			03/22/22 11:30	1

Lab Sample ID: LCS 500-648185/59
 Matrix: Water
 Analysis Batch: 648185

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.4		mg/L		102	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-646928/3
 Matrix: Water
 Analysis Batch: 646928

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/14/22 10:33	1

Lab Sample ID: MB 500-646928/31
 Matrix: Water
 Analysis Batch: 646928

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/14/22 12:18	1

Lab Sample ID: LCS 500-646928/32
 Matrix: Water
 Analysis Batch: 646928

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.9		mg/L		109	90 - 119

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-646928/4
Matrix: Water
Analysis Batch: 646928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.6		mg/L		106	90 - 119

Lab Sample ID: 500-213350-4 MS
Matrix: Water
Analysis Batch: 646928

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.7		5.00	7.05		mg/L		108	75 - 125

Lab Sample ID: 500-213350-4 MSD
Matrix: Water
Analysis Batch: 646928

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.7		5.00	7.05		mg/L		108	75 - 125	0	20

Lab Sample ID: MB 500-647983/3
Matrix: Water
Analysis Batch: 647983

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/21/22 09:10	1

Lab Sample ID: LCS 500-647983/4
Matrix: Water
Analysis Batch: 647983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.4		mg/L		104	90 - 119

Lab Sample ID: 500-213350-10 MS
Matrix: Water
Analysis Batch: 647983

Client Sample ID: T01S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.2		5.00	6.35		mg/L		103	75 - 125

Lab Sample ID: 500-213350-10 MSD
Matrix: Water
Analysis Batch: 647983

Client Sample ID: T01S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.2		5.00	6.35		mg/L		103	75 - 125	0	20

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-648186/42
Matrix: Water
Analysis Batch: 648186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			03/22/22 13:09	1

Lab Sample ID: LCS 500-648186/43
Matrix: Water
Analysis Batch: 648186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	18.1		mg/L		91	88 - 123

Chain of Custody Record

538322




Environment Testing
TestAmer ca

TAL-8210

Address: _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact		Date		COC No	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 206/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, F1, Cl, SO4</i>		 500-213350 COC		Sampler For Lab Use Only. Walk-in Client: <input type="checkbox"/> Lab Sampling: <input type="checkbox"/> Job / SDG No <i>500-213350</i>	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Name <i>Joliet #9 (Quarry) CER</i>									
Site <i>1Q22 GW</i>									
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>T09S</i>		<i>03/08/22</i>	<i>0953</i>		<i>W</i>	<i>5</i>			
<i>T09S DUP</i>		<i>03/08/22</i>	<i>0953</i>		<i>W</i>	<i>5</i>			
<i>T06S</i>		<i>03/08/22</i>	<i>1255</i>		<i>W</i>	<i>5</i>			
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification. Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>2.8</i> Corr'd _____		Therm ID No			
Relinquished by <i>[Signature]</i>		Company <i>ETA</i>		Date/Time <i>03/08/22 1450</i>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>		Company <i>ETA</i>	
								Date/Time <i>3/8/22 1450</i>	

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Chain of Custody Record

538324




Environment Testing
TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager:			Site Contact:			Date:		COC No:																																
Company Name: <i>Midwest Generation FME LLC</i>		Email:			Lab Contact:			Carrier:		_____ of _____ COCs																																
Address:		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day			Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals Hexavalent + Hg</i> <i>TDS, FI, CI, SO4</i>			 500-213350 COC		Sampler: For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____		Job / SDG No.: <i>500-213350</i>																														
City/State/Zip: <i>Joliet, IL</i>										Sample Identification <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=Grab)</th> <th>Matrix</th> <th># of Cont.</th> <th>Filtered Sample (Y/N)</th> <th>Perform MS / MSD (Y/N)</th> </tr> </thead> <tbody> <tr> <td><i>6315</i></td> <td><i>03/11/22 0944</i></td> <td></td> <td><i>W</i></td> <td><i>5</i></td> <td><i>/</i></td> <td><i>/</i></td> </tr> <tr> <td><i>G465</i></td> <td><i>03/11/22 1056</i></td> <td></td> <td><i>W</i></td> <td><i>5</i></td> <td><i>/</i></td> <td><i>/</i></td> </tr> <tr> <td><i>RO85</i></td> <td><i>03/11/22 1235</i></td> <td></td> <td><i>W</i></td> <td><i>5</i></td> <td><i>/</i></td> <td><i>/</i></td> </tr> <tr> <td><i>G335</i></td> <td><i>03/11/22 1332</i></td> <td></td> <td><i>W</i></td> <td><i>5</i></td> <td><i>/</i></td> <td><i>/</i></td> </tr> </tbody> </table>		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	<i>6315</i>	<i>03/11/22 0944</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>G465</i>	<i>03/11/22 1056</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>RO85</i>	<i>03/11/22 1235</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>G335</i>	<i>03/11/22 1332</i>	
Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)																																				
<i>6315</i>	<i>03/11/22 0944</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>																																				
<i>G465</i>	<i>03/11/22 1056</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>																																				
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Phone:																																										
Fax:																																										
Project Name: <i>Ticket #9 (Party) CCR</i>																																										
Site: <i>1Q22 GW</i>																																										
P O #																																										
Preservation Used: 1= Ice; 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____																																										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months																																				
Special Instructions/QC Requirements & Comments:																																										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:			Cooler Temp. (°C): Obs'd: <i>21</i> Corr'd: _____		Therm ID No.:																																			
Relinquished by: <i>[Signature]</i>		Company: <i>ETA</i>		Date/Time: <i>03/11/22 1527</i>		Received by:		Company:		Date/Time:																																
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:																																
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>[Signature]</i>		Company: <i>ETA</i>		Date/Time: <i>3/11/22 1527</i>																																



Chain of Custody Record

542109




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager <i>Diana Meckler</i>		Site Contact:		Date		COC No	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact:		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Lead-210 - Combined 226 & 228</i> <i>Metals 14 Elements + Hg</i> <i>TDS, FIC1, SO4</i>		 213350 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Job / SDG No	
Project Name <i>Joliet #9 Quarry CCR</i>								<i>500-213350</i>	
Site <i>1022 GW</i>								Sample Specific Notes	
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	
<i>10 TO1S</i>		<i>03/14/22</i>	<i>0952</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>11 TO8S</i>		<i>03/14/22</i>	<i>1149</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>12 TO3S</i>		<i>03/14/22</i>	<i>1345</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd. <i>19</i> Corr'd <i>14</i>		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>ETA</i>		Date/Time <i>03/14/22 1450</i>		Received by _____		Company _____	
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____	
Relinquished by _____		Company _____		Date/Time _____		Received by Laboratory by <i>[Signature]</i>		Company <i>ETA</i>	
								Date/Time <i>3/14/22 1450</i>	

Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins Environment Testing
 America

Client Information		Sampler: <i>Noe L, John H.</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No: 500-99504-43521 2						
Client Contact: DeAndre Cooley		Phone		E-Mail: Diana Mockler@Eurofinset.com		State of Origin		Page 2 of 2						
Company: Midwest Generation EME LLC				PWSID		Analysis Requested								
Address: 1800 Channahon Road		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0 - Standard Target List Ra226Ra228_GFFC - Local Method 904.0 Standard Target List 6020A, 7470A 2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E		Total Number of Containers		Job #: <i>570-213350</i>						
City: Joliet		TAT Requested (days)						Preservation Codes						
State, Zip: IL 60436		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No						A HCL M Hexane B - NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDTA Z other (specify)						
Phone: 779-279-2321(Tel)		PO # 4502085968						Other:						
Email: deandre.cooley@nrg.com		WO #												
Project Name: Joliet #9 CCR		Project #: 50011504												
Site: Illinois		SSOW#												
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra226Ra228_GFFC - Local Method	904.0 Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E	Total Number of Containers	Special Instructions/Note
<i>16</i>														
<i>17</i>														
<i>18</i>														
<i>19</i>														
<i>20</i>														

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-158090.1					
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@Eurofinset.com		Page: Page 1 of 1					
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-213350-1					
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 3/29/2022		Preservation Codes:					
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):		A - HCL B - Hexane C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:					
Project #: 50011504		PO #:		M - None N - NaOH O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)					
Site: NRG Midwest Generation LSQ Joliet #9 CCR		WO #:		Total Number of Containers					
Sample Identification - Client ID (Lab ID)		Matrix (W=water, S=solid, O=waste/oil, B=bi-tissue, A=air)		Special Instructions/Note:					
G31S (500-213350-6)	Sample Type (C=Comp, G=grab)	Sample Time	Sample Date	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.0/PreSep_21 Standard Target List	90.0/PreSep_0 Standard Target List	Ra22Rr228_GFPc	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G46S (500-213350-7)		09:44 Central	3/11/22	X	X	X	X	X	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
R08S (500-213350-8)		10:56 Central	3/11/22	X	X	X	X	X	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G33S (500-213350-9)		12:35 Central	3/11/22	X	X	X	X	X	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
		13:32 Central	3/11/22	X	X	X	X	X	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: *Alvin Smith* Date: 3/11/22 Time: 1540 Company: FEDEX

Relinquished by: *Victoria Johnson* Date: MAR 14 2022 Time: 0830 Company: EFA STL

Relinquished by: _____ Date: _____ Time: _____ Company: _____

Custody Seals Intact: _____ (Custody Seal No.: _____)
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-1

Login Number: 213350

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,1.1,1.1,1.4,2.3,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T09S

Lab Sample ID: 500-213350-1

Date Collected: 03/08/22 09:53

Matrix: Water

Date Received: 03/08/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 16:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		50	648012	03/21/22 12:59	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 09:48	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646556	03/11/22 03:19	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	648185	03/22/22 11:31	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:03	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	648186	03/22/22 13:12	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/08/22 09:53	JVB	TAL CHI

Client Sample ID: T09S DUP

Lab Sample ID: 500-213350-2

Date Collected: 03/08/22 09:53

Matrix: Water

Date Received: 03/08/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 16:41	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		50	648012	03/21/22 13:24	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 09:50	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646556	03/11/22 03:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	648185	03/22/22 11:32	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:07	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	648186	03/22/22 13:13	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/08/22 09:53	JVB	TAL CHI

Client Sample ID: T06S

Lab Sample ID: 500-213350-3

Date Collected: 03/08/22 12:55

Matrix: Water

Date Received: 03/08/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 16:44	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	648012	03/21/22 13:27	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 09:52	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646556	03/11/22 03:24	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	648185	03/22/22 11:32	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:11	EAT	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T06S

Lab Sample ID: 500-213350-3

Date Collected: 03/08/22 12:55

Matrix: Water

Date Received: 03/08/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		5	648186	03/22/22 13:13	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/08/22 12:55	JVB	TAL CHI

Client Sample ID: T05S

Lab Sample ID: 500-213350-4

Date Collected: 03/10/22 10:07

Matrix: Water

Date Received: 03/10/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 16:48	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		50	648012	03/21/22 13:31	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 09:59	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646556	03/11/22 03:27	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	648185	03/22/22 11:48	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:24	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		25	648186	03/22/22 14:08	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/10/22 10:07	JVB	TAL CHI

Client Sample ID: T02S

Lab Sample ID: 500-213350-5

Date Collected: 03/10/22 12:49

Matrix: Water

Date Received: 03/10/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 16:58	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 13:34	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:01	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646556	03/11/22 03:30	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	648185	03/22/22 11:32	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:33	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:14	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/10/22 12:49	JVB	TAL CHI

Client Sample ID: G31S

Lab Sample ID: 500-213350-6

Date Collected: 03/11/22 09:44

Matrix: Water

Date Received: 03/11/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:02	FXG	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G31S

Lab Sample ID: 500-213350-6

Date Collected: 03/11/22 09:44

Matrix: Water

Date Received: 03/11/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 13:38	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:03	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646780	03/14/22 06:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	648185	03/22/22 11:33	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:48	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:14	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/11/22 09:44	JVB	TAL CHI

Client Sample ID: G46S

Lab Sample ID: 500-213350-7

Date Collected: 03/11/22 10:56

Matrix: Water

Date Received: 03/11/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:05	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		50	648012	03/21/22 13:41	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:05	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646780	03/14/22 06:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	648185	03/22/22 11:33	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:52	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	648186	03/22/22 13:14	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/11/22 10:56	JVB	TAL CHI

Client Sample ID: R08S

Lab Sample ID: 500-213350-8

Date Collected: 03/11/22 12:35

Matrix: Water

Date Received: 03/11/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 13:45	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:07	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646780	03/14/22 06:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	648185	03/22/22 11:33	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:56	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:15	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/11/22 12:35	JVB	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G33S

Lab Sample ID: 500-213350-9

Date Collected: 03/11/22 13:32

Matrix: Water

Date Received: 03/11/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	648012	03/21/22 13:48	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:10	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646780	03/14/22 06:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	648185	03/22/22 11:34	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:59	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	648186	03/22/22 13:57	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/11/22 13:32	JVB	TAL CHI

Client Sample ID: T01S

Lab Sample ID: 500-213350-10

Date Collected: 03/14/22 09:52

Matrix: Water

Date Received: 03/14/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:16	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	648012	03/21/22 13:52	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:12	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	648185	03/22/22 11:34	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:17	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:15	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/14/22 09:52	JVB	TAL CHI

Client Sample ID: T08S

Lab Sample ID: 500-213350-11

Date Collected: 03/14/22 11:49

Matrix: Water

Date Received: 03/14/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	648012	03/21/22 14:20	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	648012	03/21/22 15:22	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	648185	03/22/22 11:34	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:26	EAT	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T08S

Lab Sample ID: 500-213350-11

Date Collected: 03/14/22 11:49

Matrix: Water

Date Received: 03/14/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		20	648186	03/22/22 13:15	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/14/22 11:49	JVB	TAL CHI

Client Sample ID: T03S

Lab Sample ID: 500-213350-12

Date Collected: 03/14/22 13:45

Matrix: Water

Date Received: 03/14/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		50	648012	03/21/22 14:23	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:27	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	648185	03/22/22 11:35	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:29	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:17	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/14/22 13:45	JVB	TAL CHI

Client Sample ID: G20S

Lab Sample ID: 500-213350-13

Date Collected: 03/15/22 09:30

Matrix: Water

Date Received: 03/15/22 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:26	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	648012	03/21/22 14:27	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	648185	03/22/22 11:35	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:33	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	648186	03/22/22 13:57	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/15/22 09:30	JVB	TAL CHI

Client Sample ID: G30S

Lab Sample ID: 500-213350-14

Date Collected: 03/15/22 11:43

Matrix: GW

Date Received: 03/15/22 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:30	FXG	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G30S

Lab Sample ID: 500-213350-14

Date Collected: 03/15/22 11:43

Matrix: GW

Date Received: 03/15/22 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	648012	03/21/22 14:30	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	648185	03/22/22 11:35	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:37	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:17	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/15/22 11:43	JVB	TAL CHI

Client Sample ID: G44S

Lab Sample ID: 500-213350-15

Date Collected: 03/15/22 13:49

Matrix: Water

Date Received: 03/15/22 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:40	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 14:33	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:33	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	648185	03/22/22 11:35	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:41	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	648186	03/22/22 13:17	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/15/22 13:49	JVB	TAL CHI

Client Sample ID: G48S

Lab Sample ID: 500-213350-16

Date Collected: 03/16/22 09:28

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:44	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	648012	03/21/22 14:37	FXG	TAL CHI
Total/NA	Prep	7470A			647536	03/17/22 10:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647747	03/18/22 08:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647391	03/17/22 03:33	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	648185	03/22/22 11:36	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:55	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:17	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/16/22 09:28	JVB	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G47S

Lab Sample ID: 500-213350-17

Date Collected: 03/16/22 10:55

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 14:40	FXG	TAL CHI
Total/NA	Prep	7470A			647536	03/17/22 10:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647747	03/18/22 08:26	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647391	03/17/22 03:40	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	648185	03/22/22 11:36	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:58	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:18	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/16/22 10:55	JVB	TAL CHI

Client Sample ID: R32S

Lab Sample ID: 500-213350-18

Date Collected: 03/16/22 12:44

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:51	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 14:44	FXG	TAL CHI
Total/NA	Prep	7470A			647536	03/17/22 10:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647747	03/18/22 08:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647391	03/17/22 03:46	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	648185	03/22/22 11:37	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 10:01	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:18	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/16/22 12:44	JVB	TAL CHI

Client Sample ID: G45S

Lab Sample ID: 500-213350-19

Date Collected: 03/16/22 13:31

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:54	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	648012	03/21/22 14:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			649736	03/31/22 16:51	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	650072	04/01/22 15:34	FXG	TAL CHI
Total/NA	Prep	7470A			647536	03/17/22 10:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647747	03/18/22 08:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647391	03/17/22 03:48	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	648185	03/22/22 11:37	LP	TAL CHI

Eurofins Chicago

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G45S

Lab Sample ID: 500-213350-19

Date Collected: 03/16/22 13:31

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 10:05	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	648186	03/22/22 13:18	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/16/22 13:31	JVB	TAL CHI

Client Sample ID: T04S

Lab Sample ID: 500-213350-20

Date Collected: 03/16/22 14:10

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	646667	03/16/22 14:10	JVB	TAL CHI

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T09S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-1

Type Sample: (circle one)	<u>Ground Water</u>	Surface Water	Leachate	Other: _____
Equipment Used:	Purging _____	Bladder Pump _____	Dedicated (Y/N) <u>(N)</u>	
	Sampling _____	Bladder Pump _____	Dedicated (Y/N) <u>(N)</u>	

PURGING INFORMATION

Purge Date: 03/08/22 Start Purge: 0935 End Purge: 0953
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.58

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final											
Stick Up <u>2.40</u> (ft)	pH <u>7.33</u>	<u>7.32</u>	<u>7.32</u>	(std.)										
Ref. Measuring Pt. <u>TIC</u>	SC <u>1311</u>	<u>1313</u>	<u>1313</u>	(umhos/cm)										
Well Elevation * <u>603.69</u> (ft./msl)	Temp. <u>7.53</u>	<u>7.51</u>	<u>7.51</u>	(°C)										
Water Level <u>98.21</u> (ft.)	Well Stabilization / Recharge Grid													
Ground Water Elev. <u>505.48</u> (ft./msl)	<table border="1" style="width: 100%; height: 30px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													
Well Bottom Elevation * <u>444.80</u> (ft./msl)														

COMMENTS

Sample Appearance/Odor: Colorless, clear, No odor

Weather Conditions: 35°F, Partly cloudy, SW winds @ 5-10 mph

Turbidity: 14.70 NTU

Other: *Reference Measurement (updated 02/19/14)

Depth To Water from L.S. = 98.21 - 2.40 = 95.81 (ft)

Levels were taken on 03/08/22 @ 0920

* Total Depth: 158.59

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T09S Dup
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-2

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: _____ Start Purge: _____ End Purge: _____
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): _____

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.40 (ft) pH _____ (std.)
Ref. Measuring Pt. TIC SC _____ (umhos/cm)
Well Elevation * 603.69 (ft./msl) Temp. _____ (°C)
Water Level _____ (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. _____ (ft./msl)

Well Bottom Elevation * 444.80 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 35°F, Partly Cloudy, SW winds @ 5-10 mph
Turbidity: 14.70 NTU
Other: *Reference Measurement (updated 02/19/14)
Depth To Water from L.S. = _____
Levels were taken on _____ @ _____
* Total Depth: 158.59

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T06S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-3

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 03/08/22 Start Purge: 1235 End Purge: 1255
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.30 (ft) pH 7.22 7.21 7.21 (std.)
Ref. Measuring Pt. TIC SC 689 688 688 (umhos/cm)
Well Elevation * 620.99 (ft./msl) Temp. 12.07 12.13 12.13 (°C)
Water Level 113.80 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 507.19 (ft./msl)

Well Bottom Elevation * 447.94 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 38°F, Mostly Cloudy, SW winds e 5-10 mph
Turbidity: 1.28 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 113.80 - 2.30 = 111.50 (ft.)
Levels were taken on 03/08/22 @ 1220
* Total Deth = 173.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T05S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-4

Type Sample: Ground Water Surface Water Leachate Other: _____
 (circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
 Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 03/10/22 Start Purge: 0945 End Purge: 1007
 (2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.71

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.40 (ft) pH 9.18 9.17 9.17 (std.)

Ref. Measuring Pt. TIC SC 1,990 2,000 2,000 (umhos/cm)

Well Elevation * 623.46 (ft./msl) Temp. 8.46 8.43 8.43 (°C)

Water Level 124.31 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 499.15 (ft./msl)

Well Bottom Elevation * 448.35 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor

Weather Conditions: 31°F, Mostly Cloudy, NE winds 0-5 mph

Turbidity: 2.68 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 124.31 - 2.40 = 121.91 (ft.)

Levels were taken on 03/10/22 @ 0930.

* Total Deth = 175.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
TestAmerica

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T02S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-2133505

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/10/22 Start Purge: 1235 End Purge: 1249
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.45

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.33 (ft) pH 8.12 8.08 8.08 (std.)
Ref. Measuring Pt. TIC SC 1161 1163 1163 (umhos/cm)
Well Elevation * 626.12 (ft./msl) Temp. 7.71 8.11 8.11 (°C)
Water Level 134.56 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 491.56 (ft./msl)
Well Bottom Elevation * 453.40 (ft./msl)

COMMENTS

Sample Appearance/Odor: Tan, Slight Turbidity, No Odor
Weather Conditions: 33°F, Cloudy, NE winds @ 0-5 mph
Turbidity: 74.00 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 134.56 - 2.33 = 132.23 (ft)
Levels were taken on 03/10/22 @ 1220
* Total Depth = 172.75

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G31S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-10

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
 Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/11/22 Start Purge: 0930 End Purge: 0944
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.63

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.58 (ft) pH 7.04 7.06 7.06 (std.)

Ref. Measuring Pt. TIC SC 1405 1406 1406 (umhos/cm)

Well Elevation *535.77 (ft./msl) Temp. 12.30 12.21 12.21 (°C)

Water Level 25.95 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 509.82 (ft./msl)

Well Bottom Elevation *453.36 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, clear, No Odor

Weather Conditions: 24°F, Sunny, W winds e 5-10 mph

Turbidity: 0.73 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 25.95 - 2.58 = 23.37 (ft.)

Levels were taken on 03/11/22 @ 0920

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G46S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-7

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
 Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/11/22 Start Purge: 1040 End Purge: 1056
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.62

MEASUREMENTS

Well Diameter 4.0 (inches)

Stick Up 2.70 (ft)

Ref. Measuring Pt. TIC

Well Elevation *601.34 (ft./msl)

Water Level 95.71 (ft.)

Ground Water Elev. 505.63 (ft./msl)

Well Bottom Elevation *453.62 (ft./msl)

	1st	2nd	Final	
pH	<u>7.38</u>	<u>7.38</u>	<u>7.38</u>	(std.)
SC	<u>1320</u>	<u>1325</u>	<u>1325</u>	(umhos/cm)
Temp.	<u>11.83</u>	<u>11.84</u>	<u>11.84</u>	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Tan, Moderate Turbidity

Weather Conditions: 27°F, Sunny, SW winds 5-10 mph

Turbidity: 99.30 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 95.71 - 2.70 = 93.01 (ft.)

Levels were taken on 03/11/22 @ 1035

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R08S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-8

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/11/22 Start Purge: 1220 End Purge: 1235
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.77

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.55 (ft) pH 8.20 8.21 8.21 (std.)

Ref. Measuring Pt. TIC SC 956 955 955 (umhos/cm)

Well Elevation *578.51 (ft./msl) Temp. 11.69 11.68 11.68 (°C)

Water Level 66.09 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 512.42 (ft./msl)

Well Bottom Elevation *453.08 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor

Weather Conditions: 30°F, Sunny, SW winds e 10-15 mph

Turbidity: 0.52 NTU

Other: *Reference Measurement (Well ID updated 11-25-15)

Depth To Water from L.S. = 66.09 - 2.55 = 63.54 (A)

Levels were taken on 03/11/22 @ 1215

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T01S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-10

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 03/14/22 Start Purge: 0930 End Purge: 0952
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.28

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.48 (ft) pH 7.54 7.53 7.53 (std.)

Ref. Measuring Pt. TIC SC 1244 1245 1245 (umhos/cm)

Well Elevation * 621.71 (ft./msl) Temp. 10.37 10.37 10.37 (°C)

Water Level 123.70 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 498.01 (ft./msl)

Well Bottom Elevation * 451.46 (ft./msl)

COMMENTS

Sample Appearance/Odor: Tan, High Turbidity, Slight Odor

Weather Conditions: 47°F, Sunny, SW winds e 10-15 mph

Turbidity: 9.95 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 123.70 - 2.48 = 121.22 (ft.)

Levels were taken on 03/14/22 @ 0915

* Total Depth = 170.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T08S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-11

Type Sample: (circle one)	<u>Ground Water</u>	Surface Water	Leachate	Other: _____
Equipment Used:	Purging _____	Bladder Pump _____	Dedicated (Y/N) <u>(N)</u>	
	Sampling _____	Bladder Pump _____	Dedicated (Y/N) <u>(N)</u>	

PURGING INFORMATION

Purge Date: 03/14/22 Start Purge: 1130 End Purge: 1149
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.49

MEASUREMENTS

Well Diameter _____	<u>2.0</u>	(inches)	1st	2nd	Final																															
Stick Up _____	<u>2.38</u>	(ft)	pH <u>8.65</u>	<u>8.67</u>	<u>8.67</u>	(std.)																														
Ref. Measuring Pt. _____	<u>TIC</u>		SC <u>1387</u>	<u>1387</u>	<u>1387</u>	(umhos/cm)																														
Well Elevation * _____	<u>627.50</u>	(ft./msl)	Temp. <u>13.87</u>	<u>13.97</u>	<u>13.97</u>	(°C)																														
Water Level _____	<u>129.56</u>	(ft.)	Well Stabilization / Recharge Grid																																	
Ground Water Elev. _____	<u>497.94</u>	(ft./msl)	<table border="1" style="width: 100%; height: 30px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																	
Well Bottom Elevation * _____	<u>447.38</u>	(ft./msl)																																		

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Strong Odor

Weather Conditions: 56°F, Sunny, SW winds @ 10-15 mph

Turbidity: 1.84 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 129.56 - 2.38 = 127.18 (ft)

Levels were taken on 03/14/22 @ 1115

* Total Deth = 180.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T03S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-21335D-12

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
 Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/14/22 Start Purge: 1325 End Purge: 1345
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 3.08 (ft) pH 7.39 7.37 7.37 (std.)

Ref. Measuring Pt. TIC SC 1195 1192 1192 (umhos/cm)

Well Elevation * 629.74 (ft./msl) Temp. 12.17 12.19 12.19 (°C)

Water Level 138.79 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 490.95 (ft./msl)

Well Bottom Elevation * 456.70 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, No Odor

Weather Conditions: 61°F, Sunny, SW winds @ 10-15 mph

Turbidity: 0.65 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 138.79 - 3.08 = 135.71 (ft.)

Levels were taken on 03/14/22 @ 1320

* Total Depth = 172.95

(Updated: 10/19/2021)

Sampler Name (Print): Noc Lopez Signature: [Signature]





Environment Testing
TestAmerica

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G20S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-13

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/15/22 Start Purge: 0910 End Purge: 0930
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.13

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.78 (ft) pH 7.52 7.49 7.49 (std.)
Ref. Measuring Pt. TIC SC 603 609 609 (umhos/cm)
Well Elevation *580.94 (ft./msl) Temp. 7.61 7.63 7.63 (°C)
Water Level 55.70 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 525.24 (ft./msl)
Well Bottom Elevation *442.28 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 41°F, Cloudy, E winds 0-5 mph
Turbidity: 0.46 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 55.70 - 2.78 = 52.92 (ft.)
Levels were taken on 03/15/22 @ 0905

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G30S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-14

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/15/22 Start Purge: 1125 End Purge: 1143
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.23

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.31 (ft) pH 7.90 7.91 7.91 (std.)

Ref. Measuring Pt. TIC SC 1610 1610 1610 (umhos/cm)

Well Elevation *524.69 (ft./msl) Temp. 9.29 9.30 9.30 (°C)

Water Level 2.02 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 522.67 (ft./msl)

Well Bottom Elevation *462.58 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor

Weather Conditions: 47°F, Partly Cloudy, NE winds @ 0-5 mph

Turbidity: 0.45 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 2.02 - 2.31 = -0.29 ft

Levels were taken on 03/15/22 @ 1120

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G44S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-15

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
 Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/15/22 Start Purge: 1325 End Purge: 1349
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.54

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.18 (ft) pH 7.28 7.24 7.24 (std.)

Ref. Measuring Pt. TIC SC 994 994 994 (umhos/cm)

Well Elevation *586.49 (ft./msl) Temp. 12.48 12.52 12.52 (°C)

Water Level 79.64 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 506.85 (ft./msl)

Well Bottom Elevation *455.11 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 55°F, Sunny, NE winds @ 0-5 mph

Turbidity: 1.09 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 79.64 - 2.18 = 77.46 (A)

Levels were taken on 03/15/22 @ 1320

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G48S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-16

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/16/22 Start Purge: 0910 End Purge: 0928
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.93

MEASUREMENTS

Well Diameter 4.0 (inches) 1st 2nd Final

Stick Up 2.45 (ft) pH 7.88 7.87 7.87 (std.)

Ref. Measuring Pt. TIC SC 1356 1353 1353 (umhos/cm)

Well Elevation *620.74 (ft./msl) Temp. 11.37 11.38 11.38 (°C)

Water Level 104.27 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 516.47 (ft./msl)

Well Bottom Elevation *468.32 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor

Weather Conditions: 49°F, Cloudy, SE winds @ 0-5 mph

Turbidity: 0.31 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 104.27 - 2.45 = 101.82 (ft)

Levels were taken on 03/16/22 @ 0905

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G47S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-17

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)

Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/16/22 Start Purge: 1035 End Purge: 1055
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

MEASUREMENTS

Well Diameter 4.0 (inches) 1st 2nd Final

Stick Up 2.50 (ft) pH 8.93 8.94 8.94 (std.)

Ref. Measuring Pt. TIC SC 1356 1348 1348 (umhos/cm)

Well Elevation *612.04 (ft./msl) Temp. 12.97 13.00 13.00 (°C)

Water Level 94.26 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 517.78 (ft./msl)

Well Bottom Elevation *459.84 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor

Weather Conditions: 60°F, Cloudy, S winds e 5-10 mph

Turbidity: 0.26 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 94.26 - 2.50 = 91.76 (ft)

Levels were taken on 03/16/22 @ 1030

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R32S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-18

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/16/22 Start Purge: 1225 End Purge: 1244
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.98

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.03 (ft) pH 7.58 7.56 7.56 (std.)

Ref. Measuring Pt. TIC SC 786 785 785 (umhos/cm)

Well Elevation *536.91 (ft./msl) Temp. 11.77 11.75 11.75 (°C)

Water Level 19.68 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 517.23 (ft./msl)

Well Bottom Elevation *457.84 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 67°F, Cloudy, SW winds @ 10-15 mph

Turbidity: 1.31 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 19.68 - 2.03 = 17.65 (ft)

Levels were taken on 03/16/22 @ 1220

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G45S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-19

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
 Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 03/16/22 Start Purge: 1315 End Purge: 1331
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 1.03

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.97 (ft) pH 7.37 7.35 7.35 (std.)

Ref. Measuring Pt. TIC SC 790 789 789 (umhos/cm)

Well Elevation *603.94 (ft./msl) Temp. 14.37 14.40 14.40 (°C)

Water Level 65.50 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 538.44 (ft./msl)

Well Bottom Elevation *471.05 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor

Weather Conditions: 67°F, Cloudy, SW winds @ 15-20 mph

Turbidity: 0.98 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 65.50 - 2.97 = 62.53 (ft.)

Levels were taken on 03/16/22 @ 1310

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T04S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-20

Type Sample: (circle one)	Ground Water	Surface Water	Leachate	Other: _____
Equipment Used:	Purging _____	Bladder Pump _____	Dedicated (Y/N)	
	Sampling _____	Bladder Pump _____	Dedicated (Y/N)	

PURGING INFORMATION

Purge Date: _____ Start Purge: _____ End Purge: _____
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): _____

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																				
Stick Up _____ (ft)	pH _____ (std.)																						
Ref. Measuring Pt. <u>TIC</u>	SC _____ (umhos/cm)																						
Well Elevation <u>* 631.35</u> (ft./msl)	Temp. _____ (°C)																						
Water Level _____ (ft.)	Well Stabilization / Recharge Grid																						
Ground Water Elev. _____ (ft./msl)	<table border="1" style="width: 100%; height: 20px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																						
Well Bottom Elevation <u>* 458.07</u> (ft./msl)																							

COMMENTS

Sample Appearance/Odor: _____

Weather Conditions: _____

Turbidity: _____

Other: *Reference Measurement

Depth To Water from L.S. = _____

Levels were taken on N.L. @ 1410

* Total Deth = 173.00

* Unable to access due to property development/excavation
on 03/16/22 @ 1410
(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]



ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-213350-2
Client Project/Site: Joliet #9 (Quarry) CCR 1Q22

For:
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:
4/27/2022 5:31:17 PM

Diana Mockler, Project Manager I
(219)252-7570
Diana.Mockler@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Job ID: 500-213350-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-213350-2

Comments

No additional comments.

Receipt

The samples were received on 3/8/2022 2:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.1° C, 1.4° C, 2.1° C, 2.3° C, 2.8° C and 3.1° C.

RAD

Methods 903.0, 9315: Radium 226 Batch 160-554557:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

T09S (500-213350-1), T09S DUP (500-213350-2), T06S (500-213350-3), (LCS 160-554557/1-A), (MB 160-554557/13-A) and (500-213350-C-2-A DU)

Methods 903.0, 9315: Radium-226 batch 555104

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

T05S (500-213350-4), T02S (500-213350-5), (LCS 160-555104/1-A), (MB 160-555104/18-A) and (500-213350-E-4-B DU)

Methods 903.0, 9315: Radium-226 batch 555713

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

T01S (500-213350-10), T08S (500-213350-11), T03S (500-213350-12), G20S (500-213350-13), G30S (500-213350-14), G44S (500-213350-15), (LCS 160-555713/1-A), (MB 160-555713/17-A) and (500-213350-D-12-A DU)

Methods 903.0, 9315: Radium 226 batch 555908

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

G48S (500-213350-16), G47S (500-213350-17), R32S (500-213350-18), G45S (500-213350-19), (LCS 160-555908/1-A), (MB 160-555908/23-A) and (500-213350-C-16-A DU)

Method 903.0: Radium-226 batch 558553

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date

G31S (500-213350-6), G46S (500-213350-7), R08S (500-213350-8), G33S (500-213350-9), (LCS 160-558553/1-A), (MB 160-558553/22-A) and (500-213350-D-7-A DU)

Methods 904.0, 9320: Radium 228 batch 555926

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date

Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Job ID: 500-213350-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

G48S (500-213350-16), G47S (500-213350-17), R32S (500-213350-18), G45S (500-213350-19), (LCS 160-555926/1-A), (MB 160-555926/23-A) and (500-213350-C-16-B DU)

Method 904.0: Radium 228 batch 555716

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: T01S (500-213350-10). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium 228 batch 555716

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

T01S (500-213350-10), T08S (500-213350-11), T03S (500-213350-12), G20S (500-213350-13), G30S (500-213350-14), G44S (500-213350-15), (LCS 160-555716/1-A), (MB 160-555716/17-A) and (500-213350-D-12-B DU)

Methods 904.0, 9320: Radium-228 batch 558078

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

T09S (500-213350-1), T09S DUP (500-213350-2), T06S (500-213350-3), (LCS 160-558078/1-A), (MB 160-558078/13-A) and (500-213350-E-3-A DU)

Methods 904.0, 9320: Radium-228 batch 555108

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

T05S (500-213350-4), T02S (500-213350-5), (LCS 160-555108/1-A), (MB 160-555108/18-A) and (500-213350-E-4-C DU)

Method 904.0: Radium 228 Batch 160-558561:

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative.

G33S (500-213350-9)

Method 904.0: Radium 228 Batch 160-558561:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

G31S (500-213350-6), G46S (500-213350-7), R08S (500-213350-8), G33S (500-213350-9), (LCS 160-558561/1-A), (MB 160-558561/22-A) and (500-213350-D-7-B DU)

Method PrecSep_0: Radium-228 Prep Batch 160-555926

The following samples were prepared at a reduced aliquot due to Matrix: R32S (500-213350-18). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: The barium carrier recovery is outside the upper control limit (110%) for the following samples in batch 160-555301: G31S (500-213350-6), G46S (500-213350-7), R08S (500-213350-8), G33S (500-213350-9) and (500-213350-C-6 DU). The batch appears to have been double traced during the initial precipitation. Samples are submitted for counting to verify LCS spike recovery.

Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Job ID: 500-213350-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method PrecSep-21: Radium-226 Prep Batch 160-555908

The following samples were prepared at a reduced aliquot due to Matrix: R32S (500-213350-18). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium 226 Batch 160-555289:

The following samples need to be re-digested/re-extracted due to high and inconsistent tracer yields.

G31S (500-213350-6), G46S (500-213350-7), R08S (500-213350-8), G33S (500-213350-9) and (500-213350-C-6 DU)

Method PrecSep-21:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-213350-1	T09S	Water	03/08/22 09:53	03/08/22 14:50
500-213350-2	T09S DUP	Water	03/08/22 09:53	03/08/22 14:50
500-213350-3	T06S	Water	03/08/22 12:55	03/08/22 14:50
500-213350-4	T05S	Water	03/10/22 10:07	03/10/22 14:50
500-213350-5	T02S	Water	03/10/22 12:49	03/10/22 14:50
500-213350-6	G31S	Water	03/11/22 09:44	03/11/22 15:27
500-213350-7	G46S	Water	03/11/22 10:56	03/11/22 15:27
500-213350-8	R08S	Water	03/11/22 12:35	03/11/22 15:27
500-213350-9	G33S	Water	03/11/22 13:32	03/11/22 15:27
500-213350-10	T01S	Water	03/14/22 09:52	03/14/22 14:56
500-213350-11	T08S	Water	03/14/22 11:49	03/14/22 14:56
500-213350-12	T03S	Water	03/14/22 13:45	03/14/22 14:56
500-213350-13	G20S	Water	03/15/22 09:30	03/15/22 14:52
500-213350-14	G30S	GW	03/15/22 11:43	03/15/22 14:52
500-213350-15	G44S	Water	03/15/22 13:49	03/15/22 14:52
500-213350-16	G48S	Water	03/16/22 09:28	03/16/22 14:55
500-213350-17	G47S	Water	03/16/22 10:55	03/16/22 14:55
500-213350-18	R32S	Water	03/16/22 12:44	03/16/22 14:55
500-213350-19	G45S	Water	03/16/22 13:31	03/16/22 14:55

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T09S

Lab Sample ID: 500-213350-1

Date Collected: 03/08/22 09:53

Matrix: Water

Date Received: 03/08/22 14:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.85		0.432	0.463	1.00	0.343	pCi/L	03/10/22 13:28	04/01/22 07:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		40 - 110					03/10/22 13:28	04/01/22 07:49	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.896		0.341	0.351	1.00	0.468	pCi/L	03/31/22 13:15	04/05/22 18:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					03/31/22 13:15	04/05/22 18:10	1
Y Carrier	79.3		40 - 110					03/31/22 13:15	04/05/22 18:10	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.74		0.550	0.581	5.00	0.468	pCi/L		04/06/22 12:57	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T09S DUP

Lab Sample ID: 500-213350-2

Date Collected: 03/08/22 09:53

Matrix: Water

Date Received: 03/08/22 14:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.78		0.367	0.401	1.00	0.252	pCi/L	03/10/22 13:28	04/01/22 07:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		40 - 110					03/10/22 13:28	04/01/22 07:49	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.737		0.246	0.255	1.00	0.326	pCi/L	03/31/22 13:15	04/05/22 18:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					03/31/22 13:15	04/05/22 18:10	1
Y Carrier	80.0		40 - 110					03/31/22 13:15	04/05/22 18:10	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.52		0.442	0.475	5.00	0.326	pCi/L		04/06/22 12:57	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T06S

Lab Sample ID: 500-213350-3

Date Collected: 03/08/22 12:55

Matrix: Water

Date Received: 03/08/22 14:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.29		0.366	0.384	1.00	0.319	pCi/L	03/10/22 13:28	04/01/22 07:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.7		40 - 110					03/10/22 13:28	04/01/22 07:50	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.570		0.234	0.240	1.00	0.328	pCi/L	03/31/22 13:15	04/05/22 18:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					03/31/22 13:15	04/05/22 18:10	1
Y Carrier	79.6		40 - 110					03/31/22 13:15	04/05/22 18:10	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.86		0.434	0.453	5.00	0.328	pCi/L		04/06/22 12:57	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T05S

Lab Sample ID: 500-213350-4

Date Collected: 03/10/22 10:07

Matrix: Water

Date Received: 03/10/22 14:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.411		0.141	0.145	1.00	0.135	pCi/L	03/14/22 10:20	04/05/22 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		40 - 110					03/14/22 10:20	04/05/22 08:03	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.466		0.297	0.300	1.00	0.457	pCi/L	03/14/22 10:59	03/31/22 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		40 - 110					03/14/22 10:59	03/31/22 13:32	1
Y Carrier	84.9		40 - 110					03/14/22 10:59	03/31/22 13:32	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.877		0.329	0.333	5.00	0.457	pCi/L		04/27/22 16:40	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T02S

Lab Sample ID: 500-213350-5

Date Collected: 03/10/22 12:49

Matrix: Water

Date Received: 03/10/22 14:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.382		0.240	0.242	1.00	0.337	pCi/L	03/14/22 10:20	04/05/22 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					03/14/22 10:20	04/05/22 08:03	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.393	U	0.473	0.475	1.00	0.782	pCi/L	03/14/22 10:59	03/31/22 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					03/14/22 10:59	03/31/22 13:32	1
Y Carrier	84.1		40 - 110					03/14/22 10:59	03/31/22 13:32	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.775	U	0.530	0.533	5.00	0.782	pCi/L		04/27/22 16:40	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G31S

Lab Sample ID: 500-213350-6

Date Collected: 03/11/22 09:44

Matrix: Water

Date Received: 03/11/22 15:27

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.20		0.317	0.374	1.00	0.143	pCi/L	04/05/22 12:07	04/27/22 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.8		40 - 110					04/05/22 12:07	04/27/22 11:58	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.56		0.556	0.574	1.00	0.766	pCi/L	04/05/22 13:32	04/14/22 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.8		40 - 110					04/05/22 13:32	04/14/22 12:24	1
Y Carrier	80.0		40 - 110					04/05/22 13:32	04/14/22 12:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.76		0.640	0.685	5.00	0.766	pCi/L		04/27/22 16:36	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G46S

Lab Sample ID: 500-213350-7

Date Collected: 03/11/22 10:56

Matrix: Water

Date Received: 03/11/22 15:27

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.30		0.227	0.255	1.00	0.117	pCi/L	04/05/22 12:07	04/27/22 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					04/05/22 12:07	04/27/22 11:59	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.35		0.630	0.666	1.00	0.784	pCi/L	04/05/22 13:32	04/14/22 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					04/05/22 13:32	04/14/22 12:33	1
Y Carrier	59.1		40 - 110					04/05/22 13:32	04/14/22 12:33	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.65		0.670	0.713	5.00	0.784	pCi/L		04/27/22 16:36	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: R08S

Lab Sample ID: 500-213350-8

Date Collected: 03/11/22 12:35

Matrix: Water

Date Received: 03/11/22 15:27

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.787		0.188	0.201	1.00	0.157	pCi/L	04/05/22 12:07	04/27/22 13:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					04/05/22 12:07	04/27/22 13:05	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.55		0.481	0.502	1.00	0.629	pCi/L	04/05/22 13:32	04/14/22 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					04/05/22 13:32	04/14/22 12:34	1
Y Carrier	75.1		40 - 110					04/05/22 13:32	04/14/22 12:34	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.33		0.516	0.541	5.00	0.629	pCi/L		04/27/22 16:36	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G33S

Lab Sample ID: 500-213350-9

Date Collected: 03/11/22 13:32

Matrix: Water

Date Received: 03/11/22 15:27

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.740		0.258	0.267	1.00	0.272	pCi/L	04/05/22 12:07	04/27/22 13:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.6		40 - 110					04/05/22 12:07	04/27/22 13:05	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.60	G	0.818	0.852	1.00	1.07	pCi/L	04/05/22 13:32	04/14/22 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.6		40 - 110					04/05/22 13:32	04/14/22 12:34	1
Y Carrier	77.4		40 - 110					04/05/22 13:32	04/14/22 12:34	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.34		0.858	0.893	5.00	1.07	pCi/L		04/27/22 16:36	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T01S

Lab Sample ID: 500-213350-10

Date Collected: 03/14/22 09:52

Matrix: Water

Date Received: 03/14/22 14:56

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.45		0.610	0.684	1.00	0.354	pCi/L	03/17/22 12:30	04/08/22 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.2		40 - 110					03/17/22 12:30	04/08/22 10:35	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.661	U G	0.705	0.707	1.00	1.15	pCi/L	03/17/22 12:47	04/04/22 13:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.2		40 - 110					03/17/22 12:47	04/04/22 13:21	1
Y Carrier	84.1		40 - 110					03/17/22 12:47	04/04/22 13:21	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	4.11		0.932	0.984	5.00	1.15	pCi/L		04/08/22 18:02	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T08S

Lab Sample ID: 500-213350-11

Date Collected: 03/14/22 11:49

Matrix: Water

Date Received: 03/14/22 14:56

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.427		0.205	0.208	1.00	0.264	pCi/L	03/17/22 12:30	04/08/22 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					03/17/22 12:30	04/08/22 10:35	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0401	U	0.277	0.278	1.00	0.515	pCi/L	03/17/22 12:47	04/04/22 13:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					03/17/22 12:47	04/04/22 13:21	1
Y Carrier	85.6		40 - 110					03/17/22 12:47	04/04/22 13:21	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.387	U	0.345	0.347	5.00	0.515	pCi/L		04/08/22 18:02	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T03S

Lab Sample ID: 500-213350-12

Date Collected: 03/14/22 13:45

Matrix: Water

Date Received: 03/14/22 14:56

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.720		0.195	0.206	1.00	0.195	pCi/L	03/17/22 12:30	04/08/22 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110					03/17/22 12:30	04/08/22 10:35	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.718		0.278	0.286	1.00	0.381	pCi/L	03/17/22 12:47	04/04/22 13:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110					03/17/22 12:47	04/04/22 13:21	1
Y Carrier	85.2		40 - 110					03/17/22 12:47	04/04/22 13:21	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.44		0.340	0.352	5.00	0.381	pCi/L		04/08/22 18:02	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G20S

Lab Sample ID: 500-213350-13

Date Collected: 03/15/22 09:30

Matrix: Water

Date Received: 03/15/22 14:52

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.39		0.242	0.273	1.00	0.139	pCi/L	03/17/22 12:30	04/08/22 10:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					03/17/22 12:30	04/08/22 10:36	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.955		0.289	0.302	1.00	0.358	pCi/L	03/17/22 12:47	04/04/22 13:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					03/17/22 12:47	04/04/22 13:21	1
Y Carrier	83.7		40 - 110					03/17/22 12:47	04/04/22 13:21	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.34		0.377	0.407	5.00	0.358	pCi/L		04/08/22 18:02	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G30S

Lab Sample ID: 500-213350-14

Date Collected: 03/15/22 11:43

Matrix: GW

Date Received: 03/15/22 14:52

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.759		0.225	0.235	1.00	0.198	pCi/L	03/17/22 12:30	04/08/22 10:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					03/17/22 12:30	04/08/22 10:36	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.586		0.323	0.327	1.00	0.470	pCi/L	03/17/22 12:47	04/04/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					03/17/22 12:47	04/04/22 13:22	1
Y Carrier	82.6		40 - 110					03/17/22 12:47	04/04/22 13:22	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.34		0.394	0.403	5.00	0.470	pCi/L		04/08/22 18:02	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G44S

Lab Sample ID: 500-213350-15

Date Collected: 03/15/22 13:49

Matrix: Water

Date Received: 03/15/22 14:52

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.679		0.170	0.181	1.00	0.110	pCi/L	03/17/22 12:30	04/08/22 10:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/17/22 12:30	04/08/22 10:36	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.301	U	0.273	0.275	1.00	0.440	pCi/L	03/17/22 12:47	04/04/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/17/22 12:47	04/04/22 13:22	1
Y Carrier	84.1		40 - 110					03/17/22 12:47	04/04/22 13:22	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.980		0.322	0.329	5.00	0.440	pCi/L		04/08/22 18:02	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G48S

Lab Sample ID: 500-213350-16

Date Collected: 03/16/22 09:28

Matrix: Water

Date Received: 03/16/22 14:55

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.790		0.172	0.186	1.00	0.143	pCi/L	03/18/22 10:28	04/11/22 17:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					03/18/22 10:28	04/11/22 17:25	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.77		0.448	0.477	1.00	0.549	pCi/L	03/18/22 13:09	03/28/22 19:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					03/18/22 13:09	03/28/22 19:58	1
Y Carrier	77.8		40 - 110					03/18/22 13:09	03/28/22 19:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.56		0.480	0.512	5.00	0.549	pCi/L		04/12/22 17:16	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G47S

Lab Sample ID: 500-213350-17

Date Collected: 03/16/22 10:55

Matrix: Water

Date Received: 03/16/22 14:55

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.933		0.220	0.236	1.00	0.167	pCi/L	03/18/22 10:28	04/12/22 11:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					03/18/22 10:28	04/12/22 11:28	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.18		0.364	0.380	1.00	0.473	pCi/L	03/18/22 13:09	03/28/22 19:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					03/18/22 13:09	03/28/22 19:58	1
Y Carrier	81.5		40 - 110					03/18/22 13:09	03/28/22 19:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.12		0.425	0.447	5.00	0.473	pCi/L		04/12/22 17:16	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: R32S

Lab Sample ID: 500-213350-18

Date Collected: 03/16/22 12:44

Matrix: Water

Date Received: 03/16/22 14:55

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.51		0.250	0.284	1.00	0.143	pCi/L	03/18/22 10:28	04/11/22 17:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					03/18/22 10:28	04/11/22 17:25	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.09		0.444	0.456	1.00	0.619	pCi/L	03/18/22 13:09	03/28/22 19:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					03/18/22 13:09	03/28/22 19:58	1
Y Carrier	79.6		40 - 110					03/18/22 13:09	03/28/22 19:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.61		0.510	0.537	5.00	0.619	pCi/L		04/12/22 17:16	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G45S

Lab Sample ID: 500-213350-19

Date Collected: 03/16/22 13:31

Matrix: Water

Date Received: 03/16/22 14:55

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.23		0.199	0.227	1.00	0.131	pCi/L	03/18/22 10:28	04/11/22 17:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					03/18/22 10:28	04/11/22 17:25	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.69		0.379	0.410	1.00	0.428	pCi/L	03/18/22 13:09	03/28/22 19:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					03/18/22 13:09	03/28/22 19:58	1
Y Carrier	80.4		40 - 110					03/18/22 13:09	03/28/22 19:58	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.92		0.428	0.469	5.00	0.428	pCi/L		04/12/22 17:16	1

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Rad

Prep Batch: 554557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	PrecSep-21	
500-213350-2	T09S DUP	Total/NA	Water	PrecSep-21	
500-213350-3	T06S	Total/NA	Water	PrecSep-21	
MB 160-554557/13-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-554557/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-213350-2 DU	T09S DUP	Total/NA	Water	PrecSep-21	

Prep Batch: 555104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-4	T05S	Total/NA	Water	PrecSep-21	
500-213350-5	T02S	Total/NA	Water	PrecSep-21	
MB 160-555104/18-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-555104/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-213350-4 DU	T05S	Total/NA	Water	PrecSep-21	

Prep Batch: 555108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-4	T05S	Total/NA	Water	PrecSep_0	
500-213350-5	T02S	Total/NA	Water	PrecSep_0	
MB 160-555108/18-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-555108/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-213350-4 DU	T05S	Total/NA	Water	PrecSep_0	

Prep Batch: 555713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-10	T01S	Total/NA	Water	PrecSep-21	
500-213350-11	T08S	Total/NA	Water	PrecSep-21	
500-213350-12	T03S	Total/NA	Water	PrecSep-21	
500-213350-13	G20S	Total/NA	Water	PrecSep-21	
500-213350-14	G30S	Total/NA	GW	PrecSep-21	
500-213350-15	G44S	Total/NA	Water	PrecSep-21	
MB 160-555713/17-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-555713/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-213350-12 DU	T03S	Total/NA	Water	PrecSep-21	

Prep Batch: 555716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-10	T01S	Total/NA	Water	PrecSep_0	
500-213350-11	T08S	Total/NA	Water	PrecSep_0	
500-213350-12	T03S	Total/NA	Water	PrecSep_0	
500-213350-13	G20S	Total/NA	Water	PrecSep_0	
500-213350-14	G30S	Total/NA	GW	PrecSep_0	
500-213350-15	G44S	Total/NA	Water	PrecSep_0	
MB 160-555716/17-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-555716/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-213350-12 DU	T03S	Total/NA	Water	PrecSep_0	

Prep Batch: 555908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-16	G48S	Total/NA	Water	PrecSep-21	
500-213350-17	G47S	Total/NA	Water	PrecSep-21	

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QC Association Summary

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Rad (Continued)

Prep Batch: 555908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-18	R32S	Total/NA	Water	PrecSep-21	
500-213350-19	G45S	Total/NA	Water	PrecSep-21	
MB 160-555908/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-555908/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-213350-16 DU	G48S	Total/NA	Water	PrecSep-21	

Prep Batch: 555926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-16	G48S	Total/NA	Water	PrecSep_0	
500-213350-17	G47S	Total/NA	Water	PrecSep_0	
500-213350-18	R32S	Total/NA	Water	PrecSep_0	
500-213350-19	G45S	Total/NA	Water	PrecSep_0	
MB 160-555926/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-555926/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-213350-16 DU	G48S	Total/NA	Water	PrecSep_0	

Prep Batch: 558078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	PrecSep_0	
500-213350-2	T09S DUP	Total/NA	Water	PrecSep_0	
500-213350-3	T06S	Total/NA	Water	PrecSep_0	
MB 160-558078/13-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-558078/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-213350-3 DU	T06S	Total/NA	Water	PrecSep_0	

Prep Batch: 558553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-6	G31S	Total/NA	Water	PrecSep-21	
500-213350-7	G46S	Total/NA	Water	PrecSep-21	
500-213350-8	R08S	Total/NA	Water	PrecSep-21	
500-213350-9	G33S	Total/NA	Water	PrecSep-21	
MB 160-558553/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-558553/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-213350-7 DU	G46S	Total/NA	Water	PrecSep-21	

Prep Batch: 558561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-6	G31S	Total/NA	Water	PrecSep_0	
500-213350-7	G46S	Total/NA	Water	PrecSep_0	
500-213350-8	R08S	Total/NA	Water	PrecSep_0	
500-213350-9	G33S	Total/NA	Water	PrecSep_0	
MB 160-558561/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-558561/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-213350-7 DU	G46S	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-554557/13-A
Matrix: Water
Analysis Batch: 558254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554557

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03075	U	0.134	0.134	1.00	0.251	pCi/L	03/10/22 13:28	04/01/22 07:50	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	103		40 - 110					03/10/22 13:28	04/01/22 07:50	1

Lab Sample ID: LCS 160-554557/1-A
Matrix: Water
Analysis Batch: 558254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554557

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	8.535		1.02	1.00	0.217	pCi/L	75	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	105		40 - 110					03/10/22 13:28	04/01/22 07:50

Lab Sample ID: 500-213350-2 DU
Matrix: Water
Analysis Batch: 558254

Client Sample ID: T09S DUP
Prep Type: Total/NA
Prep Batch: 554557

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	1.78		2.052		0.430	1.00	0.266	pCi/L	0.33	1
Carrier	DU %Yield	DU Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	84.0		40 - 110					03/10/22 13:28	04/01/22 07:50	1

Lab Sample ID: MB 160-555104/18-A
Matrix: Water
Analysis Batch: 558547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555104

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04039	U	0.0736	0.0737	1.00	0.131	pCi/L	03/14/22 10:20	04/05/22 10:01	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	91.4		40 - 110					03/14/22 10:20	04/05/22 10:01	1

Lab Sample ID: LCS 160-555104/1-A
Matrix: Water
Analysis Batch: 558547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555104

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.293		1.03	1.00	0.178	pCi/L	82	75 - 125

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QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-555104/1-A
Matrix: Water
Analysis Batch: 558547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555104

		LCS	LCS
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.6		40 - 110

Lab Sample ID: 500-213350-4 DU
Matrix: Water
Analysis Batch: 558547

Client Sample ID: T05S
Prep Type: Total/NA
Prep Batch: 555104

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-226	0.411		0.4610		0.153	1.00	0.120	pCi/L	0.17	1

		DU	DU
Carrier	%Yield	Qualifier	Limits
Ba Carrier	82.3		40 - 110

Lab Sample ID: MB 160-555713/17-A
Matrix: Water
Analysis Batch: 559296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555713

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								Prepared	Analyzed	Prepared	Analyzed	
Radium-226	0.0000	U	0.101	0.101	1.00	0.196	pCi/L	03/17/22 12:30	04/08/22 10:30			1

		MB	MB
Carrier	%Yield	Qualifier	Limits
Ba Carrier	94.6		40 - 110

		Prepared	Analyzed	Dil Fac
		03/17/22 12:30	04/08/22 10:30	1

Lab Sample ID: LCS 160-555713/1-A
Matrix: Water
Analysis Batch: 559300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555713

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									%Rec	Limits
Radium-226	11.3	9.805		1.08	1.00	0.136	pCi/L	86	75 - 125	

		LCS	LCS
Carrier	%Yield	Qualifier	Limits
Ba Carrier	96.1		40 - 110

Lab Sample ID: 500-213350-12 DU
Matrix: Water
Analysis Batch: 559300

Client Sample ID: T03S
Prep Type: Total/NA
Prep Batch: 555713

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-226	0.720		0.7314		0.207	1.00	0.160	pCi/L	0.03	1

		DU	DU
Carrier	%Yield	Qualifier	Limits
Ba Carrier	79.8		40 - 110

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-555908/23-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555908

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.07167		0.0532	0.0536	1.00	0.0713	pCi/L	03/18/22 10:28	04/11/22 20:06	1
Carrier	MB	MB	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	97.8									
								Prepared	Analyzed	Dil Fac
								03/18/22 10:28	04/11/22 20:06	1

Lab Sample ID: LCS 160-555908/1-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555908

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.736		1.01	1.00	0.0740	pCi/L	86	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	93.6								

Lab Sample ID: 500-213350-16 DU
Matrix: Water
Analysis Batch: 559791

Client Sample ID: G48S
Prep Type: Total/NA
Prep Batch: 555908

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.790		0.9762		0.194	1.00	0.0991	pCi/L	0.49	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	86.7									

Lab Sample ID: MB 160-558553/22-A
Matrix: Water
Analysis Batch: 562410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558553

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01612	U	0.0404	0.0404	1.00	0.0949	pCi/L	04/05/22 12:09	04/27/22 13:05	1
Carrier	MB	MB	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	95.6									
								Prepared	Analyzed	Dil Fac
								04/05/22 12:09	04/27/22 13:05	1

Lab Sample ID: LCS 160-558553/1-A
Matrix: Water
Analysis Batch: 562410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558553

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.25		1.06	1.00	0.110	pCi/L	90	75 - 125

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QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-558553/1-A
Matrix: Water
Analysis Batch: 562410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558553

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.8		40 - 110

Lab Sample ID: 500-213350-7 DU
Matrix: Water
Analysis Batch: 562246

Client Sample ID: G46S
Prep Type: Total/NA
Prep Batch: 558553

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	1.30		1.423		0.267	1.00	0.118	pCi/L	0.23	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.3		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-555108/18-A
Matrix: Water
Analysis Batch: 558239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555108

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110	03/14/22 10:59	03/31/22 13:40	1
Y Carrier	85.2		40 - 110	03/14/22 10:59	03/31/22 13:40	1

Lab Sample ID: LCS 160-555108/1-A
Matrix: Water
Analysis Batch: 558069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555108

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-228	0.875	0.8747		0.315	1.00	0.411	pCi/L	100	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.6		40 - 110
Y Carrier	84.9		40 - 110

Lab Sample ID: 500-213350-4 DU
Matrix: Water
Analysis Batch: 558069

Client Sample ID: T05S
Prep Type: Total/NA
Prep Batch: 555108

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-228	0.466		0.08468	U	0.253	1.00	0.440	pCi/L	0.69	1

Euromins Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-213350-4 DU
Matrix: Water
Analysis Batch: 558069

Client Sample ID: T05S
Prep Type: Total/NA
Prep Batch: 555108

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	82.3		40 - 110
Y Carrier	83.0		40 - 110

Lab Sample ID: MB 160-555716/17-A
Matrix: Water
Analysis Batch: 558472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555716

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	0.1882	U	0.243	0.244	1.00	0.404	pCi/L	03/17/22 12:47	04/04/22 13:24		1	

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110	03/17/22 12:47	04/04/22 13:24	1
Y Carrier	86.7		40 - 110	03/17/22 12:47	04/04/22 13:24	1

Lab Sample ID: LCS 160-555716/1-A
Matrix: Water
Analysis Batch: 558517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555716

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	0.874	0.9072		0.301	1.00	0.377	pCi/L	104	75 - 125	

Carrier	%Yield	Qualifier	Limits
Ba Carrier	96.1		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: 500-213350-12 DU
Matrix: Water
Analysis Batch: 558517

Client Sample ID: T03S
Prep Type: Total/NA
Prep Batch: 555716

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.718		0.3397	U	0.314	1.00	0.504	pCi/L	0.63	1

Carrier	%Yield	Qualifier	Limits
Ba Carrier	79.8		40 - 110
Y Carrier	83.7		40 - 110

Lab Sample ID: MB 160-555926/23-A
Matrix: Water
Analysis Batch: 557411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555926

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	0.2216	U	0.208	0.209	1.00	0.334	pCi/L	03/18/22 13:09	03/28/22 19:53		1	

Eurofins Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-555926/23-A
Matrix: Water
Analysis Batch: 557411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555926

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	97.8		40 - 110	03/18/22 13:09	03/28/22 19:53	1
Y Carrier	82.2		40 - 110	03/18/22 13:09	03/28/22 19:53	1

Lab Sample ID: LCS 160-555926/1-A
Matrix: Water
Analysis Batch: 557411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555926

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	93.6		40 - 110
Y Carrier	78.9		40 - 110

Lab Sample ID: 500-213350-16 DU
Matrix: Water
Analysis Batch: 557411

Client Sample ID: G48S
Prep Type: Total/NA
Prep Batch: 555926

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit

Carrier	DU DU		Limits
	%Yield	Qualifier	
Ba Carrier	86.7		40 - 110
Y Carrier	80.7		40 - 110

Lab Sample ID: MB 160-558078/13-A
Matrix: Water
Analysis Batch: 558535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558078

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	98.3		40 - 110	03/31/22 13:15	04/05/22 18:10	1
Y Carrier	81.5		40 - 110	03/31/22 13:15	04/05/22 18:10	1

Lab Sample ID: LCS 160-558078/1-A
Matrix: Water
Analysis Batch: 558534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558078

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Euromins Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-558078/1-A
Matrix: Water
Analysis Batch: 558534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558078

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	100		40 - 110
Y Carrier	80.0		40 - 110

Lab Sample ID: 500-213350-3 DU
Matrix: Water
Analysis Batch: 558535

Client Sample ID: T06S
Prep Type: Total/NA
Prep Batch: 558078

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-228	0.570		0.4167		0.229	1.00	0.340	pCi/L	0.33	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.5		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: MB 160-558561/22-A
Matrix: Water
Analysis Batch: 560269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558561

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										1
Radium-228	0.5523		0.270	0.275	1.00	0.395	pCi/L	04/05/22 13:32	04/14/22 12:34	1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	95.6		40 - 110	04/05/22 13:32	04/14/22 12:34	1
Y Carrier	84.1		40 - 110	04/05/22 13:32	04/14/22 12:34	1

Lab Sample ID: LCS 160-558561/1-A
Matrix: Water
Analysis Batch: 560439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558561

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-228	8.71	9.456		1.11	1.00	0.372	pCi/L	109	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.8		40 - 110
Y Carrier	79.6		40 - 110

Lab Sample ID: 500-213350-7 DU
Matrix: Water
Analysis Batch: 560269

Client Sample ID: G46S
Prep Type: Total/NA
Prep Batch: 558561

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER
									Limit
Radium-228	2.35		2.066		0.576	1.00	0.687	pCi/L	0.23

Euofins Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-213350-7 DU
Matrix: Water
Analysis Batch: 560269

Client Sample ID: G46S
Prep Type: Total/NA
Prep Batch: 558561

Carrier	DU DU		Limits
	%Yield	Qualifier	
Ba Carrier	93.3		40 - 110
Y Carrier	72.5		40 - 110

- 1
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- 7
- 8
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- 10
- 11
- 12
- 13

Chain of Custody Record

538322




Environment Testing
TestAmer ca

TAL-8210

Address: _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact		Date		COC No			
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs			
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 206/208</i> <i>Metals 14 elements + Hg</i> <i>TDS, F1, Cl, SO4</i>		 500-213350 COC		Sampler			
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only.		Walk-in Client	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling		Job / SDG No	
Project Name <i>Joliet #9 (Quarry) CER</i>								500-213350			
Site <i>1Q22 GW</i>											
P O #								Sample Specific Notes			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.					
<i>1</i> <i>2</i> <i>3</i> T09S		<i>03/08/22</i>	<i>0953</i>		<i>W</i>	<i>5</i>					
T09S DUP		<i>03/08/22</i>	<i>0953</i>		<i>W</i>	<i>5</i>					
T06S		<i>03/08/22</i>	<i>1255</i>		<i>W</i>	<i>5</i>					
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other											
Possible Hazard Identification. Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months						
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>2.8</i> Corr'd _____		Therm ID No					
Relinquished by <i>[Signature]</i>		Company <i>ETA</i>		Date/Time <i>03/08/22 1450</i>		Received by		Company			
Relinquished by		Company		Date/Time		Received by		Company			
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>		Company <i>ETA</i>			
								Date/Time <i>3/8/22 1450</i>			

Chain of Custody Record

538324




Environment Testing
TestAmerica

Address: _____

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Project Manager:			Site Contact:			Date:		COC No:																																																													
Company Name: <i>Midwest Generation FME LLC</i>		Email:			Lab Contact:			Carrier:		_____ of _____ COCs																																																													
Address:		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day			Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals Hexavalent + Hg</i> <i>TDS, FI, CI, SO4</i>			 500-213350 COC		Sampler: For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____																																																													
City/State/Zip: <i>Joliet, IL</i>										Job / SDG No.: <i>500-213350</i>																																																													
Phone:		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=Grab)</th> <th>Matrix</th> <th># of Cont.</th> <th>Filtered Sample (Y/N)</th> <th>Perform MS / MSD (Y/N)</th> <th colspan="4">Sample Specific Notes:</th> </tr> </thead> <tbody> <tr> <td><i>G31S</i></td> <td><i>03/11/22</i></td> <td><i>0944</i></td> <td></td> <td><i>W</i></td> <td><i>5</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td></td> </tr> <tr> <td><i>G46S</i></td> <td><i>03/11/22</i></td> <td><i>1056</i></td> <td></td> <td><i>W</i></td> <td><i>5</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td></td> </tr> <tr> <td><i>RO8S</i></td> <td><i>03/11/22</i></td> <td><i>1235</i></td> <td></td> <td><i>W</i></td> <td><i>5</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td></td> </tr> <tr> <td><i>G33S</i></td> <td><i>03/11/22</i></td> <td><i>1332</i></td> <td></td> <td><i>W</i></td> <td><i>5</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td><i>/</i></td> <td></td> </tr> </tbody> </table>										Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:				<i>G31S</i>	<i>03/11/22</i>	<i>0944</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>		<i>G46S</i>	<i>03/11/22</i>	<i>1056</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>		<i>RO8S</i>	<i>03/11/22</i>	<i>1235</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>		<i>G33S</i>	<i>03/11/22</i>	<i>1332</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	
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Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:			Cooler Temp. (°C): Obs'd: <i>21</i> Corr'd: _____			Therm ID No.:																																																															
Relinquished by: <i>[Signature]</i>		Company: <i>ETA</i>	Date/Time: <i>03/11/22 1527</i>	Received by:		Company:	Date/Time:																																																																
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Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving		Phone:	Mockler, Diana J		500-157944.1
Company: TesAmerica Laboratories, Inc.		E-Mail:	Diana.Mockler@Eurofins.com	State of Origin:	Page 1 of 1
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Illinois		Job #:	500-213350-1
City: Earth City	Due Date Requested: 3/28/2022	Analysis Requested			
State, Zip: MO, 63045	TAT Requested (days):	Total Number of Containers			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	903.0/PreSep 21 Standard Target List			
Email:	WO #:	904.0/PreSep 0 Standard Target List			
Project Name: Joliet #9 (Quarry) CCR	Project #: 50011504	Perform MS/MSD (Yes or No)			
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:	Field Filtered Sample (Yes or No)			
Sample Identification - Client ID (Lab ID)		Sample Type (C=Comp, G=grab)		Preservation Code:	
T09S (500-213350-1)	Sample Date	Sample Time	Sample Type	Matrix	Preservation Code
T09S DUP (500-213350-2)	3/8/22	09:53 Central	Water	(Water, Swab, On-wash/dil, BI-Tissue, A-Air)	Water
T06S (500-213350-3)	3/8/22	09:53 Central	Water		Water
	3/8/22	12:55 Central	Water		Water
Special Instructions/Note:		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.			
		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.			
		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.			

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification

Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
Empty Kit Relinquished by: _____ Date: _____
Relinquished by: *[Signature]* Date/Time: 3/27/22 15:10
Relinquished by: _____ Date/Time: _____
Relinquished by: _____ Date/Time: _____
Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____

Received by: _____ Date/Time: _____
 Received by: *Jenna Worthington* Date/Time: MAR 09 2022 1008
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mockler, Diana J		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-158090.1	
Client Contact: Shipping/Receiving		Phone: Diana.Mockler@Eurofinset.com		E-Mail: Diana.Mockler@Eurofinset.com		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, Earth City, MO, 63045		Accreditations Required (See note): NELAP - Illinois		Job #: 500-213350-1	
Due Date Requested: 3/29/2022		TAT Requested (days):		Analysis Requested:		Preservation Codes:	
PO #:		WO #:		Field Filtered Sample (Yes or No)		A - HCL B - Hexane C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project #: 50011504		SSOW#:		Perform MS/MSD (Yes or No)		M - None N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Matrix (W=water, S=solid, O=waste/oil, B=bi-tissue, A=air)		90.0/PreSep_21 Standard Target List		Total Number of Containers	
Sample Identification - Client ID (Lab ID)		Sample Time		90.0/PreSep_0 Standard Target List		Special Instructions/Note:	
G31S (500-213350-6)	09:44 Central	Water	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G46S (500-213350-7)	10:56 Central	Water	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
R08S (500-213350-8)	12:35 Central	Water	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G33S (500-213350-9)	13:32 Central	Water	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: *Alvin Smith* Date: 3/11/22 Time: 1540
 Relinquished by: FEDEX Company: FEDEX
 Relinquished by: *Victoria Johnson* Date: MAR 14 2022 Time: 0830 Company: EVA STL
 Relinquished by: *Murphy R. Johnson* Date: _____ Time: _____ Company: _____

Custody Seals Intact: _____ (Custody Seal No.: _____)
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:





Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		COC No: 500-158222.1	
Shipping/Receiving		E-Mail: Diana.Mockler@Eurofinset.com		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-213350-1	
Address: 13715 Rider Trail North,		Due Date Requested: 3/29/2022		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - MeOH S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
City: Earth City		TAT Requested (days):		Analysis Requested	
State, Zip: MO, 63045		PO #:		Total Number of Containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume:	
Email:		Project #: 50011504		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume:	
Project Name: Joliet #9 (Quarry) CCR 1Q22		SSOW#:		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume:	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Sample Date		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Time		3	
G20S (500-213350-13)	09:30 Central	3/15/22	Water	X	904.0/PreSep_0 Standard Target List
G30S (500-213350-14)	11:43 Central	3/15/22	Water	X	903.0/PreSep_21 Standard Target List
G44S (500-213350-15)	13:49 Central	3/15/22	Water	X	R226R4228 GFPC
Matrix (W=water, S=solid, O=onion, BT=flask, A=air)		Sample Type (C=comp, G=grab)		Field Filtered Sample (Yes or No)	
Preservation Code:		Perform MS/MSD (Yes or No)		Total Number of Containers	
3		3		3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: *[Signature]* Date/Time: 3/15/22 1520 Company: *[Signature]*

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Method of Shipment: _____

Received by: _____ Date/Time: _____ Company: _____

Received by: *Sina Wallyn* Date/Time: 3-16-22 1355 Company: *ETASD*

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-2

Login Number: 213350

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,1.1,1.1,1.4,2.3,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-2

Login Number: 213350

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/09/22 11:12 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-2

Login Number: 213350

List Number: 3

Creator: Johnson, Autumn R

List Source: Eurofins St. Louis

List Creation: 03/11/22 12:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-2

Login Number: 213350

List Number: 4

Creator: Johnson, Autumn R

List Source: Eurofins St. Louis

List Creation: 03/14/22 11:18 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-2

Login Number: 213350

List Number: 5

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/15/22 11:06 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-2

Login Number: 213350

List Number: 6

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/16/22 02:45 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-2

Login Number: 213350

List Number: 7

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/17/22 11:09 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T09S

Date Collected: 03/08/22 09:53

Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			554557	03/10/22 13:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	558254	04/01/22 07:49	CLP	TAL SL
Total/NA	Prep	PrecSep_0			558078	03/31/22 13:15	LPS	TAL SL
Total/NA	Analysis	904.0		1	558535	04/05/22 18:10	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	558889	04/06/22 12:57	SCB	TAL SL

Client Sample ID: T09S DUP

Date Collected: 03/08/22 09:53

Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			554557	03/10/22 13:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	558254	04/01/22 07:49	CLP	TAL SL
Total/NA	Prep	PrecSep_0			558078	03/31/22 13:15	LPS	TAL SL
Total/NA	Analysis	904.0		1	558535	04/05/22 18:10	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	558889	04/06/22 12:57	SCB	TAL SL

Client Sample ID: T06S

Date Collected: 03/08/22 12:55

Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			554557	03/10/22 13:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	558254	04/01/22 07:50	CLP	TAL SL
Total/NA	Prep	PrecSep_0			558078	03/31/22 13:15	LPS	TAL SL
Total/NA	Analysis	904.0		1	558535	04/05/22 18:10	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	558889	04/06/22 12:57	SCB	TAL SL

Client Sample ID: T05S

Date Collected: 03/10/22 10:07

Date Received: 03/10/22 14:50

Lab Sample ID: 500-213350-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	903.0		1	558547	04/05/22 08:03	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	558069	03/31/22 13:32	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562430	04/27/22 16:40	EMH	TAL SL

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T02S

Date Collected: 03/10/22 12:49

Date Received: 03/10/22 14:50

Lab Sample ID: 500-213350-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	903.0		1	558547	04/05/22 08:03	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	558069	03/31/22 13:32	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562430	04/27/22 16:40	EMH	TAL SL

Client Sample ID: G31S

Date Collected: 03/11/22 09:44

Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			558553	04/05/22 12:07	HRT	TAL SL
Total/NA	Analysis	903.0		1	562246	04/27/22 11:58	FLC	TAL SL
Total/NA	Prep	PrecSep_0			558561	04/05/22 13:32	HRT	TAL SL
Total/NA	Analysis	904.0		1	560439	04/14/22 12:24	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562428	04/27/22 16:36	EMH	TAL SL

Client Sample ID: G46S

Date Collected: 03/11/22 10:56

Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			558553	04/05/22 12:07	HRT	TAL SL
Total/NA	Analysis	903.0		1	562246	04/27/22 11:59	FLC	TAL SL
Total/NA	Prep	PrecSep_0			558561	04/05/22 13:32	HRT	TAL SL
Total/NA	Analysis	904.0		1	560269	04/14/22 12:33	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562428	04/27/22 16:36	EMH	TAL SL

Client Sample ID: R08S

Date Collected: 03/11/22 12:35

Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			558553	04/05/22 12:07	HRT	TAL SL
Total/NA	Analysis	903.0		1	562410	04/27/22 13:05	FLC	TAL SL
Total/NA	Prep	PrecSep_0			558561	04/05/22 13:32	HRT	TAL SL
Total/NA	Analysis	904.0		1	560269	04/14/22 12:34	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562428	04/27/22 16:36	EMH	TAL SL

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G33S

Date Collected: 03/11/22 13:32

Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			558553	04/05/22 12:07	HRT	TAL SL
Total/NA	Analysis	903.0		1	562410	04/27/22 13:05	FLC	TAL SL
Total/NA	Prep	PrecSep_0			558561	04/05/22 13:32	HRT	TAL SL
Total/NA	Analysis	904.0		1	560269	04/14/22 12:34	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562428	04/27/22 16:36	EMH	TAL SL

Client Sample ID: T01S

Date Collected: 03/14/22 09:52

Date Received: 03/14/22 14:56

Lab Sample ID: 500-213350-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:35	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Client Sample ID: T08S

Date Collected: 03/14/22 11:49

Date Received: 03/14/22 14:56

Lab Sample ID: 500-213350-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:35	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Client Sample ID: T03S

Date Collected: 03/14/22 13:45

Date Received: 03/14/22 14:56

Lab Sample ID: 500-213350-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:35	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G20S

Date Collected: 03/15/22 09:30

Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:36	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Client Sample ID: G30S

Date Collected: 03/15/22 11:43

Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-14

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:36	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:22	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Client Sample ID: G44S

Date Collected: 03/15/22 13:49

Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:36	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:22	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Client Sample ID: G48S

Date Collected: 03/16/22 09:28

Date Received: 03/16/22 14:55

Lab Sample ID: 500-213350-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555908	03/18/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	559791	04/11/22 17:25	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555926	03/18/22 13:09	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 19:58	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	560019	04/12/22 17:16	EMH	TAL SL

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G47S

Lab Sample ID: 500-213350-17

Date Collected: 03/16/22 10:55

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555908	03/18/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	560015	04/12/22 11:28	CLP	TAL SL
Total/NA	Prep	PrecSep_0			555926	03/18/22 13:09	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 19:58	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	560019	04/12/22 17:16	EMH	TAL SL

Client Sample ID: R32S

Lab Sample ID: 500-213350-18

Date Collected: 03/16/22 12:44

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555908	03/18/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	559791	04/11/22 17:25	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555926	03/18/22 13:09	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 19:58	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	560019	04/12/22 17:16	EMH	TAL SL

Client Sample ID: G45S

Lab Sample ID: 500-213350-19

Date Collected: 03/16/22 13:31

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555908	03/18/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	559791	04/11/22 17:25	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555926	03/18/22 13:09	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 19:58	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	560019	04/12/22 17:16	EMH	TAL SL

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: GW

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
500-213350-14	G30S	90.1

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
500-213350-1	T09S	76.4
500-213350-2	T09S DUP	83.0
500-213350-2 DU	T09S DUP	84.0
500-213350-3	T06S	56.7
500-213350-4	T05S	88.7
500-213350-4 DU	T05S	82.3
500-213350-5	T02S	92.4
500-213350-6	G31S	73.8
500-213350-7	G46S	89.9
500-213350-7 DU	G46S	93.3
500-213350-8	R08S	89.4
500-213350-9	G33S	75.6
500-213350-10	T01S	71.2
500-213350-11	T08S	88.9
500-213350-12	T03S	93.6
500-213350-12 DU	T03S	79.8
500-213350-13	G20S	92.4
500-213350-15	G44S	92.9
500-213350-16	G48S	76.6
500-213350-16 DU	G48S	86.7
500-213350-17	G47S	81.8
500-213350-18	R32S	82.5
500-213350-19	G45S	85.2
LCS 160-554557/1-A	Lab Control Sample	105
LCS 160-555104/1-A	Lab Control Sample	91.6
LCS 160-555713/1-A	Lab Control Sample	96.1
LCS 160-555908/1-A	Lab Control Sample	93.6
LCS 160-558553/1-A	Lab Control Sample	98.8
MB 160-554557/13-A	Method Blank	103
MB 160-555104/18-A	Method Blank	91.4
MB 160-555713/17-A	Method Blank	94.6
MB 160-555908/23-A	Method Blank	97.8
MB 160-558553/22-A	Method Blank	95.6

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
 Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Method: 904.0 - Radium-228 (GFPC)

Matrix: GW

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
500-213350-14	G30S	90.1	82.6

Tracer/Carrier Legend
 Ba = Ba Carrier
 Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
500-213350-1	T09S	88.6	79.3
500-213350-2	T09S DUP	94.8	80.0
500-213350-3	T06S	95.8	79.6
500-213350-3 DU	T06S	98.5	80.4
500-213350-4	T05S	88.7	84.9
500-213350-4 DU	T05S	82.3	83.0
500-213350-5	T02S	92.4	84.1
500-213350-6	G31S	73.8	80.0
500-213350-7	G46S	89.9	59.1
500-213350-7 DU	G46S	93.3	72.5
500-213350-8	R08S	89.4	75.1
500-213350-9	G33S	75.6	77.4
500-213350-10	T01S	71.2	84.1
500-213350-11	T08S	88.9	85.6
500-213350-12	T03S	93.6	85.2
500-213350-12 DU	T03S	79.8	83.7
500-213350-13	G20S	92.4	83.7
500-213350-15	G44S	92.9	84.1
500-213350-16	G48S	76.6	77.8
500-213350-16 DU	G48S	86.7	80.7
500-213350-17	G47S	81.8	81.5
500-213350-18	R32S	82.5	79.6
500-213350-19	G45S	85.2	80.4
LCS 160-555108/1-A	Lab Control Sample	91.6	84.9
LCS 160-555716/1-A	Lab Control Sample	96.1	86.4
LCS 160-555926/1-A	Lab Control Sample	93.6	78.9
LCS 160-558078/1-A	Lab Control Sample	100	80.0
LCS 160-558561/1-A	Lab Control Sample	98.8	79.6
MB 160-555108/18-A	Method Blank	91.4	85.2
MB 160-555716/17-A	Method Blank	94.6	86.7
MB 160-555926/23-A	Method Blank	97.8	82.2
MB 160-558078/13-A	Method Blank	98.3	81.5
MB 160-558561/22-A	Method Blank	95.6	84.1

Tracer/Carrier Legend
 Ba = Ba Carrier
 Y = Y Carrier

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-213350-3

Client Project/Site: Joliet #9 (Quarry) CCR G45S Re-Run Mo

For:

Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Attn: John Niedzwiecki



Authorized for release by:
4/4/2022 12:13:35 PM

Diana Mockler, Project Manager I
(219)252-7570
Diana.Mockler@Eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR G45S Re-Run Mo

Job ID: 500-213350-3

Job ID: 500-213350-3

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-213350-3

Comments

No additional comments.

Receipt

The samples were received on 3/8/2022 2:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.1° C, 1.4° C, 2.1° C, 2.3° C, 2.8° C and 3.1° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Method Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR G45S Re-Run Mo

Job ID: 500-213350-3

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR G45S Re-Run Mo

Job ID: 500-213350-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-213350-19	G45S	Water	03/16/22 13:31	03/16/22 14:55

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Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR G45S Re-Run Mo

Job ID: 500-213350-3

Client Sample ID: G45S

Lab Sample ID: 500-213350-19

Date Collected: 03/16/22 13:31

Matrix: Water

Date Received: 03/16/22 14:55

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.0092		0.0050		mg/L		03/31/22 16:51	04/01/22 15:34	1

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- 11
- 12

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR G45S Re-Run Mo

Job ID: 500-213350-3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR G45S Re-Run Mo

Job ID: 500-213350-3

Metals

Prep Batch: 649736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-19	G45S	Total Recoverable	Water	3005A	
MB 500-649736/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-649736/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 650072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-19	G45S	Total Recoverable	Water	6020A	649736
MB 500-649736/1-A	Method Blank	Total Recoverable	Water	6020A	649736
LCS 500-649736/2-A	Lab Control Sample	Total Recoverable	Water	6020A	649736

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR G45S Re-Run Mo

Job ID: 500-213350-3

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-649736/1-A
Matrix: Water
Analysis Batch: 650072

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 649736

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.0050		0.0050		mg/L		03/31/22 16:51	04/01/22 15:27	1

Lab Sample ID: LCS 500-649736/2-A
Matrix: Water
Analysis Batch: 650072

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 649736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1.00	0.968		mg/L		97	80 - 120

Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins Environment Testing
 America

Client Information		Sampler: <i>Noe L, John H.</i>	Lab PM: Mockler Diana J	Carrier Tracking No(s)	COC No: 500-99504-43521 2																																			
Client Contact: DeAndre Cooley		Phone	E-Mail: Diana Mockler@Eurofinset.com	State of Origin	Page 2 of 2																																			
Company: Midwest Generation EME LLC			PWSID	Analysis Requested																																				
Address: 1800 Channahon Road		Due Date Requested	<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>903.0 - Standard Target List</td> <td>Ra226Ra228_GFFC - Local Method</td> <td>904.0 Standard Target List</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E</td> </tr> <tr> <td>City: Joliet</td> <td>TAT Requested (days)</td> <td colspan="5">Total Number of Containers</td> </tr> <tr> <td>State, Zip: IL 60436</td> <td>Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td colspan="5">Preservation Codes</td> </tr> <tr> <td>Phone: 779-279-2321(Tel)</td> <td>PO #: 4502085968</td> <td colspan="5"> A HCL M Hexane B - NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) </td> </tr> <tr> <td>Email: deandre.cooley@nrg.com</td> <td>WO #</td> <td colspan="5">Other:</td> </tr> </table>			Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra226Ra228_GFFC - Local Method	904.0 Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E	City: Joliet	TAT Requested (days)	Total Number of Containers					State, Zip: IL 60436	Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No	Preservation Codes					Phone: 779-279-2321(Tel)	PO #: 4502085968	A HCL M Hexane B - NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)					Email: deandre.cooley@nrg.com	WO #	Other:				
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List				Ra226Ra228_GFFC - Local Method	904.0 Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E																															
City: Joliet	TAT Requested (days)	Total Number of Containers																																						
State, Zip: IL 60436	Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No	Preservation Codes																																						
Phone: 779-279-2321(Tel)	PO #: 4502085968	A HCL M Hexane B - NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)																																						
Email: deandre.cooley@nrg.com	WO #	Other:																																						
Project Name: Joliet #9 CCR		Project #: 50011504	Job #: <i>570-213350</i>																																					
Site: Illinois		SSOW#	Preservation Codes																																					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Special Instructions/Note																																		
<i>16</i>	<i>G48S</i>	<i>03/16/22</i>	<i>0928</i>		Water																																			
<i>17</i>	<i>G47S</i>	<i>03/16/22</i>	<i>1055</i>		Water																																			
<i>18</i>	<i>R32S</i>	<i>03/16/22</i>	<i>1244</i>		Water																																			
<i>19</i>	<i>G45S</i>	<i>03/16/22</i>	<i>1331</i>		Water																																			
<i>20</i>	<i>T04S</i>	<i>03/16/22</i>	<i>1410</i>		Water	<i>Unable to sample due to property development/Excavation</i>																																		
					Water																																			
					Water																																			
					Water																																			
					Water																																			
Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																					
Deliverable Requested I II III IV Other (specify)			Special Instructions/QC Requirements																																					
Empty Kit Relinquished by		Date	Time	Method of Shipment:																																				
Relinquished by: <i>[Signature]</i>		Date/Time: <i>03/16/22 @ 1455</i>	Company: <i>ETA</i>	Received by: <i>[Signature]</i>		Date/Time: <i>3/16/22 1455</i>																																		
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:																																		
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:																																		
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>31</i>																																				



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-213350-3

Login Number: 213350

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,1.1,1.1,1.4,2.3,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR G45S Re-Run Mo

Job ID: 500-213350-3

Client Sample ID: G45S

Lab Sample ID: 500-213350-19

Date Collected: 03/16/22 13:31

Matrix: Water

Date Received: 03/16/22 14:55

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total Recoverable	Prep	3005A			649736	03/31/22 16:51	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	650072	04/01/22 15:34	FXG	TAL CHI

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-217628-1
Client Project/Site: Joliet #9 (Quarry) CCR 2Q22

For:
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Attn: John Niedzwiecki



Authorized for release by:
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Job ID: 500-217628-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-217628-1

Comments

No additional comments.

Receipt

The samples were received on 6/6/2022 3:26 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 1.0° C, 1.0° C, 1.3° C, 1.9° C, 2.9° C, 2.9° C, 3.0° C and 4.4° C.

Metals

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-661121. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The continuing calibration verification (CCV) at line 32 in AD batch 662557 was outside the control limits for Boron. This CCV bracketed the method blank (MB) and laboratory control sample (LCS) only. The MB and LCS were within the method control limits. The associated samples were bracketed by CCV that were within control limits. Therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-660353 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-660955 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-661302 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method SM 4500 SO4 E: Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 500-662335 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 Cl- E	Chloride, Total	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 SO4 E	Sulfate, Total	SM	TAL CHI
Field Sampling	Field Sampling	EPA	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-217628-1	G33S	Water	06/06/22 14:02	06/06/22 15:26
500-217628-2	T04S	Water	06/06/22 14:50	06/06/22 15:26
500-217628-3	G20S	Water	06/07/22 09:19	06/07/22 15:24
500-217628-4	R08S	Water	06/07/22 13:57	06/07/22 15:24
500-217628-5	R08S DUP	Water	06/07/22 13:57	06/07/22 15:24
500-217628-6	T09S	Water	06/08/22 09:08	06/08/22 11:11
500-217628-7	G44S	Water	06/09/22 09:47	06/09/22 15:13
500-217628-8	G46S	Water	06/09/22 10:46	06/09/22 15:13
500-217628-9	G48S	Water	06/09/22 12:38	06/09/22 15:13
500-217628-10	G47S	Water	06/09/22 13:58	06/09/22 15:13
500-217628-11	G30S	GW	06/10/22 09:28	06/10/22 14:38
500-217628-12	R32S	GW	06/10/22 11:19	06/10/22 14:38
500-217628-13	G45S	GW	06/10/22 12:46	06/10/22 14:38
500-217628-14	G31S	Water	06/10/22 13:37	06/10/22 14:38
500-217628-15	T06S	Water	06/13/22 09:35	06/13/22 15:00
500-217628-16	T05S	Water	06/13/22 11:23	06/13/22 15:00
500-217628-17	T03S	Water	06/13/22 13:50	06/13/22 15:00
500-217628-18	T01S	Water	06/14/22 09:42	06/14/22 14:57
500-217628-19	T02S	Water	06/14/22 12:39	06/14/22 14:57
500-217628-20	T08S	Water	06/21/22 09:41	06/21/22 11:23



Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G33S

Lab Sample ID: 500-217628-1

Date Collected: 06/06/22 14:02

Matrix: Water

Date Received: 06/06/22 15:26

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/10/22 08:48	06/13/22 20:07	1
Arsenic	0.0019		0.0010		mg/L		06/10/22 08:48	06/13/22 20:07	1
Barium	0.051		0.0025		mg/L		06/10/22 08:48	06/13/22 20:07	1
Beryllium	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:07	1
Boron	0.78		0.050		mg/L		06/10/22 08:48	06/14/22 18:06	1
Cadmium	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:07	1
Calcium	53		0.20		mg/L		06/10/22 08:48	06/13/22 20:07	1
Chromium	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 20:07	1
Cobalt	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:07	1
Lead	0.00077		0.00050		mg/L		06/10/22 08:48	06/13/22 20:07	1
Lithium	0.033		0.010		mg/L		06/10/22 08:48	06/13/22 20:07	1
Molybdenum	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 20:07	1
Selenium	<0.0025		0.0025		mg/L		06/10/22 08:48	06/13/22 20:07	1
Thallium	<0.0020		0.0020		mg/L		06/10/22 08:48	06/13/22 20:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/10/22 11:15	06/13/22 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	380		10		mg/L			06/07/22 03:18	1
Chloride	12		2.0		mg/L			06/08/22 10:47	1
Fluoride	0.62		0.10		mg/L			06/13/22 14:21	1
Sulfate	69	F1	10		mg/L			06/08/22 12:57	2

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	27.71				ft			06/06/22 14:02	1
Depth to Water (ft from MP)	29.44				ft			06/06/22 14:02	1
Elevation of well (ft from MP)	535.65				ft			06/06/22 14:02	1
Field pH	7.34				SU			06/06/22 14:02	1
Field Temperature	62.8				Degrees F			06/06/22 14:02	1
Ground Water Elevation	506.21				ft			06/06/22 14:02	1
Specific Conductance	570				umhos/cm			06/06/22 14:02	1
Well bottom elevation	452.72				ft			06/06/22 14:02	1
Field Turbidity	12.6				NTU			06/06/22 14:02	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: T04S

Lab Sample ID: 500-217628-2

Date Collected: 06/06/22 14:50

Matrix: Water

Date Received: 06/06/22 15:26

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	0				ft			06/06/22 14:50	1
Depth to Water (ft from MP)	0				ft			06/06/22 14:50	1
Elevation of well (ft from MP)	631.35				ft			06/06/22 14:50	1
Field pH	0				SU			06/06/22 14:50	1
Field Temperature	0				Degrees F			06/06/22 14:50	1
Ground Water Elevation	0				ft			06/06/22 14:50	1
Specific Conductance	0				umhos/cm			06/06/22 14:50	1
Well bottom elevation	458.07				ft			06/06/22 14:50	1
Field Turbidity	0				NTU			06/06/22 14:50	1



Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G20S

Lab Sample ID: 500-217628-3

Date Collected: 06/07/22 09:19

Matrix: Water

Date Received: 06/07/22 15:24

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/10/22 08:48	06/13/22 20:10	1
Arsenic	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:10	1
Barium	0.047		0.0025		mg/L		06/10/22 08:48	06/13/22 20:10	1
Beryllium	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:10	1
Boron	1.3		0.25		mg/L		06/10/22 08:48	06/14/22 18:10	5
Cadmium	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:10	1
Calcium	60		0.20		mg/L		06/10/22 08:48	06/13/22 20:10	1
Chromium	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 20:10	1
Cobalt	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:10	1
Lead	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:10	1
Lithium	0.040		0.010		mg/L		06/10/22 08:48	06/13/22 20:10	1
Molybdenum	0.016		0.0050		mg/L		06/10/22 08:48	06/13/22 20:10	1
Selenium	<0.0025		0.0025		mg/L		06/10/22 08:48	06/13/22 20:10	1
Thallium	<0.0020		0.0020		mg/L		06/10/22 08:48	06/13/22 20:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/10/22 11:15	06/13/22 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	400		10		mg/L			06/08/22 01:48	1
Chloride	15		2.0		mg/L			06/08/22 10:48	1
Fluoride	0.76		0.10		mg/L			06/13/22 14:24	1
Sulfate	71		10		mg/L			06/08/22 12:58	2

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	64.54				ft			06/07/22 09:19	1
Depth to Water (ft from MP)	67.32				ft			06/07/22 09:19	1
Elevation of well (ft from MP)	580.94				ft			06/07/22 09:19	1
Field pH	7.07				SU			06/07/22 09:19	1
Field Temperature	69.4				Degrees F			06/07/22 09:19	1
Ground Water Elevation	513.62				ft			06/07/22 09:19	1
Specific Conductance	608				umhos/cm			06/07/22 09:19	1
Well bottom elevation	442.28				ft			06/07/22 09:19	1
Field Turbidity	0.50				NTU			06/07/22 09:19	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: R08S

Lab Sample ID: 500-217628-4

Date Collected: 06/07/22 13:57

Matrix: Water

Date Received: 06/07/22 15:24

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/10/22 08:48	06/13/22 20:20	1
Arsenic	0.0014		0.0010		mg/L		06/10/22 08:48	06/13/22 20:20	1
Barium	0.042		0.0025		mg/L		06/10/22 08:48	06/13/22 20:20	1
Beryllium	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:20	1
Boron	8.7		1.0		mg/L		06/10/22 08:48	06/14/22 18:13	20
Cadmium	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:20	1
Calcium	150		0.20		mg/L		06/10/22 08:48	06/13/22 20:20	1
Chromium	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 20:20	1
Cobalt	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:20	1
Lead	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:20	1
Lithium	0.15		0.010		mg/L		06/10/22 08:48	06/13/22 20:20	1
Molybdenum	0.40		0.0050		mg/L		06/10/22 08:48	06/13/22 20:20	1
Selenium	0.012		0.0025		mg/L		06/10/22 08:48	06/13/22 20:20	1
Thallium	<0.0020		0.0020		mg/L		06/10/22 08:48	06/13/22 20:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/10/22 11:15	06/13/22 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	800		10		mg/L			06/08/22 01:55	1
Chloride	72		4.0		mg/L			06/08/22 10:48	2
Fluoride	0.14		0.10		mg/L			06/13/22 14:38	1
Sulfate	420		50		mg/L			06/08/22 12:58	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	65.65				ft			06/07/22 13:57	1
Depth to Water (ft from MP)	68.20				ft			06/07/22 13:57	1
Elevation of well (ft from MP)	578.51				ft			06/07/22 13:57	1
Field pH	7.94				SU			06/07/22 13:57	1
Field Temperature	58.3				Degrees F			06/07/22 13:57	1
Ground Water Elevation	510.31				ft			06/07/22 13:57	1
Specific Conductance	961				umhos/cm			06/07/22 13:57	1
Well bottom elevation	453.08				ft			06/07/22 13:57	1
Field Turbidity	0.23				NTU			06/07/22 13:57	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: R08S DUP

Lab Sample ID: 500-217628-5

Date Collected: 06/07/22 13:57

Matrix: Water

Date Received: 06/07/22 15:24

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/10/22 08:48	06/13/22 20:24	1
Arsenic	0.0014		0.0010		mg/L		06/10/22 08:48	06/13/22 20:24	1
Barium	0.042		0.0025		mg/L		06/10/22 08:48	06/13/22 20:24	1
Beryllium	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:24	1
Boron	8.8		1.0		mg/L		06/10/22 08:48	06/14/22 18:17	20
Cadmium	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:24	1
Calcium	140		0.20		mg/L		06/10/22 08:48	06/13/22 20:24	1
Chromium	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 20:24	1
Cobalt	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:24	1
Lead	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:24	1
Lithium	0.16		0.010		mg/L		06/10/22 08:48	06/13/22 20:24	1
Molybdenum	0.43		0.0050		mg/L		06/10/22 08:48	06/13/22 20:24	1
Selenium	0.012		0.0025		mg/L		06/10/22 08:48	06/13/22 20:24	1
Thallium	<0.0020		0.0020		mg/L		06/10/22 08:48	06/13/22 20:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/10/22 11:15	06/13/22 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	840		10		mg/L			06/08/22 02:00	1
Chloride	73		4.0		mg/L			06/08/22 11:01	2
Fluoride	0.14		0.10		mg/L			06/13/22 14:42	1
Sulfate	430		50		mg/L			06/08/22 14:26	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	65.65				ft			06/07/22 13:57	1
Depth to Water (ft from MP)	68.20				ft			06/07/22 13:57	1
Elevation of well (ft from MP)	578.51				ft			06/07/22 13:57	1
Field pH	7.94				SU			06/07/22 13:57	1
Field Temperature	58.3				Degrees F			06/07/22 13:57	1
Ground Water Elevation	510.31				ft			06/07/22 13:57	1
Specific Conductance	961				umhos/cm			06/07/22 13:57	1
Well bottom elevation	453.08				ft			06/07/22 13:57	1
Field Turbidity	0.23				NTU			06/07/22 13:57	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: T09S

Lab Sample ID: 500-217628-6

Date Collected: 06/08/22 09:08

Matrix: Water

Date Received: 06/08/22 11:11

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/10/22 08:48	06/13/22 20:27	1
Arsenic	0.0025		0.0010		mg/L		06/10/22 08:48	06/13/22 20:27	1
Barium	0.061		0.0025		mg/L		06/10/22 08:48	06/13/22 20:27	1
Beryllium	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:27	1
Boron	7.4		1.0		mg/L		06/10/22 08:48	06/14/22 18:20	20
Cadmium	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:27	1
Calcium	120		0.20		mg/L		06/10/22 08:48	06/13/22 20:27	1
Chromium	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 20:27	1
Cobalt	0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:27	1
Lead	0.00098		0.00050		mg/L		06/10/22 08:48	06/13/22 20:27	1
Lithium	0.079		0.010		mg/L		06/10/22 08:48	06/13/22 20:27	1
Molybdenum	0.86		0.0050		mg/L		06/10/22 08:48	06/13/22 20:27	1
Selenium	<0.0025		0.0025		mg/L		06/10/22 08:48	06/13/22 20:27	1
Thallium	<0.0020		0.0020		mg/L		06/10/22 08:48	06/13/22 20:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/10/22 11:15	06/13/22 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	970		10		mg/L			06/09/22 03:35	1
Chloride	66		10		mg/L			06/10/22 09:29	5
Fluoride	0.34		0.10		mg/L			06/13/22 14:45	1
Sulfate	440		100		mg/L			06/13/22 09:20	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	102.68				ft			06/08/22 09:08	1
Depth to Water (ft from MP)	105.08				ft			06/08/22 09:08	1
Elevation of well (ft from MP)	603.69				ft			06/08/22 09:08	1
Field pH	7.28				SU			06/08/22 09:08	1
Field Temperature	60.4				Degrees F			06/08/22 09:08	1
Ground Water Elevation	498.61				ft			06/08/22 09:08	1
Specific Conductance	1138				umhos/cm			06/08/22 09:08	1
Well bottom elevation	444.80				ft			06/08/22 09:08	1
Field Turbidity	7.70				inH2O			06/08/22 09:08	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G44S

Lab Sample ID: 500-217628-7

Date Collected: 06/09/22 09:47

Matrix: Water

Date Received: 06/09/22 15:13

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/10/22 08:48	06/13/22 20:31	1
Arsenic	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:31	1
Barium	0.067		0.0025		mg/L		06/10/22 08:48	06/13/22 20:31	1
Beryllium	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:31	1
Boron	1.6		0.25		mg/L		06/10/22 08:48	06/14/22 18:23	5
Cadmium	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:31	1
Calcium	130		0.20		mg/L		06/10/22 08:48	06/13/22 20:31	1
Chromium	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 20:31	1
Cobalt	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:31	1
Lead	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:31	1
Lithium	0.023		0.010		mg/L		06/10/22 08:48	06/13/22 20:31	1
Molybdenum	0.17		0.0050		mg/L		06/10/22 08:48	06/13/22 20:31	1
Selenium	<0.0025		0.0025		mg/L		06/10/22 08:48	06/13/22 20:31	1
Thallium	<0.0020		0.0020		mg/L		06/10/22 08:48	06/13/22 20:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/10/22 11:15	06/13/22 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	730		10		mg/L			06/10/22 02:22	1
Chloride	75		10		mg/L			06/10/22 09:29	5
Fluoride	0.20		0.10		mg/L			06/13/22 14:48	1
Sulfate	160		25		mg/L			06/13/22 09:19	5

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	78.57				ft			06/09/22 09:47	1
Depth to Water (ft from MP)	80.75				ft			06/09/22 09:47	1
Elevation of well (ft from MP)	586.49				ft			06/09/22 09:47	1
Field pH	7.02				SU			06/09/22 09:47	1
Field Temperature	57.2				Degrees F			06/09/22 09:47	1
Ground Water Elevation	505.74				ft			06/09/22 09:47	1
Specific Conductance	1010				umhos/cm			06/09/22 09:47	1
Well bottom elevation	455.11				ft			06/09/22 09:47	1
Field Turbidity	0.78				NTU			06/09/22 09:47	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G46S

Lab Sample ID: 500-217628-8

Date Collected: 06/09/22 10:46

Matrix: Water

Date Received: 06/09/22 15:13

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/10/22 08:48	06/13/22 20:34	1
Arsenic	0.017		0.0010		mg/L		06/10/22 08:48	06/13/22 20:34	1
Barium	0.042		0.0025		mg/L		06/10/22 08:48	06/13/22 20:34	1
Beryllium	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:34	1
Boron	11		1.0		mg/L		06/10/22 08:48	06/14/22 18:27	20
Cadmium	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:34	1
Calcium	110		0.20		mg/L		06/10/22 08:48	06/13/22 20:34	1
Chromium	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 20:34	1
Cobalt	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:34	1
Lead	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:34	1
Lithium	0.18		0.010		mg/L		06/10/22 08:48	06/13/22 20:34	1
Molybdenum	1.2		0.0050		mg/L		06/10/22 08:48	06/13/22 20:34	1
Selenium	<0.0025		0.0025		mg/L		06/10/22 08:48	06/13/22 20:34	1
Thallium	<0.0020		0.0020		mg/L		06/10/22 08:48	06/13/22 20:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/10/22 11:15	06/13/22 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	930		10		mg/L			06/10/22 02:29	1
Chloride	68		10		mg/L			06/10/22 09:30	5
Fluoride	0.26		0.10		mg/L			06/13/22 15:00	1
Sulfate	460		100		mg/L			06/13/22 09:20	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	100.70				ft			06/09/22 10:46	1
Depth to Water (ft from MP)	103.40				ft			06/09/22 10:46	1
Elevation of well (ft from MP)	601.34				ft			06/09/22 10:46	1
Field pH	7.36				SU			06/09/22 10:46	1
Field Temperature	57.6				Degrees F			06/09/22 10:46	1
Ground Water Elevation	497.94				ft			06/09/22 10:46	1
Specific Conductance	1172				umhos/cm			06/09/22 10:46	1
Well bottom elevation	453.62				ft			06/09/22 10:46	1
Field Turbidity	6.63				NTU			06/09/22 10:46	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G48S

Lab Sample ID: 500-217628-9

Date Collected: 06/09/22 12:38

Matrix: Water

Date Received: 06/09/22 15:13

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/10/22 08:48	06/13/22 20:38	1
Arsenic	0.0084		0.0010		mg/L		06/10/22 08:48	06/13/22 20:38	1
Barium	0.025		0.0025		mg/L		06/10/22 08:48	06/13/22 20:38	1
Beryllium	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:38	1
Boron	5.6		1.0		mg/L		06/10/22 08:48	06/14/22 18:30	20
Cadmium	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:38	1
Calcium	58		0.20		mg/L		06/10/22 08:48	06/13/22 20:38	1
Chromium	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 20:38	1
Cobalt	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:38	1
Lead	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:38	1
Lithium	0.027		0.010		mg/L		06/10/22 08:48	06/13/22 20:38	1
Molybdenum	0.38		0.0050		mg/L		06/10/22 08:48	06/13/22 20:38	1
Selenium	<0.0025		0.0025		mg/L		06/10/22 08:48	06/13/22 20:38	1
Thallium	<0.0020		0.0020		mg/L		06/10/22 08:48	06/13/22 20:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/10/22 11:15	06/13/22 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			06/10/22 02:35	1
Chloride	98		10		mg/L			06/10/22 09:30	5
Fluoride	0.87		0.10		mg/L			06/13/22 15:09	1
Sulfate	440		100		mg/L			06/13/22 09:21	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	99.06				ft			06/09/22 12:38	1
Depth to Water (ft from MP)	101.51				ft			06/09/22 12:38	1
Elevation of well (ft from MP)	620.74				ft			06/09/22 12:38	1
Field pH	7.47				SU			06/09/22 12:38	1
Field Temperature	63.3				Degrees F			06/09/22 12:38	1
Ground Water Elevation	519.23				ft			06/09/22 12:38	1
Specific Conductance	1371				umhos/cm			06/09/22 12:38	1
Well bottom elevation	468.32				ft			06/09/22 12:38	1
Field Turbidity	0.22				NTU			06/09/22 12:38	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G47S

Lab Sample ID: 500-217628-10

Date Collected: 06/09/22 13:58

Matrix: Water

Date Received: 06/09/22 15:13

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/10/22 08:48	06/13/22 20:41	1
Arsenic	0.038		0.0010		mg/L		06/10/22 08:48	06/13/22 20:41	1
Barium	0.013		0.0025		mg/L		06/10/22 08:48	06/13/22 20:41	1
Beryllium	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:41	1
Boron	7.3		1.0		mg/L		06/10/22 08:48	06/14/22 18:41	20
Cadmium	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:41	1
Calcium	9.2		0.20		mg/L		06/10/22 08:48	06/13/22 20:41	1
Chromium	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 20:41	1
Cobalt	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 20:41	1
Lead	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 20:41	1
Lithium	0.043		0.010		mg/L		06/10/22 08:48	06/13/22 20:41	1
Molybdenum	0.53		0.0050		mg/L		06/10/22 08:48	06/13/22 20:41	1
Selenium	0.0028		0.0025		mg/L		06/10/22 08:48	06/13/22 20:41	1
Thallium	<0.0020		0.0020		mg/L		06/10/22 08:48	06/13/22 20:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/10/22 11:15	06/13/22 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			06/10/22 02:37	1
Chloride	96		10		mg/L			06/10/22 09:31	5
Fluoride	0.63		0.10		mg/L			06/13/22 15:22	1
Sulfate	460		100		mg/L			06/13/22 09:21	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	89.76				ft			06/09/22 13:58	1
Depth to Water (ft from MP)	92.26				ft			06/09/22 13:58	1
Elevation of well (ft from MP)	612.04				ft			06/09/22 13:58	1
Field pH	8.39				SU			06/09/22 13:58	1
Field Temperature	60.1				Degrees F			06/09/22 13:58	1
Ground Water Elevation	519.78				ft			06/09/22 13:58	1
Specific Conductance	1353				umhos/cm			06/09/22 13:58	1
Well bottom elevation	459.84				ft			06/09/22 13:58	1
Field Turbidity	-0.11				NTU			06/09/22 13:58	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G30S

Lab Sample ID: 500-217628-11

Date Collected: 06/10/22 09:28

Matrix: GW

Date Received: 06/10/22 14:38

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/13/22 07:20	06/13/22 17:42	1
Arsenic	0.0024		0.0010		mg/L		06/13/22 07:20	06/13/22 17:42	1
Barium	0.046		0.0025		mg/L		06/13/22 07:20	06/13/22 17:42	1
Beryllium	<0.0010		0.0010		mg/L		06/13/22 07:20	06/13/22 17:42	1
Boron	5.1		1.0		mg/L		06/13/22 07:20	06/14/22 16:13	20
Cadmium	<0.00050		0.00050		mg/L		06/13/22 07:20	06/13/22 17:42	1
Calcium	60		0.20		mg/L		06/13/22 07:20	06/13/22 17:42	1
Chromium	<0.0050		0.0050		mg/L		06/13/22 07:20	06/13/22 17:42	1
Cobalt	<0.0010		0.0010		mg/L		06/13/22 07:20	06/13/22 17:42	1
Lead	<0.00050		0.00050		mg/L		06/13/22 07:20	06/13/22 17:42	1
Lithium	0.023		0.010		mg/L		06/13/22 07:20	06/13/22 17:42	1
Molybdenum	0.0095		0.0050		mg/L		06/13/22 07:20	06/13/22 17:42	1
Selenium	<0.0025		0.0025		mg/L		06/13/22 07:20	06/13/22 17:42	1
Thallium	<0.0020		0.0020		mg/L		06/13/22 07:20	06/13/22 17:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/22 11:20	06/15/22 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			06/13/22 00:46	1
Chloride	200		10		mg/L			06/13/22 12:07	5
Fluoride	0.99		0.10		mg/L			06/13/22 15:25	1
Sulfate	450		50		mg/L			06/13/22 09:21	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	-0.49				ft			06/10/22 09:28	1
Depth to Water (ft from MP)	1.82				ft			06/10/22 09:28	1
Elevation of well (ft from MP)	524.69				ft			06/10/22 09:28	1
Field pH	7.29				SU			06/10/22 09:28	1
Field Temperature	55.2				Degrees F			06/10/22 09:28	1
Ground Water Elevation	522.87				ft			06/10/22 09:28	1
Specific Conductance	1640				umhos/cm			06/10/22 09:28	1
Well bottom elevation	462.58				ft			06/10/22 09:28	1
Field Turbidity	0.16				NTU			06/10/22 09:28	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: R32S

Lab Sample ID: 500-217628-12

Date Collected: 06/10/22 11:19

Matrix: GW

Date Received: 06/10/22 14:38

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/13/22 07:20	06/13/22 17:46	1
Arsenic	0.0017		0.0010		mg/L		06/13/22 07:20	06/13/22 17:46	1
Barium	0.034		0.0025		mg/L		06/13/22 07:20	06/13/22 17:46	1
Beryllium	<0.0010		0.0010		mg/L		06/13/22 07:20	06/13/22 17:46	1
Boron	5.5		0.50		mg/L		06/13/22 07:20	06/14/22 16:16	10
Cadmium	<0.00050		0.00050		mg/L		06/13/22 07:20	06/13/22 17:46	1
Calcium	120		0.20		mg/L		06/13/22 07:20	06/13/22 17:46	1
Chromium	<0.0050		0.0050		mg/L		06/13/22 07:20	06/13/22 17:46	1
Cobalt	<0.0010		0.0010		mg/L		06/13/22 07:20	06/13/22 17:46	1
Lead	<0.00050		0.00050		mg/L		06/13/22 07:20	06/13/22 17:46	1
Lithium	0.089		0.010		mg/L		06/13/22 07:20	06/13/22 17:46	1
Molybdenum	0.58		0.0050		mg/L		06/13/22 07:20	06/13/22 17:46	1
Selenium	<0.0025		0.0025		mg/L		06/13/22 07:20	06/13/22 17:46	1
Thallium	<0.0020		0.0020		mg/L		06/13/22 07:20	06/13/22 17:46	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/22 11:20	06/15/22 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	880		10		mg/L			06/13/22 00:53	1
Chloride	54		10		mg/L			06/13/22 12:06	5
Fluoride	0.31		0.10		mg/L			06/13/22 15:29	1
Sulfate	460		100		mg/L			06/13/22 09:38	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	18.46				ft			06/10/22 11:19	1
Depth to Water (ft from MP)	20.49				ft			06/10/22 11:19	1
Elevation of well (ft from MP)	536.91				ft			06/10/22 11:19	1
Field pH	7.23				SU			06/10/22 11:19	1
Field Temperature	53.6				Degrees F			06/10/22 11:19	1
Ground Water Elevation	516.42				ft			06/10/22 11:19	1
Specific Conductance	888				umhos/cm			06/10/22 11:19	1
Well bottom elevation	457.84				ft			06/10/22 11:19	1
Field Turbidity	-0.10				NTU			06/10/22 11:19	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G45S

Lab Sample ID: 500-217628-13

Date Collected: 06/10/22 12:46

Matrix: GW

Date Received: 06/10/22 14:38

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/13/22 07:20	06/13/22 17:49	1
Arsenic	0.0082		0.0010		mg/L		06/13/22 07:20	06/13/22 17:49	1
Barium	0.036		0.0025		mg/L		06/13/22 07:20	06/13/22 17:49	1
Beryllium	<0.0010		0.0010		mg/L		06/13/22 07:20	06/13/22 17:49	1
Boron	0.34		0.050		mg/L		06/13/22 07:20	06/14/22 16:20	1
Cadmium	<0.00050		0.00050		mg/L		06/13/22 07:20	06/13/22 17:49	1
Calcium	84		0.20		mg/L		06/13/22 07:20	06/13/22 17:49	1
Chromium	<0.0050		0.0050		mg/L		06/13/22 07:20	06/13/22 17:49	1
Cobalt	<0.0010		0.0010		mg/L		06/13/22 07:20	06/13/22 17:49	1
Lead	<0.00050		0.00050		mg/L		06/13/22 07:20	06/13/22 17:49	1
Lithium	0.028		0.010		mg/L		06/13/22 07:20	06/13/22 17:49	1
Molybdenum	0.0072		0.0050		mg/L		06/13/22 07:20	06/13/22 17:49	1
Selenium	<0.0025		0.0025		mg/L		06/13/22 07:20	06/13/22 17:49	1
Thallium	<0.0020		0.0020		mg/L		06/13/22 07:20	06/13/22 17:49	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/22 11:20	06/15/22 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	630		10		mg/L			06/13/22 00:59	1
Chloride	110		10		mg/L			06/13/22 12:08	5
Fluoride	0.35		0.10		mg/L			06/13/22 15:32	1
Sulfate	130		50		mg/L			06/13/22 09:38	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	61.10				ft			06/10/22 12:46	1
Depth to Water (ft from MP)	64.07				ft			06/10/22 12:46	1
Elevation of well (ft from MP)	603.94				ft			06/10/22 12:46	1
Field pH	7.28				SU			06/10/22 12:46	1
Field Temperature	64.6				Degrees F			06/10/22 12:46	1
Ground Water Elevation	539.87				ft			06/10/22 12:46	1
Specific Conductance	873				umhos/cm			06/10/22 12:46	1
Well bottom elevation	471.05				ft			06/10/22 12:46	1
Field Turbidity	0.03				NTU			06/10/22 12:46	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G31S

Lab Sample ID: 500-217628-14

Date Collected: 06/10/22 13:37

Matrix: Water

Date Received: 06/10/22 14:38

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/13/22 07:20	06/13/22 17:52	1
Arsenic	0.0039		0.0010		mg/L		06/13/22 07:20	06/13/22 17:52	1
Barium	0.048		0.0025		mg/L		06/13/22 07:20	06/13/22 17:52	1
Beryllium	<0.0010		0.0010		mg/L		06/13/22 07:20	06/13/22 17:52	1
Boron	4.8		1.0		mg/L		06/13/22 07:20	06/14/22 16:23	20
Cadmium	<0.00050		0.00050		mg/L		06/13/22 07:20	06/13/22 17:52	1
Calcium	150		0.20		mg/L		06/13/22 07:20	06/13/22 17:52	1
Chromium	<0.0050		0.0050		mg/L		06/13/22 07:20	06/13/22 17:52	1
Cobalt	<0.0010		0.0010		mg/L		06/13/22 07:20	06/13/22 17:52	1
Lead	<0.00050		0.00050		mg/L		06/13/22 07:20	06/13/22 17:52	1
Lithium	0.10		0.010		mg/L		06/13/22 07:20	06/13/22 17:52	1
Molybdenum	0.81		0.0050		mg/L		06/13/22 07:20	06/13/22 17:52	1
Selenium	<0.0025		0.0025		mg/L		06/13/22 07:20	06/13/22 17:52	1
Thallium	<0.0020		0.0020		mg/L		06/13/22 07:20	06/13/22 17:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/22 11:20	06/15/22 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/13/22 01:01	1
Chloride	140		10		mg/L			06/13/22 12:08	5
Fluoride	0.24		0.10		mg/L			06/13/22 15:35	1
Sulfate	480		100		mg/L			06/13/22 09:39	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	24.87				ft			06/10/22 13:37	1
Depth to Water (ft from MP)	27.45				ft			06/10/22 13:37	1
Elevation of well (ft from MP)	535.77				ft			06/10/22 13:37	1
Field pH	7.29				SU			06/10/22 13:37	1
Field Temperature	58.6				Degrees F			06/10/22 13:37	1
Ground Water Elevation	508.32				ft			06/10/22 13:37	1
Specific Conductance	1413				umhos/cm			06/10/22 13:37	1
Well bottom elevation	453.36				ft			06/10/22 13:37	1
Field Turbidity	0.42				NTU			06/10/22 13:37	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: T06S

Lab Sample ID: 500-217628-15

Date Collected: 06/13/22 09:35

Matrix: Water

Date Received: 06/13/22 15:00

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/14/22 08:53	06/14/22 21:29	1
Arsenic	0.0020		0.0010		mg/L		06/14/22 08:53	06/14/22 21:29	1
Barium	0.033		0.0025		mg/L		06/14/22 08:53	06/14/22 21:29	1
Beryllium	<0.0010		0.0010		mg/L		06/14/22 08:53	06/14/22 21:29	1
Boron	1.4		0.50		mg/L		06/16/22 07:56	06/20/22 11:57	10
Cadmium	<0.00050		0.00050		mg/L		06/14/22 08:53	06/14/22 21:29	1
Calcium	86		0.20		mg/L		06/14/22 08:53	06/14/22 21:29	1
Chromium	<0.0050		0.0050		mg/L		06/16/22 07:56	06/17/22 16:01	1
Cobalt	<0.0010		0.0010		mg/L		06/16/22 07:56	06/17/22 16:01	1
Lead	<0.00050		0.00050		mg/L		06/14/22 08:53	06/14/22 21:29	1
Lithium	0.025		0.010		mg/L		06/14/22 08:53	06/14/22 21:29	1
Molybdenum	0.041		0.0050		mg/L		06/16/22 07:56	06/17/22 16:01	1
Selenium	<0.0025		0.0025		mg/L		06/14/22 08:53	06/14/22 21:29	1
Thallium	<0.0020		0.0020		mg/L		06/14/22 08:53	06/14/22 21:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/15/22 11:00	06/16/22 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	530		10		mg/L			06/14/22 01:02	1
Chloride	14		2.0		mg/L			06/15/22 08:38	1
Fluoride	0.48		0.10		mg/L			06/20/22 12:06	1
Sulfate	130		25		mg/L			06/14/22 14:00	5

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	110.41				ft			06/13/22 09:35	1
Depth to Water (ft from MP)	112.71				ft			06/13/22 09:35	1
Elevation of well (ft from MP)	620.99				ft			06/13/22 09:35	1
Field pH	6.80				SU			06/13/22 09:35	1
Field Temperature	71.1				Degrees F			06/13/22 09:35	1
Ground Water Elevation	508.28				ft			06/13/22 09:35	1
Specific Conductance	696				umhos/cm			06/13/22 09:35	1
Well bottom elevation	447.94				ft			06/13/22 09:35	1
Field Turbidity	0.75				NTU			06/13/22 09:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: T05S

Lab Sample ID: 500-217628-16

Date Collected: 06/13/22 11:23

Matrix: Water

Date Received: 06/13/22 15:00

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/14/22 08:53	06/14/22 21:32	1
Arsenic	0.12		0.0010		mg/L		06/14/22 08:53	06/14/22 21:32	1
Barium	0.010		0.0025		mg/L		06/14/22 08:53	06/14/22 21:32	1
Beryllium	<0.0010		0.0010		mg/L		06/14/22 08:53	06/14/22 21:32	1
Boron	14		5.0		mg/L		06/16/22 07:56	06/20/22 12:01	100
Cadmium	<0.00050		0.00050		mg/L		06/14/22 08:53	06/14/22 21:32	1
Calcium	3.1		0.20		mg/L		06/14/22 08:53	06/14/22 21:32	1
Chromium	<0.0050		0.0050		mg/L		06/16/22 07:56	06/17/22 16:05	1
Cobalt	<0.0010		0.0010		mg/L		06/16/22 07:56	06/17/22 16:05	1
Lead	<0.00050		0.00050		mg/L		06/14/22 08:53	06/14/22 21:32	1
Lithium	0.019		0.010		mg/L		06/14/22 08:53	06/14/22 21:32	1
Molybdenum	0.96		0.0050		mg/L		06/16/22 07:56	06/17/22 16:05	1
Selenium	0.0052		0.0025		mg/L		06/14/22 08:53	06/14/22 21:32	1
Thallium	<0.0020		0.0020		mg/L		06/14/22 08:53	06/14/22 21:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/15/22 11:00	06/16/22 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10		mg/L			06/14/22 01:10	1
Chloride	140		10		mg/L			06/15/22 09:35	5
Fluoride	1.7		0.10		mg/L			06/20/22 12:09	1
Sulfate	610		100		mg/L			06/14/22 14:15	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	118.17				ft			06/13/22 11:23	1
Depth to Water (ft from MP)	120.57				ft			06/13/22 11:23	1
Elevation of well (ft from MP)	623.46				ft			06/13/22 11:23	1
Field pH	9.81				SU			06/13/22 11:23	1
Field Temperature	75.7				Degrees F			06/13/22 11:23	1
Ground Water Elevation	502.89				ft			06/13/22 11:23	1
Specific Conductance	2090				umhos/cm			06/13/22 11:23	1
Well bottom elevation	448.35				ft			06/13/22 11:23	1
Field Turbidity	0.26				NTU			06/13/22 11:23	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: T03S

Lab Sample ID: 500-217628-17

Date Collected: 06/13/22 13:50

Matrix: Water

Date Received: 06/13/22 15:00

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/14/22 08:53	06/14/22 21:36	1
Arsenic	0.0015		0.0010		mg/L		06/14/22 08:53	06/14/22 21:36	1
Barium	0.11		0.0025		mg/L		06/14/22 08:53	06/14/22 21:36	1
Beryllium	<0.0010		0.0010		mg/L		06/14/22 08:53	06/14/22 21:36	1
Boron	1.7		0.50		mg/L		06/16/22 07:56	06/20/22 12:04	10
Cadmium	<0.00050		0.00050		mg/L		06/14/22 08:53	06/14/22 21:36	1
Calcium	130		0.20		mg/L		06/14/22 08:53	06/14/22 21:36	1
Chromium	<0.0050		0.0050		mg/L		06/16/22 07:56	06/17/22 16:08	1
Cobalt	0.0014		0.0010		mg/L		06/16/22 07:56	06/17/22 16:08	1
Lead	<0.00050		0.00050		mg/L		06/14/22 08:53	06/14/22 21:36	1
Lithium	0.025		0.010		mg/L		06/14/22 08:53	06/14/22 21:36	1
Molybdenum	0.17		0.0050		mg/L		06/16/22 07:56	06/17/22 16:08	1
Selenium	<0.0025		0.0025		mg/L		06/14/22 08:53	06/14/22 21:36	1
Thallium	<0.0020		0.0020		mg/L		06/14/22 08:53	06/14/22 21:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/15/22 11:00	06/16/22 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	980		10		mg/L			06/14/22 01:13	1
Chloride	160		10		mg/L			06/15/22 08:39	5
Fluoride	0.21		0.10		mg/L			06/20/22 12:12	1
Sulfate	260		50		mg/L			06/14/22 14:02	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	131.81				ft			06/13/22 13:50	1
Depth to Water (ft from MP)	134.89				ft			06/13/22 13:50	1
Elevation of well (ft from MP)	629.74				ft			06/13/22 13:50	1
Field pH	7.44				SU			06/13/22 13:50	1
Field Temperature	56.8				Degrees F			06/13/22 13:50	1
Ground Water Elevation	494.85				ft			06/13/22 13:50	1
Specific Conductance	1378				umhos/cm			06/13/22 13:50	1
Well bottom elevation	456.70				ft			06/13/22 13:50	1
Field Turbidity	-0.10				NTU			06/13/22 13:50	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: T01S

Lab Sample ID: 500-217628-18

Date Collected: 06/14/22 09:42

Matrix: Water

Date Received: 06/14/22 14:57

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/15/22 08:37	06/16/22 18:14	1
Arsenic	0.015		0.0010		mg/L		06/15/22 08:37	06/16/22 18:14	1
Barium	0.059		0.0025		mg/L		06/15/22 08:37	06/16/22 18:14	1
Beryllium	<0.0010		0.0010		mg/L		06/15/22 08:37	06/16/22 18:14	1
Boron	4.6		1.0		mg/L		06/20/22 08:13	06/22/22 14:41	20
Cadmium	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 18:14	1
Calcium	54		0.20		mg/L		06/15/22 08:37	06/16/22 18:14	1
Chromium	0.0086		0.0050		mg/L		06/20/22 08:13	06/20/22 18:34	1
Cobalt	0.0036		0.0010		mg/L		06/20/22 08:13	06/20/22 18:34	1
Lead	0.0025		0.00050		mg/L		06/15/22 08:37	06/16/22 18:14	1
Lithium	0.013		0.010		mg/L		06/15/22 08:37	06/16/22 18:14	1
Molybdenum	0.34		0.0050		mg/L		06/20/22 08:13	06/20/22 18:34	1
Selenium	<0.0025		0.0025		mg/L		06/15/22 08:37	06/16/22 18:14	1
Thallium	<0.0020		0.0020		mg/L		06/15/22 08:37	06/16/22 18:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/15/22 11:00	06/16/22 08:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	990		10		mg/L			06/17/22 03:34	1
Chloride	100		10		mg/L			06/15/22 08:39	5
Fluoride	1.2		0.10		mg/L			06/20/22 12:14	1
Sulfate	420		50		mg/L			06/15/22 10:36	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	117.46				ft			06/14/22 09:42	1
Depth to Water (ft from MP)	119.94				ft			06/14/22 09:42	1
Elevation of well (ft from MP)	621.71				ft			06/14/22 09:42	1
Field pH	7.81				SU			06/14/22 09:42	1
Field Temperature	78.1				Degrees F			06/14/22 09:42	1
Ground Water Elevation	501.77				ft			06/14/22 09:42	1
Specific Conductance	1237				umhos/cm			06/14/22 09:42	1
Well bottom elevation	451.46				ft			06/14/22 09:42	1
Field Turbidity	15.7				NTU			06/14/22 09:42	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: T02S

Lab Sample ID: 500-217628-19

Date Collected: 06/14/22 12:39

Matrix: Water

Date Received: 06/14/22 14:57

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/15/22 08:37	06/16/22 18:18	1
Arsenic	0.0094		0.0010		mg/L		06/15/22 08:37	06/16/22 18:18	1
Barium	0.066		0.0025		mg/L		06/15/22 08:37	06/16/22 18:18	1
Beryllium	<0.0010		0.0010		mg/L		06/15/22 08:37	06/16/22 18:18	1
Boron	5.3		1.0		mg/L		06/20/22 08:13	06/22/22 14:46	20
Cadmium	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 18:18	1
Calcium	53		0.20		mg/L		06/15/22 08:37	06/16/22 18:18	1
Chromium	<0.0050		0.0050		mg/L		06/20/22 08:13	06/20/22 18:38	1
Cobalt	0.0036		0.0010		mg/L		06/20/22 08:13	06/20/22 18:38	1
Lead	0.0017		0.00050		mg/L		06/15/22 08:37	06/16/22 18:18	1
Lithium	0.033		0.010		mg/L		06/15/22 08:37	06/16/22 18:18	1
Molybdenum	0.46		0.0050		mg/L		06/20/22 08:13	06/20/22 18:38	1
Selenium	<0.0025		0.0025		mg/L		06/15/22 08:37	06/16/22 18:18	1
Thallium	<0.0020		0.0020		mg/L		06/15/22 08:37	06/16/22 18:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/15/22 11:00	06/16/22 08:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	830		10		mg/L			06/17/22 03:41	1
Chloride	90		10		mg/L			06/15/22 08:39	5
Fluoride	0.46		0.10		mg/L			06/20/22 12:18	1
Sulfate	360		50		mg/L			06/15/22 10:37	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	128.21				ft			06/14/22 12:39	1
Depth to Water (ft from MP)	130.54				ft			06/14/22 12:39	1
Elevation of well (ft from MP)	626.12				ft			06/14/22 12:39	1
Field pH	8.08				SU			06/14/22 12:39	1
Field Temperature	89.2				Degrees F			06/14/22 12:39	1
Ground Water Elevation	495.58				ft			06/14/22 12:39	1
Specific Conductance	1126				umhos/cm			06/14/22 12:39	1
Well bottom elevation	453.40				ft			06/14/22 12:39	1
Field Turbidity	16.4				NTU			06/14/22 12:39	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: T08S

Lab Sample ID: 500-217628-20

Date Collected: 06/21/22 09:41

Matrix: Water

Date Received: 06/21/22 11:23

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/22/22 08:53	06/22/22 19:33	1
Arsenic	0.020		0.0010		mg/L		06/22/22 08:53	06/22/22 19:33	1
Barium	0.032		0.0025		mg/L		06/22/22 08:53	06/22/22 19:33	1
Beryllium	<0.0010		0.0010		mg/L		06/22/22 08:53	06/22/22 19:33	1
Boron	7.8		1.0		mg/L		06/22/22 08:53	06/23/22 18:27	20
Cadmium	<0.00050		0.00050		mg/L		06/22/22 08:53	06/22/22 19:33	1
Calcium	25		0.20		mg/L		06/22/22 08:53	06/22/22 19:33	1
Chromium	<0.0050		0.0050		mg/L		06/22/22 08:53	06/22/22 19:33	1
Cobalt	<0.0010		0.0010		mg/L		06/22/22 08:53	06/22/22 19:33	1
Lead	<0.00050		0.00050		mg/L		06/22/22 08:53	06/22/22 19:33	1
Lithium	0.033		0.010		mg/L		06/22/22 08:53	06/22/22 19:33	1
Molybdenum	0.76		0.0050		mg/L		06/22/22 08:53	06/22/22 19:33	1
Selenium	<0.0025		0.0025		mg/L		06/22/22 08:53	06/22/22 19:33	1
Thallium	<0.0020		0.0020		mg/L		06/22/22 08:53	06/22/22 19:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/22/22 10:55	06/23/22 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	970		10		mg/L			06/22/22 00:55	1
Chloride	87		10		mg/L			06/22/22 12:02	5
Fluoride	0.66		0.10		mg/L			06/25/22 15:16	1
Sulfate	470	F1	100		mg/L			06/22/22 10:32	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	123.17				ft			06/21/22 09:41	1
Depth to Water (ft from MP)	125.55				ft			06/21/22 09:41	1
Elevation of well (ft from MP)	627.50				ft			06/21/22 09:41	1
Field pH	7.44				SU			06/21/22 09:41	1
Field Temperature	67.5				Degrees F			06/21/22 09:41	1
Ground Water Elevation	501.95				ft			06/21/22 09:41	1
Specific Conductance	1299				umhos/cm			06/21/22 09:41	1
Well bottom elevation	447.38				ft			06/21/22 09:41	1
Field Turbidity	1.34				NTU			06/21/22 09:41	1

Definitions/Glossary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Metals

Prep Batch: 660684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total Recoverable	Water	3005A	
500-217628-3	G20S	Total Recoverable	Water	3005A	
500-217628-4	R08S	Total Recoverable	Water	3005A	
500-217628-5	R08S DUP	Total Recoverable	Water	3005A	
500-217628-6	T09S	Total Recoverable	Water	3005A	
500-217628-7	G44S	Total Recoverable	Water	3005A	
500-217628-8	G46S	Total Recoverable	Water	3005A	
500-217628-9	G48S	Total Recoverable	Water	3005A	
500-217628-10	G47S	Total Recoverable	Water	3005A	
MB 500-660684/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-660684/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 660739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total/NA	Water	7470A	
500-217628-3	G20S	Total/NA	Water	7470A	
500-217628-4	R08S	Total/NA	Water	7470A	
500-217628-5	R08S DUP	Total/NA	Water	7470A	
500-217628-6	T09S	Total/NA	Water	7470A	
500-217628-7	G44S	Total/NA	Water	7470A	
500-217628-8	G46S	Total/NA	Water	7470A	
500-217628-9	G48S	Total/NA	Water	7470A	
500-217628-10	G47S	Total/NA	Water	7470A	
MB 500-660739/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-660739/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-217628-3 MS	G20S	Total/NA	Water	7470A	
500-217628-3 MSD	G20S	Total/NA	Water	7470A	
500-217628-3 DU	G20S	Total/NA	Water	7470A	

Prep Batch: 660855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-11	G30S	Total Recoverable	GW	3005A	
500-217628-12	R32S	Total Recoverable	GW	3005A	
500-217628-13	G45S	Total Recoverable	GW	3005A	
500-217628-14	G31S	Total Recoverable	Water	3005A	
MB 500-660855/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-660855/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 660947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total/NA	Water	7470A	660739
500-217628-3	G20S	Total/NA	Water	7470A	660739
500-217628-4	R08S	Total/NA	Water	7470A	660739
500-217628-5	R08S DUP	Total/NA	Water	7470A	660739
500-217628-6	T09S	Total/NA	Water	7470A	660739
500-217628-7	G44S	Total/NA	Water	7470A	660739
500-217628-8	G46S	Total/NA	Water	7470A	660739
500-217628-9	G48S	Total/NA	Water	7470A	660739
500-217628-10	G47S	Total/NA	Water	7470A	660739
MB 500-660739/12-A	Method Blank	Total/NA	Water	7470A	660739
LCS 500-660739/13-A	Lab Control Sample	Total/NA	Water	7470A	660739

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Metals (Continued)

Analysis Batch: 660947 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-3 MS	G20S	Total/NA	Water	7470A	660739
500-217628-3 MSD	G20S	Total/NA	Water	7470A	660739
500-217628-3 DU	G20S	Total/NA	Water	7470A	660739

Prep Batch: 661080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total Recoverable	Water	3005A	
500-217628-16	T05S	Total Recoverable	Water	3005A	
500-217628-17	T03S	Total Recoverable	Water	3005A	
MB 500-661080/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-661080/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 661121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total Recoverable	Water	6020A	660684
500-217628-3	G20S	Total Recoverable	Water	6020A	660684
500-217628-4	R08S	Total Recoverable	Water	6020A	660684
500-217628-5	R08S DUP	Total Recoverable	Water	6020A	660684
500-217628-6	T09S	Total Recoverable	Water	6020A	660684
500-217628-7	G44S	Total Recoverable	Water	6020A	660684
500-217628-8	G46S	Total Recoverable	Water	6020A	660684
500-217628-9	G48S	Total Recoverable	Water	6020A	660684
500-217628-10	G47S	Total Recoverable	Water	6020A	660684
500-217628-11	G30S	Total Recoverable	GW	6020A	660855
500-217628-12	R32S	Total Recoverable	GW	6020A	660855
500-217628-13	G45S	Total Recoverable	GW	6020A	660855
500-217628-14	G31S	Total Recoverable	Water	6020A	660855
MB 500-660684/1-A	Method Blank	Total Recoverable	Water	6020A	660684
MB 500-660855/1-A	Method Blank	Total Recoverable	Water	6020A	660855
LCS 500-660684/2-A	Lab Control Sample	Total Recoverable	Water	6020A	660684
LCS 500-660855/2-A	Lab Control Sample	Total Recoverable	Water	6020A	660855

Prep Batch: 661136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-11	G30S	Total/NA	GW	7470A	
500-217628-12	R32S	Total/NA	GW	7470A	
500-217628-13	G45S	Total/NA	GW	7470A	
500-217628-14	G31S	Total/NA	Water	7470A	
MB 500-661136/13-A	Method Blank	Total/NA	Water	7470A	
LCS 500-661136/12-A	Lab Control Sample	Total/NA	Water	7470A	
500-217628-11 MS	G30S	Total/NA	GW	7470A	
500-217628-11 MSD	G30S	Total/NA	GW	7470A	
500-217628-11 DU	G30S	Total/NA	GW	7470A	

Prep Batch: 661262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-18	T01S	Total Recoverable	Water	3005A	
500-217628-19	T02S	Total Recoverable	Water	3005A	
MB 500-661262/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-661262/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Metals

Analysis Batch: 661300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-11	G30S	Total Recoverable	GW	6020A	660855
500-217628-12	R32S	Total Recoverable	GW	6020A	660855
500-217628-13	G45S	Total Recoverable	GW	6020A	660855
500-217628-14	G31S	Total Recoverable	Water	6020A	660855
MB 500-660855/1-A	Method Blank	Total Recoverable	Water	6020A	660855
LCS 500-660855/2-A	Lab Control Sample	Total Recoverable	Water	6020A	660855

Analysis Batch: 661307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total Recoverable	Water	6020A	660684
500-217628-3	G20S	Total Recoverable	Water	6020A	660684
500-217628-4	R08S	Total Recoverable	Water	6020A	660684
500-217628-5	R08S DUP	Total Recoverable	Water	6020A	660684
500-217628-6	T09S	Total Recoverable	Water	6020A	660684
500-217628-7	G44S	Total Recoverable	Water	6020A	660684
500-217628-8	G46S	Total Recoverable	Water	6020A	660684
500-217628-9	G48S	Total Recoverable	Water	6020A	660684
500-217628-10	G47S	Total Recoverable	Water	6020A	660684
500-217628-15	T06S	Total Recoverable	Water	6020A	661080
500-217628-16	T05S	Total Recoverable	Water	6020A	661080
500-217628-17	T03S	Total Recoverable	Water	6020A	661080
MB 500-660684/1-A	Method Blank	Total Recoverable	Water	6020A	660684
MB 500-661080/1-A	Method Blank	Total Recoverable	Water	6020A	661080
LCS 500-660684/2-A	Lab Control Sample	Total Recoverable	Water	6020A	660684
LCS 500-661080/2-A	Lab Control Sample	Total Recoverable	Water	6020A	661080

Prep Batch: 661309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total/NA	Water	7470A	
500-217628-16	T05S	Total/NA	Water	7470A	
500-217628-17	T03S	Total/NA	Water	7470A	
500-217628-18	T01S	Total/NA	Water	7470A	
500-217628-19	T02S	Total/NA	Water	7470A	
MB 500-661309/13-A	Method Blank	Total/NA	Water	7470A	
LCS 500-661309/12-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 661339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-11	G30S	Total/NA	GW	7470A	661136
500-217628-12	R32S	Total/NA	GW	7470A	661136
500-217628-13	G45S	Total/NA	GW	7470A	661136
500-217628-14	G31S	Total/NA	Water	7470A	661136
MB 500-661136/13-A	Method Blank	Total/NA	Water	7470A	661136
LCS 500-661136/12-A	Lab Control Sample	Total/NA	Water	7470A	661136
500-217628-11 MS	G30S	Total/NA	GW	7470A	661136
500-217628-11 MSD	G30S	Total/NA	GW	7470A	661136
500-217628-11 DU	G30S	Total/NA	GW	7470A	661136

Prep Batch: 661434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Metals (Continued)

Prep Batch: 661434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-16	T05S	Total Recoverable	Water	3005A	
500-217628-17	T03S	Total Recoverable	Water	3005A	
MB 500-661434/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-661434/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 661501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total/NA	Water	7470A	661309
500-217628-16	T05S	Total/NA	Water	7470A	661309
500-217628-17	T03S	Total/NA	Water	7470A	661309
500-217628-18	T01S	Total/NA	Water	7470A	661309
500-217628-19	T02S	Total/NA	Water	7470A	661309
MB 500-661309/13-A	Method Blank	Total/NA	Water	7470A	661309
LCS 500-661309/12-A	Lab Control Sample	Total/NA	Water	7470A	661309

Analysis Batch: 661710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-18	T01S	Total Recoverable	Water	6020A	661262
500-217628-19	T02S	Total Recoverable	Water	6020A	661262
MB 500-661262/1-A	Method Blank	Total Recoverable	Water	6020A	661262
LCS 500-661262/2-A	Lab Control Sample	Total Recoverable	Water	6020A	661262

Prep Batch: 661901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-18	T01S	Total Recoverable	Water	3005A	
500-217628-19	T02S	Total Recoverable	Water	3005A	
MB 500-661901/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-661901/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 661953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total Recoverable	Water	6020A	661434
500-217628-16	T05S	Total Recoverable	Water	6020A	661434
500-217628-17	T03S	Total Recoverable	Water	6020A	661434
MB 500-661434/1-A	Method Blank	Total Recoverable	Water	6020A	661434
LCS 500-661434/2-A	Lab Control Sample	Total Recoverable	Water	6020A	661434

Analysis Batch: 662010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total Recoverable	Water	6020A	661434
500-217628-16	T05S	Total Recoverable	Water	6020A	661434
500-217628-17	T03S	Total Recoverable	Water	6020A	661434
MB 500-661434/1-A	Method Blank	Total Recoverable	Water	6020A	661434
LCS 500-661434/2-A	Lab Control Sample	Total Recoverable	Water	6020A	661434

Prep Batch: 662301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-20	T08S	Total Recoverable	Water	3005A	
MB 500-662301/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-662301/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Metals

Prep Batch: 662349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-20	T08S	Total/NA	Water	7470A	
MB 500-662349/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-662349/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 662363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-18	T01S	Total Recoverable	Water	6020A	661901
500-217628-19	T02S	Total Recoverable	Water	6020A	661901
MB 500-661901/1-A	Method Blank	Total Recoverable	Water	6020A	661901
LCS 500-661901/2-A	Lab Control Sample	Total Recoverable	Water	6020A	661901

Analysis Batch: 662557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-18	T01S	Total Recoverable	Water	6020A	661901
500-217628-19	T02S	Total Recoverable	Water	6020A	661901
MB 500-661901/1-A	Method Blank	Total Recoverable	Water	6020A	661901
LCS 500-661901/2-A	Lab Control Sample	Total Recoverable	Water	6020A	661901

Analysis Batch: 662558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-20	T08S	Total Recoverable	Water	6020A	662301
MB 500-662301/1-A	Method Blank	Total Recoverable	Water	6020A	662301
LCS 500-662301/2-A	Lab Control Sample	Total Recoverable	Water	6020A	662301

Analysis Batch: 662560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-20	T08S	Total/NA	Water	7470A	662349
MB 500-662349/12-A	Method Blank	Total/NA	Water	7470A	662349
LCS 500-662349/13-A	Lab Control Sample	Total/NA	Water	7470A	662349

Analysis Batch: 662743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-20	T08S	Total Recoverable	Water	6020A	662301
MB 500-662301/1-A	Method Blank	Total Recoverable	Water	6020A	662301
LCS 500-662301/2-A	Lab Control Sample	Total Recoverable	Water	6020A	662301

General Chemistry

Analysis Batch: 660040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total/NA	Water	SM 2540C	
MB 500-660040/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-660040/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 660231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-3	G20S	Total/NA	Water	SM 2540C	
500-217628-4	R08S	Total/NA	Water	SM 2540C	
500-217628-5	R08S DUP	Total/NA	Water	SM 2540C	
MB 500-660231/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-660231/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

General Chemistry (Continued)

Analysis Batch: 660231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-3 MS	G20S	Total/NA	Water	SM 2540C	
500-217628-3 DU	G20S	Total/NA	Water	SM 2540C	
500-217628-4 DU	R08S	Total/NA	Water	SM 2540C	

Analysis Batch: 660327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total/NA	Water	SM 4500 CI- E	
500-217628-3	G20S	Total/NA	Water	SM 4500 CI- E	
500-217628-4	R08S	Total/NA	Water	SM 4500 CI- E	
500-217628-5	R08S DUP	Total/NA	Water	SM 4500 CI- E	
MB 500-660327/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-660327/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-217628-1 MS	G33S	Total/NA	Water	SM 4500 CI- E	
500-217628-1 MSD	G33S	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 660353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total/NA	Water	SM 4500 SO4 E	
500-217628-3	G20S	Total/NA	Water	SM 4500 SO4 E	
500-217628-4	R08S	Total/NA	Water	SM 4500 SO4 E	
500-217628-5	R08S DUP	Total/NA	Water	SM 4500 SO4 E	
MB 500-660353/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-660353/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-217628-1 MS	G33S	Total/NA	Water	SM 4500 SO4 E	
500-217628-1 MSD	G33S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 660435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-6	T09S	Total/NA	Water	SM 2540C	
MB 500-660435/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-660435/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-217628-6 DU	T09S	Total/NA	Water	SM 2540C	

Analysis Batch: 660642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-7	G44S	Total/NA	Water	SM 2540C	
500-217628-8	G46S	Total/NA	Water	SM 2540C	
500-217628-9	G48S	Total/NA	Water	SM 2540C	
500-217628-10	G47S	Total/NA	Water	SM 2540C	
MB 500-660642/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-660642/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-217628-7 MS	G44S	Total/NA	Water	SM 2540C	
500-217628-7 DU	G44S	Total/NA	Water	SM 2540C	
500-217628-8 DU	G46S	Total/NA	Water	SM 2540C	

Analysis Batch: 660740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-6	T09S	Total/NA	Water	SM 4500 CI- E	
500-217628-7	G44S	Total/NA	Water	SM 4500 CI- E	
500-217628-8	G46S	Total/NA	Water	SM 4500 CI- E	
500-217628-9	G48S	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

General Chemistry (Continued)

Analysis Batch: 660740 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-10	G47S	Total/NA	Water	SM 4500 CI- E	
MB 500-660740/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-660740/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 660850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-11	G30S	Total/NA	GW	SM 2540C	
500-217628-12	R32S	Total/NA	GW	SM 2540C	
500-217628-13	G45S	Total/NA	GW	SM 2540C	
500-217628-14	G31S	Total/NA	Water	SM 2540C	
MB 500-660850/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-660850/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-217628-11 MS	G30S	Total/NA	GW	SM 2540C	
500-217628-11 DU	G30S	Total/NA	GW	SM 2540C	
500-217628-12 DU	R32S	Total/NA	GW	SM 2540C	

Analysis Batch: 660955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-6	T09S	Total/NA	Water	SM 4500 SO4 E	
500-217628-7	G44S	Total/NA	Water	SM 4500 SO4 E	
500-217628-8	G46S	Total/NA	Water	SM 4500 SO4 E	
500-217628-9	G48S	Total/NA	Water	SM 4500 SO4 E	
500-217628-10	G47S	Total/NA	Water	SM 4500 SO4 E	
500-217628-11	G30S	Total/NA	GW	SM 4500 SO4 E	
500-217628-12	R32S	Total/NA	GW	SM 4500 SO4 E	
500-217628-13	G45S	Total/NA	GW	SM 4500 SO4 E	
500-217628-14	G31S	Total/NA	Water	SM 4500 SO4 E	
MB 500-660955/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-660955/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-217628-7 MS	G44S	Total/NA	Water	SM 4500 SO4 E	
500-217628-7 MSD	G44S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 660998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-11	G30S	Total/NA	GW	SM 4500 CI- E	
500-217628-12	R32S	Total/NA	GW	SM 4500 CI- E	
500-217628-13	G45S	Total/NA	GW	SM 4500 CI- E	
500-217628-14	G31S	Total/NA	Water	SM 4500 CI- E	
MB 500-660998/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-660998/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-217628-12 MS	R32S	Total/NA	GW	SM 4500 CI- E	
500-217628-12 MSD	R32S	Total/NA	GW	SM 4500 CI- E	

Analysis Batch: 661021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total/NA	Water	SM 2540C	
500-217628-16	T05S	Total/NA	Water	SM 2540C	
500-217628-17	T03S	Total/NA	Water	SM 2540C	
MB 500-661021/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-661021/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-217628-15 MS	T06S	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

General Chemistry (Continued)

Analysis Batch: 661021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15 DU	T06S	Total/NA	Water	SM 2540C	

Analysis Batch: 661064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total/NA	Water	SM 4500 F C	
500-217628-3	G20S	Total/NA	Water	SM 4500 F C	
500-217628-4	R08S	Total/NA	Water	SM 4500 F C	
500-217628-5	R08S DUP	Total/NA	Water	SM 4500 F C	
500-217628-6	T09S	Total/NA	Water	SM 4500 F C	
500-217628-7	G44S	Total/NA	Water	SM 4500 F C	
500-217628-8	G46S	Total/NA	Water	SM 4500 F C	
500-217628-9	G48S	Total/NA	Water	SM 4500 F C	
500-217628-10	G47S	Total/NA	Water	SM 4500 F C	
500-217628-11	G30S	Total/NA	GW	SM 4500 F C	
500-217628-12	R32S	Total/NA	GW	SM 4500 F C	
500-217628-13	G45S	Total/NA	GW	SM 4500 F C	
500-217628-14	G31S	Total/NA	Water	SM 4500 F C	
MB 500-661064/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-661064/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-661064/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-661064/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-217628-8 MS	G46S	Total/NA	Water	SM 4500 F C	
500-217628-8 MSD	G46S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 661164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total/NA	Water	SM 4500 SO4 E	
500-217628-16	T05S	Total/NA	Water	SM 4500 SO4 E	
500-217628-17	T03S	Total/NA	Water	SM 4500 SO4 E	
MB 500-661164/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-661164/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-217628-15 MS	T06S	Total/NA	Water	SM 4500 SO4 E	
500-217628-15 MSD	T06S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 661281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total/NA	Water	SM 4500 Cl- E	
500-217628-16	T05S	Total/NA	Water	SM 4500 Cl- E	
500-217628-17	T03S	Total/NA	Water	SM 4500 Cl- E	
500-217628-18	T01S	Total/NA	Water	SM 4500 Cl- E	
500-217628-19	T02S	Total/NA	Water	SM 4500 Cl- E	
MB 500-661281/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-661281/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-217628-15 MS	T06S	Total/NA	Water	SM 4500 Cl- E	
500-217628-15 MSD	T06S	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 661302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-18	T01S	Total/NA	Water	SM 4500 SO4 E	
500-217628-19	T02S	Total/NA	Water	SM 4500 SO4 E	
MB 500-661302/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

General Chemistry (Continued)

Analysis Batch: 661302 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-661302/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-217628-18 MS	T01S	Total/NA	Water	SM 4500 SO4 E	
500-217628-18 MSD	T01S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 661584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-18	T01S	Total/NA	Water	SM 2540C	
500-217628-19	T02S	Total/NA	Water	SM 2540C	
MB 500-661584/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-661584/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-217628-18 MS	T01S	Total/NA	Water	SM 2540C	
500-217628-18 DU	T01S	Total/NA	Water	SM 2540C	
500-217628-19 DU	T02S	Total/NA	Water	SM 2540C	

Analysis Batch: 662032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total/NA	Water	SM 4500 F C	
500-217628-16	T05S	Total/NA	Water	SM 4500 F C	
500-217628-17	T03S	Total/NA	Water	SM 4500 F C	
500-217628-18	T01S	Total/NA	Water	SM 4500 F C	
500-217628-19	T02S	Total/NA	Water	SM 4500 F C	
MB 500-662032/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-662032/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-217628-19 MS	T02S	Total/NA	Water	SM 4500 F C	
500-217628-19 MSD	T02S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 662239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-20	T08S	Total/NA	Water	SM 2540C	
MB 500-662239/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-662239/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-217628-20 MS	T08S	Total/NA	Water	SM 2540C	
500-217628-20 DU	T08S	Total/NA	Water	SM 2540C	

Analysis Batch: 662335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-20	T08S	Total/NA	Water	SM 4500 SO4 E	
MB 500-662335/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-662335/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-217628-20 MS	T08S	Total/NA	Water	SM 4500 SO4 E	
500-217628-20 MSD	T08S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 662364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-20	T08S	Total/NA	Water	SM 4500 Cl- E	
MB 500-662364/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-662364/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-217628-20 MS	T08S	Total/NA	Water	SM 4500 Cl- E	
500-217628-20 MSD	T08S	Total/NA	Water	SM 4500 Cl- E	

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

General Chemistry

Analysis Batch: 662917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-20	T08S	Total/NA	Water	SM 4500 F C	
MB 500-662917/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-662917/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 660066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total/NA	Water	Field Sampling	
500-217628-2	T04S	Total/NA	Water	Field Sampling	
500-217628-3	G20S	Total/NA	Water	Field Sampling	
500-217628-4	R08S	Total/NA	Water	Field Sampling	
500-217628-5	R08S DUP	Total/NA	Water	Field Sampling	
500-217628-6	T09S	Total/NA	Water	Field Sampling	
500-217628-7	G44S	Total/NA	Water	Field Sampling	
500-217628-8	G46S	Total/NA	Water	Field Sampling	
500-217628-9	G48S	Total/NA	Water	Field Sampling	
500-217628-10	G47S	Total/NA	Water	Field Sampling	
500-217628-11	G30S	Total/NA	GW	Field Sampling	
500-217628-12	R32S	Total/NA	GW	Field Sampling	
500-217628-13	G45S	Total/NA	GW	Field Sampling	
500-217628-14	G31S	Total/NA	Water	Field Sampling	
500-217628-15	T06S	Total/NA	Water	Field Sampling	
500-217628-16	T05S	Total/NA	Water	Field Sampling	
500-217628-17	T03S	Total/NA	Water	Field Sampling	
500-217628-18	T01S	Total/NA	Water	Field Sampling	
500-217628-19	T02S	Total/NA	Water	Field Sampling	
500-217628-20	T08S	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-660684/1-A
Matrix: Water
Analysis Batch: 661121

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 660684

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/10/22 08:48	06/13/22 19:42	1
Arsenic	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 19:42	1
Barium	<0.0025		0.0025		mg/L		06/10/22 08:48	06/13/22 19:42	1
Beryllium	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 19:42	1
Cadmium	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 19:42	1
Calcium	<0.20		0.20		mg/L		06/10/22 08:48	06/13/22 19:42	1
Chromium	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 19:42	1
Cobalt	<0.0010		0.0010		mg/L		06/10/22 08:48	06/13/22 19:42	1
Lead	<0.00050		0.00050		mg/L		06/10/22 08:48	06/13/22 19:42	1
Lithium	<0.010		0.010		mg/L		06/10/22 08:48	06/13/22 19:42	1
Molybdenum	<0.0050		0.0050		mg/L		06/10/22 08:48	06/13/22 19:42	1
Selenium	<0.0025		0.0025		mg/L		06/10/22 08:48	06/13/22 19:42	1
Thallium	<0.0020		0.0020		mg/L		06/10/22 08:48	06/13/22 19:42	1

Lab Sample ID: MB 500-660684/1-A
Matrix: Water
Analysis Batch: 661307

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 660684

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		06/10/22 08:48	06/14/22 17:59	1

Lab Sample ID: LCS 500-660684/2-A
Matrix: Water
Analysis Batch: 661121

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 660684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0911		mg/L		91	80 - 120
Barium	2.00	1.96		mg/L		98	80 - 120
Beryllium	0.0500	0.0480		mg/L		96	80 - 120
Cadmium	0.0500	0.0470		mg/L		94	80 - 120
Calcium	10.0	9.83		mg/L		98	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.501		mg/L		100	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.500	0.503		mg/L		101	80 - 120
Molybdenum	1.00	0.914		mg/L		91	80 - 120
Selenium	0.100	0.0933		mg/L		93	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LCS 500-660684/2-A
Matrix: Water
Analysis Batch: 661307

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 660684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-660855/1-A
Matrix: Water
Analysis Batch: 661121

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 660855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/13/22 07:20	06/13/22 17:35	1
Arsenic	<0.0010		0.0010		mg/L		06/13/22 07:20	06/13/22 17:35	1
Barium	<0.0025		0.0025		mg/L		06/13/22 07:20	06/13/22 17:35	1
Beryllium	<0.0010		0.0010		mg/L		06/13/22 07:20	06/13/22 17:35	1
Cadmium	<0.00050		0.00050		mg/L		06/13/22 07:20	06/13/22 17:35	1
Calcium	<0.20		0.20		mg/L		06/13/22 07:20	06/13/22 17:35	1
Chromium	<0.0050		0.0050		mg/L		06/13/22 07:20	06/13/22 17:35	1
Cobalt	<0.0010		0.0010		mg/L		06/13/22 07:20	06/13/22 17:35	1
Lead	<0.00050		0.00050		mg/L		06/13/22 07:20	06/13/22 17:35	1
Lithium	<0.010		0.010		mg/L		06/13/22 07:20	06/13/22 17:35	1
Molybdenum	<0.0050		0.0050		mg/L		06/13/22 07:20	06/13/22 17:35	1
Selenium	<0.0025		0.0025		mg/L		06/13/22 07:20	06/13/22 17:35	1
Thallium	<0.0020		0.0020		mg/L		06/13/22 07:20	06/13/22 17:35	1

Lab Sample ID: MB 500-660855/1-A
Matrix: Water
Analysis Batch: 661300

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 660855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		06/13/22 07:20	06/14/22 16:06	1

Lab Sample ID: LCS 500-660855/2-A
Matrix: Water
Analysis Batch: 661121

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 660855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.473		mg/L		95	80 - 120
Arsenic	0.100	0.0974		mg/L		97	80 - 120
Barium	0.500	0.496		mg/L		99	80 - 120
Beryllium	0.0500	0.0516		mg/L		103	80 - 120
Cadmium	0.0500	0.0480		mg/L		96	80 - 120
Calcium	10.0	9.95		mg/L		99	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.492		mg/L		98	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Lithium	0.100	0.108		mg/L		108	80 - 120
Molybdenum	1.00	0.919		mg/L		92	80 - 120
Selenium	0.100	0.0978		mg/L		98	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LCS 500-660855/2-A
Matrix: Water
Analysis Batch: 661300

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 660855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.916		mg/L		92	80 - 120

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-661080/1-A
Matrix: Water
Analysis Batch: 661307

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 661080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/14/22 08:53	06/14/22 19:59	1
Arsenic	<0.0010		0.0010		mg/L		06/14/22 08:53	06/14/22 19:59	1
Barium	<0.0025		0.0025		mg/L		06/14/22 08:53	06/14/22 19:59	1
Beryllium	<0.0010		0.0010		mg/L		06/14/22 08:53	06/14/22 19:59	1
Cadmium	<0.00050		0.00050		mg/L		06/14/22 08:53	06/14/22 19:59	1
Calcium	<0.20		0.20		mg/L		06/14/22 08:53	06/14/22 19:59	1
Lead	<0.00050		0.00050		mg/L		06/14/22 08:53	06/14/22 19:59	1
Lithium	<0.010		0.010		mg/L		06/14/22 08:53	06/14/22 19:59	1
Selenium	<0.0025		0.0025		mg/L		06/14/22 08:53	06/14/22 19:59	1
Thallium	<0.0020		0.0020		mg/L		06/14/22 08:53	06/14/22 19:59	1

Lab Sample ID: LCS 500-661080/2-A
Matrix: Water
Analysis Batch: 661307

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 661080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.488		mg/L		98	80 - 120
Arsenic	0.100	0.0996		mg/L		100	80 - 120
Barium	0.500	0.506		mg/L		101	80 - 120
Beryllium	0.0500	0.0517		mg/L		103	80 - 120
Cadmium	0.0500	0.0500		mg/L		100	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Lithium	0.100	0.108		mg/L		108	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: MB 500-661262/1-A
Matrix: Water
Analysis Batch: 661710

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 661262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/15/22 08:37	06/16/22 16:45	1
Arsenic	<0.0010		0.0010		mg/L		06/15/22 08:37	06/16/22 16:45	1
Barium	<0.0025		0.0025		mg/L		06/15/22 08:37	06/16/22 16:45	1
Beryllium	<0.0010		0.0010		mg/L		06/15/22 08:37	06/16/22 16:45	1
Cadmium	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 16:45	1
Calcium	<0.20		0.20		mg/L		06/15/22 08:37	06/16/22 16:45	1
Lead	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 16:45	1
Lithium	<0.010		0.010		mg/L		06/15/22 08:37	06/16/22 16:45	1
Selenium	<0.0025		0.0025		mg/L		06/15/22 08:37	06/16/22 16:45	1
Thallium	<0.0020		0.0020		mg/L		06/15/22 08:37	06/16/22 16:45	1

Lab Sample ID: LCS 500-661262/2-A
Matrix: Water
Analysis Batch: 661710

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 661262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.496		mg/L		99	80 - 120

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-661262/2-A
Matrix: Water
Analysis Batch: 661710

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 661262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0979		mg/L		98	80 - 120
Barium	0.500	0.495		mg/L		99	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	10.0	9.93		mg/L		99	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.100	0.104		mg/L		104	80 - 120
Selenium	0.100	0.0988		mg/L		99	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: MB 500-661434/1-A
Matrix: Water
Analysis Batch: 661953

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 661434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0050		0.0050		mg/L		06/16/22 07:56	06/17/22 14:26	1
Cobalt	<0.0010		0.0010		mg/L		06/16/22 07:56	06/17/22 14:26	1
Molybdenum	<0.0050		0.0050		mg/L		06/16/22 07:56	06/17/22 14:26	1

Lab Sample ID: MB 500-661434/1-A
Matrix: Water
Analysis Batch: 662010

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 661434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		06/16/22 07:56	06/20/22 11:51	1

Lab Sample ID: LCS 500-661434/2-A
Matrix: Water
Analysis Batch: 661953

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 661434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Molybdenum	1.00	0.938		mg/L		94	80 - 120

Lab Sample ID: LCS 500-661434/2-A
Matrix: Water
Analysis Batch: 662010

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 661434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.931		mg/L		93	80 - 120

Lab Sample ID: MB 500-661901/1-A
Matrix: Water
Analysis Batch: 662363

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 661901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0050		0.0050		mg/L		06/20/22 08:13	06/20/22 17:11	1
Cobalt	<0.0010		0.0010		mg/L		06/20/22 08:13	06/20/22 17:11	1
Molybdenum	<0.0050		0.0050		mg/L		06/20/22 08:13	06/20/22 17:11	1

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-661901/1-A
Matrix: Water
Analysis Batch: 662557

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 661901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050	^+	0.050		mg/L		06/20/22 08:13	06/22/22 13:46	1

Lab Sample ID: LCS 500-661901/2-A
Matrix: Water
Analysis Batch: 662363

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 661901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.509		mg/L		102	80 - 120
Molybdenum	1.00	0.932		mg/L		93	80 - 120

Lab Sample ID: LCS 500-661901/2-A
Matrix: Water
Analysis Batch: 662557

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 661901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.07	^+	mg/L		107	80 - 120

Lab Sample ID: MB 500-662301/1-A
Matrix: Water
Analysis Batch: 662558

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 662301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/22/22 08:53	06/22/22 18:45	1
Arsenic	<0.0010		0.0010		mg/L		06/22/22 08:53	06/22/22 18:45	1
Barium	<0.0025		0.0025		mg/L		06/22/22 08:53	06/22/22 18:45	1
Beryllium	<0.0010		0.0010		mg/L		06/22/22 08:53	06/22/22 18:45	1
Cadmium	<0.00050		0.00050		mg/L		06/22/22 08:53	06/22/22 18:45	1
Calcium	<0.20		0.20		mg/L		06/22/22 08:53	06/22/22 18:45	1
Chromium	<0.0050		0.0050		mg/L		06/22/22 08:53	06/22/22 18:45	1
Cobalt	<0.0010		0.0010		mg/L		06/22/22 08:53	06/22/22 18:45	1
Lead	<0.00050		0.00050		mg/L		06/22/22 08:53	06/22/22 18:45	1
Lithium	<0.010		0.010		mg/L		06/22/22 08:53	06/22/22 18:45	1
Molybdenum	<0.0050		0.0050		mg/L		06/22/22 08:53	06/22/22 18:45	1
Selenium	<0.0025		0.0025		mg/L		06/22/22 08:53	06/22/22 18:45	1
Thallium	<0.0020		0.0020		mg/L		06/22/22 08:53	06/22/22 18:45	1

Lab Sample ID: MB 500-662301/1-A
Matrix: Water
Analysis Batch: 662743

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 662301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		06/22/22 08:53	06/23/22 18:20	1

Lab Sample ID: LCS 500-662301/2-A
Matrix: Water
Analysis Batch: 662558

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 662301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.510		mg/L		102	80 - 120

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-662301/2-A
Matrix: Water
Analysis Batch: 662558

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 662301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0971		mg/L		97	80 - 120
Barium	2.00	1.91		mg/L		95	80 - 120
Beryllium	0.0500	0.0497		mg/L		99	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Calcium	10.0	9.64		mg/L		96	80 - 120
Chromium	0.200	0.205		mg/L		102	80 - 120
Cobalt	0.500	0.522		mg/L		104	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Lithium	0.500	0.474		mg/L		95	80 - 120
Molybdenum	1.00	0.953		mg/L		95	80 - 120
Selenium	0.100	0.0971		mg/L		97	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: LCS 500-662301/2-A
Matrix: Water
Analysis Batch: 662743

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 662301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.512		mg/L		102	80 - 120
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	2.00	2.02		mg/L		101	80 - 120
Beryllium	0.0500	0.0436		mg/L		87	80 - 120
Boron	1.00	1.01		mg/L		101	80 - 120
Cadmium	0.0500	0.0504		mg/L		101	80 - 120
Calcium	10.0	8.76		mg/L		88	80 - 120
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.511		mg/L		102	80 - 120
Lithium	0.500	0.476		mg/L		95	80 - 120
Molybdenum	1.00	0.951		mg/L		95	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-660739/12-A
Matrix: Water
Analysis Batch: 660947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/10/22 11:15	06/13/22 09:16	1

Lab Sample ID: LCS 500-660739/13-A
Matrix: Water
Analysis Batch: 660947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00203		mg/L		102	80 - 120

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 500-217628-3 MS
Matrix: Water
Analysis Batch: 660947

Client Sample ID: G20S
Prep Type: Total/NA
Prep Batch: 660739

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000931		mg/L		93	75 - 125

Lab Sample ID: 500-217628-3 MSD
Matrix: Water
Analysis Batch: 660947

Client Sample ID: G20S
Prep Type: Total/NA
Prep Batch: 660739

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.000904		mg/L		90	75 - 125	3	20

Lab Sample ID: 500-217628-3 DU
Matrix: Water
Analysis Batch: 660947

Client Sample ID: G20S
Prep Type: Total/NA
Prep Batch: 660739

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Lab Sample ID: MB 500-661136/13-A
Matrix: Water
Analysis Batch: 661339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/22 11:20	06/15/22 08:44	1

Lab Sample ID: LCS 500-661136/12-A
Matrix: Water
Analysis Batch: 661339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00215		mg/L		108	80 - 120

Lab Sample ID: 500-217628-11 MS
Matrix: GW
Analysis Batch: 661339

Client Sample ID: G30S
Prep Type: Total/NA
Prep Batch: 661136

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000950		mg/L		95	75 - 125

Lab Sample ID: 500-217628-11 MSD
Matrix: GW
Analysis Batch: 661339

Client Sample ID: G30S
Prep Type: Total/NA
Prep Batch: 661136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.000974		mg/L		97	75 - 125	2	20

Lab Sample ID: 500-217628-11 DU
Matrix: GW
Analysis Batch: 661339

Client Sample ID: G30S
Prep Type: Total/NA
Prep Batch: 661136

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-661309/13-A
Matrix: Water
Analysis Batch: 661501

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/15/22 11:00	06/16/22 07:53	1

Lab Sample ID: LCS 500-661309/12-A
Matrix: Water
Analysis Batch: 661501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00210		mg/L		105	80 - 120

Lab Sample ID: MB 500-662349/12-A
Matrix: Water
Analysis Batch: 662560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 662349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/22/22 10:55	06/23/22 07:26	1

Lab Sample ID: LCS 500-662349/13-A
Matrix: Water
Analysis Batch: 662560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 662349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00217		mg/L		109	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-660040/1
Matrix: Water
Analysis Batch: 660040

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/07/22 02:19	1

Lab Sample ID: LCS 500-660040/2
Matrix: Water
Analysis Batch: 660040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	274		mg/L		110	80 - 120

Lab Sample ID: MB 500-660231/1
Matrix: Water
Analysis Batch: 660231

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/08/22 01:43	1

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 500-660231/2
Matrix: Water
Analysis Batch: 660231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	266		mg/L		106	80 - 120

Lab Sample ID: 500-217628-3 MS
Matrix: Water
Analysis Batch: 660231

Client Sample ID: G20S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	400		250	700		mg/L		120	75 - 125

Lab Sample ID: 500-217628-3 DU
Matrix: Water
Analysis Batch: 660231

Client Sample ID: G20S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	400		380		mg/L		5	5

Lab Sample ID: 500-217628-4 DU
Matrix: Water
Analysis Batch: 660231

Client Sample ID: R08S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	800		796		mg/L		0.3	5

Lab Sample ID: MB 500-660435/1
Matrix: Water
Analysis Batch: 660435

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/09/22 03:23	1

Lab Sample ID: LCS 500-660435/2
Matrix: Water
Analysis Batch: 660435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	272		mg/L		109	80 - 120

Lab Sample ID: 500-217628-6 DU
Matrix: Water
Analysis Batch: 660435

Client Sample ID: T09S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	970		958		mg/L		2	5

Lab Sample ID: MB 500-660642/1
Matrix: Water
Analysis Batch: 660642

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/10/22 02:17	1

Euofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 500-660642/2
Matrix: Water
Analysis Batch: 660642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	270		mg/L		108	80 - 120

Lab Sample ID: 500-217628-7 MS
Matrix: Water
Analysis Batch: 660642

Client Sample ID: G44S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	730		250	1010		mg/L		111	75 - 125

Lab Sample ID: 500-217628-7 DU
Matrix: Water
Analysis Batch: 660642

Client Sample ID: G44S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	730		706		mg/L		4	5

Lab Sample ID: 500-217628-8 DU
Matrix: Water
Analysis Batch: 660642

Client Sample ID: G46S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	930		906		mg/L		2	5

Lab Sample ID: MB 500-660850/1
Matrix: Water
Analysis Batch: 660850

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/13/22 00:41	1

Lab Sample ID: LCS 500-660850/2
Matrix: Water
Analysis Batch: 660850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

Lab Sample ID: 500-217628-11 MS
Matrix: GW
Analysis Batch: 660850

Client Sample ID: G30S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1200		250	1490	4	mg/L		109	75 - 125

Lab Sample ID: 500-217628-11 DU
Matrix: GW
Analysis Batch: 660850

Client Sample ID: G30S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1200		1240		mg/L		2	5

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: 500-217628-12 DU
Matrix: GW
Analysis Batch: 660850

Client Sample ID: R32S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	880		894		mg/L		2	5

Lab Sample ID: MB 500-661021/1
Matrix: Water
Analysis Batch: 661021

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/14/22 00:57	1

Lab Sample ID: LCS 500-661021/2
Matrix: Water
Analysis Batch: 661021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	272		mg/L		109	80 - 120

Lab Sample ID: 500-217628-15 MS
Matrix: Water
Analysis Batch: 661021

Client Sample ID: T06S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	530		250	822		mg/L		118	75 - 125

Lab Sample ID: 500-217628-15 DU
Matrix: Water
Analysis Batch: 661021

Client Sample ID: T06S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	530		542		mg/L		3	5

Lab Sample ID: MB 500-661584/1
Matrix: Water
Analysis Batch: 661584

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/17/22 03:29	1

Lab Sample ID: LCS 500-661584/2
Matrix: Water
Analysis Batch: 661584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	270		mg/L		108	80 - 120

Lab Sample ID: 500-217628-18 MS
Matrix: Water
Analysis Batch: 661584

Client Sample ID: T01S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	990		250	1230		mg/L		96	75 - 125

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: 500-217628-18 DU
Matrix: Water
Analysis Batch: 661584

Client Sample ID: T01S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	990		952		mg/L		4	5

Lab Sample ID: 500-217628-19 DU
Matrix: Water
Analysis Batch: 661584

Client Sample ID: T02S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	830		836		mg/L		0.7	5

Lab Sample ID: MB 500-662239/1
Matrix: Water
Analysis Batch: 662239

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/22/22 00:50	1

Lab Sample ID: LCS 500-662239/2
Matrix: Water
Analysis Batch: 662239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	252		mg/L		101	80 - 120

Lab Sample ID: 500-217628-20 MS
Matrix: Water
Analysis Batch: 662239

Client Sample ID: T08S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	970		250	1270		mg/L		123	75 - 125

Lab Sample ID: 500-217628-20 DU
Matrix: Water
Analysis Batch: 662239

Client Sample ID: T08S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	970		944		mg/L		2	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-660327/16
Matrix: Water
Analysis Batch: 660327

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/08/22 10:47	1

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 500-660327/17
Matrix: Water
Analysis Batch: 660327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.0		mg/L		100	85 - 115

Lab Sample ID: 500-217628-1 MS
Matrix: Water
Analysis Batch: 660327

Client Sample ID: G33S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12		20.0	31.0		mg/L		96	75 - 125

Lab Sample ID: 500-217628-1 MSD
Matrix: Water
Analysis Batch: 660327

Client Sample ID: G33S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12		20.0	30.8		mg/L		95	75 - 125	1	20

Lab Sample ID: MB 500-660740/16
Matrix: Water
Analysis Batch: 660740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/10/22 09:27	1

Lab Sample ID: LCS 500-660740/17
Matrix: Water
Analysis Batch: 660740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.1		mg/L		100	85 - 115

Lab Sample ID: MB 500-660998/16
Matrix: Water
Analysis Batch: 660998

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/13/22 12:06	1

Lab Sample ID: LCS 500-660998/17
Matrix: Water
Analysis Batch: 660998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.1		mg/L		101	85 - 115

Lab Sample ID: 500-217628-12 MS
Matrix: GW
Analysis Batch: 660998

Client Sample ID: R32S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	54		20.0	73.3		mg/L		95	75 - 125

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: 500-217628-12 MSD
Matrix: GW
Analysis Batch: 660998

Client Sample ID: R32S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	54		20.0	73.3		mg/L		96	75 - 125	0	20

Lab Sample ID: MB 500-661281/16
Matrix: Water
Analysis Batch: 661281

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/15/22 08:38	1

Lab Sample ID: LCS 500-661281/17
Matrix: Water
Analysis Batch: 661281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.4		mg/L		102	85 - 115

Lab Sample ID: 500-217628-15 MS
Matrix: Water
Analysis Batch: 661281

Client Sample ID: T06S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14		20.0	33.4		mg/L		97	75 - 125

Lab Sample ID: 500-217628-15 MSD
Matrix: Water
Analysis Batch: 661281

Client Sample ID: T06S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14		20.0	33.4		mg/L		97	75 - 125	0	20

Lab Sample ID: MB 500-662364/16
Matrix: Water
Analysis Batch: 662364

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/22/22 12:02	1

Lab Sample ID: LCS 500-662364/17
Matrix: Water
Analysis Batch: 662364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.7		mg/L		103	85 - 115

Lab Sample ID: 500-217628-20 MS
Matrix: Water
Analysis Batch: 662364

Client Sample ID: T08S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	87		20.0	104	4	mg/L		86	75 - 125

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: 500-217628-20 MSD
 Matrix: Water
 Analysis Batch: 662364

Client Sample ID: T08S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	87		20.0	105	4	mg/L		87	75 - 125	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-661064/3
 Matrix: Water
 Analysis Batch: 661064

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			06/13/22 13:10	1

Lab Sample ID: MB 500-661064/31
 Matrix: Water
 Analysis Batch: 661064

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			06/13/22 14:55	1

Lab Sample ID: LCS 500-661064/32
 Matrix: Water
 Analysis Batch: 661064

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.4		mg/L		104	90 - 119

Lab Sample ID: LCS 500-661064/4
 Matrix: Water
 Analysis Batch: 661064

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.3		mg/L		103	90 - 119

Lab Sample ID: 500-217628-8 MS
 Matrix: Water
 Analysis Batch: 661064

Client Sample ID: G46S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.26		5.00	5.33		mg/L		101	75 - 125

Lab Sample ID: 500-217628-8 MSD
 Matrix: Water
 Analysis Batch: 661064

Client Sample ID: G46S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.26		5.00	5.30		mg/L		101	75 - 125	1	20

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: MB 500-662032/3
Matrix: Water
Analysis Batch: 662032

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			06/20/22 11:55	1

Lab Sample ID: LCS 500-662032/4
Matrix: Water
Analysis Batch: 662032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.7		mg/L		107	90 - 119

Lab Sample ID: 500-217628-19 MS
Matrix: Water
Analysis Batch: 662032

Client Sample ID: T02S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.46		5.00	5.64		mg/L		104	75 - 125

Lab Sample ID: 500-217628-19 MSD
Matrix: Water
Analysis Batch: 662032

Client Sample ID: T02S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.46		5.00	5.61		mg/L		103	75 - 125	1	20

Lab Sample ID: MB 500-662917/3
Matrix: Water
Analysis Batch: 662917

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			06/25/22 14:56	1

Lab Sample ID: LCS 500-662917/4
Matrix: Water
Analysis Batch: 662917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.4		mg/L		104	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-660353/16
Matrix: Water
Analysis Batch: 660353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/08/22 12:56	1

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 500-660353/17
Matrix: Water
Analysis Batch: 660353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.3		mg/L		107	88 - 123

Lab Sample ID: 500-217628-1 MS
Matrix: Water
Analysis Batch: 660353

Client Sample ID: G33S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	69	F1	20.0	82.5	F1	mg/L		66	75 - 125

Lab Sample ID: 500-217628-1 MSD
Matrix: Water
Analysis Batch: 660353

Client Sample ID: G33S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	69	F1	20.0	83.3	F1	mg/L		70	75 - 125	1	20

Lab Sample ID: MB 500-660955/16
Matrix: Water
Analysis Batch: 660955

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/13/22 09:18	1

Lab Sample ID: LCS 500-660955/17
Matrix: Water
Analysis Batch: 660955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.7		mg/L		108	88 - 123

Lab Sample ID: 500-217628-7 MS
Matrix: Water
Analysis Batch: 660955

Client Sample ID: G44S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	160		20.0	176	4	mg/L		72	75 - 125

Lab Sample ID: 500-217628-7 MSD
Matrix: Water
Analysis Batch: 660955

Client Sample ID: G44S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	160		20.0	176	4	mg/L		74	75 - 125	0	20

Lab Sample ID: MB 500-661164/16
Matrix: Water
Analysis Batch: 661164

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/14/22 13:59	1

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: LCS 500-661164/17
Matrix: Water
Analysis Batch: 661164

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.7		mg/L		109	88 - 123

Lab Sample ID: 500-217628-15 MS
Matrix: Water
Analysis Batch: 661164

Client Sample ID: T06S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	130		20.0	146	4	mg/L		90	75 - 125

Lab Sample ID: 500-217628-15 MSD
Matrix: Water
Analysis Batch: 661164

Client Sample ID: T06S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	130		20.0	146	4	mg/L		89	75 - 125	0	20

Lab Sample ID: MB 500-661302/16
Matrix: Water
Analysis Batch: 661302

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/15/22 10:35	1

Lab Sample ID: LCS 500-661302/17
Matrix: Water
Analysis Batch: 661302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.9		mg/L		109	88 - 123

Lab Sample ID: 500-217628-18 MS
Matrix: Water
Analysis Batch: 661302

Client Sample ID: T01S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	420		20.0	423	4	mg/L		40	75 - 125

Lab Sample ID: 500-217628-18 MSD
Matrix: Water
Analysis Batch: 661302

Client Sample ID: T01S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	420		20.0	428	4	mg/L		63	75 - 125	1	20

Lab Sample ID: MB 500-662335/16
Matrix: Water
Analysis Batch: 662335

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/22/22 10:31	1

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: LCS 500-662335/17
Matrix: Water
Analysis Batch: 662335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.2		mg/L		106	88 - 123

Lab Sample ID: 500-217628-20 MS
Matrix: Water
Analysis Batch: 662335

Client Sample ID: T08S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	470	F1	20.0	493	4	mg/L		134	75 - 125

Lab Sample ID: 500-217628-20 MSD
Matrix: Water
Analysis Batch: 662335

Client Sample ID: T08S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	470	F1	20.0	480	4	mg/L		72	75 - 125	3	20

Chain of Custody Record

524009




Environment Testing
TestAmerica

TAL-8210

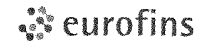
Address: _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact		Date		COC No	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address:		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>metals 14 elements + Hg</i> <i>TDS, FI, CI, SO4</i>		 500-217628 COC		Sampler:	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only	
Phone:		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client <input type="checkbox"/>	
Fax:								Lab Sampling <input type="checkbox"/>	
Project Name <i>Joliet #9 (Quarry) CER</i>								Job / SDG No	
Site <i>GW + Turbidity - 2022</i>									
P O #								<i>500-217628</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>G335</i>		<i>06/06/22</i>	<i>1402</i>		<i>W</i>	<i>5</i>			
<i>T045</i>		<i>06/06/22</i>	<i>1450</i>				<i>well under property development excavation, no samples</i>		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>24</i> Corr'd <i>1.0</i>		Therm ID No			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>06/06/22 @ 1526</i>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received by Laboratory by <i>[Signature]</i>		Company <i>EETA</i> Date/Time <i>06/06/22 1526</i>	

Chain of Custody Record

524010




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager			Site Contact		Date		COC No	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email			Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time			Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FI, Cl, SO4</i>		 500-217628 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							For Lab Use Only	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							Walk-in Client	
Project Name <i>Joliet #9 (Quarry) CCR</i>									Lab Sampling	
Site <i>GW + Turbidity - 2Q 22</i>									Job / SDG No	
P O #							<i>500-217628</i>		Sample Specific Notes	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.					
<i>G205</i>	<i>06/07/22</i>	<i>0719</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	
<i>RO85</i>	<i>06/07/22</i>	<i>1357</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	
<i>RO85 DUP</i>	<i>06/07/22</i>	<i>1357</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other						Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample				
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:										
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No			Cooler Temp (°C) Obs'd <i>3.3</i> → <i>1.9</i>		Corr'd <i>1.9</i>		Therm ID No	
Relinquished by <i>[Signature]</i>		Company: <i>EETA</i>		Date/Time: <i>06/07/22 1524</i>		Received by		Company		Date/Time
Relinquished by		Company:		Date/Time:		Received by		Company		Date/Time:
Relinquished by		Company:		Date/Time:		Received Laboratory by <i>[Signature]</i>		Company: <i>EETA</i>		Date/Time: <i>6/7/22 1524</i>

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Chain of Custody Record

524012




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager		Site Contact		Date		COC No	
Company Name <i>Midwest Correction EMF LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FI, CI, SO4</i>		 500-217628 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client	
Project Name <i>Joliet #9 (Quarry) CCR</i>								Lab Sampling	
Site <i>GW + Turbidity - 2822</i>								Job / SDG No	
P O #								<i>500-217628</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>G445</i>		<i>06/09/22</i>	<i>0947</i>		<i>W</i>	<i>5</i>			
<i>G465</i>		<i>06/09/22</i>	<i>1046</i>		<i>W</i>	<i>5</i>			
<i>G485</i>		<i>06/09/22</i>	<i>1238</i>		<i>W</i>	<i>5</i>			
<i>G470</i>		<i>06/09/22</i>	<i>1358</i>		<i>W</i>	<i>5</i>			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>4.3</i> Corr'd <i>2.9</i>		Therm ID No _____			
Relinquished by: <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>06/09/22 1513</i>		Received by:		Company	
Relinquished by:		Company		Date/Time		Received by:		Company	
Relinquished by:		Company		Date/Time		Received in Laboratory by: <i>[Signature]</i>		Company <i>EETA</i> Date/Time <i>6/9/22 1513</i>	

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Chain of Custody Record

524014



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager			Site Contact			Date		COC No	
Company Name: <i>Midwest Generation EME LLC</i>		Tel/Email			Lab Contact			Carrier		_____ of _____ COCs	
Address:		Analysis Turnaround Time									
City/State/Zip: <i>Sollet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____									
Phone:		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day									
Fax:		 500-217628 COC									
Project Name: <i>Sollet #9 (Quarry) UCR</i>											
Site: <i>GW + Turbidity - 2Q22</i>											
P O #											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes		
15 16 17		<i>T06S</i>	<i>06/13/22</i>	<i>0935</i>	<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals: 14 elements + Hg</i> <i>TDS, FI, CI, SDI</i>	
		<i>T05S</i>	<i>06/13/22</i>	<i>1123</i>	<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>		
		<i>T03S</i>	<i>06/13/22</i>	<i>1350</i>	<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>		
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No. _____			Cooler Temp (°C) Obs'd <i>4.4</i> Corr'd <i>3.0</i>			Therm ID No _____			
Relinquished by: <i>[Signature]</i>		Company: <i>EETA</i>		Date/Time: <i>06/13/22 e 1500</i>		Received by: _____		Company: _____		Date/Time: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received by: _____		Company: _____		Date/Time: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received by: <i>[Signature]</i>		Company: <i>EETA</i>		Date/Time: <i>6/13/22 1500</i>	

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-217628-1

Login Number: 217628

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0,1.9,1.0,2.9,4.4,3.0,2.9,1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G33S

Lab Sample ID: 500-217628-1

Date Collected: 06/06/22 14:02

Matrix: Water

Date Received: 06/06/22 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 20:07	FXG	TAL CHI
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	661307	06/14/22 18:06	FXG	TAL CHI
Total/NA	Prep	7470A			660739	06/10/22 11:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	660947	06/13/22 09:37	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660040	06/07/22 03:18	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	660327	06/08/22 10:47	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 14:21	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	660353	06/08/22 12:57	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/06/22 14:02	JVB	TAL CHI

Client Sample ID: T04S

Lab Sample ID: 500-217628-2

Date Collected: 06/06/22 14:50

Matrix: Water

Date Received: 06/06/22 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	660066	06/06/22 14:50	JVB	TAL CHI

Client Sample ID: G20S

Lab Sample ID: 500-217628-3

Date Collected: 06/07/22 09:19

Matrix: Water

Date Received: 06/07/22 15:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 20:10	FXG	TAL CHI
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	661307	06/14/22 18:10	FXG	TAL CHI
Total/NA	Prep	7470A			660739	06/10/22 11:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	660947	06/13/22 09:40	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660231	06/08/22 01:48	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	660327	06/08/22 10:48	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 14:24	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	660353	06/08/22 12:58	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/07/22 09:19	JVB	TAL CHI

Client Sample ID: R08S

Lab Sample ID: 500-217628-4

Date Collected: 06/07/22 13:57

Matrix: Water

Date Received: 06/07/22 15:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 20:20	FXG	TAL CHI

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: R08S

Lab Sample ID: 500-217628-4

Date Collected: 06/07/22 13:57

Matrix: Water

Date Received: 06/07/22 15:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	661307	06/14/22 18:13	FXG	TAL CHI
Total/NA	Prep	7470A			660739	06/10/22 11:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	660947	06/13/22 09:52	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660231	06/08/22 01:55	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	660327	06/08/22 10:48	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 14:38	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	660353	06/08/22 12:58	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/07/22 13:57	JVB	TAL CHI

Client Sample ID: R08S DUP

Lab Sample ID: 500-217628-5

Date Collected: 06/07/22 13:57

Matrix: Water

Date Received: 06/07/22 15:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 20:24	FXG	TAL CHI
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	661307	06/14/22 18:17	FXG	TAL CHI
Total/NA	Prep	7470A			660739	06/10/22 11:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	660947	06/13/22 09:54	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660231	06/08/22 02:00	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	660327	06/08/22 11:01	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 14:42	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	660353	06/08/22 14:26	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/07/22 13:57	JVB	TAL CHI

Client Sample ID: T09S

Lab Sample ID: 500-217628-6

Date Collected: 06/08/22 09:08

Matrix: Water

Date Received: 06/08/22 11:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 20:27	FXG	TAL CHI
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	661307	06/14/22 18:20	FXG	TAL CHI
Total/NA	Prep	7470A			660739	06/10/22 11:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	660947	06/13/22 09:56	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660435	06/09/22 03:35	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660740	06/10/22 09:29	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 14:45	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	660955	06/13/22 09:20	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/08/22 09:08	JVB	TAL CHI

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G44S

Lab Sample ID: 500-217628-7

Date Collected: 06/09/22 09:47

Matrix: Water

Date Received: 06/09/22 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 20:31	FXG	TAL CHI
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	661307	06/14/22 18:23	FXG	TAL CHI
Total/NA	Prep	7470A			660739	06/10/22 11:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	660947	06/13/22 09:59	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660642	06/10/22 02:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660740	06/10/22 09:29	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 14:48	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	660955	06/13/22 09:19	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/09/22 09:47	JVB	TAL CHI

Client Sample ID: G46S

Lab Sample ID: 500-217628-8

Date Collected: 06/09/22 10:46

Matrix: Water

Date Received: 06/09/22 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 20:34	FXG	TAL CHI
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	661307	06/14/22 18:27	FXG	TAL CHI
Total/NA	Prep	7470A			660739	06/10/22 11:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	660947	06/13/22 10:01	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660642	06/10/22 02:29	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660740	06/10/22 09:30	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 15:00	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	660955	06/13/22 09:20	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/09/22 10:46	JVB	TAL CHI

Client Sample ID: G48S

Lab Sample ID: 500-217628-9

Date Collected: 06/09/22 12:38

Matrix: Water

Date Received: 06/09/22 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 20:38	FXG	TAL CHI
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	661307	06/14/22 18:30	FXG	TAL CHI
Total/NA	Prep	7470A			660739	06/10/22 11:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	660947	06/13/22 10:03	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660642	06/10/22 02:35	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660740	06/10/22 09:30	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 15:09	EAT	TAL CHI

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: G48S

Lab Sample ID: 500-217628-9

Date Collected: 06/09/22 12:38

Matrix: Water

Date Received: 06/09/22 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		20	660955	06/13/22 09:21	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/09/22 12:38	JVB	TAL CHI

Client Sample ID: G47S

Lab Sample ID: 500-217628-10

Date Collected: 06/09/22 13:58

Matrix: Water

Date Received: 06/09/22 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 20:41	FXG	TAL CHI
Total Recoverable	Prep	3005A			660684	06/10/22 08:48	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	661307	06/14/22 18:41	FXG	TAL CHI
Total/NA	Prep	7470A			660739	06/10/22 11:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	660947	06/13/22 10:05	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660642	06/10/22 02:37	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660740	06/10/22 09:31	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 15:22	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	660955	06/13/22 09:21	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/09/22 13:58	JVB	TAL CHI

Client Sample ID: G30S

Lab Sample ID: 500-217628-11

Date Collected: 06/10/22 09:28

Matrix: GW

Date Received: 06/10/22 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660855	06/13/22 07:20	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 17:42	FXG	TAL CHI
Total Recoverable	Prep	3005A			660855	06/13/22 07:20	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	661300	06/14/22 16:13	FXG	TAL CHI
Total/NA	Prep	7470A			661136	06/14/22 11:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	661339	06/15/22 08:57	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660850	06/13/22 00:46	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660998	06/13/22 12:07	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 15:25	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	660955	06/13/22 09:21	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/10/22 09:28	JVB	TAL CHI

Client Sample ID: R32S

Lab Sample ID: 500-217628-12

Date Collected: 06/10/22 11:19

Matrix: GW

Date Received: 06/10/22 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660855	06/13/22 07:20	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 17:46	FXG	TAL CHI

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: R32S

Lab Sample ID: 500-217628-12

Date Collected: 06/10/22 11:19

Matrix: GW

Date Received: 06/10/22 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660855	06/13/22 07:20	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	661300	06/14/22 16:16	FXG	TAL CHI
Total/NA	Prep	7470A			661136	06/14/22 11:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	661339	06/15/22 09:39	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660850	06/13/22 00:53	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660998	06/13/22 12:06	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 15:29	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	660955	06/13/22 09:38	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/10/22 11:19	JVB	TAL CHI

Client Sample ID: G45S

Lab Sample ID: 500-217628-13

Date Collected: 06/10/22 12:46

Matrix: GW

Date Received: 06/10/22 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660855	06/13/22 07:20	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 17:49	FXG	TAL CHI
Total Recoverable	Prep	3005A			660855	06/13/22 07:20	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661300	06/14/22 16:20	FXG	TAL CHI
Total/NA	Prep	7470A			661136	06/14/22 11:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	661339	06/15/22 09:41	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660850	06/13/22 00:59	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660998	06/13/22 12:08	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 15:32	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	660955	06/13/22 09:38	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/10/22 12:46	JVB	TAL CHI

Client Sample ID: G31S

Lab Sample ID: 500-217628-14

Date Collected: 06/10/22 13:37

Matrix: Water

Date Received: 06/10/22 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660855	06/13/22 07:20	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661121	06/13/22 17:52	FXG	TAL CHI
Total Recoverable	Prep	3005A			660855	06/13/22 07:20	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	661300	06/14/22 16:23	FXG	TAL CHI
Total/NA	Prep	7470A			661136	06/14/22 11:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	661339	06/15/22 09:43	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660850	06/13/22 01:01	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660998	06/13/22 12:08	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	661064	06/13/22 15:35	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	660955	06/13/22 09:39	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/10/22 13:37	JVB	TAL CHI

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: T06S

Lab Sample ID: 500-217628-15

Date Collected: 06/13/22 09:35

Matrix: Water

Date Received: 06/13/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661080	06/14/22 08:53	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661307	06/14/22 21:29	FXG	TAL CHI
Total Recoverable	Prep	3005A			661434	06/16/22 07:56	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661953	06/17/22 16:01	FXG	TAL CHI
Total Recoverable	Prep	3005A			661434	06/16/22 07:56	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	662010	06/20/22 11:57	FXG	TAL CHI
Total/NA	Prep	7470A			661309	06/15/22 11:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	661501	06/16/22 07:55	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661021	06/14/22 01:02	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	661281	06/15/22 08:38	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 12:06	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	661164	06/14/22 14:00	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/13/22 09:35	JVB	TAL CHI

Client Sample ID: T05S

Lab Sample ID: 500-217628-16

Date Collected: 06/13/22 11:23

Matrix: Water

Date Received: 06/13/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661080	06/14/22 08:53	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661307	06/14/22 21:32	FXG	TAL CHI
Total Recoverable	Prep	3005A			661434	06/16/22 07:56	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661953	06/17/22 16:05	FXG	TAL CHI
Total Recoverable	Prep	3005A			661434	06/16/22 07:56	LMB	TAL CHI
Total Recoverable	Analysis	6020A		100	662010	06/20/22 12:01	FXG	TAL CHI
Total/NA	Prep	7470A			661309	06/15/22 11:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	661501	06/16/22 07:57	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661021	06/14/22 01:10	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661281	06/15/22 09:35	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 12:09	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	661164	06/14/22 14:15	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/13/22 11:23	JVB	TAL CHI

Client Sample ID: T03S

Lab Sample ID: 500-217628-17

Date Collected: 06/13/22 13:50

Matrix: Water

Date Received: 06/13/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661080	06/14/22 08:53	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661307	06/14/22 21:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			661434	06/16/22 07:56	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661953	06/17/22 16:08	FXG	TAL CHI
Total Recoverable	Prep	3005A			661434	06/16/22 07:56	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	662010	06/20/22 12:04	FXG	TAL CHI

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: T03S

Lab Sample ID: 500-217628-17

Date Collected: 06/13/22 13:50

Matrix: Water

Date Received: 06/13/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			661309	06/15/22 11:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	661501	06/16/22 07:59	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661021	06/14/22 01:13	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661281	06/15/22 08:39	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 12:12	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661164	06/14/22 14:02	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/13/22 13:50	JVB	TAL CHI

Client Sample ID: T01S

Lab Sample ID: 500-217628-18

Date Collected: 06/14/22 09:42

Matrix: Water

Date Received: 06/14/22 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661262	06/15/22 08:37	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661710	06/16/22 18:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	662363	06/20/22 18:34	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	662557	06/22/22 14:41	FXG	TAL CHI
Total/NA	Prep	7470A			661309	06/15/22 11:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	661501	06/16/22 08:02	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661584	06/17/22 03:34	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661281	06/15/22 08:39	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 12:14	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661302	06/15/22 10:36	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/14/22 09:42	JVB	TAL CHI

Client Sample ID: T02S

Lab Sample ID: 500-217628-19

Date Collected: 06/14/22 12:39

Matrix: Water

Date Received: 06/14/22 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661262	06/15/22 08:37	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661710	06/16/22 18:18	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	662363	06/20/22 18:38	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	662557	06/22/22 14:46	FXG	TAL CHI
Total/NA	Prep	7470A			661309	06/15/22 11:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	661501	06/16/22 08:04	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661584	06/17/22 03:41	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661281	06/15/22 08:39	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 12:18	EAT	TAL CHI

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22

Job ID: 500-217628-1

Client Sample ID: T02S

Lab Sample ID: 500-217628-19

Date Collected: 06/14/22 12:39

Matrix: Water

Date Received: 06/14/22 14:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		10	661302	06/15/22 10:37	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/14/22 12:39	JVB	TAL CHI

Client Sample ID: T08S

Lab Sample ID: 500-217628-20

Date Collected: 06/21/22 09:41

Matrix: Water

Date Received: 06/21/22 11:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662301	06/22/22 08:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	662558	06/22/22 19:33	FXG	TAL CHI
Total Recoverable	Prep	3005A			662301	06/22/22 08:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	662743	06/23/22 18:27	FXG	TAL CHI
Total/NA	Prep	7470A			662349	06/22/22 10:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662560	06/23/22 07:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	662239	06/22/22 00:55	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	662364	06/22/22 12:02	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 15:16	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	662335	06/22/22 10:32	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	660066	06/21/22 09:41	JVB	TAL CHI

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G33S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-1

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/06/22 Start Purge: 1340 End Purge: 1402
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.57

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 1.73 (ft) pH 7.36 7.34 7.34 (std.)
Ref. Measuring Pt. TIC SC 585 570 570 (umhos/cm)
Well Elevation *535.65 (ft./msl) Temp. 17.15 17.09 17.09 (°C)
Water Level 29.44 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 506.21 (ft./msl)
Well Bottom Elevation *452.72 (ft./msl)

COMMENTS

Sample Appearance/Odor: Gray, Slight Turbidity, No Odor
Weather Conditions: 66°F, Rain Showers, S winds e 0-5 mph
Turbidity: 12.6 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 29.44 - 1.73 = 27.71 (ft)
Levels were taken on 06/06/22 @ 1335

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G20S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-27628-3

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/07/22 Start Purge: 0900 End Purge: 0919
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.12

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.78 (ft) pH 7.08 7.07 7.07 (std.)
Ref. Measuring Pt. TIC SC 610 608 608 (umhos/cm)
Well Elevation *580.94 (ft./msl) Temp. 20.85 20.83 20.83 (°C)
Water Level 67.32 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 513.62 (ft./msl)
Well Bottom Elevation *442.28 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 57°F, Cloudy, NE winds e 5-10 mph
Turbidity: 0.50 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 67.32 - 2.78 = 64.54 (ft)
Levels were taken on 06/07/21 @ 0850

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R08S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-4

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump Dedicated (Y/N)
Sampling _____ Bladder Pump Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/07/22 Start Purge: 1335 End Purge: 1357
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.99

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.55 (ft) pH 7.96 7.94 7.94 (std.)
Ref. Measuring Pt. TIC SC 968 961 961 (umhos/cm)
Well Elevation *578.51 (ft./msl) Temp. 14.57 14.58 14.58 (°C)
Water Level 68.20 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 510.31 (ft./msl)
Well Bottom Elevation *453.08 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 69°F, Sunny, NE winds 0-5 mph
Turbidity: 0.23 NTU
Other: *Reference Measurement (Well ID updated 11-25-15)
Depth To Water from L.S. = 68.20 - 2.55 = 65.65 (ft)
Levels were taken on 06/07/22 @ 1330

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R08S Dup
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-5

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: _____ Start Purge: _____ End Purge: _____
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): _____

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.55 (ft) pH _____ (std.)
Ref. Measuring Pt. TIC SC _____ (umhos/cm)
Well Elevation *578.51 (ft./msl) Temp. _____ (°C)
Water Level _____ (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. _____ (ft./msl)
Well Bottom Elevation *453.08 (ft./msl)

COMMENTS

Sample Appearance/Odor: _____
Weather Conditions: _____
Turbidity: _____
Other: *Reference Measurement (Well ID updated 11-25-15)
Depth To Water from L.S. = _____
Levels were taken on _____ @ _____
* Sampled on 06/07/22 @ 1357

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T09S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-10

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump Dedicated (Y/N) (N)
Sampling _____ Bladder Pump Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 06/08/22 Start Purge: 0850 End Purge: 0908
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.58

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.40 (ft) pH 7.30 7.28 7.28 (std.)
Ref. Measuring Pt. TIC SC 1140 1138 1138 (umhos/cm)
Well Elevation * 603.69 (ft./msl) Temp. 15.76 15.77 15.77 (°C)
Water Level 105.08 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 498.61 (ft./msl)
Well Bottom Elevation * 444.80 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 69°F, Cloudy, SE winds @ 10-15 mph
Turbidity: 7.70 NTU
Other: *Reference Measurement (updated 02/19/14)
Depth To Water from L.S. = 105.08 - 2.40 = 102.68 (ft.)
Levels were taken on 06/08/22 @ 0835
* Total Depth: 158.59

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G44S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-7

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/09/22 Start Purge: 0930 End Purge: 0947
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.55

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.18 (ft) pH 7.01 7.02 7.02 (std.)
Ref. Measuring Pt. TIC SC 1016 1010 1010 (umhos/cm)
Well Elevation *586.49 (ft./msl) Temp. 13.94 14.03 14.03 (°C)
Water Level 80.75 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 505.74 (ft./msl)
Well Bottom Elevation *455.11 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 62°F, Partly Cloudy, SW winds 5-10 mph
Turbidity: 0.78 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 80.75 - 2.18 = 78.57 (ft)
Levels were taken on 06/09/22 @ 0925

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G46S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-8

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/09/22 Start Purge: 1030 End Purge: 1046
(2400 Hr. Clock) PL
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.72

MEASUREMENTS

Well Diameter 4.0 (inches) 1st 2nd Final
Stick Up 2.70 (ft) pH 7.31 7.36 7.36 (std.)
Ref. Measuring Pt. TIC SC 1166 1172 1172 (umhos/cm)
Well Elevation *601.34 (ft./msl) Temp. 14.21 14.19 14.19 (°C)
Water Level 103.40 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 497.94 (ft./msl)
Well Bottom Elevation *453.62 (ft./msl)

COMMENTS

Sample Appearance/Odor: Tan, Moderate Turbidity, No Odor
Weather Conditions: 69°F, Sunny, SW winds e 5-10 mph
Turbidity: 6.63 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 103.40 - 2.70 = 100.70 (ft)
Levels were taken on 06/09/22 @ 1025.

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G48S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-9

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/09/22 Start Purge: 1220 End Purge: 1238
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.93

MEASUREMENTS

Well Diameter 4.0 (inches) 1st 2nd Final
Stick Up 2.45 (ft) pH 7.47 7.47 7.47 (std.)
Ref. Measuring Pt. TIC SC 1366 1371 1371 (umhos/cm)
Well Elevation *620.74 (ft./msl) Temp. 17.39 17.36 17.36 (°C)
Water Level 101.51 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 519.23 (ft./msl)

Well Bottom Elevation *468.32 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 73°F, Sunny, W winds 5-10 mph
Turbidity: 0.22 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 101.51 - 2.45 = 99.06 (ft)
Levels were taken on 06/09/22 @ 1215.

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G47S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-10

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/09/22 Start Purge: 1338 End Purge: 1358
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

MEASUREMENTS

Well Diameter 4.0 (inches) 1st 2nd Final
Stick Up 2.50 (ft) pH 8.38 8.39 8.39 (std.)
Ref. Measuring Pt. TIC SC 1346 1353 1353 (umhos/cm)
Well Elevation *612.04 (ft./msl) Temp. 15.48 15.55 15.55 (°C)
Water Level 92.26 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 519.78 (ft./msl)
Well Bottom Elevation *459.84 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 77°F, Partly Cloudy, NW winds 10-15 mph
Turbidity: 0.01 - 0.11 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 92.26 - 2.50 = 89.76 (ft.)
Levels were taken on 06/09/22 @ 1335

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G30S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-11

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/10/22 Start Purge: 0910 End Purge: 0928
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.23

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.31 (ft) pH 7.28 7.29 7.29 (std.)
Ref. Measuring Pt. TIC SC 1640 1640 1640 (umhos/cm)
Well Elevation *524.69 (ft./msl) Temp. 12.95 12.92 12.92 (°C)
Water Level 1.82 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 522.87 (ft./msl)
Well Bottom Elevation *462.58 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 71°F, Fair, Calm winds
Turbidity: 0.16 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 1.82 - 2.31 = -0.49 (ft.)
Levels were taken on 06/10/22 @ 0900

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R32S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-12

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/10/22 Start Purge: 1100 End Purge: 1119
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.98

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.03 (ft) pH 7.25 7.23 7.23 (std.)
Ref. Measuring Pt. TIC SC 882 888 888 (umhos/cm)
Well Elevation *536.91 (ft./msl) Temp. 12.00 12.03 12.03 (°C)
Water Level 20.49 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 516.42 (ft./msl)
Well Bottom Elevation *457.84 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 77°F, Sunny, SW winds @ 0-5 mph
Turbidity: - 0.10 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 20.49 - 2.03 = 18.46 ft
Levels were taken on 06/10/22 @ 1055.

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G45S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-13

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump Dedicated (Y/N)
Sampling _____ Bladder Pump Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/10/22 Start Purge: 1230 End Purge: 1246
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 1.03

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.97 (ft) pH 7.29 7.28 7.28 (std.)
Ref. Measuring Pt. TIC SC 874 873 873 (umhos/cm)
Well Elevation *603.94 (ft./msl) Temp. 18.09 18.12 18.12 (°C)
Water Level 64.07 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 539.87 (ft./msl)
Well Bottom Elevation *471.05 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 76°F, Mostly Cloudy, SW winds e 5-10 mph
Turbidity: 0.03 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 64.07 - 2.97 = 61.10 (ft)
Levels were taken on 06/10/22 @ 1225

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G31S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-14

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/10/22 Start Purge: 1320 End Purge: 1337
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.77

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.58 (ft) pH 7.31 7.29 7.29 (std.)
Ref. Measuring Pt. TIC SC 1419 1413 1413 (umhos/cm)
Well Elevation *535.77 (ft./msl) Temp. 14.76 14.75 14.75 (°C)
Water Level 27.45 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 508.32 (ft./msl)
Well Bottom Elevation *453.36 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 78°F, Cloudy, SW winds e 5-10 mph
Turbidity: 0.42 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 27.45 - 2.58 = 24.87 (ft.)
Levels were taken on 06/10/22 @ 1315

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T06S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-15

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump Dedicated (Y/N)
Sampling _____ Bladder Pump Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/13/22 Start Purge: 0920 End Purge: 0935
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.48

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.30 (ft) pH 6.78 6.80 6.80 (std.)
Ref. Measuring Pt. TIC SC 700 696 696 (umhos/cm)
Well Elevation * 620.99 (ft./msl) Temp. 21.59 21.66 21.66 (°C)
Water Level 112.71 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 508.28 (ft./msl)
Well Bottom Elevation * 447.94 (ft./msl)

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COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 77°F, Partly Cloudy, E winds 0-5 mph
Turbidity: 0.75 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 112.71 - 2.30 = 110.41 (ft.)
Levels were taken on 06/13/22 @ 0900
* Total Deth = 173.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T05S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-2171028-16

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump Dedicated (N)
Sampling _____ Bladder Pump Dedicated (N)

PURGING INFORMATION

Purge Date: 06/13/22 Start Purge: 1105 End Purge: 1123
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.58

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.40 (ft) pH 9.78 9.81 9.81 (std.)
Ref. Measuring Pt. TIC SC 2090 2090 2090 (umhos/cm)
Well Elevation * 623.46 (ft./msl) Temp. 24.40 24.28 24.28 (°C)
Water Level 120.57 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 502.89 (ft./msl)
Well Bottom Elevation * 448.35 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 83°F, Partly Cloudy, SE winds e 5-10 mph
Turbidity: 0.26 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 120.57 - 2.40 = 118.17 (ft.)
Levels were taken on 06/13/22 @ 1050
* Total Deth = 175.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T03S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-17

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 06/13/22 Start Purge: 1335 End Purge: 1350
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.48

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 3.08 (ft) pH 7.46 7.44 7.44 (std.)

Ref. Measuring Pt. TIC SC 1378 1378 1378 (umhos/cm)

Well Elevation * 629.74 (ft./msl) Temp. 13.82 13.77 13.77 (°C)

Water Level 134.89 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 494.85 (ft./msl)

Well Bottom Elevation * 456.70 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, No Odor

Weather Conditions: 86°F, Cloudy, SE winds e 5-10 mph

Turbidity: -0.10 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 134.89 - 3.08 = 131.81 (ft)

Levels were taken on 06/13/22 @ 1325

* Total Depth = 172.95

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T01S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-2171028-18

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 06/14/22 Start Purge: 0920 End Purge: 0942
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.28

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.48 (ft) pH 7.79 7.81 7.81 (std.)
Ref. Measuring Pt. TIC SC 1243 1237 1237 (umhos/cm)
Well Elevation * 621.71 (ft./msl) Temp. 25.64 25.62 25.62 (°C)
Water Level 119.94 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 501.77 (ft./msl)
Well Bottom Elevation * 451.46 (ft./msl)

COMMENTS

Sample Appearance/Odor: Tan, Moderate Turbidity, Slight Odor
Weather Conditions: 85°F, Sunny, SW winds e 5-10 mph
Turbidity: 15.7 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 119.94 - 2.48 = 117.46 (ft.)
Levels were taken on 06/14/22 @ 0905.
* Total Depth = 170.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T02S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217028-19

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (Y)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 06/14/22 Start Purge: 1220 End Purge: 1239
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.61

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.33 (ft) pH 8.07 8.08 8.08 (std.)
Ref. Measuring Pt. TIC SC 1130 1126 1126 (umhos/cm)
Well Elevation * 626.12 (ft./msl) Temp. 31.87 31.75 31.75 (°C)
Water Level 130.54 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 495.58 (ft./msl)
Well Bottom Elevation * 453.40 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 90°F, Sunny, SW winds 10-15 mph
Turbidity: 16.4 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 130.54 - 2.33 = 128.21 (ft.)
Levels were taken on 06/14/22 @ 1205
* Total Depth = 172.75

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

TestAmerica Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T08S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-217628-20

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 06/21/22 Start Purge: 0925 End Purge: 0941
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.41

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.38 (ft) pH 9.45 9.44 9.44 (std.)
Ref. Measuring Pt. TIC SC 1305 1299 1299 (umhos/cm)
Well Elevation * 627.50 (ft./msl) Temp. 19.75 19.69 19.69 (°C)
Water Level 125.55 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 501.95 (ft./msl)
Well Bottom Elevation * 447.38 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, Strong Odor
Weather Conditions: 87°F, Sunny, SW winds @ 10-15 mph
Turbidity: 1.34 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 125.55 - 2.38 = 123.17 (ft)
Levels were taken on 06/21/22 @ 0910
* Total Deth = 180.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]



ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-217628-2

Client Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

For:

Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Attn: John Niedzwiecki



Authorized for release by:
7/19/2022 2:03:58 PM

Diana Mockler, Project Manager I
(219)252-7570

Diana.Mockler@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Job ID: 500-217628-2

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-217628-2**

Comments

No additional comments.

Receipt

The samples were received on 6/6/2022 3:26 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 1.0° C, 1.0° C, 1.3° C, 1.9° C, 2.9° C, 2.9° C, 3.0° C and 4.4° C.

RAD

Methods 903.0, 9315: Radium-226 batch 569239

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

G33S (500-217628-1), G20S (500-217628-3), R08S (500-217628-4), R08S DUP (500-217628-5), (LCS 160-569239/1-A), (MB 160-569239/23-A) and (500-217628-D-4-B DU)

Method 903.0: Radium 226 Batch 160-569453:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. T09S (500-217628-6), (LCS 160-569453/2-A), (MB 160-569453/1-A) and (500-217628-E-6-A DU)

Methods 903.0, 9315: Radium 226 Batch 160-569983:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. G44S (500-217628-7), G46S (500-217628-8), G48S (500-217628-9), G47S (500-217628-10), G30S (500-217628-11), R32S (500-217628-12), G45S (500-217628-13), G31S (500-217628-14), (LCS 160-569983/2-A), (MB 160-569983/1-A) and (500-217628-C-7-B DU)

Methods 903.0, 9315: Radium-226 batch 570468

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

T06S (500-217628-15), T05S (500-217628-16), T03S (500-217628-17), T01S (500-217628-18), T02S (500-217628-19), (LCS 160-570468/2-A), (MB 160-570468/1-A), (500-218112-E-1-A) and (500-218112-C-1-A DU)

Methods 903.0, 9315: Radium 226 Batch 571315:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

T08S (500-217628-20), (LCS 160-571375/2-A), (MB 160-571375/1-A) and (500-217628-C-20-F DU)

Methods 904.0, 9320: Radium-228 batch 569243

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

G33S (500-217628-1), G20S (500-217628-3), R08S (500-217628-4), R08S DUP (500-217628-5), (LCS 160-569243/1-A), (MB 160-569243/23-A) and (500-217628-D-4-C DU)

Method 904.0: Radium-228 batch 569459

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Job ID: 500-217628-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

T09S (500-217628-6), (LCS 160-569459/2-A), (MB 160-569459/1-A) and (500-217628-E-6-B DU)

Methods 904.0, 9320: Radium-228 batch 569988

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

G44S (500-217628-7), G46S (500-217628-8), G48S (500-217628-9), G47S (500-217628-10), G30S (500-217628-11), R32S (500-217628-12), G45S (500-217628-13), G31S (500-217628-14), (LCS 160-569988/2-A), (MB 160-569988/1-A) and (500-217628-C-7-C DU)

Methods 903.0, 904.0, 9315, 9320, RA-06-RC, ST-RC-0058: Radium-228 batch 570286

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

(CCB 160-571243/24), (CCB 160-571243/48), (CCB 160-571243/49), (CCB 160-571243/50), (CCB 160-571243/51), (CCB 160-571243/52), (CCB 160-571243/53), (CCB 160-571243/54), (CCB 160-571243/78), (CCVA 160-571243/40), (CCVA 160-571243/41), (CCVA 160-571243/42), (CCVA 160-571243/43), (CCVA 160-571243/44), (CCVA 160-571243/45), (CCVA 160-571243/46), (CCVA 160-571243/62), (CCVA 160-571243/8), (CCVB 160-571243/16), (CCVB 160-571243/32), (CCVB 160-571243/33), (CCVB 160-571243/34), (CCVB 160-571243/35), (CCVB 160-571243/36), (CCVB 160-571243/37), (CCVB 160-571243/38) and (CCVB 160-571243/70)

Methods 904.0, 9320, SM7110C, ST-RC-0058: Radium-228 batch 570316

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

(CCB 160-571241/23), (CCB 160-571241/24), (CCVA 160-571241/1), (CCVA 160-571241/44), (CCVB 160-571241/61) and (CCVB 160-571241/9)

Methods 904.0, 9320: Radium-228 batch 570471

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date

T06S (500-217628-15), T05S (500-217628-16), T03S (500-217628-17), T01S (500-217628-18), T02S (500-217628-19), (LCS 160-570471/2-A), (MB 160-570471/1-A), (500-218112-E-1-B) and (500-218112-C-1-B DU)

Methods 904.0, 9320: Radium 228 Batch 160-571379:

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative.

T08S (500-217628-20) and (500-217628-C-20-E DU)

Methods 904.0, 9320: Radium 228 Batch 160-571379:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. T08S (500-217628-20), (LCS 160-571379/2-A), (MB 160-571379/1-A) and (500-217628-C-20-E DU)

Method PrecSep_0: Radium-228 Prep Batch 160-569243

The matrix for the <method blank (MB), laboratory control sample (LCS) and laboratory control sample duplicate (LCSD)> is as close to the following samples as can be reasonably achieved: G33S (500-217628-1), G20S (500-217628-3), R08S (500-217628-4), R08S DUP (500-217628-5) and (500-217628-D-4 DU). Detailed information can be found in the most current revision of the associated SOP.

Method PrecSep_0:

Method PrecSep_0:

Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Job ID: 500-217628-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method PrecSep-21: Radium-226 Prep Batch 160-569239

The matrix for the <method blank (MB), laboratory control sample (LCS) and laboratory control sample duplicate (LCSD)> is as close to the following samples as can be reasonably achieved: G33S (500-217628-1), G20S (500-217628-3), R08S (500-217628-4), R08S DUP (500-217628-5) and (500-217628-D-4 DU). Detailed information can be found in the most current revision of the associated SOP.

Method PrecSep-21:

Method PrecSep-21:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Method Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-217628-1	G33S	Water	06/06/22 14:02	06/06/22 15:26
500-217628-3	G20S	Water	06/07/22 09:19	06/07/22 15:24
500-217628-4	R08S	Water	06/07/22 13:57	06/07/22 15:24
500-217628-5	R08S DUP	Water	06/07/22 13:57	06/07/22 15:24
500-217628-6	T09S	Water	06/08/22 09:08	06/08/22 11:11
500-217628-7	G44S	Water	06/09/22 09:47	06/09/22 15:13
500-217628-8	G46S	Water	06/09/22 10:46	06/09/22 15:13
500-217628-9	G48S	Water	06/09/22 12:38	06/09/22 15:13
500-217628-10	G47S	Water	06/09/22 13:58	06/09/22 15:13
500-217628-11	G30S	GW	06/10/22 09:28	06/10/22 14:38
500-217628-12	R32S	GW	06/10/22 11:19	06/10/22 14:38
500-217628-13	G45S	GW	06/10/22 12:46	06/10/22 14:38
500-217628-14	G31S	Water	06/10/22 13:37	06/10/22 14:38
500-217628-15	T06S	Water	06/13/22 09:35	06/13/22 15:00
500-217628-16	T05S	Water	06/13/22 11:23	06/13/22 15:00
500-217628-17	T03S	Water	06/13/22 13:50	06/13/22 15:00
500-217628-18	T01S	Water	06/14/22 09:42	06/14/22 14:57
500-217628-19	T02S	Water	06/14/22 12:39	06/14/22 14:57
500-217628-20	T08S	Water	06/21/22 09:41	06/21/22 11:23



Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G33S

Lab Sample ID: 500-217628-1

Date Collected: 06/06/22 14:02

Matrix: Water

Date Received: 06/06/22 15:26

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.237		0.152	0.153	1.00	0.205	pCi/L	06/09/22 10:38	07/01/22 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.0		40 - 110					06/09/22 10:38	07/01/22 10:41	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.538	U	0.590	0.592	1.00	0.961	pCi/L	06/09/22 11:25	06/21/22 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.0		40 - 110					06/09/22 11:25	06/21/22 11:48	1
Y Carrier	84.5		40 - 110					06/09/22 11:25	06/21/22 11:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.775	U	0.609	0.611	5.00	0.961	pCi/L		07/05/22 13:06	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G20S

Lab Sample ID: 500-217628-3

Date Collected: 06/07/22 09:19

Matrix: Water

Date Received: 06/07/22 15:24

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.70		0.255	0.298	1.00	0.120	pCi/L	06/09/22 10:38	07/01/22 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					06/09/22 10:38	07/01/22 10:41	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.85		0.545	0.571	1.00	0.634	pCi/L	06/09/22 11:25	06/21/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					06/09/22 11:25	06/21/22 11:49	1
Y Carrier	86.0		40 - 110					06/09/22 11:25	06/21/22 11:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.55		0.602	0.644	5.00	0.634	pCi/L		07/05/22 13:06	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: R08S

Lab Sample ID: 500-217628-4

Date Collected: 06/07/22 13:57

Matrix: Water

Date Received: 06/07/22 15:24

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.588		0.144	0.153	1.00	0.131	pCi/L	06/09/22 10:38	07/01/22 10:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					06/09/22 10:38	07/01/22 10:41	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.745		0.322	0.329	1.00	0.408	pCi/L	06/09/22 11:25	06/21/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					06/09/22 11:25	06/21/22 11:49	1
Y Carrier	85.2		40 - 110					06/09/22 11:25	06/21/22 11:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.33		0.353	0.363	5.00	0.408	pCi/L		07/05/22 13:06	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: R08S DUP

Lab Sample ID: 500-217628-5

Date Collected: 06/07/22 13:57

Matrix: Water

Date Received: 06/07/22 15:24

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.453		0.118	0.125	1.00	0.0894	pCi/L	06/09/22 10:38	07/01/22 10:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					06/09/22 10:38	07/01/22 10:42	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.339	U	0.245	0.247	1.00	0.364	pCi/L	06/09/22 11:25	06/21/22 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					06/09/22 11:25	06/21/22 11:50	1
Y Carrier	86.0		40 - 110					06/09/22 11:25	06/21/22 11:50	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.792		0.272	0.277	5.00	0.364	pCi/L		07/05/22 13:06	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: T09S

Lab Sample ID: 500-217628-6

Date Collected: 06/08/22 09:08

Matrix: Water

Date Received: 06/08/22 11:11

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.52		0.208	0.249	1.00	0.0909	pCi/L	06/10/22 12:45	07/05/22 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					06/10/22 12:45	07/05/22 14:38	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.11		0.395	0.408	1.00	0.493	pCi/L	06/10/22 13:33	06/22/22 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					06/10/22 13:33	06/22/22 12:02	1
Y Carrier	87.5		40 - 110					06/10/22 13:33	06/22/22 12:02	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.63		0.446	0.478	5.00	0.493	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G44S

Lab Sample ID: 500-217628-7

Date Collected: 06/09/22 09:47

Matrix: Water

Date Received: 06/09/22 15:13

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.493		0.132	0.139	1.00	0.111	pCi/L	06/14/22 14:48	07/06/22 08:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					06/14/22 14:48	07/06/22 08:09	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.871		0.372	0.380	1.00	0.481	pCi/L	06/14/22 15:12	06/23/22 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					06/14/22 15:12	06/23/22 12:19	1
Y Carrier	89.7		40 - 110					06/14/22 15:12	06/23/22 12:19	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.36		0.395	0.405	5.00	0.481	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G46S

Lab Sample ID: 500-217628-8

Date Collected: 06/09/22 10:46

Matrix: Water

Date Received: 06/09/22 15:13

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.772		0.159	0.173	1.00	0.122	pCi/L	06/14/22 14:48	07/06/22 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					06/14/22 14:48	07/06/22 08:11	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.944		0.359	0.369	1.00	0.458	pCi/L	06/14/22 15:12	06/23/22 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					06/14/22 15:12	06/23/22 12:21	1
Y Carrier	94.6		40 - 110					06/14/22 15:12	06/23/22 12:21	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.72		0.393	0.408	5.00	0.458	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G48S

Lab Sample ID: 500-217628-9

Date Collected: 06/09/22 12:38

Matrix: Water

Date Received: 06/09/22 15:13

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.779		0.153	0.168	1.00	0.106	pCi/L	06/14/22 14:48	07/06/22 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					06/14/22 14:48	07/06/22 08:11	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.577		0.351	0.355	1.00	0.520	pCi/L	06/14/22 15:12	06/23/22 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					06/14/22 15:12	06/23/22 12:21	1
Y Carrier	86.0		40 - 110					06/14/22 15:12	06/23/22 12:21	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.36		0.383	0.393	5.00	0.520	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G47S

Lab Sample ID: 500-217628-10

Date Collected: 06/09/22 13:58

Matrix: Water

Date Received: 06/09/22 15:13

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.454		0.124	0.131	1.00	0.116	pCi/L	06/14/22 14:48	07/06/22 08:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					06/14/22 14:48	07/06/22 08:15	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.307	U	0.305	0.307	1.00	0.492	pCi/L	06/14/22 15:12	06/23/22 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					06/14/22 15:12	06/23/22 12:21	1
Y Carrier	85.6		40 - 110					06/14/22 15:12	06/23/22 12:21	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.760		0.329	0.334	5.00	0.492	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G30S

Lab Sample ID: 500-217628-11

Date Collected: 06/10/22 09:28

Matrix: GW

Date Received: 06/10/22 14:38

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.991		0.186	0.206	1.00	0.131	pCi/L	06/14/22 14:48	07/06/22 08:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					06/14/22 14:48	07/06/22 08:15	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.33		0.456	0.472	1.00	0.550	pCi/L	06/14/22 15:12	06/23/22 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					06/14/22 15:12	06/23/22 12:21	1
Y Carrier	86.4		40 - 110					06/14/22 15:12	06/23/22 12:21	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.32		0.492	0.515	5.00	0.550	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: R32S

Lab Sample ID: 500-217628-12

Date Collected: 06/10/22 11:19

Matrix: GW

Date Received: 06/10/22 14:38

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.37		0.192	0.229	1.00	0.0819	pCi/L	06/14/22 14:48	07/06/22 08:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					06/14/22 14:48	07/06/22 08:15	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.58		0.431	0.455	1.00	0.482	pCi/L	06/14/22 15:12	06/23/22 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					06/14/22 15:12	06/23/22 12:21	1
Y Carrier	87.5		40 - 110					06/14/22 15:12	06/23/22 12:21	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.96		0.472	0.509	5.00	0.482	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G45S

Lab Sample ID: 500-217628-13

Date Collected: 06/10/22 12:46

Matrix: GW

Date Received: 06/10/22 14:38

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.18		0.179	0.208	1.00	0.0859	pCi/L	06/14/22 14:48	07/06/22 08:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					06/14/22 14:48	07/06/22 08:16	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.988		0.370	0.381	1.00	0.469	pCi/L	06/14/22 15:12	06/23/22 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					06/14/22 15:12	06/23/22 12:22	1
Y Carrier	86.0		40 - 110					06/14/22 15:12	06/23/22 12:22	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.17		0.411	0.434	5.00	0.469	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G31S

Lab Sample ID: 500-217628-14

Date Collected: 06/10/22 13:37

Matrix: Water

Date Received: 06/10/22 14:38

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.06		0.242	0.305	1.00	0.0930	pCi/L	06/14/22 14:52	07/06/22 08:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					06/14/22 14:52	07/06/22 08:16	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.87		0.468	0.499	1.00	0.486	pCi/L	06/14/22 15:12	06/23/22 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					06/14/22 15:12	06/23/22 12:22	1
Y Carrier	88.2		40 - 110					06/14/22 15:12	06/23/22 12:22	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.93		0.527	0.585	5.00	0.486	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: T06S

Lab Sample ID: 500-217628-15

Date Collected: 06/13/22 09:35

Matrix: Water

Date Received: 06/13/22 15:00

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.971		0.169	0.190	1.00	0.0927	pCi/L	06/17/22 13:19	07/11/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					06/17/22 13:19	07/11/22 13:33	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.838		0.387	0.395	1.00	0.525	pCi/L	06/17/22 13:47	06/24/22 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					06/17/22 13:47	06/24/22 10:49	1
Y Carrier	86.4		40 - 110					06/17/22 13:47	06/24/22 10:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.81		0.422	0.438	5.00	0.525	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: T05S

Lab Sample ID: 500-217628-16

Date Collected: 06/13/22 11:23

Matrix: Water

Date Received: 06/13/22 15:00

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.339		0.115	0.119	1.00	0.105	pCi/L	06/17/22 13:19	07/11/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/17/22 13:19	07/11/22 13:33	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.503		0.331	0.335	1.00	0.480	pCi/L	06/17/22 13:47	06/24/22 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/17/22 13:47	06/24/22 10:49	1
Y Carrier	85.2		40 - 110					06/17/22 13:47	06/24/22 10:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.842		0.350	0.356	5.00	0.480	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: T03S

Lab Sample ID: 500-217628-17

Date Collected: 06/13/22 13:50

Matrix: Water

Date Received: 06/13/22 15:00

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.909		0.160	0.180	1.00	0.0928	pCi/L	06/17/22 13:19	07/11/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		40 - 110					06/17/22 13:19	07/11/22 13:33	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.555		0.288	0.293	1.00	0.386	pCi/L	06/17/22 13:47	06/24/22 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		40 - 110					06/17/22 13:47	06/24/22 10:49	1
Y Carrier	86.7		40 - 110					06/17/22 13:47	06/24/22 10:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.46		0.329	0.344	5.00	0.386	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: T01S

Lab Sample ID: 500-217628-18

Date Collected: 06/14/22 09:42

Matrix: Water

Date Received: 06/14/22 14:57

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.988		0.216	0.233	1.00	0.152	pCi/L	06/17/22 13:19	07/11/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.0		40 - 110					06/17/22 13:19	07/11/22 13:33	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.812		0.530	0.535	1.00	0.782	pCi/L	06/17/22 13:47	06/24/22 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.0		40 - 110					06/17/22 13:47	06/24/22 10:49	1
Y Carrier	86.7		40 - 110					06/17/22 13:47	06/24/22 10:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.80		0.572	0.584	5.00	0.782	pCi/L		07/13/22 23:09	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: T02S

Lab Sample ID: 500-217628-19

Date Collected: 06/14/22 12:39

Matrix: Water

Date Received: 06/14/22 14:57

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.860		0.183	0.199	1.00	0.130	pCi/L	06/17/22 13:19	07/11/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		40 - 110					06/17/22 13:19	07/11/22 13:33	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.46		0.497	0.515	1.00	0.595	pCi/L	06/17/22 13:47	06/24/22 10:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		40 - 110					06/17/22 13:47	06/24/22 10:44	1
Y Carrier	88.2		40 - 110					06/17/22 13:47	06/24/22 10:44	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.32		0.530	0.552	5.00	0.595	pCi/L		07/13/22 23:14	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: T08S

Lab Sample ID: 500-217628-20

Date Collected: 06/21/22 09:41

Matrix: Water

Date Received: 06/21/22 11:23

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.411		0.207	0.210	1.00	0.272	pCi/L	06/23/22 13:51	07/15/22 13:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					06/23/22 13:51	07/15/22 13:51	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.461	U G	0.623	0.624	1.00	1.04	pCi/L	06/23/22 14:22	07/05/22 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					06/23/22 14:22	07/05/22 12:20	1
Y Carrier	86.4		40 - 110					06/23/22 14:22	07/05/22 12:20	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.872	U	0.656	0.658	5.00	1.04	pCi/L		07/19/22 12:07	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Rad

Prep Batch: 569239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total/NA	Water	PrecSep-21	
500-217628-3	G20S	Total/NA	Water	PrecSep-21	
500-217628-4	R08S	Total/NA	Water	PrecSep-21	
500-217628-5	R08S DUP	Total/NA	Water	PrecSep-21	
MB 160-569239/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-569239/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-217628-4 DU	R08S	Total/NA	Water	PrecSep-21	

Prep Batch: 569243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-1	G33S	Total/NA	Water	PrecSep_0	
500-217628-3	G20S	Total/NA	Water	PrecSep_0	
500-217628-4	R08S	Total/NA	Water	PrecSep_0	
500-217628-5	R08S DUP	Total/NA	Water	PrecSep_0	
MB 160-569243/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-569243/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-217628-4 DU	R08S	Total/NA	Water	PrecSep_0	

Prep Batch: 569453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-6	T09S	Total/NA	Water	PrecSep-21	
MB 160-569453/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-569453/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-217628-6 DU	T09S	Total/NA	Water	PrecSep-21	

Prep Batch: 569459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-6	T09S	Total/NA	Water	PrecSep_0	
MB 160-569459/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-569459/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-217628-6 DU	T09S	Total/NA	Water	PrecSep_0	

Prep Batch: 569983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-7	G44S	Total/NA	Water	PrecSep-21	
500-217628-8	G46S	Total/NA	Water	PrecSep-21	
500-217628-9	G48S	Total/NA	Water	PrecSep-21	
500-217628-10	G47S	Total/NA	Water	PrecSep-21	
500-217628-11	G30S	Total/NA	GW	PrecSep-21	
500-217628-12	R32S	Total/NA	GW	PrecSep-21	
500-217628-13	G45S	Total/NA	GW	PrecSep-21	
500-217628-14	G31S	Total/NA	Water	PrecSep-21	
MB 160-569983/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-569983/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-217628-7 DU	G44S	Total/NA	Water	PrecSep-21	

Prep Batch: 569988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-7	G44S	Total/NA	Water	PrecSep_0	
500-217628-8	G46S	Total/NA	Water	PrecSep_0	
500-217628-9	G48S	Total/NA	Water	PrecSep_0	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Rad (Continued)

Prep Batch: 569988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-10	G47S	Total/NA	Water	PrecSep_0	
500-217628-11	G30S	Total/NA	GW	PrecSep_0	
500-217628-12	R32S	Total/NA	GW	PrecSep_0	
500-217628-13	G45S	Total/NA	GW	PrecSep_0	
500-217628-14	G31S	Total/NA	Water	PrecSep_0	
MB 160-569988/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-569988/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-217628-7 DU	G44S	Total/NA	Water	PrecSep_0	

Prep Batch: 570468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total/NA	Water	PrecSep-21	
500-217628-16	T05S	Total/NA	Water	PrecSep-21	
500-217628-17	T03S	Total/NA	Water	PrecSep-21	
500-217628-18	T01S	Total/NA	Water	PrecSep-21	
500-217628-19	T02S	Total/NA	Water	PrecSep-21	
MB 160-570468/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-570468/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 570471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-15	T06S	Total/NA	Water	PrecSep_0	
500-217628-16	T05S	Total/NA	Water	PrecSep_0	
500-217628-17	T03S	Total/NA	Water	PrecSep_0	
500-217628-18	T01S	Total/NA	Water	PrecSep_0	
500-217628-19	T02S	Total/NA	Water	PrecSep_0	
MB 160-570471/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-570471/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 571375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-20	T08S	Total/NA	Water	PrecSep-21	
MB 160-571375/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-571375/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-217628-20 DU	T08S	Total/NA	Water	PrecSep-21	

Prep Batch: 571379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217628-20	T08S	Total/NA	Water	PrecSep_0	
MB 160-571379/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-571379/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-217628-20 DU	T08S	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-569239/23-A
Matrix: Water
Analysis Batch: 572488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569239

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.05416	U	0.0571	0.0573	1.00	0.0886	pCi/L	06/09/22 10:38	07/01/22 15:01	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	105		40 - 110			06/09/22 10:38	07/01/22 15:01	1		

Lab Sample ID: LCS 160-569239/1-A
Matrix: Water
Analysis Batch: 572488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569239

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.57		1.09	1.00	0.0869	pCi/L	93	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	97.0		40 - 110						

Lab Sample ID: 500-217628-4 DU
Matrix: Water
Analysis Batch: 572488

Client Sample ID: R08S
Prep Type: Total/NA
Prep Batch: 569239

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.588		0.5977		0.155	1.00	0.0925	pCi/L	0.03	1
Carrier	DU %Yield	DU Qualifier	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	99.8		40 - 110							

Lab Sample ID: MB 160-569453/1-A
Matrix: Water
Analysis Batch: 572655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569453

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.07639	U	0.0927	0.0929	1.00	0.152	pCi/L	06/10/22 12:45	07/05/22 14:36	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	58.5		40 - 110			06/10/22 12:45	07/05/22 14:36	1		

Lab Sample ID: LCS 160-569453/2-A
Matrix: Water
Analysis Batch: 572655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569453

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.94		1.14	1.00	0.122	pCi/L	97	75 - 125

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-569453/2-A
Matrix: Water
Analysis Batch: 572655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569453

LCS LCS			
Carrier	%Yield	Qualifier	Limits
Ba Carrier	81.8		40 - 110

Lab Sample ID: 500-217628-6 DU
Matrix: Water
Analysis Batch: 572655

Client Sample ID: T09S
Prep Type: Total/NA
Prep Batch: 569453

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	1.52		1.486		0.254	1.00	0.100	pCi/L	0.06	1

DU DU			
Carrier	%Yield	Qualifier	Limits
Ba Carrier	83.0		40 - 110

Lab Sample ID: MB 160-569983/1-A
Matrix: Water
Analysis Batch: 572903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569983

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										Limit
Radium-226	0.001610	U	0.0584	0.0584	1.00	0.120	pCi/L	06/14/22 14:48	07/06/22 08:17	1

MB MB				Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	74.5		40 - 110	06/14/22 14:48	07/06/22 08:17	1

Lab Sample ID: LCS 160-569983/2-A
Matrix: Water
Analysis Batch: 572903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569983

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-226	11.3	11.26		1.19	1.00	0.103	pCi/L	99	75 - 125

LCS LCS			
Carrier	%Yield	Qualifier	Limits
Ba Carrier	70.0		40 - 110

Lab Sample ID: 500-217628-7 DU
Matrix: Water
Analysis Batch: 572904

Client Sample ID: G44S
Prep Type: Total/NA
Prep Batch: 569983

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	0.493		0.6548		0.155	1.00	0.109	pCi/L	0.55	1

DU DU			
Carrier	%Yield	Qualifier	Limits
Ba Carrier	96.0		40 - 110

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-570468/1-A
Matrix: Water
Analysis Batch: 573478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570468

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.005455	U	0.0338	0.0338	1.00	0.0770	pCi/L	06/17/22 13:19	07/11/22 08:52	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	103		40 - 110				06/17/22 13:19		07/11/22 08:52	1

Lab Sample ID: LCS 160-570468/2-A
Matrix: Water
Analysis Batch: 573478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570468

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.493		0.983	1.00	0.0829	pCi/L	84	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	102		40 - 110						

Lab Sample ID: MB 160-571375/1-A
Matrix: Water
Analysis Batch: 574072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571375

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01916	U	0.0679	0.0679	1.00	0.129	pCi/L	06/23/22 13:51	07/15/22 13:50	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	71.9		40 - 110				06/23/22 13:51		07/15/22 13:50	1

Lab Sample ID: LCS 160-571375/2-A
Matrix: Water
Analysis Batch: 574072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571375

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.12		1.15	1.00	0.0958	pCi/L	98	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	94.9		40 - 110						

Lab Sample ID: 500-217628-20 DU
Matrix: Water
Analysis Batch: 574072

Client Sample ID: T08S
Prep Type: Total/NA
Prep Batch: 571375

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	0.411		0.5287		0.180	1.00	0.154	pCi/L	0.30	1

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 500-217628-20 DU
 Matrix: Water
 Analysis Batch: 574072

Client Sample ID: T08S
 Prep Type: Total/NA
 Prep Batch: 571375

Carrier	%Yield	Qualifier	Limits
Ba Carrier	86.6		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-569243/23-A
 Matrix: Water
 Analysis Batch: 570941

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 569243

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4190		0.266	0.269	1.00	0.392	pCi/L	06/09/22 11:25	06/21/22 11:54	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110	06/09/22 11:25	06/21/22 11:54	1
Y Carrier	91.6		40 - 110	06/09/22 11:25	06/21/22 11:54	1

Lab Sample ID: LCS 160-569243/1-A
 Matrix: Water
 Analysis Batch: 570924

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 569243

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.51	9.113		1.21	1.00	0.508	pCi/L	107	75 - 125

Carrier	%Yield	Qualifier	Limits
Ba Carrier	97.0		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: 500-217628-4 DU
 Matrix: Water
 Analysis Batch: 570924

Client Sample ID: R08S
 Prep Type: Total/NA
 Prep Batch: 569243

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.745		0.7416		0.338	1.00	0.441	pCi/L	0.01	1

Carrier	%Yield	Qualifier	Limits
Ba Carrier	99.8		40 - 110
Y Carrier	85.6		40 - 110

Lab Sample ID: MB 160-569459/1-A
 Matrix: Water
 Analysis Batch: 571084

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 569459

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.7884	U	0.562	0.567	1.00	0.855	pCi/L	06/10/22 13:33	06/22/22 12:00	1

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-569459/1-A
Matrix: Water
Analysis Batch: 571084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569459

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	58.5		40 - 110	06/10/22 13:33	06/22/22 12:00	1
Y Carrier	84.1		40 - 110	06/10/22 13:33	06/22/22 12:00	1

Lab Sample ID: LCS 160-569459/2-A
Matrix: Water
Analysis Batch: 571084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569459

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	81.8		40 - 110
Y Carrier	88.6		40 - 110

Lab Sample ID: 500-217628-6 DU
Matrix: Water
Analysis Batch: 571084

Client Sample ID: T09S
Prep Type: Total/NA
Prep Batch: 569459

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit

Carrier	DU DU		Limits
	%Yield	Qualifier	
Ba Carrier	83.0		40 - 110
Y Carrier	87.1		40 - 110

Lab Sample ID: MB 160-569988/1-A
Matrix: Water
Analysis Batch: 571241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569988

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.5672	U	0.424	0.428	1.00	0.648	pCi/L	06/14/22 15:12	06/23/22 12:13	1

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	74.5		40 - 110	06/14/22 15:12	06/23/22 12:13	1
Y Carrier	79.6		40 - 110	06/14/22 15:12	06/23/22 12:13	1

Lab Sample ID: LCS 160-569988/2-A
Matrix: Water
Analysis Batch: 571241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569988

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-569988/2-A
Matrix: Water
Analysis Batch: 571241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569988

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	70.0		40 - 110
Y Carrier	82.2		40 - 110

Lab Sample ID: 500-217628-7 DU
Matrix: Water
Analysis Batch: 571243

Client Sample ID: G44S
Prep Type: Total/NA
Prep Batch: 569988

Analyte	Sample		DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual						
Radium-228	0.871		0.8242		0.349	1.00	0.439	pCi/L	0.06	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	96.0		40 - 110
Y Carrier	93.1		40 - 110

Lab Sample ID: MB 160-570471/1-A
Matrix: Water
Analysis Batch: 571618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570471

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	0.5165		0.309	0.313	1.00	0.455	pCi/L	06/17/22 13:47	06/24/22 10:47		1	

	MB	MB									
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac					
Ba Carrier	103		40 - 110	06/17/22 13:47	06/24/22 10:47	1					
Y Carrier	87.9		40 - 110	06/17/22 13:47	06/24/22 10:47	1					

Lab Sample ID: LCS 160-570471/2-A
Matrix: Water
Analysis Batch: 571618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570471

Analyte	Spike Added	LCS		Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
		Result	Qual							
Radium-228	8.51	8.862		1.15	1.00	0.453	pCi/L	104	75 - 125	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	102		40 - 110
Y Carrier	88.6		40 - 110

Lab Sample ID: MB 160-571379/1-A
Matrix: Water
Analysis Batch: 572655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571379

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	0.6012	U	0.494	0.497	1.00	0.772	pCi/L	06/23/22 14:22	07/05/22 12:19		1	

Euromins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-571379/1-A
Matrix: Water
Analysis Batch: 572655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571379

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	71.9		40 - 110
Y Carrier	86.0		40 - 110

Prepared	Analyzed	Dil Fac
06/23/22 14:22	07/05/22 12:19	1
06/23/22 14:22	07/05/22 12:19	1

Lab Sample ID: LCS 160-571379/2-A
Matrix: Water
Analysis Batch: 572655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571379

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.48	8.739		1.22	1.00	0.499	pCi/L	103	75 - 125	

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	94.9		40 - 110
Y Carrier	85.6		40 - 110

Lab Sample ID: 500-217628-20 DU
Matrix: Water
Analysis Batch: 572655

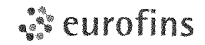
Client Sample ID: T08S
Prep Type: Total/NA
Prep Batch: 571379

Analyte	Sample Sample		DU DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual						
Radium-228	0.461	U G	0.2132	U G	0.601	1.00	1.06	pCi/L	0.20	1

Carrier	DU DU		Limits
	%Yield	Qualifier	
Ba Carrier	86.6		40 - 110
Y Carrier	85.2		40 - 110

Chain of Custody Record

524010



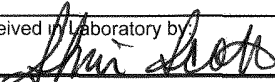


Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager		Site Contact		Date		COC No	
Company Name Midwest Generation EME LLC		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) Radium 226 Radium 228 Combined 226/228 Metals 14 elements + Hg TDS, FI, Cl, SO4		 500-217628 COC		Sampler	
City/State/Zip Joliet, IL		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client	
Project Name Joliet #9 (Quarry) CCR								Lab Sampling	
Site GW + Turbidity - 2Q 22								Job / SDG No	
P O #								500-217628	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes			
G205	06/07/22	0719		W	5				
RO85	06/07/22	1357		W	5				
RO85 DUP	06/07/22	1357		W	5				
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd 3.3 → 1.9		Corr'd 1.9		Therm ID No	
Relinquished by 		Company: EETA		Date/Time: 06/07/22 1524		Received by		Company: _____ Date/Time: _____	
Relinquished by		Company:		Date/Time:		Received by		Company: _____ Date/Time: _____	
Relinquished by		Company:		Date/Time:		Received by 		Company: EETA Date/Time: 6/7/22 1524	

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Chain of Custody Record

524011




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact Company Name <u>Midwest Generation EME LLC</u> Address _____ City/State/Zip <u>Joliet, IL</u> Phone _____ Fax _____ Project Name <u>Joliet #9 (Quarry) CCR</u> Site <u>GW + Turbidity - 2Q22</u> P O # _____		Project Manager: Tel/Email _____ Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact Lab Contact. _____ Date _____ Carrier _____ COC No _____ of _____ COCs		Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No <u>500-217628</u> Sample Specific Notes _____										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	Radium 226 Radium 228 Combined 226/228 Metals 14 elements + 49 TDS, FI, CI, SO4	 500-217628 COC	Sample Specific Notes					
6 T09S		06/08/22	0908	W	W	5	/	/	/	/	/					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____							Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input checked="" type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: _____																
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No. _____		Cooler Temp (°C) Obs'd <u>24</u> Corr'd <u>10</u>		Therm ID No _____										
Relinquished by <u>[Signature]</u>		Company <u>EETA</u>		Date/Time <u>06/08/22 e 1118</u>		Received by _____		Company _____		Date/Time _____						
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____						
Relinquished by _____		Company _____		Date/Time _____		Received by Laboratory by <u>[Signature]</u>		Company <u>EETA</u>		Date/Time <u>6/8/22 1118</u>						

Chain of Custody Record

524012




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager		Site Contact		Date		COC No	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FI, CI, SO4</i>		 500-217628 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client	
Project Name <i>Joliet #9 (Quarry) CCR</i>								Lab Sampling	
Site <i>GW + Turbidity - 2822</i>								Job / SDG No	
P O #								<i>500-217628</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>G445</i>		<i>06/09/22</i>	<i>0947</i>		<i>W</i>	<i>5</i>			
<i>G465</i>		<i>06/09/22</i>	<i>1046</i>		<i>W</i>	<i>5</i>			
<i>G485</i>		<i>06/09/22</i>	<i>1238</i>		<i>W</i>	<i>5</i>			
<i>G470</i>		<i>06/09/22</i>	<i>1358</i>		<i>W</i>	<i>5</i>			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>4.3</i> Corr'd <i>2.9</i>		Therm ID No			
Relinquished by: <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>06/09/22 1513</i>		Received by:		Company	
Relinquished by:		Company		Date/Time		Received by:		Company	
Relinquished by:		Company		Date/Time		Received in Laboratory by: <i>[Signature]</i>		Company <i>EETA</i> Date/Time <i>6/9/22 1513</i>	

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Chain of Custody Record

524013




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact Company Name <i>Midwest Generation EME LLC</i> Address _____ City/State/Zip <i>Joliet, IL</i> Phone _____ Fax _____ Project Name <i>Joliet #9 (Quarry) CCR</i> Site <i>GW + Turbidity, 2022</i> P O # _____		Project Manager Tel/Email _____		Site Contact Lab Contact: _____		Date Carrier _____		COC No _____ of _____ COCs _____ or Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No <i>500-217628</i>			
		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FI, CI, SO4</i>		 500-217628 COC					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Sample Specific Notes				
11 G30S		06/10/22	0928		W	5	/	/	/	/	
12 R32S		06/10/22	1119		W	5	/	/	/	/	
13 G45S		06/10/22	1246		W	5	/	/	/	/	
14 G31S		06/10/22	1337		W	5	/	/	/	/	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____							Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							Special Instructions/QC Requirements & Comments: <p style="text-align: right; font-size: 1.2em;">5.8 + 4.4</p>				
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____					
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>06/10/22 e 1438</i>		Received by _____		Company _____		Date/Time _____	
Re-inquired by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>Stephanie Hernandez</i>		Company <i>EETA</i>		Date/Time <i>6/10/22 1438</i>	

Chain of Custody Record

524015




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager <i>Diana Meckler</i>		Site Contact		Date		COC No	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, F, Cl, SO4</i>		 500-217628 COC		Sampler: For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-217628</i>	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Fax									
Project Name <i>Joliet #9 (Quarry) CCR</i>									
Site <i>GW + Turbidity - 2Q22</i>									
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>18</i> <i>19</i> TO1S		<i>06/14/22</i>	<i>0942</i>		<i>W</i>	<i>5</i>			
TO2S		<i>06/14/22</i>	<i>1239</i>		<i>W</i>	<i>5</i>			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd <i>4/3</i> Corr'd <i>2/9</i>		Therm ID No _____			
Relinquished by: <i>[Signature]</i>		Company: <i>EETA</i>		Date/Time: <i>06/14/22 e</i>		Received by: <i>1457</i>			
Relinquished by:		Company:		Date/Time:		Received by:			
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>[Signature]</i>		Company: <i>EETA</i> Date/Time: <i>6/14/22 1457</i>	

Chain of Custody Record

524016



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager <i>Diana Mueckler</i>			Site Contact			Date		COC No	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email			Lab Contact			Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time									
City/State/Zip <i>Joliet, IL.</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____									
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day									
Fax		 500-217628 COC									
Project Name <i>Joliet #9 (Quarry) CCR</i>											
Site <i>GS + Turbidity - 2Q22</i>											
P O #											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	For Lab Use Only		
20 <i>TOPS</i>		06/21/22	0941		W	5	/	/	/	/	/
		Radium 226 Radium 228 Combined 226/228 Metals 14 elements + Hg TDS, F, Cl, SO4									
Sample Specific Notes											
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other											
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown											
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No				Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____	
Relinquished by <i>ET</i>		Company <i>EETA</i>		Date/Time <i>06/21/22 e</i>		Received by <i>1123</i>		Company		Date/Time	
Relinquished by		Company		Date/Time		Received by		Company		Date/Time	
Relinquished by		Company		Date/Time		Received in Laboratory by <i>Stephanie Hernandez</i>		Company <i>EETA</i>		Date/Time <i>6/21/22 1123</i>	

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Lab PM: Mockler, Diana J	Camera Tracking No(s): COC No: 500-162331.1
Client Contact: Shipping/Receiving		Phone: Diana.Mockler@et.eurofins.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		State of Origin: Illinois	Job #: 500-217628-1
Address: 13715 Rider Trail North, Earth City, MO, 63045		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - Trizma Y - EDTA Z - other (specify) Other:	
Due Date Requested: 6/27/2022 TAT Requested (days):		Analysis Requested	
PO #:	Project #:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
WO #:	50011504	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List
Project Name: Joliet #9 (Quarry) CCR 2022	SSOW#:	903.0/PreSep_21 Standard Target List	Ra226Ra228 GFPC
Site: NRG Midwest Generation LSQ Joliet #9 CCR	Sample Date	Sample Time	Sample Type (C=comp, G=grab)
	6/21/22	09:41 Central	Water
			Matrix (Wetweight, Suspended, Organics, BTEX, etc.)
			Preservation Code:
			Special Instructions/Note:
			Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
			Total Number of containers
			3

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date: Method of Shipment: Return To Client Disposal By Lab Archive For Months

Relinquished by: *Suphannie Hammond* Date/Time: 6/21/22 1630 Company: *EEA*
 Relinquished by: *FED EX* Date/Time: Date/Time: Received by: *Kevin Bank* Date/Time: JUN 22 2022 0920 Company: *ETA STL*
 Relinquished by: Date/Time: Received by: Date/Time: Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-217628-2

Login Number: 217628

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0,1.9,1.0,2.9,4.4,3.0,2.9,1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-217628-2

Login Number: 217628

List Number: 2

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 06/08/22 03:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-217628-2

Login Number: 217628

List Number: 3

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 06/09/22 12:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-217628-2

Login Number: 217628

List Number: 4

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 06/13/22 01:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-217628-2

Login Number: 217628

List Number: 5

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 06/15/22 04:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-217628-2

Login Number: 217628

List Number: 6

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 06/22/22 01:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G33S

Date Collected: 06/06/22 14:02

Date Received: 06/06/22 15:26

Lab Sample ID: 500-217628-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569239	06/09/22 10:38	MS	TAL SL
Total/NA	Analysis	903.0		1	572488	07/01/22 10:41	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569243	06/09/22 11:25	MS	TAL SL
Total/NA	Analysis	904.0		1	570924	06/21/22 11:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	572681	07/05/22 13:06	SCB	TAL SL

Client Sample ID: G20S

Date Collected: 06/07/22 09:19

Date Received: 06/07/22 15:24

Lab Sample ID: 500-217628-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569239	06/09/22 10:38	MS	TAL SL
Total/NA	Analysis	903.0		1	572488	07/01/22 10:41	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569243	06/09/22 11:25	MS	TAL SL
Total/NA	Analysis	904.0		1	570924	06/21/22 11:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	572681	07/05/22 13:06	SCB	TAL SL

Client Sample ID: R08S

Date Collected: 06/07/22 13:57

Date Received: 06/07/22 15:24

Lab Sample ID: 500-217628-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569239	06/09/22 10:38	MS	TAL SL
Total/NA	Analysis	903.0		1	572488	07/01/22 10:41	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569243	06/09/22 11:25	MS	TAL SL
Total/NA	Analysis	904.0		1	570924	06/21/22 11:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	572681	07/05/22 13:06	SCB	TAL SL

Client Sample ID: R08S DUP

Date Collected: 06/07/22 13:57

Date Received: 06/07/22 15:24

Lab Sample ID: 500-217628-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569239	06/09/22 10:38	MS	TAL SL
Total/NA	Analysis	903.0		1	572488	07/01/22 10:42	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569243	06/09/22 11:25	MS	TAL SL
Total/NA	Analysis	904.0		1	570924	06/21/22 11:50	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	572681	07/05/22 13:06	SCB	TAL SL

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: T09S

Date Collected: 06/08/22 09:08

Date Received: 06/08/22 11:11

Lab Sample ID: 500-217628-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569453	06/10/22 12:45	MS	TAL SL
Total/NA	Analysis	903.0		1	572655	07/05/22 14:38	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569459	06/10/22 13:33	MS	TAL SL
Total/NA	Analysis	904.0		1	571084	06/22/22 12:02	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Client Sample ID: G44S

Date Collected: 06/09/22 09:47

Date Received: 06/09/22 15:13

Lab Sample ID: 500-217628-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569983	06/14/22 14:48	MS	TAL SL
Total/NA	Analysis	903.0		1	572904	07/06/22 08:09	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569988	06/14/22 15:12	MS	TAL SL
Total/NA	Analysis	904.0		1	571243	06/23/22 12:19	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Client Sample ID: G46S

Date Collected: 06/09/22 10:46

Date Received: 06/09/22 15:13

Lab Sample ID: 500-217628-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569983	06/14/22 14:48	MS	TAL SL
Total/NA	Analysis	903.0		1	572904	07/06/22 08:11	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569988	06/14/22 15:12	MS	TAL SL
Total/NA	Analysis	904.0		1	571243	06/23/22 12:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Client Sample ID: G48S

Date Collected: 06/09/22 12:38

Date Received: 06/09/22 15:13

Lab Sample ID: 500-217628-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569983	06/14/22 14:48	MS	TAL SL
Total/NA	Analysis	903.0		1	572904	07/06/22 08:11	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569988	06/14/22 15:12	MS	TAL SL
Total/NA	Analysis	904.0		1	571243	06/23/22 12:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G47S

Lab Sample ID: 500-217628-10

Date Collected: 06/09/22 13:58

Matrix: Water

Date Received: 06/09/22 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569983	06/14/22 14:48	MS	TAL SL
Total/NA	Analysis	903.0		1	572904	07/06/22 08:15	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569988	06/14/22 15:12	MS	TAL SL
Total/NA	Analysis	904.0		1	571243	06/23/22 12:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Client Sample ID: G30S

Lab Sample ID: 500-217628-11

Date Collected: 06/10/22 09:28

Matrix: GW

Date Received: 06/10/22 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569983	06/14/22 14:48	MS	TAL SL
Total/NA	Analysis	903.0		1	572904	07/06/22 08:15	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569988	06/14/22 15:12	MS	TAL SL
Total/NA	Analysis	904.0		1	571243	06/23/22 12:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Client Sample ID: R32S

Lab Sample ID: 500-217628-12

Date Collected: 06/10/22 11:19

Matrix: GW

Date Received: 06/10/22 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569983	06/14/22 14:48	MS	TAL SL
Total/NA	Analysis	903.0		1	572904	07/06/22 08:15	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569988	06/14/22 15:12	MS	TAL SL
Total/NA	Analysis	904.0		1	571243	06/23/22 12:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Client Sample ID: G45S

Lab Sample ID: 500-217628-13

Date Collected: 06/10/22 12:46

Matrix: GW

Date Received: 06/10/22 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569983	06/14/22 14:48	MS	TAL SL
Total/NA	Analysis	903.0		1	572904	07/06/22 08:16	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569988	06/14/22 15:12	MS	TAL SL
Total/NA	Analysis	904.0		1	571243	06/23/22 12:22	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: G31S

Lab Sample ID: 500-217628-14

Date Collected: 06/10/22 13:37

Matrix: Water

Date Received: 06/10/22 14:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			569983	06/14/22 14:52	MS	TAL SL
Total/NA	Analysis	903.0		1	572904	07/06/22 08:16	CLP	TAL SL
Total/NA	Prep	PrecSep_0			569988	06/14/22 15:12	MS	TAL SL
Total/NA	Analysis	904.0		1	571243	06/23/22 12:22	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Client Sample ID: T06S

Lab Sample ID: 500-217628-15

Date Collected: 06/13/22 09:35

Matrix: Water

Date Received: 06/13/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573477	07/11/22 13:33	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Client Sample ID: T05S

Lab Sample ID: 500-217628-16

Date Collected: 06/13/22 11:23

Matrix: Water

Date Received: 06/13/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573477	07/11/22 13:33	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Client Sample ID: T03S

Lab Sample ID: 500-217628-17

Date Collected: 06/13/22 13:50

Matrix: Water

Date Received: 06/13/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573477	07/11/22 13:33	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Client Sample ID: T01S
Date Collected: 06/14/22 09:42
Date Received: 06/14/22 14:57

Lab Sample ID: 500-217628-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573477	07/11/22 13:33	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:09	EMH	TAL SL

Client Sample ID: T02S
Date Collected: 06/14/22 12:39
Date Received: 06/14/22 14:57

Lab Sample ID: 500-217628-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573477	07/11/22 13:33	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571619	06/24/22 10:44	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573825	07/13/22 23:14	EMH	TAL SL

Client Sample ID: T08S
Date Collected: 06/21/22 09:41
Date Received: 06/21/22 11:23

Lab Sample ID: 500-217628-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			571375	06/23/22 13:51	MS	TAL SL
Total/NA	Analysis	903.0		1	574072	07/15/22 13:51	FLC	TAL SL
Total/NA	Prep	PrecSep_0			571379	06/23/22 14:22	MS	TAL SL
Total/NA	Analysis	904.0		1	572655	07/05/22 12:20	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	574444	07/19/22 12:07	CAH	TAL SL

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: GW

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
500-217628-11	G30S	82.5
500-217628-12	R32S	99.5
500-217628-13	G45S	103

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
500-217628-1	G33S	60.0
500-217628-3	G20S	98.8
500-217628-4	R08S	98.8
500-217628-4 DU	R08S	99.8
500-217628-5	R08S DUP	98.3
500-217628-6	T09S	95.3
500-217628-6 DU	T09S	83.0
500-217628-7	G44S	85.8
500-217628-7 DU	G44S	96.0
500-217628-8	G46S	94.3
500-217628-9	G48S	100
500-217628-10	G47S	98.3
500-217628-14	G31S	91.5
500-217628-15	T06S	84.3
500-217628-16	T05S	102
500-217628-17	T03S	92.5
500-217628-18	T01S	74.0
500-217628-19	T02S	92.5
500-217628-20	T08S	89.9
500-217628-20 DU	T08S	86.6
LCS 160-569239/1-A	Lab Control Sample	97.0
LCS 160-569453/2-A	Lab Control Sample	81.8
LCS 160-569983/2-A	Lab Control Sample	70.0
LCS 160-570468/2-A	Lab Control Sample	102
LCS 160-571375/2-A	Lab Control Sample	94.9
MB 160-569239/23-A	Method Blank	105
MB 160-569453/1-A	Method Blank	58.5
MB 160-569983/1-A	Method Blank	74.5
MB 160-570468/1-A	Method Blank	103
MB 160-571375/1-A	Method Blank	71.9

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 2Q22 (RAD)

Job ID: 500-217628-2

Method: 904.0 - Radium-228 (GFPC)

Matrix: GW

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-217628-11	G30S	82.5	86.4
500-217628-12	R32S	99.5	87.5
500-217628-13	G45S	103	86.0

Tracer/Carrier Legend

Ba = Ba Carrier
 Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-217628-1	G33S	60.0	84.5
500-217628-3	G20S	98.8	86.0
500-217628-4	R08S	98.8	85.2
500-217628-4 DU	R08S	99.8	85.6
500-217628-5	R08S DUP	98.3	86.0
500-217628-6	T09S	95.3	87.5
500-217628-6 DU	T09S	83.0	87.1
500-217628-7	G44S	85.8	89.7
500-217628-7 DU	G44S	96.0	93.1
500-217628-8	G46S	94.3	94.6
500-217628-9	G48S	100	86.0
500-217628-10	G47S	98.3	85.6
500-217628-14	G31S	91.5	88.2
500-217628-15	T06S	84.3	86.4
500-217628-16	T05S	102	85.2
500-217628-17	T03S	92.5	86.7
500-217628-18	T01S	74.0	86.7
500-217628-19	T02S	92.5	88.2
500-217628-20	T08S	89.9	86.4
500-217628-20 DU	T08S	86.6	85.2
LCS 160-569243/1-A	Lab Control Sample	97.0	83.4
LCS 160-569459/2-A	Lab Control Sample	81.8	88.6
LCS 160-569988/2-A	Lab Control Sample	70.0	82.2
LCS 160-570471/2-A	Lab Control Sample	102	88.6
LCS 160-571379/2-A	Lab Control Sample	94.9	85.6
MB 160-569243/23-A	Method Blank	105	91.6
MB 160-569459/1-A	Method Blank	58.5	84.1
MB 160-569988/1-A	Method Blank	74.5	79.6
MB 160-570471/1-A	Method Blank	103	87.9
MB 160-571379/1-A	Method Blank	71.9	86.0

Tracer/Carrier Legend

Ba = Ba Carrier
 Y = Y Carrier


ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-222492-1
Client Project/Site: Joliet #9 (Quarry) CCR 3Q22

For:
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Attn: John Niedzwiecki



Authorized for release by:
10/19/2022 4:22:46 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Job ID: 500-222492-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-222492-1

Comments

No additional comments.

Receipt

The samples were received on 9/19/2022 2:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.1° C, 0.8° C, 1.4° C, 1.5° C, 1.5° C and 3.0° C.

Metals

Method 6020A: The continuing calibration verification (CCV) at line 44, was outside the control limits for Boron bracketing the laboratory control sample (LCS). The LCS were within the method control limits. The associated samples were bracketed by CCV that were within control limits. Therefore, the data have been reported.

Method 6020A: The low level continuing calibration verification (ICVL/CCVL) associated with batch 500-676808 recovered above the upper control limit for Beryllium. The samples associated with this ICVL/CCVL were non-detects for the affected analyte; therefore, the data have been reported.

Method 6020A: The initial low level continuing calibration verification (ICVL) associated with batch 500-677063 recovered above the upper control limit for Beryllium. The samples associated with this ICVL were non-detects for the affected analyte; therefore, the data have been reported.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-677574. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The initial low level continuing calibration verification (ICVL) associated with batch 500-677574 recovered above the upper control limit for Beryllium. The samples associated with this ICVL were non-detects for the affected analyte; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-676645 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-677311 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 Cl- E	Chloride, Total	SM	EET CHI
SM 4500 F C	Fluoride	SM	EET CHI
SM 4500 SO4 E	Sulfate, Total	SM	EET CHI
Field Sampling	Field Sampling	EPA	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-222492-1	G20S	Water	09/19/22 09:05	09/19/22 14:10
500-222492-2	R08S	Water	09/19/22 13:00	09/19/22 14:10
500-222492-3	G47S	Water	09/22/22 10:35	09/22/22 14:47
500-222492-4	G48S	Water	09/22/22 12:59	09/22/22 14:47
500-222492-5	G46S	Water	09/26/22 09:11	09/26/22 14:25
500-222492-6	G45S	Water	09/26/22 10:31	09/26/22 14:25
500-222492-7	G44S	Water	09/26/22 12:18	09/26/22 14:25
500-222492-8	R32S	Water	09/26/22 13:21	09/26/22 14:25
500-222492-9	T09S	Water	09/27/22 09:08	09/27/22 14:28
500-222492-10	T06S	Water	09/27/22 10:30	09/27/22 14:28
500-222492-11	T05S	Water	09/27/22 11:46	09/27/22 14:28
500-222492-12	G31S	Water	09/27/22 13:31	09/27/22 14:28
500-222492-13	T01S	GW	09/28/22 09:32	09/28/22 15:27
500-222492-14	G30S	GW	09/28/22 12:03	09/28/22 15:27
500-222492-15	G33S	Water	09/28/22 14:03	09/28/22 15:27
500-222492-16	T02S	Water	09/29/22 09:29	09/29/22 14:58
500-222492-17	T08S	Water	09/29/22 11:31	09/29/22 14:58
500-222492-18	T03S	Water	09/29/22 13:37	09/29/22 14:58
500-222492-19	DUP	Water	09/29/22 13:37	09/29/22 14:58



Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G20S

Lab Sample ID: 500-222492-1

Date Collected: 09/19/22 09:05

Matrix: Water

Date Received: 09/19/22 14:10

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/22/22 09:12	09/23/22 15:33	1
Arsenic	0.0017		0.0010		mg/L		09/22/22 09:12	09/23/22 15:33	1
Barium	0.090		0.0025		mg/L		09/22/22 09:12	09/23/22 15:33	1
Beryllium	<0.0010		0.0010		mg/L		09/22/22 09:12	09/23/22 15:33	1
Boron	1.4		0.25		mg/L		09/22/22 09:12	09/23/22 18:27	5
Cadmium	<0.00050		0.00050		mg/L		09/22/22 09:12	09/23/22 15:33	1
Calcium	58		0.20		mg/L		09/22/22 09:12	09/23/22 15:33	1
Chromium	<0.0050		0.0050		mg/L		09/22/22 09:12	09/23/22 15:33	1
Cobalt	0.014		0.0010		mg/L		09/22/22 09:12	09/23/22 15:33	1
Lead	<0.00050		0.00050		mg/L		09/22/22 09:12	09/23/22 15:33	1
Lithium	0.039		0.010		mg/L		09/22/22 09:12	09/23/22 15:33	1
Molybdenum	0.012		0.0050		mg/L		09/22/22 09:12	09/23/22 15:33	1
Selenium	<0.0025		0.0025		mg/L		09/22/22 09:12	09/23/22 15:33	1
Thallium	<0.0020		0.0020		mg/L		09/22/22 09:12	09/23/22 15:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/22/22 15:25	09/23/22 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	410		10		mg/L			09/26/22 13:48	1
Chloride (SM 4500 Cl- E)	17		2.0		mg/L			09/22/22 12:41	1
Fluoride (SM 4500 F C)	0.78		0.10		mg/L			09/22/22 16:34	1
Sulfate (SM 4500 SO4 E)	55	F1	10		mg/L			09/27/22 14:12	2

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	71.16				ft			09/19/22 09:05	1
Depth to Water (ft from MP)	73.94				ft			09/19/22 09:05	1
Elevation of well (ft from MP)	580.87				ft			09/19/22 09:05	1
Field pH	7.58				SU			09/19/22 09:05	1
Field Temperature	70.2				Degrees F			09/19/22 09:05	1
Ground Water Elevation	506.93				ft			09/19/22 09:05	1
Specific Conductance	661				umhos/cm			09/19/22 09:05	1
Well bottom elevation	442.28				ft			09/19/22 09:05	1
Field Turbidity	2.47				NTU			09/19/22 09:05	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: R08S

Lab Sample ID: 500-222492-2

Date Collected: 09/19/22 13:00

Matrix: Water

Date Received: 09/19/22 14:10

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/22/22 09:12	09/23/22 15:37	1
Arsenic	0.0013		0.0010		mg/L		09/22/22 09:12	09/23/22 15:37	1
Barium	0.038		0.0025		mg/L		09/22/22 09:12	09/23/22 15:37	1
Beryllium	<0.0010		0.0010		mg/L		09/22/22 09:12	09/23/22 15:37	1
Boron	8.4		1.0		mg/L		09/22/22 09:12	09/23/22 18:31	20
Cadmium	<0.00050		0.00050		mg/L		09/22/22 09:12	09/23/22 15:37	1
Calcium	140		0.20		mg/L		09/22/22 09:12	09/23/22 15:37	1
Chromium	<0.0050		0.0050		mg/L		09/22/22 09:12	09/23/22 15:37	1
Cobalt	<0.0010		0.0010		mg/L		09/22/22 09:12	09/23/22 15:37	1
Lead	<0.00050		0.00050		mg/L		09/22/22 09:12	09/23/22 15:37	1
Lithium	0.15		0.010		mg/L		09/22/22 09:12	09/23/22 15:37	1
Molybdenum	0.39		0.0050		mg/L		09/22/22 09:12	09/23/22 15:37	1
Selenium	0.015		0.0025		mg/L		09/22/22 09:12	09/23/22 15:37	1
Thallium	<0.0020		0.0020		mg/L		09/22/22 09:12	09/23/22 15:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/22/22 15:25	09/23/22 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	780		10		mg/L			09/26/22 13:50	1
Chloride (SM 4500 Cl- E)	79		4.0		mg/L			09/22/22 14:20	2
Fluoride (SM 4500 F C)	0.14		0.10		mg/L			09/22/22 16:37	1
Sulfate (SM 4500 SO4 E)	430		100		mg/L			09/27/22 14:13	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	64.66				ft			09/19/22 13:00	1
Depth to Water (ft from MP)	67.21				ft			09/19/22 13:00	1
Elevation of well (ft from MP)	578.66				ft			09/19/22 13:00	1
Field pH	8.47				SU			09/19/22 13:00	1
Field Temperature	60.1				Degrees F			09/19/22 13:00	1
Ground Water Elevation	511.45				ft			09/19/22 13:00	1
Specific Conductance	1033				umhos/cm			09/19/22 13:00	1
Well bottom elevation	453.08				ft			09/19/22 13:00	1
Field Turbidity	0.36				NTU			09/19/22 13:00	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G47S

Lab Sample ID: 500-222492-3

Date Collected: 09/22/22 10:35

Matrix: Water

Date Received: 09/22/22 14:47

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/27/22 08:37	09/27/22 17:18	1
Arsenic	0.064		0.0010		mg/L		09/27/22 08:37	09/27/22 17:18	1
Barium	0.011		0.0025		mg/L		09/27/22 08:37	09/27/22 17:18	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		09/27/22 08:37	09/27/22 17:18	1
Boron	10		1.0		mg/L		09/27/22 08:37	09/28/22 12:25	20
Cadmium	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:18	1
Calcium	5.8		0.20		mg/L		09/27/22 08:37	09/27/22 17:18	1
Chromium	<0.0050		0.0050		mg/L		09/27/22 08:37	09/27/22 17:18	1
Cobalt	<0.0010		0.0010		mg/L		09/27/22 08:37	09/27/22 17:18	1
Lead	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:18	1
Lithium	0.044		0.010		mg/L		09/27/22 08:37	09/27/22 17:18	1
Molybdenum	0.71		0.0050		mg/L		09/27/22 08:37	09/27/22 17:18	1
Selenium	<0.0025		0.0025		mg/L		09/27/22 08:37	09/27/22 17:18	1
Thallium	<0.0020		0.0020		mg/L		09/27/22 08:37	09/27/22 17:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/27/22 15:20	09/28/22 07:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			09/28/22 17:37	1
Chloride (SM 4500 Cl- E)	100		10		mg/L			09/23/22 16:15	5
Fluoride (SM 4500 F C)	0.90		0.10		mg/L			10/01/22 11:00	1
Sulfate (SM 4500 SO4 E)	510		100		mg/L			09/27/22 14:13	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	86.35				ft			09/22/22 10:35	1
Depth to Water (ft from MP)	88.85				ft			09/22/22 10:35	1
Elevation of well (ft from MP)	612.23				ft			09/22/22 10:35	1
Field pH	9.85				SU			09/22/22 10:35	1
Field Temperature	58.3				Degrees F			09/22/22 10:35	1
Ground Water Elevation	523.38				ft			09/22/22 10:35	1
Specific Conductance	1810				umhos/cm			09/22/22 10:35	1
Well bottom elevation	459.84				ft			09/22/22 10:35	1
Field Turbidity	0.35				NTU			09/22/22 10:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G48S

Lab Sample ID: 500-222492-4

Date Collected: 09/22/22 12:59

Matrix: Water

Date Received: 09/22/22 14:47

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/27/22 08:37	09/27/22 17:21	1
Arsenic	0.011		0.0010		mg/L		09/27/22 08:37	09/27/22 17:21	1
Barium	0.019		0.0025		mg/L		09/27/22 08:37	09/27/22 17:21	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		09/27/22 08:37	09/27/22 17:21	1
Boron	6.8		1.0		mg/L		09/27/22 08:37	09/28/22 12:29	20
Cadmium	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:21	1
Calcium	34		0.20		mg/L		09/27/22 08:37	09/27/22 17:21	1
Chromium	<0.0050		0.0050		mg/L		09/27/22 08:37	09/27/22 17:21	1
Cobalt	<0.0010		0.0010		mg/L		09/27/22 08:37	09/27/22 17:21	1
Lead	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:21	1
Lithium	0.023		0.010		mg/L		09/27/22 08:37	09/27/22 17:21	1
Molybdenum	0.43		0.0050		mg/L		09/27/22 08:37	09/27/22 17:21	1
Selenium	<0.0025		0.0025		mg/L		09/27/22 08:37	09/27/22 17:21	1
Thallium	<0.0020		0.0020		mg/L		09/27/22 08:37	09/27/22 17:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/27/22 15:20	09/28/22 07:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	950		10		mg/L			09/28/22 17:42	1
Chloride (SM 4500 Cl- E)	98		10		mg/L			09/23/22 16:16	5
Fluoride (SM 4500 F C)	0.97		0.10		mg/L			10/01/22 11:13	1
Sulfate (SM 4500 SO4 E)	430		100		mg/L			09/27/22 14:13	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	102.41				ft			09/22/22 12:59	1
Depth to Water (ft from MP)	104.86				ft			09/22/22 12:59	1
Elevation of well (ft from MP)	620.77				ft			09/22/22 12:59	1
Field pH	8.14				SU			09/22/22 12:59	1
Field Temperature	59.2				Degrees F			09/22/22 12:59	1
Ground Water Elevation	515.91				ft			09/22/22 12:59	1
Specific Conductance	1445				umhos/cm			09/22/22 12:59	1
Well bottom elevation	468.32				ft			09/22/22 12:59	1
Field Turbidity	0.96				NTU			09/22/22 12:59	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G46S

Lab Sample ID: 500-222492-5

Date Collected: 09/26/22 09:11

Matrix: Water

Date Received: 09/26/22 14:25

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/27/22 08:37	09/27/22 17:32	1
Arsenic	0.11		0.0010		mg/L		09/27/22 08:37	09/27/22 17:32	1
Barium	0.057		0.0025		mg/L		09/27/22 08:37	09/27/22 17:32	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		09/27/22 08:37	09/27/22 17:32	1
Boron	11		2.5		mg/L		09/27/22 08:37	09/28/22 12:32	50
Cadmium	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:32	1
Calcium	120		0.20		mg/L		09/27/22 08:37	09/27/22 17:32	1
Chromium	<0.0050		0.0050		mg/L		09/27/22 08:37	09/27/22 17:32	1
Cobalt	<0.0010		0.0010		mg/L		09/27/22 08:37	09/27/22 17:32	1
Lead	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:32	1
Lithium	0.19		0.010		mg/L		09/27/22 08:37	09/27/22 17:32	1
Molybdenum	1.7		0.0050		mg/L		09/27/22 08:37	09/27/22 17:32	1
Selenium	<0.0025		0.0025		mg/L		09/27/22 08:37	09/27/22 17:32	1
Thallium	<0.0020		0.0020		mg/L		09/27/22 08:37	09/27/22 17:32	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/27/22 15:20	09/28/22 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			09/30/22 14:08	1
Chloride (SM 4500 Cl- E)	63		10		mg/L			09/27/22 12:10	5
Fluoride (SM 4500 F C)	0.31		0.10		mg/L			10/01/22 11:15	1
Sulfate (SM 4500 SO4 E)	580		100		mg/L			09/27/22 14:13	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	93.90				ft			09/26/22 09:11	1
Depth to Water (ft from MP)	96.60				ft			09/26/22 09:11	1
Elevation of well (ft from MP)	601.41				ft			09/26/22 09:11	1
Field pH	7.31				SU			09/26/22 09:11	1
Field Temperature	55.2				Degrees F			09/26/22 09:11	1
Ground Water Elevation	504.81				ft			09/26/22 09:11	1
Specific Conductance	1388				umhos/cm			09/26/22 09:11	1
Well bottom elevation	453.62				ft			09/26/22 09:11	1
Field Turbidity	34.40				NTU			09/26/22 09:11	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G45S

Lab Sample ID: 500-222492-6

Date Collected: 09/26/22 10:31

Matrix: Water

Date Received: 09/26/22 14:25

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/27/22 08:37	09/27/22 17:35	1
Arsenic	0.0086		0.0010		mg/L		09/27/22 08:37	09/27/22 17:35	1
Barium	0.042		0.0025		mg/L		09/27/22 08:37	09/27/22 17:35	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		09/27/22 08:37	09/27/22 17:35	1
Boron	0.48		0.050		mg/L		09/27/22 08:37	09/28/22 12:35	1
Cadmium	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:35	1
Calcium	97		0.20		mg/L		09/27/22 08:37	09/27/22 17:35	1
Chromium	<0.0050		0.0050		mg/L		09/27/22 08:37	09/27/22 17:35	1
Cobalt	<0.0010		0.0010		mg/L		09/27/22 08:37	09/27/22 17:35	1
Lead	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:35	1
Lithium	0.029		0.010		mg/L		09/27/22 08:37	09/27/22 17:35	1
Molybdenum	0.011		0.0050		mg/L		09/27/22 08:37	09/27/22 17:35	1
Selenium	<0.0025		0.0025		mg/L		09/27/22 08:37	09/27/22 17:35	1
Thallium	<0.0020		0.0020		mg/L		09/27/22 08:37	09/27/22 17:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/27/22 15:20	09/28/22 07:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	830		10		mg/L			09/30/22 14:08	1
Chloride (SM 4500 Cl- E)	150		20		mg/L			09/27/22 12:10	10
Fluoride (SM 4500 F C)	0.35		0.10		mg/L			10/01/22 11:18	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			09/27/22 14:14	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	64.34				ft			09/26/22 10:31	1
Depth to Water (ft from MP)	67.31				ft			09/26/22 10:31	1
Elevation of well (ft from MP)	603.80				ft			09/26/22 10:31	1
Field pH	7.14				SU			09/26/22 10:31	1
Field Temperature	57.2				Degrees F			09/26/22 10:31	1
Ground Water Elevation	536.49				ft			09/26/22 10:31	1
Specific Conductance	1039				umhos/cm			09/26/22 10:31	1
Well bottom elevation	471.05				ft			09/26/22 10:31	1
Field Turbidity	0.29				NTU			09/26/22 10:31	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G44S

Lab Sample ID: 500-222492-7

Date Collected: 09/26/22 12:18

Matrix: Water

Date Received: 09/26/22 14:25

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/27/22 08:37	09/27/22 17:38	1
Arsenic	<0.0010		0.0010		mg/L		09/27/22 08:37	09/27/22 17:38	1
Barium	0.065		0.0025		mg/L		09/27/22 08:37	09/27/22 17:38	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		09/27/22 08:37	09/27/22 17:38	1
Boron	1.8		0.25		mg/L		09/27/22 08:37	09/28/22 12:39	5
Cadmium	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:38	1
Calcium	130		0.20		mg/L		09/27/22 08:37	09/27/22 17:38	1
Chromium	<0.0050		0.0050		mg/L		09/27/22 08:37	09/27/22 17:38	1
Cobalt	<0.0010		0.0010		mg/L		09/27/22 08:37	09/27/22 17:38	1
Lead	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:38	1
Lithium	0.027		0.010		mg/L		09/27/22 08:37	09/27/22 17:38	1
Molybdenum	0.24		0.0050		mg/L		09/27/22 08:37	09/27/22 17:38	1
Selenium	<0.0025		0.0025		mg/L		09/27/22 08:37	09/27/22 17:38	1
Thallium	<0.0020		0.0020		mg/L		09/27/22 08:37	09/27/22 17:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/27/22 15:20	09/28/22 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	810		10		mg/L			09/30/22 14:08	1
Chloride (SM 4500 Cl- E)	69		20		mg/L			09/27/22 12:11	10
Fluoride (SM 4500 F C)	0.21		0.10		mg/L			10/01/22 11:21	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			09/27/22 14:15	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	78.06				ft			09/26/22 12:18	1
Depth to Water (ft from MP)	80.24				ft			09/26/22 12:18	1
Elevation of well (ft from MP)	586.68				ft			09/26/22 12:18	1
Field pH	7.01				SU			09/26/22 12:18	1
Field Temperature	57.4				Degrees F			09/26/22 12:18	1
Ground Water Elevation	506.44				ft			09/26/22 12:18	1
Specific Conductance	1094				umhos/cm			09/26/22 12:18	1
Well bottom elevation	455.11				ft			09/26/22 12:18	1
Field Turbidity	0.86				NTU			09/26/22 12:18	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: R32S

Lab Sample ID: 500-222492-8

Date Collected: 09/26/22 13:21

Matrix: Water

Date Received: 09/26/22 14:25

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/27/22 08:37	09/27/22 17:42	1
Arsenic	0.0032		0.0010		mg/L		09/27/22 08:37	09/27/22 17:42	1
Barium	0.034		0.0025		mg/L		09/27/22 08:37	09/27/22 17:42	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		09/27/22 08:37	09/27/22 17:42	1
Boron	5.1		1.0		mg/L		09/27/22 08:37	09/28/22 12:42	20
Cadmium	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:42	1
Calcium	130		0.20		mg/L		09/27/22 08:37	09/27/22 17:42	1
Chromium	<0.0050		0.0050		mg/L		09/27/22 08:37	09/27/22 17:42	1
Cobalt	<0.0010		0.0010		mg/L		09/27/22 08:37	09/27/22 17:42	1
Lead	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 17:42	1
Lithium	0.12		0.010		mg/L		09/27/22 08:37	09/27/22 17:42	1
Molybdenum	0.69		0.0050		mg/L		09/27/22 08:37	09/27/22 17:42	1
Selenium	<0.0025		0.0025		mg/L		09/27/22 08:37	09/27/22 17:42	1
Thallium	<0.0020		0.0020		mg/L		09/27/22 08:37	09/27/22 17:42	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/27/22 15:20	09/28/22 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	870		10		mg/L			09/30/22 14:08	1
Chloride (SM 4500 Cl- E)	57		10		mg/L			09/27/22 12:11	5
Fluoride (SM 4500 F C)	0.30		0.10		mg/L			10/01/22 11:24	1
Sulfate (SM 4500 SO4 E)	450		100		mg/L			09/27/22 14:15	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	18.14				ft			09/26/22 13:21	1
Depth to Water (ft from MP)	20.17				ft			09/26/22 13:21	1
Elevation of well (ft from MP)	536.97				ft			09/26/22 13:21	1
Field pH	7.23				SU			09/26/22 13:21	1
Field Temperature	53.6				Degrees F			09/26/22 13:21	1
Ground Water Elevation	516.80				ft			09/26/22 13:21	1
Specific Conductance	1022				umhos/cm			09/26/22 13:21	1
Well bottom elevation	457.84				ft			09/26/22 13:21	1
Field Turbidity	0.66				NTU			09/26/22 13:21	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: T09S

Lab Sample ID: 500-222492-9

Date Collected: 09/27/22 09:08

Matrix: Water

Date Received: 09/27/22 14:28

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/28/22 08:14	09/28/22 16:23	1
Arsenic	0.0029		0.0010		mg/L		09/28/22 08:14	09/28/22 16:23	1
Barium	0.062		0.0025		mg/L		09/28/22 08:14	09/28/22 16:23	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/28/22 08:14	09/28/22 16:23	1
Boron	7.6		1.0		mg/L		09/28/22 08:14	09/29/22 12:57	20
Cadmium	<0.00050		0.00050		mg/L		09/28/22 08:14	09/28/22 16:23	1
Calcium	130		0.20		mg/L		09/28/22 08:14	09/28/22 16:23	1
Chromium	<0.0050		0.0050		mg/L		09/28/22 08:14	09/28/22 16:23	1
Cobalt	0.0012		0.0010		mg/L		09/28/22 08:14	09/28/22 16:23	1
Lead	0.00070		0.00050		mg/L		09/28/22 08:14	09/28/22 16:23	1
Lithium	0.096		0.010		mg/L		09/28/22 08:14	09/28/22 16:23	1
Molybdenum	1.3		0.0050		mg/L		09/28/22 08:14	09/28/22 16:23	1
Selenium	<0.0025		0.0025		mg/L		09/28/22 08:14	09/28/22 16:23	1
Thallium	<0.0020		0.0020		mg/L		09/28/22 08:14	09/28/22 16:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/28/22 15:10	09/29/22 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	990		10		mg/L			09/30/22 15:17	1
Chloride (SM 4500 Cl- E)	61		10		mg/L			09/30/22 09:59	5
Fluoride (SM 4500 F C)	0.33		0.10		mg/L			10/01/22 11:34	1
Sulfate (SM 4500 SO4 E)	530		100		mg/L			09/30/22 12:27	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	96.91				ft			09/27/22 09:08	1
Depth to Water (ft from MP)	99.31				ft			09/27/22 09:08	1
Elevation of well (ft from MP)	603.48				ft			09/27/22 09:08	1
Field pH	7.32				SU			09/27/22 09:08	1
Field Temperature	51.1				Degrees F			09/27/22 09:08	1
Ground Water Elevation	504.17				ft			09/27/22 09:08	1
Specific Conductance	1299				umhos/cm			09/27/22 09:08	1
Well bottom elevation	444.80				ft			09/27/22 09:08	1
Field Turbidity	3.23				NTU			09/27/22 09:08	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: T06S

Lab Sample ID: 500-222492-10

Date Collected: 09/27/22 10:30

Matrix: Water

Date Received: 09/27/22 14:28

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/28/22 08:14	09/28/22 16:26	1
Arsenic	<0.0010		0.0010		mg/L		09/28/22 08:14	09/28/22 16:26	1
Barium	0.033		0.0025		mg/L		09/28/22 08:14	09/28/22 16:26	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/28/22 08:14	09/28/22 16:26	1
Boron	0.85		0.050		mg/L		09/28/22 08:14	09/29/22 13:01	1
Cadmium	<0.00050		0.00050		mg/L		09/28/22 08:14	09/28/22 16:26	1
Calcium	86		0.20		mg/L		09/28/22 08:14	09/28/22 16:26	1
Chromium	<0.0050		0.0050		mg/L		09/28/22 08:14	09/28/22 16:26	1
Cobalt	<0.0010		0.0010		mg/L		09/28/22 08:14	09/28/22 16:26	1
Lead	<0.00050		0.00050		mg/L		09/28/22 08:14	09/28/22 16:26	1
Lithium	0.024		0.010		mg/L		09/28/22 08:14	09/28/22 16:26	1
Molybdenum	0.016		0.0050		mg/L		09/28/22 08:14	09/28/22 16:26	1
Selenium	<0.0025		0.0025		mg/L		09/28/22 08:14	09/28/22 16:26	1
Thallium	<0.0020		0.0020		mg/L		09/28/22 08:14	09/28/22 16:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/28/22 15:10	09/29/22 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	460		10		mg/L			09/30/22 15:20	1
Chloride (SM 4500 Cl- E)	15		2.0		mg/L			09/30/22 09:41	1
Fluoride (SM 4500 F C)	0.42		0.10		mg/L			10/01/22 11:37	1
Sulfate (SM 4500 SO4 E)	93		50		mg/L			09/30/22 12:28	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	112.46				ft			09/27/22 10:30	1
Depth to Water (ft from MP)	114.76				ft			09/27/22 10:30	1
Elevation of well (ft from MP)	621.05				ft			09/27/22 10:30	1
Field pH	7.24				SU			09/27/22 10:30	1
Field Temperature	55.8				Degrees F			09/27/22 10:30	1
Ground Water Elevation	506.29				ft			09/27/22 10:30	1
Specific Conductance	760				umhos/cm			09/27/22 10:30	1
Well bottom elevation	447.94				ft			09/27/22 10:30	1
Field Turbidity	0.58				NTU			09/27/22 10:30	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: T05S

Lab Sample ID: 500-222492-11

Date Collected: 09/27/22 11:46

Matrix: Water

Date Received: 09/27/22 14:28

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0044		0.0030		mg/L		09/28/22 08:14	09/28/22 16:30	1
Arsenic	0.12		0.0010		mg/L		09/28/22 08:14	09/28/22 16:30	1
Barium	0.0096		0.0025		mg/L		09/28/22 08:14	09/28/22 16:30	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/28/22 08:14	09/28/22 16:30	1
Boron	12		1.0		mg/L		09/28/22 08:14	09/29/22 13:04	20
Cadmium	<0.00050		0.00050		mg/L		09/28/22 08:14	09/28/22 16:30	1
Calcium	5.9		0.20		mg/L		09/28/22 08:14	09/28/22 16:30	1
Chromium	<0.0050		0.0050		mg/L		09/28/22 08:14	09/28/22 16:30	1
Cobalt	<0.0010		0.0010		mg/L		09/28/22 08:14	09/28/22 16:30	1
Lead	<0.00050		0.00050		mg/L		09/28/22 08:14	09/28/22 16:30	1
Lithium	0.019		0.010		mg/L		09/28/22 08:14	09/28/22 16:30	1
Molybdenum	0.91		0.0050		mg/L		09/28/22 08:14	09/28/22 16:30	1
Selenium	0.0070		0.0025		mg/L		09/28/22 08:14	09/28/22 16:30	1
Thallium	<0.0020		0.0020		mg/L		09/28/22 08:14	09/28/22 16:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/28/22 15:10	09/29/22 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			09/30/22 15:22	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			09/30/22 09:59	10
Fluoride (SM 4500 F C)	1.7		0.10		mg/L			10/01/22 11:40	1
Sulfate (SM 4500 SO4 E)	630		100		mg/L			09/30/22 12:41	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	124.13				ft			09/27/22 11:46	1
Depth to Water (ft from MP)	126.53				ft			09/27/22 11:46	1
Elevation of well (ft from MP)	623.50				ft			09/27/22 11:46	1
Field pH	9.25				SU			09/27/22 11:46	1
Field Temperature	62.6				Degrees F			09/27/22 11:46	1
Ground Water Elevation	496.97				ft			09/27/22 11:46	1
Specific Conductance	2110				umhos/cm			09/27/22 11:46	1
Well bottom elevation	448.35				ft			09/27/22 11:46	1
Field Turbidity	0.68				NTU			09/27/22 11:46	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G31S

Lab Sample ID: 500-222492-12

Date Collected: 09/27/22 13:31

Matrix: Water

Date Received: 09/27/22 14:28

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/28/22 08:14	09/28/22 16:33	1
Arsenic	0.0040		0.0010		mg/L		09/28/22 08:14	09/28/22 16:33	1
Barium	0.050		0.0025		mg/L		09/28/22 08:14	09/28/22 16:33	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/28/22 08:14	09/28/22 16:33	1
Boron	4.5		0.50		mg/L		09/28/22 08:14	09/29/22 13:08	10
Cadmium	<0.00050		0.00050		mg/L		09/28/22 08:14	09/28/22 16:33	1
Calcium	160		0.20		mg/L		09/28/22 08:14	09/28/22 16:33	1
Chromium	<0.0050		0.0050		mg/L		09/28/22 08:14	09/28/22 16:33	1
Cobalt	<0.0010		0.0010		mg/L		09/28/22 08:14	09/28/22 16:33	1
Lead	<0.00050		0.00050		mg/L		09/28/22 08:14	09/28/22 16:33	1
Lithium	0.094		0.010		mg/L		09/28/22 08:14	09/28/22 16:33	1
Molybdenum	0.80		0.0050		mg/L		09/28/22 08:14	09/28/22 16:33	1
Selenium	<0.0025		0.0025		mg/L		09/28/22 08:14	09/28/22 16:33	1
Thallium	<0.0020		0.0020		mg/L		09/28/22 08:14	09/28/22 16:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/28/22 15:10	09/29/22 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			09/30/22 15:25	1
Chloride (SM 4500 Cl- E)	160		20		mg/L			09/30/22 09:59	10
Fluoride (SM 4500 F C)	0.24		0.10		mg/L			10/01/22 11:43	1
Sulfate (SM 4500 SO4 E)	480		100		mg/L			09/30/22 12:28	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	24.17				ft			09/27/22 13:31	1
Depth to Water (ft from MP)	26.75				ft			09/27/22 13:31	1
Elevation of well (ft from MP)	535.73				ft			09/27/22 13:31	1
Field pH	7.60				SU			09/27/22 13:31	1
Field Temperature	58.8				Degrees F			09/27/22 13:31	1
Ground Water Elevation	508.98				ft			09/27/22 13:31	1
Specific Conductance	1600				umhos/cm			09/27/22 13:31	1
Well bottom elevation	453.36				ft			09/27/22 13:31	1
Field Turbidity	0.69				NTU			09/27/22 13:31	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: T01S

Lab Sample ID: 500-222492-13

Date Collected: 09/28/22 09:32

Matrix: GW

Date Received: 09/28/22 15:27

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/29/22 09:11	09/30/22 19:40	1
Arsenic	0.0082		0.0010		mg/L		09/29/22 09:11	09/30/22 19:40	1
Barium	0.045		0.0025		mg/L		09/29/22 09:11	09/30/22 19:40	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/29/22 09:11	09/30/22 19:40	1
Boron	4.2		0.50		mg/L		09/29/22 09:11	10/04/22 15:30	10
Cadmium	<0.00050		0.00050		mg/L		09/29/22 09:11	09/30/22 19:40	1
Calcium	51		0.20		mg/L		09/29/22 09:11	09/30/22 19:40	1
Chromium	<0.0050		0.0050		mg/L		09/29/22 09:11	09/30/22 19:40	1
Cobalt	0.0013		0.0010		mg/L		09/29/22 09:11	09/30/22 19:40	1
Lead	0.00052		0.00050		mg/L		09/29/22 09:11	09/30/22 19:40	1
Lithium	0.012		0.010		mg/L		09/29/22 09:11	09/30/22 19:40	1
Molybdenum	0.34		0.0050		mg/L		09/29/22 09:11	09/30/22 19:40	1
Selenium	<0.0025		0.0025		mg/L		09/29/22 09:11	09/30/22 19:40	1
Thallium	<0.0020		0.0020		mg/L		09/29/22 09:11	09/30/22 19:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/29/22 15:40	09/30/22 07:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	900		10		mg/L			10/04/22 15:30	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			09/30/22 10:00	10
Fluoride (SM 4500 F C)	1.1		0.10		mg/L			10/01/22 11:45	1
Sulfate (SM 4500 SO4 E)	410		50		mg/L			09/30/22 12:28	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	123.48				ft			09/28/22 09:32	1
Depth to Water (ft from MP)	125.96				ft			09/28/22 09:32	1
Elevation of well (ft from MP)	621.84				ft			09/28/22 09:32	1
Field pH	7.71				SU			09/28/22 09:32	1
Field Temperature	51.8				Degrees F			09/28/22 09:32	1
Ground Water Elevation	495.88				ft			09/28/22 09:32	1
Specific Conductance	1371				umhos/cm			09/28/22 09:32	1
Well bottom elevation	451.46				ft			09/28/22 09:32	1
Field Turbidity	28.40				NTU			09/28/22 09:32	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G30S

Lab Sample ID: 500-222492-14

Date Collected: 09/28/22 12:03

Matrix: GW

Date Received: 09/28/22 15:27

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/29/22 09:11	09/30/22 19:43	1
Arsenic	0.0023		0.0010		mg/L		09/29/22 09:11	09/30/22 19:43	1
Barium	0.044		0.0025		mg/L		09/29/22 09:11	09/30/22 19:43	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/29/22 09:11	09/30/22 19:43	1
Boron	4.9		0.50		mg/L		09/29/22 09:11	10/04/22 15:33	10
Cadmium	<0.00050		0.00050		mg/L		09/29/22 09:11	09/30/22 19:43	1
Calcium	60		0.20		mg/L		09/29/22 09:11	09/30/22 19:43	1
Chromium	<0.0050		0.0050		mg/L		09/29/22 09:11	09/30/22 19:43	1
Cobalt	<0.0010		0.0010		mg/L		09/29/22 09:11	09/30/22 19:43	1
Lead	<0.00050		0.00050		mg/L		09/29/22 09:11	09/30/22 19:43	1
Lithium	0.021		0.010		mg/L		09/29/22 09:11	09/30/22 19:43	1
Molybdenum	0.014		0.0050		mg/L		09/29/22 09:11	09/30/22 19:43	1
Selenium	<0.0025		0.0025		mg/L		09/29/22 09:11	09/30/22 19:43	1
Thallium	<0.0020		0.0020		mg/L		09/29/22 09:11	09/30/22 19:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/29/22 15:40	09/30/22 07:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			10/04/22 15:31	1
Chloride (SM 4500 Cl- E)	200		20		mg/L			09/30/22 10:00	10
Fluoride (SM 4500 F C)	0.98		0.10		mg/L			10/01/22 11:48	1
Sulfate (SM 4500 SO4 E)	470		100		mg/L			09/30/22 12:29	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	0.28				ft			09/28/22 12:03	1
Depth to Water (ft from MP)	2.59				ft			09/28/22 12:03	1
Elevation of well (ft from MP)	524.86				ft			09/28/22 12:03	1
Field pH	7.72				SU			09/28/22 12:03	1
Field Temperature	55.2				Degrees F			09/28/22 12:03	1
Ground Water Elevation	522.27				ft			09/28/22 12:03	1
Specific Conductance	1800				umhos/cm			09/28/22 12:03	1
Well bottom elevation	462.58				ft			09/28/22 12:03	1
Field Turbidity	0.61				NTU			09/28/22 12:03	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G33S

Lab Sample ID: 500-222492-15

Date Collected: 09/28/22 14:03

Matrix: Water

Date Received: 09/28/22 15:27

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/29/22 09:11	09/30/22 19:47	1
Arsenic	0.0022		0.0010		mg/L		09/29/22 09:11	09/30/22 19:47	1
Barium	0.086		0.0025		mg/L		09/29/22 09:11	09/30/22 19:47	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/29/22 09:11	09/30/22 19:47	1
Boron	0.91		0.25		mg/L		09/29/22 09:11	10/04/22 15:37	5
Cadmium	<0.00050		0.00050		mg/L		09/29/22 09:11	09/30/22 19:47	1
Calcium	61		0.20		mg/L		09/29/22 09:11	09/30/22 19:47	1
Chromium	<0.0050		0.0050		mg/L		09/29/22 09:11	09/30/22 19:47	1
Cobalt	<0.0010		0.0010		mg/L		09/29/22 09:11	09/30/22 19:47	1
Lead	0.0024		0.00050		mg/L		09/29/22 09:11	09/30/22 19:47	1
Lithium	0.034		0.010		mg/L		09/29/22 09:11	09/30/22 19:47	1
Molybdenum	<0.0050		0.0050		mg/L		09/29/22 09:11	09/30/22 19:47	1
Selenium	<0.0025		0.0025		mg/L		09/29/22 09:11	09/30/22 19:47	1
Thallium	<0.0020		0.0020		mg/L		09/29/22 09:11	09/30/22 19:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/29/22 15:40	09/30/22 07:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	360		10		mg/L			10/04/22 15:32	1
Chloride (SM 4500 Cl- E)	12		2.0		mg/L			09/30/22 09:43	1
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			10/01/22 11:51	1
Sulfate (SM 4500 SO4 E)	63		25		mg/L			09/30/22 12:30	5

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	31.78				ft			09/28/22 14:03	1
Depth to Water (ft from MP)	33.51				ft			09/28/22 14:03	1
Elevation of well (ft from MP)	535.67				ft			09/28/22 14:03	1
Field pH	7.32				SU			09/28/22 14:03	1
Field Temperature	61.9				Degrees F			09/28/22 14:03	1
Ground Water Elevation	502.16				ft			09/28/22 14:03	1
Specific Conductance	697				umhos/cm			09/28/22 14:03	1
Well bottom elevation	452.72				ft			09/28/22 14:03	1
Field Turbidity	15.10				NTU			09/28/22 14:03	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: T02S

Lab Sample ID: 500-222492-16

Date Collected: 09/29/22 09:29

Matrix: Water

Date Received: 09/29/22 14:58

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/30/22 08:57	09/30/22 18:31	1
Arsenic	0.0084		0.0010		mg/L		09/30/22 08:57	09/30/22 18:31	1
Barium	0.088		0.0025		mg/L		09/30/22 08:57	09/30/22 18:31	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/30/22 08:57	09/30/22 18:31	1
Boron	4.1		0.50		mg/L		09/30/22 08:57	10/04/22 14:35	10
Cadmium	<0.00050		0.00050		mg/L		09/30/22 08:57	09/30/22 18:31	1
Calcium	71		0.20		mg/L		09/30/22 08:57	09/30/22 18:31	1
Chromium	<0.0050		0.0050		mg/L		09/30/22 08:57	09/30/22 18:31	1
Cobalt	0.0036		0.0010		mg/L		09/30/22 08:57	09/30/22 18:31	1
Lead	0.0021		0.00050		mg/L		09/30/22 08:57	09/30/22 18:31	1
Lithium	0.033		0.010		mg/L		09/30/22 08:57	09/30/22 18:31	1
Molybdenum	0.40		0.0050		mg/L		09/30/22 08:57	09/30/22 18:31	1
Selenium	<0.0025		0.0025		mg/L		09/30/22 08:57	09/30/22 18:31	1
Thallium	<0.0020		0.0020		mg/L		09/30/22 08:57	09/30/22 18:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/30/22 16:30	10/03/22 07:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	810		10		mg/L			10/06/22 13:07	1
Chloride (SM 4500 Cl- E)	110		20		mg/L			09/30/22 10:00	10
Fluoride (SM 4500 F C)	0.36		0.10		mg/L			10/01/22 11:53	1
Sulfate (SM 4500 SO4 E)	320		100		mg/L			09/30/22 12:30	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	134.37				ft			09/29/22 09:29	1
Depth to Water (ft from MP)	136.70				ft			09/29/22 09:29	1
Elevation of well (ft from MP)	626.12				ft			09/29/22 09:29	1
Field pH	7.26				SU			09/29/22 09:29	1
Field Temperature	55.2				Degrees F			09/29/22 09:29	1
Ground Water Elevation	489.42				ft			09/29/22 09:29	1
Specific Conductance	1184				umhos/cm			09/29/22 09:29	1
Well bottom elevation	453.40				ft			09/29/22 09:29	1
Field Turbidity	29.90				NTU			09/29/22 09:29	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: T08S

Lab Sample ID: 500-222492-17

Date Collected: 09/29/22 11:31

Matrix: Water

Date Received: 09/29/22 14:58

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/30/22 08:57	09/30/22 18:35	1
Arsenic	0.025		0.0010		mg/L		09/30/22 08:57	09/30/22 18:35	1
Barium	0.027		0.0025		mg/L		09/30/22 08:57	09/30/22 18:35	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/30/22 08:57	09/30/22 18:35	1
Boron	8.4		1.0		mg/L		09/30/22 08:57	10/04/22 14:39	20
Cadmium	<0.00050		0.00050		mg/L		09/30/22 08:57	09/30/22 18:35	1
Calcium	20		0.20		mg/L		09/30/22 08:57	09/30/22 18:35	1
Chromium	<0.0050		0.0050		mg/L		09/30/22 08:57	09/30/22 18:35	1
Cobalt	<0.0010		0.0010		mg/L		09/30/22 08:57	09/30/22 18:35	1
Lead	<0.00050		0.00050		mg/L		09/30/22 08:57	09/30/22 18:35	1
Lithium	0.037		0.010		mg/L		09/30/22 08:57	09/30/22 18:35	1
Molybdenum	0.81		0.0050		mg/L		09/30/22 08:57	09/30/22 18:35	1
Selenium	<0.0025		0.0025		mg/L		09/30/22 08:57	09/30/22 18:35	1
Thallium	<0.0020		0.0020		mg/L		09/30/22 08:57	09/30/22 18:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/30/22 16:30	10/03/22 07:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	990		10		mg/L			10/06/22 13:08	1
Chloride (SM 4500 Cl- E)	96		20		mg/L			09/30/22 10:00	10
Fluoride (SM 4500 F C)	0.70		0.10		mg/L			10/01/22 11:55	1
Sulfate (SM 4500 SO4 E)	490		100		mg/L			09/30/22 12:31	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	128.36				ft			09/29/22 11:31	1
Depth to Water (ft from MP)	130.74				ft			09/29/22 11:31	1
Elevation of well (ft from MP)	627.55				ft			09/29/22 11:31	1
Field pH	9.17				SU			09/29/22 11:31	1
Field Temperature	68.4				Degrees F			09/29/22 11:31	1
Ground Water Elevation	496.81				ft			09/29/22 11:31	1
Specific Conductance	1324				umhos/cm			09/29/22 11:31	1
Well bottom elevation	447.38				ft			09/29/22 11:31	1
Field Turbidity	6.84				NTU			09/29/22 11:31	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: T03S

Lab Sample ID: 500-222492-18

Date Collected: 09/29/22 13:37

Matrix: Water

Date Received: 09/29/22 14:58

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/30/22 08:57	09/30/22 18:38	1
Arsenic	0.0014		0.0010		mg/L		09/30/22 08:57	09/30/22 18:38	1
Barium	0.084		0.0025		mg/L		09/30/22 08:57	09/30/22 18:38	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/30/22 08:57	09/30/22 18:38	1
Boron	2.2		0.25		mg/L		09/30/22 08:57	10/04/22 14:42	5
Cadmium	<0.00050		0.00050		mg/L		09/30/22 08:57	09/30/22 18:38	1
Calcium	110		0.20		mg/L		09/30/22 08:57	09/30/22 18:38	1
Chromium	<0.0050		0.0050		mg/L		09/30/22 08:57	09/30/22 18:38	1
Cobalt	<0.0010		0.0010		mg/L		09/30/22 08:57	09/30/22 18:38	1
Lead	<0.00050		0.00050		mg/L		09/30/22 08:57	09/30/22 18:38	1
Lithium	0.023		0.010		mg/L		09/30/22 08:57	09/30/22 18:38	1
Molybdenum	0.22		0.0050		mg/L		09/30/22 08:57	09/30/22 18:38	1
Selenium	<0.0025		0.0025		mg/L		09/30/22 08:57	09/30/22 18:38	1
Thallium	<0.0020		0.0020		mg/L		09/30/22 08:57	09/30/22 18:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/30/22 16:30	10/03/22 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	810		10		mg/L			10/06/22 13:09	1
Chloride (SM 4500 Cl- E)	110		20		mg/L			09/30/22 10:01	10
Fluoride (SM 4500 F C)	0.21		0.10		mg/L			10/01/22 11:58	1
Sulfate (SM 4500 SO4 E)	260		50		mg/L			09/30/22 12:31	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	137.54				ft			09/29/22 13:37	1
Depth to Water (ft from MP)	140.62				ft			09/29/22 13:37	1
Elevation of well (ft from MP)	629.85				ft			09/29/22 13:37	1
Field pH	7.00				SU			09/29/22 13:37	1
Field Temperature	53.8				Degrees F			09/29/22 13:37	1
Ground Water Elevation	489.23				ft			09/29/22 13:37	1
Specific Conductance	1180				umhos/cm			09/29/22 13:37	1
Well bottom elevation	456.70				ft			09/29/22 13:37	1
Field Turbidity	0.53				NTU			09/29/22 13:37	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: DUP

Lab Sample ID: 500-222492-19

Date Collected: 09/29/22 13:37

Matrix: Water

Date Received: 09/29/22 14:58

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/30/22 08:57	09/30/22 18:42	1
Arsenic	0.0016		0.0010		mg/L		09/30/22 08:57	09/30/22 18:42	1
Barium	0.081		0.0025		mg/L		09/30/22 08:57	09/30/22 18:42	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/30/22 08:57	09/30/22 18:42	1
Boron	2.4		0.25		mg/L		09/30/22 08:57	10/04/22 14:46	5
Cadmium	<0.00050		0.00050		mg/L		09/30/22 08:57	09/30/22 18:42	1
Calcium	110		0.20		mg/L		09/30/22 08:57	09/30/22 18:42	1
Chromium	<0.0050		0.0050		mg/L		09/30/22 08:57	09/30/22 18:42	1
Cobalt	<0.0010		0.0010		mg/L		09/30/22 08:57	09/30/22 18:42	1
Lead	<0.00050		0.00050		mg/L		09/30/22 08:57	09/30/22 18:42	1
Lithium	0.022		0.010		mg/L		09/30/22 08:57	09/30/22 18:42	1
Molybdenum	0.20		0.0050		mg/L		09/30/22 08:57	09/30/22 18:42	1
Selenium	<0.0025		0.0025		mg/L		09/30/22 08:57	09/30/22 18:42	1
Thallium	<0.0020		0.0020		mg/L		09/30/22 08:57	09/30/22 18:42	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/30/22 16:30	10/03/22 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	790		10		mg/L			10/06/22 13:10	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			09/30/22 10:01	10
Fluoride (SM 4500 F C)	0.21		0.10		mg/L			10/01/22 12:07	1
Sulfate (SM 4500 SO4 E)	250		100		mg/L			09/30/22 12:31	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	137.54				ft			09/29/22 13:37	1
Depth to Water (ft from MP)	140.62				ft			09/29/22 13:37	1
Elevation of well (ft from MP)	629.85				ft			09/29/22 13:37	1
Field pH	7.00				SU			09/29/22 13:37	1
Field Temperature	53.8				Degrees F			09/29/22 13:37	1
Ground Water Elevation	489.23				ft			09/29/22 13:37	1
Specific Conductance	1180				umhos/cm			09/29/22 13:37	1
Well bottom elevation	456.70				ft			09/29/22 13:37	1
Field Turbidity	0.53				NTU			09/29/22 13:37	1

Definitions/Glossary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Metals

Prep Batch: 675848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-1	G20S	Total Recoverable	Water	3005A	
500-222492-2	R08S	Total Recoverable	Water	3005A	
MB 500-675848/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-675848/26-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 500-675848/27-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Prep Batch: 675960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-1	G20S	Total/NA	Water	7470A	
500-222492-2	R08S	Total/NA	Water	7470A	
MB 500-675960/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-675960/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 676124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-1	G20S	Total/NA	Water	7470A	675960
500-222492-2	R08S	Total/NA	Water	7470A	675960
MB 500-675960/12-A	Method Blank	Total/NA	Water	7470A	675960
LCS 500-675960/13-A	Lab Control Sample	Total/NA	Water	7470A	675960

Analysis Batch: 676368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-1	G20S	Total Recoverable	Water	6020A	675848
500-222492-1	G20S	Total Recoverable	Water	6020A	675848
500-222492-2	R08S	Total Recoverable	Water	6020A	675848
500-222492-2	R08S	Total Recoverable	Water	6020A	675848
MB 500-675848/1-A	Method Blank	Total Recoverable	Water	6020A	675848
LCS 500-675848/26-A	Lab Control Sample	Total Recoverable	Water	6020A	675848
LCSD 500-675848/27-A	Lab Control Sample Dup	Total Recoverable	Water	6020A	675848

Prep Batch: 676547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-3	G47S	Total Recoverable	Water	3005A	
500-222492-4	G48S	Total Recoverable	Water	3005A	
500-222492-5	G46S	Total Recoverable	Water	3005A	
500-222492-6	G45S	Total Recoverable	Water	3005A	
500-222492-7	G44S	Total Recoverable	Water	3005A	
500-222492-8	R32S	Total Recoverable	Water	3005A	
MB 500-676547/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-676547/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 676665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-3	G47S	Total/NA	Water	7470A	
500-222492-4	G48S	Total/NA	Water	7470A	
500-222492-5	G46S	Total/NA	Water	7470A	
500-222492-6	G45S	Total/NA	Water	7470A	
500-222492-7	G44S	Total/NA	Water	7470A	
500-222492-8	R32S	Total/NA	Water	7470A	
MB 500-676665/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-676665/13-A	Lab Control Sample	Total/NA	Water	7470A	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Metals (Continued)

Prep Batch: 676665 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-7 MS	G44S	Total/NA	Water	7470A	
500-222492-7 MSD	G44S	Total/NA	Water	7470A	
500-222492-7 DU	G44S	Total/NA	Water	7470A	

Prep Batch: 676771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-9	T09S	Total Recoverable	Water	3005A	
500-222492-10	T06S	Total Recoverable	Water	3005A	
500-222492-11	T05S	Total Recoverable	Water	3005A	
500-222492-12	G31S	Total Recoverable	Water	3005A	
MB 500-676771/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-676771/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 676808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-3	G47S	Total Recoverable	Water	6020A	676547
500-222492-4	G48S	Total Recoverable	Water	6020A	676547
500-222492-5	G46S	Total Recoverable	Water	6020A	676547
500-222492-6	G45S	Total Recoverable	Water	6020A	676547
500-222492-7	G44S	Total Recoverable	Water	6020A	676547
500-222492-8	R32S	Total Recoverable	Water	6020A	676547
MB 500-676547/1-A	Method Blank	Total Recoverable	Water	6020A	676547
LCS 500-676547/2-A	Lab Control Sample	Total Recoverable	Water	6020A	676547

Analysis Batch: 676847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-3	G47S	Total/NA	Water	7470A	676665
500-222492-4	G48S	Total/NA	Water	7470A	676665
500-222492-5	G46S	Total/NA	Water	7470A	676665
500-222492-6	G45S	Total/NA	Water	7470A	676665
500-222492-7	G44S	Total/NA	Water	7470A	676665
500-222492-8	R32S	Total/NA	Water	7470A	676665
MB 500-676665/12-A	Method Blank	Total/NA	Water	7470A	676665
LCS 500-676665/13-A	Lab Control Sample	Total/NA	Water	7470A	676665
500-222492-7 MS	G44S	Total/NA	Water	7470A	676665
500-222492-7 MSD	G44S	Total/NA	Water	7470A	676665
500-222492-7 DU	G44S	Total/NA	Water	7470A	676665

Analysis Batch: 676878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-3	G47S	Total Recoverable	Water	6020A	676547
500-222492-4	G48S	Total Recoverable	Water	6020A	676547
500-222492-5	G46S	Total Recoverable	Water	6020A	676547
500-222492-6	G45S	Total Recoverable	Water	6020A	676547
500-222492-7	G44S	Total Recoverable	Water	6020A	676547
500-222492-8	R32S	Total Recoverable	Water	6020A	676547
MB 500-676547/1-A	Method Blank	Total Recoverable	Water	6020A	676547
LCS 500-676547/2-A	Lab Control Sample	Total Recoverable	Water	6020A	676547

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Metals

Prep Batch: 676906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-9	T09S	Total/NA	Water	7470A	
500-222492-10	T06S	Total/NA	Water	7470A	
500-222492-11	T05S	Total/NA	Water	7470A	
500-222492-12	G31S	Total/NA	Water	7470A	
MB 500-676906/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-676906/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 677021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-13	T01S	Total Recoverable	GW	3005A	
500-222492-14	G30S	Total Recoverable	GW	3005A	
500-222492-15	G33S	Total Recoverable	Water	3005A	
MB 500-677021/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-677021/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 677063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-9	T09S	Total Recoverable	Water	6020A	676771
500-222492-10	T06S	Total Recoverable	Water	6020A	676771
500-222492-11	T05S	Total Recoverable	Water	6020A	676771
500-222492-12	G31S	Total Recoverable	Water	6020A	676771
MB 500-676771/1-A	Method Blank	Total Recoverable	Water	6020A	676771
LCS 500-676771/2-A	Lab Control Sample	Total Recoverable	Water	6020A	676771

Analysis Batch: 677085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-9	T09S	Total/NA	Water	7470A	676906
500-222492-10	T06S	Total/NA	Water	7470A	676906
500-222492-11	T05S	Total/NA	Water	7470A	676906
500-222492-12	G31S	Total/NA	Water	7470A	676906
MB 500-676906/12-A	Method Blank	Total/NA	Water	7470A	676906
LCS 500-676906/13-A	Lab Control Sample	Total/NA	Water	7470A	676906

Prep Batch: 677139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-13	T01S	Total/NA	GW	7470A	
500-222492-14	G30S	Total/NA	GW	7470A	
500-222492-15	G33S	Total/NA	Water	7470A	
MB 500-677139/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-677139/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 677238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-16	T02S	Total Recoverable	Water	3005A	
500-222492-17	T08S	Total Recoverable	Water	3005A	
500-222492-18	T03S	Total Recoverable	Water	3005A	
500-222492-19	DUP	Total Recoverable	Water	3005A	
MB 500-677238/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-677238/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Metals

Analysis Batch: 677288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-9	T09S	Total Recoverable	Water	6020A	676771
500-222492-10	T06S	Total Recoverable	Water	6020A	676771
500-222492-11	T05S	Total Recoverable	Water	6020A	676771
500-222492-12	G31S	Total Recoverable	Water	6020A	676771
MB 500-676771/1-A	Method Blank	Total Recoverable	Water	6020A	676771
LCS 500-676771/2-A	Lab Control Sample	Total Recoverable	Water	6020A	676771

Analysis Batch: 677309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-13	T01S	Total/NA	GW	7470A	677139
500-222492-14	G30S	Total/NA	GW	7470A	677139
500-222492-15	G33S	Total/NA	Water	7470A	677139
MB 500-677139/12-A	Method Blank	Total/NA	Water	7470A	677139
LCS 500-677139/13-A	Lab Control Sample	Total/NA	Water	7470A	677139

Prep Batch: 677362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-16	T02S	Total/NA	Water	7470A	
500-222492-17	T08S	Total/NA	Water	7470A	
500-222492-18	T03S	Total/NA	Water	7470A	
500-222492-19	DUP	Total/NA	Water	7470A	
MB 500-677362/13-A	Method Blank	Total/NA	Water	7470A	
LCS 500-677362/12-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 677574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-13	T01S	Total Recoverable	GW	6020A	677021
500-222492-14	G30S	Total Recoverable	GW	6020A	677021
500-222492-15	G33S	Total Recoverable	Water	6020A	677021
500-222492-16	T02S	Total Recoverable	Water	6020A	677238
500-222492-17	T08S	Total Recoverable	Water	6020A	677238
500-222492-18	T03S	Total Recoverable	Water	6020A	677238
500-222492-19	DUP	Total Recoverable	Water	6020A	677238
MB 500-677021/1-A	Method Blank	Total Recoverable	Water	6020A	677021
MB 500-677238/1-A	Method Blank	Total Recoverable	Water	6020A	677238
LCS 500-677021/2-A	Lab Control Sample	Total Recoverable	Water	6020A	677021
LCS 500-677238/2-A	Lab Control Sample	Total Recoverable	Water	6020A	677238

Analysis Batch: 677590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-16	T02S	Total/NA	Water	7470A	677362
500-222492-17	T08S	Total/NA	Water	7470A	677362
500-222492-18	T03S	Total/NA	Water	7470A	677362
500-222492-19	DUP	Total/NA	Water	7470A	677362
MB 500-677362/13-A	Method Blank	Total/NA	Water	7470A	677362
LCS 500-677362/12-A	Lab Control Sample	Total/NA	Water	7470A	677362

Analysis Batch: 677861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-16	T02S	Total Recoverable	Water	6020A	677238
500-222492-17	T08S	Total Recoverable	Water	6020A	677238

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Metals (Continued)

Analysis Batch: 677861 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-18	T03S	Total Recoverable	Water	6020A	677238
500-222492-19	DUP	Total Recoverable	Water	6020A	677238
MB 500-677238/1-A	Method Blank	Total Recoverable	Water	6020A	677238
LCS 500-677238/2-A	Lab Control Sample	Total Recoverable	Water	6020A	677238

Analysis Batch: 678011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-13	T01S	Total Recoverable	GW	6020A	677021
500-222492-14	G30S	Total Recoverable	GW	6020A	677021
500-222492-15	G33S	Total Recoverable	Water	6020A	677021
MB 500-677021/1-A	Method Blank	Total Recoverable	Water	6020A	677021
LCS 500-677021/2-A	Lab Control Sample	Total Recoverable	Water	6020A	677021

General Chemistry

Analysis Batch: 675941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-1	G20S	Total/NA	Water	SM 4500 CI- E	
500-222492-2	R08S	Total/NA	Water	SM 4500 CI- E	
MB 500-675941/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-675941/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-222492-1 MS	G20S	Total/NA	Water	SM 4500 CI- E	
500-222492-1 MSD	G20S	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 675998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-1	G20S	Total/NA	Water	SM 4500 F C	
500-222492-2	R08S	Total/NA	Water	SM 4500 F C	
MB 500-675998/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-675998/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-222492-2 MS	R08S	Total/NA	Water	SM 4500 F C	
500-222492-2 MSD	R08S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 676200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-3	G47S	Total/NA	Water	SM 4500 CI- E	
500-222492-4	G48S	Total/NA	Water	SM 4500 CI- E	
MB 500-676200/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-676200/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-222492-3 MS	G47S	Total/NA	Water	SM 4500 CI- E	
500-222492-3 MSD	G47S	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 676402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-1	G20S	Total/NA	Water	SM 2540C	
500-222492-2	R08S	Total/NA	Water	SM 2540C	
MB 500-676402/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-676402/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-222492-2 DU	R08S	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

General Chemistry

Analysis Batch: 676614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-5	G46S	Total/NA	Water	SM 4500 Cl- E	
500-222492-6	G45S	Total/NA	Water	SM 4500 Cl- E	
500-222492-7	G44S	Total/NA	Water	SM 4500 Cl- E	
500-222492-8	R32S	Total/NA	Water	SM 4500 Cl- E	
MB 500-676614/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-676614/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-222492-5 MS	G46S	Total/NA	Water	SM 4500 Cl- E	
500-222492-5 MSD	G46S	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 676645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-1	G20S	Total/NA	Water	SM 4500 SO4 E	
500-222492-2	R08S	Total/NA	Water	SM 4500 SO4 E	
500-222492-3	G47S	Total/NA	Water	SM 4500 SO4 E	
500-222492-4	G48S	Total/NA	Water	SM 4500 SO4 E	
500-222492-5	G46S	Total/NA	Water	SM 4500 SO4 E	
500-222492-6	G45S	Total/NA	Water	SM 4500 SO4 E	
500-222492-7	G44S	Total/NA	Water	SM 4500 SO4 E	
500-222492-8	R32S	Total/NA	Water	SM 4500 SO4 E	
MB 500-676645/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-676645/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-222492-1 MS	G20S	Total/NA	Water	SM 4500 SO4 E	
500-222492-1 MSD	G20S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 676925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-3	G47S	Total/NA	Water	SM 2540C	
500-222492-4	G48S	Total/NA	Water	SM 2540C	
MB 500-676925/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-676925/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-222492-3 MS	G47S	Total/NA	Water	SM 2540C	
500-222492-3 DU	G47S	Total/NA	Water	SM 2540C	

Analysis Batch: 677306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-9	T09S	Total/NA	Water	SM 4500 Cl- E	
500-222492-10	T06S	Total/NA	Water	SM 4500 Cl- E	
500-222492-11	T05S	Total/NA	Water	SM 4500 Cl- E	
500-222492-12	G31S	Total/NA	Water	SM 4500 Cl- E	
500-222492-13	T01S	Total/NA	GW	SM 4500 Cl- E	
500-222492-14	G30S	Total/NA	GW	SM 4500 Cl- E	
500-222492-15	G33S	Total/NA	Water	SM 4500 Cl- E	
500-222492-16	T02S	Total/NA	Water	SM 4500 Cl- E	
500-222492-17	T08S	Total/NA	Water	SM 4500 Cl- E	
500-222492-18	T03S	Total/NA	Water	SM 4500 Cl- E	
500-222492-19	DUP	Total/NA	Water	SM 4500 Cl- E	
MB 500-677306/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-677306/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-222492-10 MS	T06S	Total/NA	Water	SM 4500 Cl- E	
500-222492-10 MSD	T06S	Total/NA	Water	SM 4500 Cl- E	

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

General Chemistry

Analysis Batch: 677311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-9	T09S	Total/NA	Water	SM 4500 SO4 E	
500-222492-10	T06S	Total/NA	Water	SM 4500 SO4 E	
500-222492-11	T05S	Total/NA	Water	SM 4500 SO4 E	
500-222492-12	G31S	Total/NA	Water	SM 4500 SO4 E	
500-222492-13	T01S	Total/NA	GW	SM 4500 SO4 E	
500-222492-14	G30S	Total/NA	GW	SM 4500 SO4 E	
500-222492-15	G33S	Total/NA	Water	SM 4500 SO4 E	
500-222492-16	T02S	Total/NA	Water	SM 4500 SO4 E	
500-222492-17	T08S	Total/NA	Water	SM 4500 SO4 E	
500-222492-18	T03S	Total/NA	Water	SM 4500 SO4 E	
500-222492-19	DUP	Total/NA	Water	SM 4500 SO4 E	
MB 500-677311/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-677311/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-222492-11 MS	T05S	Total/NA	Water	SM 4500 SO4 E	
500-222492-11 MSD	T05S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 677333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-5	G46S	Total/NA	Water	SM 2540C	
500-222492-6	G45S	Total/NA	Water	SM 2540C	
500-222492-7	G44S	Total/NA	Water	SM 2540C	
500-222492-8	R32S	Total/NA	Water	SM 2540C	
MB 500-677333/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-677333/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-222492-7 MS	G44S	Total/NA	Water	SM 2540C	
500-222492-5 DU	G46S	Total/NA	Water	SM 2540C	
500-222492-6 DU	G45S	Total/NA	Water	SM 2540C	

Analysis Batch: 677338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-9	T09S	Total/NA	Water	SM 2540C	
500-222492-10	T06S	Total/NA	Water	SM 2540C	
500-222492-11	T05S	Total/NA	Water	SM 2540C	
500-222492-12	G31S	Total/NA	Water	SM 2540C	
MB 500-677338/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-677338/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-222492-11 MS	T05S	Total/NA	Water	SM 2540C	
500-222492-9 DU	T09S	Total/NA	Water	SM 2540C	
500-222492-10 DU	T06S	Total/NA	Water	SM 2540C	

Analysis Batch: 677387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-3	G47S	Total/NA	Water	SM 4500 F C	
500-222492-4	G48S	Total/NA	Water	SM 4500 F C	
500-222492-5	G46S	Total/NA	Water	SM 4500 F C	
500-222492-6	G45S	Total/NA	Water	SM 4500 F C	
500-222492-7	G44S	Total/NA	Water	SM 4500 F C	
500-222492-8	R32S	Total/NA	Water	SM 4500 F C	
500-222492-9	T09S	Total/NA	Water	SM 4500 F C	
500-222492-10	T06S	Total/NA	Water	SM 4500 F C	
500-222492-11	T05S	Total/NA	Water	SM 4500 F C	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

General Chemistry (Continued)

Analysis Batch: 677387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-12	G31S	Total/NA	Water	SM 4500 F C	
500-222492-13	T01S	Total/NA	GW	SM 4500 F C	
500-222492-14	G30S	Total/NA	GW	SM 4500 F C	
500-222492-15	G33S	Total/NA	Water	SM 4500 F C	
500-222492-16	T02S	Total/NA	Water	SM 4500 F C	
500-222492-17	T08S	Total/NA	Water	SM 4500 F C	
500-222492-18	T03S	Total/NA	Water	SM 4500 F C	
500-222492-19	DUP	Total/NA	Water	SM 4500 F C	
MB 500-677387/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-677387/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-222492-3 MS	G47S	Total/NA	Water	SM 4500 F C	
500-222492-3 MSD	G47S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 677839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-13	T01S	Total/NA	GW	SM 2540C	
500-222492-14	G30S	Total/NA	GW	SM 2540C	
500-222492-15	G33S	Total/NA	Water	SM 2540C	
MB 500-677839/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-677839/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-222492-15 DU	G33S	Total/NA	Water	SM 2540C	

Analysis Batch: 678291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-16	T02S	Total/NA	Water	SM 2540C	
500-222492-17	T08S	Total/NA	Water	SM 2540C	
500-222492-18	T03S	Total/NA	Water	SM 2540C	
500-222492-19	DUP	Total/NA	Water	SM 2540C	
MB 500-678291/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-678291/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 675345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-1	G20S	Total/NA	Water	Field Sampling	
500-222492-2	R08S	Total/NA	Water	Field Sampling	
500-222492-3	G47S	Total/NA	Water	Field Sampling	
500-222492-4	G48S	Total/NA	Water	Field Sampling	
500-222492-5	G46S	Total/NA	Water	Field Sampling	
500-222492-6	G45S	Total/NA	Water	Field Sampling	
500-222492-7	G44S	Total/NA	Water	Field Sampling	
500-222492-8	R32S	Total/NA	Water	Field Sampling	
500-222492-9	T09S	Total/NA	Water	Field Sampling	
500-222492-10	T06S	Total/NA	Water	Field Sampling	
500-222492-11	T05S	Total/NA	Water	Field Sampling	
500-222492-12	G31S	Total/NA	Water	Field Sampling	
500-222492-13	T01S	Total/NA	GW	Field Sampling	
500-222492-14	G30S	Total/NA	GW	Field Sampling	
500-222492-15	G33S	Total/NA	Water	Field Sampling	
500-222492-16	T02S	Total/NA	Water	Field Sampling	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 675345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-17	T08S	Total/NA	Water	Field Sampling	
500-222492-18	T03S	Total/NA	Water	Field Sampling	
500-222492-19	DUP	Total/NA	Water	Field Sampling	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-675848/1-A
Matrix: Water
Analysis Batch: 676368

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 675848

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/22/22 09:12	09/23/22 14:01	1
Arsenic	<0.0010		0.0010		mg/L		09/22/22 09:12	09/23/22 14:01	1
Barium	<0.0025		0.0025		mg/L		09/22/22 09:12	09/23/22 14:01	1
Beryllium	<0.0010		0.0010		mg/L		09/22/22 09:12	09/23/22 14:01	1
Boron	<0.050		0.050		mg/L		09/22/22 09:12	09/23/22 14:01	1
Cadmium	<0.00050		0.00050		mg/L		09/22/22 09:12	09/23/22 14:01	1
Calcium	<0.20		0.20		mg/L		09/22/22 09:12	09/23/22 14:01	1
Chromium	<0.0050		0.0050		mg/L		09/22/22 09:12	09/23/22 14:01	1
Cobalt	<0.0010		0.0010		mg/L		09/22/22 09:12	09/23/22 14:01	1
Lead	<0.00050		0.00050		mg/L		09/22/22 09:12	09/23/22 14:01	1
Lithium	<0.010		0.010		mg/L		09/22/22 09:12	09/23/22 14:01	1
Molybdenum	<0.0050		0.0050		mg/L		09/22/22 09:12	09/23/22 14:01	1
Selenium	<0.0025		0.0025		mg/L		09/22/22 09:12	09/23/22 14:01	1
Thallium	<0.0020		0.0020		mg/L		09/22/22 09:12	09/23/22 14:01	1

Lab Sample ID: LCS 500-675848/26-A
Matrix: Water
Analysis Batch: 676368

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 675848

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.521		mg/L		104	80 - 120
Arsenic	0.100	0.0917		mg/L		92	80 - 120
Barium	2.00	2.03		mg/L		101	80 - 120
Beryllium	0.0500	0.0463		mg/L		93	80 - 120
Boron	1.00	0.968	^+	mg/L		97	80 - 120
Cadmium	0.0500	0.0494		mg/L		99	80 - 120
Calcium	10.0	9.87		mg/L		99	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.525		mg/L		105	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Lithium	0.500	0.492		mg/L		98	80 - 120
Molybdenum	1.00	0.953		mg/L		95	80 - 120
Selenium	0.100	0.0952		mg/L		95	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LCSD 500-675848/27-A
Matrix: Water
Analysis Batch: 676368

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 675848

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.500	0.505		mg/L		101	80 - 120	3	20
Arsenic	0.100	0.0891		mg/L		89	80 - 120	3	20
Barium	2.00	1.99		mg/L		100	80 - 120	2	20
Beryllium	0.0500	0.0453		mg/L		91	80 - 120	2	20
Boron	1.00	0.951	^+	mg/L		95	80 - 120	2	20
Cadmium	0.0500	0.0485		mg/L		97	80 - 120	2	20
Calcium	10.0	9.60		mg/L		96	80 - 120	3	20
Chromium	0.200	0.202		mg/L		101	80 - 120	2	20
Cobalt	0.500	0.518		mg/L		104	80 - 120	1	20

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 500-675848/27-A
Matrix: Water
Analysis Batch: 676368

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 675848

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.100	0.104		mg/L		104	80 - 120	2	20
Lithium	0.500	0.482		mg/L		96	80 - 120	2	20
Molybdenum	1.00	0.931		mg/L		93	80 - 120	2	20
Selenium	0.100	0.0921		mg/L		92	80 - 120	3	20
Thallium	0.100	0.105		mg/L		105	80 - 120	2	20

Lab Sample ID: MB 500-676547/1-A
Matrix: Water
Analysis Batch: 676808

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/27/22 08:37	09/27/22 16:50	1
Arsenic	<0.0010		0.0010		mg/L		09/27/22 08:37	09/27/22 16:50	1
Barium	<0.0025		0.0025		mg/L		09/27/22 08:37	09/27/22 16:50	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		09/27/22 08:37	09/27/22 16:50	1
Cadmium	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 16:50	1
Calcium	<0.20		0.20		mg/L		09/27/22 08:37	09/27/22 16:50	1
Chromium	<0.0050		0.0050		mg/L		09/27/22 08:37	09/27/22 16:50	1
Cobalt	<0.0010		0.0010		mg/L		09/27/22 08:37	09/27/22 16:50	1
Lead	<0.00050		0.00050		mg/L		09/27/22 08:37	09/27/22 16:50	1
Lithium	<0.010		0.010		mg/L		09/27/22 08:37	09/27/22 16:50	1
Molybdenum	<0.0050		0.0050		mg/L		09/27/22 08:37	09/27/22 16:50	1
Selenium	<0.0025		0.0025		mg/L		09/27/22 08:37	09/27/22 16:50	1
Thallium	<0.0020		0.0020		mg/L		09/27/22 08:37	09/27/22 16:50	1

Lab Sample ID: MB 500-676547/1-A
Matrix: Water
Analysis Batch: 676878

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		09/27/22 08:37	09/28/22 12:18	1

Lab Sample ID: LCS 500-676547/2-A
Matrix: Water
Analysis Batch: 676808

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.475		mg/L		95	80 - 120
Arsenic	0.100	0.0937		mg/L		94	80 - 120
Barium	0.500	0.489		mg/L		98	80 - 120
Beryllium	0.0500	0.0508	^1+ ^+	mg/L		102	80 - 120
Cadmium	0.0500	0.0476		mg/L		95	80 - 120
Calcium	10.0	9.38		mg/L		94	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.496		mg/L		99	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Lithium	0.100	0.104		mg/L		104	80 - 120
Molybdenum	1.00	0.893		mg/L		89	80 - 120
Selenium	0.100	0.0945		mg/L		95	80 - 120

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-676547/2-A
Matrix: Water
Analysis Batch: 676808

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LCS 500-676547/2-A
Matrix: Water
Analysis Batch: 676878

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.885		mg/L		88	80 - 120

Lab Sample ID: MB 500-676771/1-A
Matrix: Water
Analysis Batch: 677063

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/28/22 08:14	09/28/22 16:16	1
Arsenic	<0.0010		0.0010		mg/L		09/28/22 08:14	09/28/22 16:16	1
Barium	<0.0025		0.0025		mg/L		09/28/22 08:14	09/28/22 16:16	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/28/22 08:14	09/28/22 16:16	1
Cadmium	<0.00050		0.00050		mg/L		09/28/22 08:14	09/28/22 16:16	1
Calcium	<0.20		0.20		mg/L		09/28/22 08:14	09/28/22 16:16	1
Chromium	<0.0050		0.0050		mg/L		09/28/22 08:14	09/28/22 16:16	1
Cobalt	<0.0010		0.0010		mg/L		09/28/22 08:14	09/28/22 16:16	1
Lead	<0.00050		0.00050		mg/L		09/28/22 08:14	09/28/22 16:16	1
Lithium	<0.010		0.010		mg/L		09/28/22 08:14	09/28/22 16:16	1
Molybdenum	<0.0050		0.0050		mg/L		09/28/22 08:14	09/28/22 16:16	1
Selenium	<0.0025		0.0025		mg/L		09/28/22 08:14	09/28/22 16:16	1
Thallium	<0.0020		0.0020		mg/L		09/28/22 08:14	09/28/22 16:16	1

Lab Sample ID: MB 500-676771/1-A
Matrix: Water
Analysis Batch: 677288

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 676771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		09/28/22 08:14	09/29/22 12:50	1

Lab Sample ID: LCS 500-676771/2-A
Matrix: Water
Analysis Batch: 677063

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.490		mg/L		98	80 - 120
Arsenic	0.100	0.0954		mg/L		95	80 - 120
Barium	0.500	0.488		mg/L		98	80 - 120
Beryllium	0.0500	0.0506	^1+	mg/L		101	80 - 120
Cadmium	0.0500	0.0490		mg/L		98	80 - 120
Calcium	10.0	9.52		mg/L		95	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.503		mg/L		101	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Lithium	0.100	0.102		mg/L		102	80 - 120

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-676771/2-A
Matrix: Water
Analysis Batch: 677063

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1.00	0.919		mg/L		92	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LCS 500-676771/2-A
Matrix: Water
Analysis Batch: 677288

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 676771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.991		mg/L		99	80 - 120

Lab Sample ID: MB 500-677021/1-A
Matrix: Water
Analysis Batch: 677574

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/29/22 09:11	09/30/22 18:55	1
Arsenic	<0.0010		0.0010		mg/L		09/29/22 09:11	09/30/22 18:55	1
Barium	<0.0025		0.0025		mg/L		09/29/22 09:11	09/30/22 18:55	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/29/22 09:11	09/30/22 18:55	1
Cadmium	<0.00050		0.00050		mg/L		09/29/22 09:11	09/30/22 18:55	1
Calcium	<0.20		0.20		mg/L		09/29/22 09:11	09/30/22 18:55	1
Chromium	<0.0050		0.0050		mg/L		09/29/22 09:11	09/30/22 18:55	1
Cobalt	<0.0010		0.0010		mg/L		09/29/22 09:11	09/30/22 18:55	1
Lead	<0.00050		0.00050		mg/L		09/29/22 09:11	09/30/22 18:55	1
Lithium	<0.010		0.010		mg/L		09/29/22 09:11	09/30/22 18:55	1
Molybdenum	<0.0050		0.0050		mg/L		09/29/22 09:11	09/30/22 18:55	1
Selenium	<0.0025		0.0025		mg/L		09/29/22 09:11	09/30/22 18:55	1
Thallium	<0.0020		0.0020		mg/L		09/29/22 09:11	09/30/22 18:55	1

Lab Sample ID: MB 500-677021/1-A
Matrix: Water
Analysis Batch: 678011

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		09/29/22 09:11	10/04/22 15:06	1

Lab Sample ID: LCS 500-677021/2-A
Matrix: Water
Analysis Batch: 677574

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.501		mg/L		100	80 - 120
Arsenic	0.100	0.0992		mg/L		99	80 - 120
Barium	0.500	0.503		mg/L		101	80 - 120
Beryllium	0.0500	0.0479	^1+	mg/L		96	80 - 120
Cadmium	0.0500	0.0488		mg/L		98	80 - 120
Calcium	10.0	8.61		mg/L		86	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.500	0.490		mg/L		98	80 - 120

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-677021/2-A
Matrix: Water
Analysis Batch: 677574

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.100	0.102		mg/L		102	80 - 120
Molybdenum	1.00	0.936		mg/L		94	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LCS 500-677021/2-A
Matrix: Water
Analysis Batch: 678011

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: MB 500-677238/1-A
Matrix: Water
Analysis Batch: 677574

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/30/22 08:57	09/30/22 18:24	1
Arsenic	<0.0010		0.0010		mg/L		09/30/22 08:57	09/30/22 18:24	1
Barium	<0.0025		0.0025		mg/L		09/30/22 08:57	09/30/22 18:24	1
Beryllium	<0.0010	^1+	0.0010		mg/L		09/30/22 08:57	09/30/22 18:24	1
Cadmium	<0.00050		0.00050		mg/L		09/30/22 08:57	09/30/22 18:24	1
Calcium	<0.20		0.20		mg/L		09/30/22 08:57	09/30/22 18:24	1
Chromium	<0.0050		0.0050		mg/L		09/30/22 08:57	09/30/22 18:24	1
Cobalt	<0.0010		0.0010		mg/L		09/30/22 08:57	09/30/22 18:24	1
Lead	<0.00050		0.00050		mg/L		09/30/22 08:57	09/30/22 18:24	1
Lithium	<0.010		0.010		mg/L		09/30/22 08:57	09/30/22 18:24	1
Molybdenum	<0.0050		0.0050		mg/L		09/30/22 08:57	09/30/22 18:24	1
Selenium	<0.0025		0.0025		mg/L		09/30/22 08:57	09/30/22 18:24	1
Thallium	<0.0020		0.0020		mg/L		09/30/22 08:57	09/30/22 18:24	1

Lab Sample ID: MB 500-677238/1-A
Matrix: Water
Analysis Batch: 677861

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		09/30/22 08:57	10/04/22 14:15	1

Lab Sample ID: LCS 500-677238/2-A
Matrix: Water
Analysis Batch: 677574

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.507		mg/L		101	80 - 120
Arsenic	0.100	0.0975		mg/L		97	80 - 120
Barium	2.00	2.01		mg/L		100	80 - 120
Beryllium	0.0500	0.0476	^1+	mg/L		95	80 - 120
Cadmium	0.0500	0.0478		mg/L		96	80 - 120
Calcium	10.0	8.70		mg/L		87	80 - 120

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-677238/2-A
Matrix: Water
Analysis Batch: 677574

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.501		mg/L		100	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.500	0.493		mg/L		99	80 - 120
Molybdenum	1.00	0.937		mg/L		94	80 - 120
Selenium	0.100	0.0992		mg/L		99	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LCS 500-677238/2-A
Matrix: Water
Analysis Batch: 677861

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.01		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-675960/12-A
Matrix: Water
Analysis Batch: 676124

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/22/22 15:25	09/23/22 07:42	1

Lab Sample ID: LCS 500-675960/13-A
Matrix: Water
Analysis Batch: 676124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00194		mg/L		97	80 - 120

Lab Sample ID: MB 500-676665/12-A
Matrix: Water
Analysis Batch: 676847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676665

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/27/22 15:20	09/28/22 07:37	1

Lab Sample ID: LCS 500-676665/13-A
Matrix: Water
Analysis Batch: 676847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 500-222492-7 MS
Matrix: Water
Analysis Batch: 676847

Client Sample ID: G44S
Prep Type: Total/NA
Prep Batch: 676665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125

Lab Sample ID: 500-222492-7 MSD
Matrix: Water
Analysis Batch: 676847

Client Sample ID: G44S
Prep Type: Total/NA
Prep Batch: 676665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00104		mg/L		104	75 - 125	3	20

Lab Sample ID: 500-222492-7 DU
Matrix: Water
Analysis Batch: 676847

Client Sample ID: G44S
Prep Type: Total/NA
Prep Batch: 676665

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Lab Sample ID: MB 500-676906/12-A
Matrix: Water
Analysis Batch: 677085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 676906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/28/22 15:10	09/29/22 09:01	1

Lab Sample ID: LCS 500-676906/13-A
Matrix: Water
Analysis Batch: 677085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 676906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00187		mg/L		94	80 - 120

Lab Sample ID: MB 500-677139/12-A
Matrix: Water
Analysis Batch: 677309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 677139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/29/22 15:40	09/30/22 07:20	1

Lab Sample ID: LCS 500-677139/13-A
Matrix: Water
Analysis Batch: 677309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 677139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00194		mg/L		97	80 - 120

Lab Sample ID: MB 500-677362/13-A
Matrix: Water
Analysis Batch: 677590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 677362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/30/22 16:30	10/03/22 07:39	1

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 500-677362/12-A
 Matrix: Water
 Analysis Batch: 677590

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 677362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00210		mg/L		105	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-676402/1
 Matrix: Water
 Analysis Batch: 676402

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			09/26/22 13:20	1

Lab Sample ID: LCS 500-676402/2
 Matrix: Water
 Analysis Batch: 676402

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	230		mg/L		92	80 - 120

Lab Sample ID: 500-222492-2 DU
 Matrix: Water
 Analysis Batch: 676402

Client Sample ID: R08S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	780		796		mg/L		2	5

Lab Sample ID: MB 500-676925/1
 Matrix: Water
 Analysis Batch: 676925

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			09/28/22 17:35	1

Lab Sample ID: LCS 500-676925/2
 Matrix: Water
 Analysis Batch: 676925

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	224		mg/L		90	80 - 120

Lab Sample ID: 500-222492-3 MS
 Matrix: Water
 Analysis Batch: 676925

Client Sample ID: G47S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1100		250	1300	4	mg/L		84	75 - 125

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 500-222492-3 DU
Matrix: Water
Analysis Batch: 676925

Client Sample ID: G47S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1070		mg/L		2	5

Lab Sample ID: MB 500-677333/1
Matrix: Water
Analysis Batch: 677333

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			09/30/22 14:08	1

Lab Sample ID: LCS 500-677333/2
Matrix: Water
Analysis Batch: 677333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	240		mg/L		96	80 - 120

Lab Sample ID: 500-222492-7 MS
Matrix: Water
Analysis Batch: 677333

Client Sample ID: G44S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	810		250	1090		mg/L		110	75 - 125

Lab Sample ID: 500-222492-5 DU
Matrix: Water
Analysis Batch: 677333

Client Sample ID: G46S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1050		mg/L		2	5

Lab Sample ID: 500-222492-6 DU
Matrix: Water
Analysis Batch: 677333

Client Sample ID: G45S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	830		796		mg/L		4	5

Lab Sample ID: MB 500-677338/1
Matrix: Water
Analysis Batch: 677338

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			09/30/22 15:15	1

Lab Sample ID: LCS 500-677338/2
Matrix: Water
Analysis Batch: 677338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: 500-222492-11 MS
Matrix: Water
Analysis Batch: 677338

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1500		250	1740	4	mg/L		107	75 - 125

Lab Sample ID: 500-222492-9 DU
Matrix: Water
Analysis Batch: 677338

Client Sample ID: T09S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	990		1010		mg/L		2	5

Lab Sample ID: 500-222492-10 DU
Matrix: Water
Analysis Batch: 677338

Client Sample ID: T06S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	460		446		mg/L		3	5

Lab Sample ID: MB 500-677839/1
Matrix: Water
Analysis Batch: 677839

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			10/04/22 15:05	1

Lab Sample ID: LCS 500-677839/2
Matrix: Water
Analysis Batch: 677839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	232		mg/L		93	80 - 120

Lab Sample ID: 500-222492-15 DU
Matrix: Water
Analysis Batch: 677839

Client Sample ID: G33S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	360		354		mg/L		2	5

Lab Sample ID: MB 500-678291/1
Matrix: Water
Analysis Batch: 678291

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			10/06/22 13:05	1

Lab Sample ID: LCS 500-678291/2
Matrix: Water
Analysis Batch: 678291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	210		mg/L		84	80 - 120

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-675941/16
Matrix: Water
Analysis Batch: 675941

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/22/22 12:40	1

Lab Sample ID: LCS 500-675941/17
Matrix: Water
Analysis Batch: 675941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	22.8		mg/L		114	85 - 115

Lab Sample ID: 500-222492-1 MS
Matrix: Water
Analysis Batch: 675941

Client Sample ID: G20S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	17		20.0	34.0		mg/L		84	75 - 125

Lab Sample ID: 500-222492-1 MSD
Matrix: Water
Analysis Batch: 675941

Client Sample ID: G20S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	17		20.0	34.5		mg/L		87	75 - 125	2	20

Lab Sample ID: MB 500-676200/16
Matrix: Water
Analysis Batch: 676200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/23/22 16:15	1

Lab Sample ID: LCS 500-676200/17
Matrix: Water
Analysis Batch: 676200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.7		mg/L		98	85 - 115

Lab Sample ID: 500-222492-3 MS
Matrix: Water
Analysis Batch: 676200

Client Sample ID: G47S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100		20.0	117	4	mg/L		86	75 - 125

Lab Sample ID: 500-222492-3 MSD
Matrix: Water
Analysis Batch: 676200

Client Sample ID: G47S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100		20.0	117	4	mg/L		85	75 - 125	0	20

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-676614/16
Matrix: Water
Analysis Batch: 676614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/27/22 12:09	1

Lab Sample ID: LCS 500-676614/17
Matrix: Water
Analysis Batch: 676614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.1		mg/L		101	85 - 115

Lab Sample ID: 500-222492-5 MS
Matrix: Water
Analysis Batch: 676614

Client Sample ID: G46S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	63		20.0	80.4		mg/L		86	75 - 125

Lab Sample ID: 500-222492-5 MSD
Matrix: Water
Analysis Batch: 676614

Client Sample ID: G46S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	63		20.0	79.8		mg/L		84	75 - 125	1	20

Lab Sample ID: MB 500-677306/16
Matrix: Water
Analysis Batch: 677306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/30/22 09:41	1

Lab Sample ID: LCS 500-677306/17
Matrix: Water
Analysis Batch: 677306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.0		mg/L		100	85 - 115

Lab Sample ID: 500-222492-10 MS
Matrix: Water
Analysis Batch: 677306

Client Sample ID: T06S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15		20.0	32.2		mg/L		87	75 - 125

Lab Sample ID: 500-222492-10 MSD
Matrix: Water
Analysis Batch: 677306

Client Sample ID: T06S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15		20.0	32.2		mg/L		87	75 - 125	0	20

Eurolins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-675998/3
Matrix: Water
Analysis Batch: 675998

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			09/22/22 15:41	1

Lab Sample ID: LCS 500-675998/4
Matrix: Water
Analysis Batch: 675998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.1		mg/L		101	90 - 119

Lab Sample ID: 500-222492-2 MS
Matrix: Water
Analysis Batch: 675998

Client Sample ID: R08S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.14		5.00	5.26		mg/L		102	75 - 125

Lab Sample ID: 500-222492-2 MSD
Matrix: Water
Analysis Batch: 675998

Client Sample ID: R08S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.14		5.00	5.18		mg/L		101	75 - 125	2	20

Lab Sample ID: MB 500-677387/3
Matrix: Water
Analysis Batch: 677387

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			10/01/22 10:53	1

Lab Sample ID: LCS 500-677387/4
Matrix: Water
Analysis Batch: 677387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.2		mg/L		102	90 - 119

Lab Sample ID: 500-222492-3 MS
Matrix: Water
Analysis Batch: 677387

Client Sample ID: G47S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.90		5.00	6.04		mg/L		103	75 - 125

Lab Sample ID: 500-222492-3 MSD
Matrix: Water
Analysis Batch: 677387

Client Sample ID: G47S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.90		5.00	5.98		mg/L		102	75 - 125	1	20

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-676645/16
Matrix: Water
Analysis Batch: 676645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			09/27/22 14:11	1

Lab Sample ID: LCS 500-676645/17
Matrix: Water
Analysis Batch: 676645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.6		mg/L		108	88 - 123

Lab Sample ID: 500-222492-1 MS
Matrix: Water
Analysis Batch: 676645

Client Sample ID: G20S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	55	F1	20.0	69.7	F1	mg/L		73	75 - 125

Lab Sample ID: 500-222492-1 MSD
Matrix: Water
Analysis Batch: 676645

Client Sample ID: G20S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	55	F1	20.0	70.2		mg/L		76	75 - 125	1	20

Lab Sample ID: MB 500-677311/16
Matrix: Water
Analysis Batch: 677311

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			09/30/22 12:25	1

Lab Sample ID: LCS 500-677311/17
Matrix: Water
Analysis Batch: 677311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.9		mg/L		110	88 - 123

Lab Sample ID: 500-222492-11 MS
Matrix: Water
Analysis Batch: 677311

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	630		20.0	635	4	mg/L		25	75 - 125

Lab Sample ID: 500-222492-11 MSD
Matrix: Water
Analysis Batch: 677311

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	630		20.0	636	4	mg/L		30	75 - 125	0	20

Eurofins Chicago

Chain of Custody Record

524018



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager: <i>Diana Mueller</i>			Site Contact:			Date		COC No					
Company Name: <i>Midwest Generation EME LLC</i>		Tel/Email:			Lab Contact:			Carrier:		_____ of _____ COCs					
Address		Analysis Turnaround Time													
City/State/Zip: <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS													
Phone		TAT if different from Below _____													
Fax		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day													
Project Name: <i>Joliet #9 CCR</i>		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, F, Cl, SO4</i>										 500-222492 COC		Sampler	
Site: <i>3022 GW + Turbidity</i>														For Lab Use Only	
P O #														Walk-in Client <input type="checkbox"/>	
								Lab Sampling <input type="checkbox"/>		Job / SDG No					
										500-222492 _____					
										Sample Specific Notes					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.									
5 6 7 8 9 10		<i>09/26/22</i>	<i>0911</i>	<i>W</i>	<i>5</i>		<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>					
		<i>09/26/22</i>	<i>1031</i>	<i>W</i>	<i>5</i>		<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>					
		<i>09/26/22</i>	<i>1218</i>	<i>W</i>	<i>5</i>		<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>					
		<i>09/26/22</i>	<i>1324</i>	<i>W</i>	<i>5</i>		<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>					
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____															
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Special Instructions/QC Requirements & Comments:															
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No		Cooler Temp (°C) Obs'd <i>4.3</i> Corr'd. <i>3.0</i>		Therm ID No _____							
Relinquished by <i>[Signature]</i>		Company <i>EETP</i>		Date/Time <i>09/26/22 1425</i>		Received by _____		Company _____		Date/Time _____					
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____					
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>[Signature]</i>		Company <i>EETP</i>		Date/Time <i>9/26/22 1425</i>					



Chain of Custody Record

539036



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact		Date	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, F, Cl, SO4</i>		 500-222492 COC	
City/State/Zip <i>Soliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS					
Phone		TAT if different from Below _____					
Fax		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day					
Project Name <i>Soliet #9 CCR</i>							
Site <i>3Q22 GS + Turbidity</i>						COC No _____ of _____ COCs	
P O # _____						Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No <i>500-222492</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes
9	<i>T09S</i>		<i>09/27/22</i>	<i>0908</i>	<i>W</i>	<i>5</i>	
10	<i>T06S</i>		<i>09/27/22</i>	<i>1030</i>	<i>W</i>	<i>5</i>	
11	<i>T05S</i>		<i>09/27/22</i>	<i>1146</i>	<i>W</i>	<i>5</i>	
12	<i>G31S</i>		<i>09/27/22</i>	<i>1331</i>	<i>W</i>	<i>5</i>	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments:							
<i>2.1 + 0.8</i>							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____	
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/27/22 1428</i>		Received by _____ Company _____ Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received by _____ Company _____ Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>Stephanie Hammond</i> Company <i>EETA</i> Date/Time <i>09/27/22 1428</i>	

Chain of Custody Record 524019



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

** 500,222492 COC

TAL-8210

Client Contact		Project Manager <i>Diana Muckler</i>		Site Contact		Date	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FI, CI, SO4</i>		COC # of _____ COCs	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS				Sampler:	
Phone		TAT if different from Below _____				For Lab Use Only	
Fax		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				Walk-in Client <input type="checkbox"/>	
Project Name <i>Joliet #9 COP</i>						Lab Sampling <input type="checkbox"/>	
Site <i>3Q22 GW + Turbidity</i>				Job / SDG No		500-222492	
P O #				Sample Specific Notes			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	
13 14 15		<i>09/28/22</i>	<i>0932</i>		<i>W</i>	<i>5</i>	<i>/ / / /</i>
		<i>09/28/22</i>	<i>1203</i>		<i>W</i>	<i>5</i>	<i>/ / / /</i>
		<i>09/28/22</i>	<i>1403</i>		<i>W</i>	<i>5</i>	<i>/ / / /</i>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample				<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>1.4</i> Corr'd <i>0.1</i>		Therm ID No	
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/28/22 1527</i>		Received by	
Relinquished by		Company		Date/Time		Received by	
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>	
						Company <i>EETA</i> Date/Time <i>9/28/22 1527</i>	

Chain of Custody Record

524020




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact Company Name <i>Midwest Generation EPC U</i> Address _____ City/State/Zip <i>Joliet, IL</i> Phone _____ Fax _____ Project Name <i>Joliet #9 CCR</i> Site <i>3Q22 GW + Turbidity</i> P O # _____		Project Manager <i>Diana Mockler</i> Tel/Email: _____		Site Contact: _____ Lab Contact: _____		Date _____ Carrier _____		COC No _____ _____ of _____ COCs									
		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + 19</i> <i>TDS, FI, CI, SO4</i>		 500-222492 COC		Sampler _____ For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>		Job / SDG No <i>500-222492</i>							
Sample Identification		Sample Date						Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.		Sample Specific Notes	
<i>16</i> <i>17</i> <i>18</i> <i>19</i> T025		<i>09/29/22</i>						<i>0929</i>		<i>C</i>		<i>W</i>		<i>5</i>			
T085		<i>09/29/22</i>						<i>1131</i>		<i>W</i>		<i>W</i>		<i>5</i>			
T035		<i>09/29/22</i>						<i>1337</i>		<i>W</i>		<i>W</i>		<i>5</i>			
DYP of T035		<i>09/29/22</i>		<i>1337</i>		<i>W</i>		<i>W</i>		<i>5</i>							
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____						Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments:																	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No _____			Cooler Temp (°C) Obs'd <i>19</i> Corr'd <i>19</i>			Therm ID No _____								
Relinquished by <i>ETD</i>			Company <i>ETD</i>			Date/Time <i>09/29/22 1458</i>			Received by _____			Company _____			Date/Time _____		
Relinquished by _____			Company _____			Date/Time _____			Received by _____			Company _____			Date/Time _____		
Relinquished by _____			Company _____			Date/Time _____			Received in Laboratory by <i>John Smith</i>			Company <i>ETD</i>			Date/Time <i>9/29/22 1458</i>		

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Shipping/Receiving		Phone:	Mockler, Diana J		500-165564.1
Company: TesAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@et.eurofins.com		State of Origin:	Page: 1 of 1
Address: 13715 Ridler Trail North,		Accreditations Required (See note):		Job #:	500-222492-2
City: Earth City		NELAP - Illinois		Preservation Codes:	
State, Zip: MO, 63045		Due Date Requested: 10/10/2022		A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
PO #: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):		Analysis Requested	
WO #: 50011504		Matrix (W=water, S=solid, O=oil, BT=titania, A=Al)		Total Number of Containers	
Project #: Joliet #9 (Quarry) CCR 3022		Sample Date		Field Filtered Sample (Yes or No)	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Sample Time		Perform MS/MSD (Yes or No)	
		Sample Type (C=Comp, G=grab)		903.0/PreSep_21 Standard Target List	
		Preservation Code:		904.0/PreSep_0 Standard Target List	
				Ra26Ra228 GFC	
Sample Identification - Client ID (Lab ID)					
G46S (500-222492-5)	9/26/22	09:11 Central	Water	X	X
G45S (500-222492-6)	9/26/22	10:31 Central	Water	X	X
G44S (500-222492-7)	9/26/22	12:18 Central	Water	X	X
R32S (500-222492-8)	9/26/22	13:21 Central	Water	X	X
Special Instructions/Note:					
Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;					
Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;					
Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;					
Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;					

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____

Relinquished by: *Alvin Booth* Date/Time: 9/27/22 15:15 Company: *EFIA*

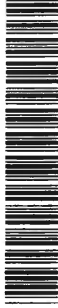
Relinquished by: **FED EX** Date/Time: 9/28/22 08:50 Company: *EFIA STC*

Relinquished by: **FED EX** Date/Time: 9/28/22 08:50 Company: *Autumn R. Johnson*

Custody Seals Intact: Yes No Custody Seal No.: _____
Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Lab No: 500-165564.1
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	
Address: 13715 Rider Trail North, Earth City State, Zip: MO, 63045		Camer Tracking No(s): Illinois	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Job #: 500-222492-1	
Email:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Nitric Acid R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Project Name: Joliet #9 (Quarry) CCR 3Q22		Analysis Requested	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Total Number of Containers	
Due Date Requested: 10/10/2022		Field Filtered Sample (Yes or No)	
TAT Requested (days):		Perform MS/MSD (Yes or No)	
PO #:		903.0/PreSep_21 Standard Target List	
WO #:		904.0/PreSep_0 Standard Target List	
Project #: 50011504		Ra226Ra228_GFPc	
SSOW#:		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume:	
Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code:
9/27/22	09:08 Central	Water	Water
9/27/22	10:30 Central	Water	Water
9/27/22	11:46 Central	Water	Water
9/27/22	13:31 Central	Water	Water
T09S (500-222492-9)			
T06S (500-222492-10)			
T05S (500-222492-11)			
G31S (500-222492-12)			

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: *John Smith* Date: *9/27/22* Time: *1515* Company: *EDTA*

Relinquished by: **FED EX** Date: *9/27/22* Time: *1515* Company: *EDTA*

Relinquished by: **FED EX** Date: *9/27/22* Time: *1515* Company: *EDTA*

Custody Seals Intact: Yes No Custody Seal No.: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Method of Shipment: _____

Received by: *Autumn R. Johnson* Date/Time: *SEP 28 2022 0850* Company: *EDTA*

Received by: *Autumn R. Johnson* Date/Time: *SEP 28 2022 0850* Company: *EDTA*

Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-222492-1

Login Number: 222492

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5,1.5,3.0,0.8,0.1,1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G20S

Lab Sample ID: 500-222492-1

Date Collected: 09/19/22 09:05

Matrix: Water

Date Received: 09/19/22 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			675848	BDE	EET CHI	09/22/22 09:12 - 09/22/22 09:42 ¹
Total Recoverable	Analysis	6020A		1	676368	FXG	EET CHI	09/23/22 15:33
Total Recoverable	Prep	3005A			675848	BDE	EET CHI	09/22/22 09:12 - 09/22/22 09:42 ¹
Total Recoverable	Analysis	6020A		5	676368	FXG	EET CHI	09/23/22 18:27
Total/NA	Prep	7470A			675960	MJG	EET CHI	09/22/22 15:25 - 09/22/22 17:25 ¹
Total/NA	Analysis	7470A		1	676124	MJG	EET CHI	09/23/22 08:43
Total/NA	Analysis	SM 2540C		1	676402	SMO	EET CHI	09/26/22 13:48
Total/NA	Analysis	SM 4500 CI- E		1	675941	LP	EET CHI	09/22/22 12:41
Total/NA	Analysis	SM 4500 F C		1	675998	EAT	EET CHI	09/22/22 16:34
Total/NA	Analysis	SM 4500 SO4 E		2	676645	LP	EET CHI	09/27/22 14:12
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/19/22 09:05

Client Sample ID: R08S

Lab Sample ID: 500-222492-2

Date Collected: 09/19/22 13:00

Matrix: Water

Date Received: 09/19/22 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			675848	BDE	EET CHI	09/22/22 09:12 - 09/22/22 09:42 ¹
Total Recoverable	Analysis	6020A		1	676368	FXG	EET CHI	09/23/22 15:37
Total Recoverable	Prep	3005A			675848	BDE	EET CHI	09/22/22 09:12 - 09/22/22 09:42 ¹
Total Recoverable	Analysis	6020A		20	676368	FXG	EET CHI	09/23/22 18:31
Total/NA	Prep	7470A			675960	MJG	EET CHI	09/22/22 15:25 - 09/22/22 17:25 ¹
Total/NA	Analysis	7470A		1	676124	MJG	EET CHI	09/23/22 08:45
Total/NA	Analysis	SM 2540C		1	676402	SMO	EET CHI	09/26/22 13:50
Total/NA	Analysis	SM 4500 CI- E		2	675941	LP	EET CHI	09/22/22 14:20
Total/NA	Analysis	SM 4500 F C		1	675998	EAT	EET CHI	09/22/22 16:37
Total/NA	Analysis	SM 4500 SO4 E		20	676645	LP	EET CHI	09/27/22 14:13
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/19/22 13:00

Client Sample ID: G47S

Lab Sample ID: 500-222492-3

Date Collected: 09/22/22 10:35

Matrix: Water

Date Received: 09/22/22 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		1	676808	FXG	EET CHI	09/27/22 17:18
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		20	676878	FXG	EET CHI	09/28/22 12:25
Total/NA	Prep	7470A			676665	MJG	EET CHI	09/27/22 15:20 - 09/27/22 17:20 ¹
Total/NA	Analysis	7470A		1	676847	MJG	EET CHI	09/28/22 07:45
Total/NA	Analysis	SM 2540C		1	676925	SMO	EET CHI	09/28/22 17:37
Total/NA	Analysis	SM 4500 CI- E		5	676200	LP	EET CHI	09/23/22 16:15
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:00

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G47S

Date Collected: 09/22/22 10:35

Date Received: 09/22/22 14:47

Lab Sample ID: 500-222492-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		20	676645	LP	EET CHI	09/27/22 14:13
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/22/22 10:35

Client Sample ID: G48S

Date Collected: 09/22/22 12:59

Date Received: 09/22/22 14:47

Lab Sample ID: 500-222492-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		1	676808	FXG	EET CHI	09/27/22 17:21
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		20	676878	FXG	EET CHI	09/28/22 12:29
Total/NA	Prep	7470A			676665	MJG	EET CHI	09/27/22 15:20 - 09/27/22 17:20 ¹
Total/NA	Analysis	7470A		1	676847	MJG	EET CHI	09/28/22 07:47
Total/NA	Analysis	SM 2540C		1	676925	SMO	EET CHI	09/28/22 17:42
Total/NA	Analysis	SM 4500 CI- E		5	676200	LP	EET CHI	09/23/22 16:16
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:13
Total/NA	Analysis	SM 4500 SO4 E		20	676645	LP	EET CHI	09/27/22 14:13
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/22/22 12:59

Client Sample ID: G46S

Date Collected: 09/26/22 09:11

Date Received: 09/26/22 14:25

Lab Sample ID: 500-222492-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		1	676808	FXG	EET CHI	09/27/22 17:32
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		50	676878	FXG	EET CHI	09/28/22 12:32
Total/NA	Prep	7470A			676665	MJG	EET CHI	09/27/22 15:20 - 09/27/22 17:20 ¹
Total/NA	Analysis	7470A		1	676847	MJG	EET CHI	09/28/22 07:50
Total/NA	Analysis	SM 2540C		1	677333	SMO	EET CHI	09/30/22 14:08
Total/NA	Analysis	SM 4500 CI- E		5	676614	LP	EET CHI	09/27/22 12:10
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:15
Total/NA	Analysis	SM 4500 SO4 E		20	676645	LP	EET CHI	09/27/22 14:13
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/26/22 09:11

Client Sample ID: G45S

Date Collected: 09/26/22 10:31

Date Received: 09/26/22 14:25

Lab Sample ID: 500-222492-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		1	676808	FXG	EET CHI	09/27/22 17:35

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G45S

Date Collected: 09/26/22 10:31

Date Received: 09/26/22 14:25

Lab Sample ID: 500-222492-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		1	676878	FXG	EET CHI	09/28/22 12:35
Total/NA	Prep	7470A			676665	MJG	EET CHI	09/27/22 15:20 - 09/27/22 17:20 ¹
Total/NA	Analysis	7470A		1	676847	MJG	EET CHI	09/28/22 07:52
Total/NA	Analysis	SM 2540C		1	677333	SMO	EET CHI	09/30/22 14:08
Total/NA	Analysis	SM 4500 CI- E		10	676614	LP	EET CHI	09/27/22 12:10
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:18
Total/NA	Analysis	SM 4500 SO4 E		10	676645	LP	EET CHI	09/27/22 14:14
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/26/22 10:31

Client Sample ID: G44S

Date Collected: 09/26/22 12:18

Date Received: 09/26/22 14:25

Lab Sample ID: 500-222492-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		1	676808	FXG	EET CHI	09/27/22 17:38
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		5	676878	FXG	EET CHI	09/28/22 12:39
Total/NA	Prep	7470A			676665	MJG	EET CHI	09/27/22 15:20 - 09/27/22 17:20 ¹
Total/NA	Analysis	7470A		1	676847	MJG	EET CHI	09/28/22 07:54
Total/NA	Analysis	SM 2540C		1	677333	SMO	EET CHI	09/30/22 14:08
Total/NA	Analysis	SM 4500 CI- E		10	676614	LP	EET CHI	09/27/22 12:11
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:21
Total/NA	Analysis	SM 4500 SO4 E		10	676645	LP	EET CHI	09/27/22 14:15
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/26/22 12:18

Client Sample ID: R32S

Date Collected: 09/26/22 13:21

Date Received: 09/26/22 14:25

Lab Sample ID: 500-222492-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		1	676808	FXG	EET CHI	09/27/22 17:42
Total Recoverable	Prep	3005A			676547	BDE	EET CHI	09/27/22 08:37 - 09/27/22 09:07 ¹
Total Recoverable	Analysis	6020A		20	676878	FXG	EET CHI	09/28/22 12:42
Total/NA	Prep	7470A			676665	MJG	EET CHI	09/27/22 15:20 - 09/27/22 17:20 ¹
Total/NA	Analysis	7470A		1	676847	MJG	EET CHI	09/28/22 08:32
Total/NA	Analysis	SM 2540C		1	677333	SMO	EET CHI	09/30/22 14:08
Total/NA	Analysis	SM 4500 CI- E		5	676614	LP	EET CHI	09/27/22 12:11
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:24
Total/NA	Analysis	SM 4500 SO4 E		20	676645	LP	EET CHI	09/27/22 14:15
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/26/22 13:21

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: T09S

Lab Sample ID: 500-222492-9

Date Collected: 09/27/22 09:08

Matrix: Water

Date Received: 09/27/22 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			676771	BDE	EET CHI	09/28/22 08:14 - 09/28/22 08:44 ¹
Total Recoverable	Analysis	6020A		1	677063	FXG	EET CHI	09/28/22 16:23
Total Recoverable	Prep	3005A			676771	BDE	EET CHI	09/28/22 08:14 - 09/28/22 08:44 ¹
Total Recoverable	Analysis	6020A		20	677288	FXG	EET CHI	09/29/22 12:57
Total/NA	Prep	7470A			676906	MJG	EET CHI	09/28/22 15:10 - 09/28/22 17:10 ¹
Total/NA	Analysis	7470A		1	677085	MJG	EET CHI	09/29/22 09:49
Total/NA	Analysis	SM 2540C		1	677338	SMO	EET CHI	09/30/22 15:17
Total/NA	Analysis	SM 4500 CI- E		5	677306	LP	EET CHI	09/30/22 09:59
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:34
Total/NA	Analysis	SM 4500 SO4 E		20	677311	LP	EET CHI	09/30/22 12:27
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/27/22 09:08

Client Sample ID: T06S

Lab Sample ID: 500-222492-10

Date Collected: 09/27/22 10:30

Matrix: Water

Date Received: 09/27/22 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			676771	BDE	EET CHI	09/28/22 08:14 - 09/28/22 08:44 ¹
Total Recoverable	Analysis	6020A		1	677063	FXG	EET CHI	09/28/22 16:26
Total Recoverable	Prep	3005A			676771	BDE	EET CHI	09/28/22 08:14 - 09/28/22 08:44 ¹
Total Recoverable	Analysis	6020A		1	677288	FXG	EET CHI	09/29/22 13:01
Total/NA	Prep	7470A			676906	MJG	EET CHI	09/28/22 15:10 - 09/28/22 17:10 ¹
Total/NA	Analysis	7470A		1	677085	MJG	EET CHI	09/29/22 09:52
Total/NA	Analysis	SM 2540C		1	677338	SMO	EET CHI	09/30/22 15:20
Total/NA	Analysis	SM 4500 CI- E		1	677306	LP	EET CHI	09/30/22 09:41
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:37
Total/NA	Analysis	SM 4500 SO4 E		10	677311	LP	EET CHI	09/30/22 12:28
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/27/22 10:30

Client Sample ID: T05S

Lab Sample ID: 500-222492-11

Date Collected: 09/27/22 11:46

Matrix: Water

Date Received: 09/27/22 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			676771	BDE	EET CHI	09/28/22 08:14 - 09/28/22 08:44 ¹
Total Recoverable	Analysis	6020A		1	677063	FXG	EET CHI	09/28/22 16:30
Total Recoverable	Prep	3005A			676771	BDE	EET CHI	09/28/22 08:14 - 09/28/22 08:44 ¹
Total Recoverable	Analysis	6020A		20	677288	FXG	EET CHI	09/29/22 13:04
Total/NA	Prep	7470A			676906	MJG	EET CHI	09/28/22 15:10 - 09/28/22 17:10 ¹
Total/NA	Analysis	7470A		1	677085	MJG	EET CHI	09/29/22 09:54
Total/NA	Analysis	SM 2540C		1	677338	SMO	EET CHI	09/30/22 15:22
Total/NA	Analysis	SM 4500 CI- E		10	677306	LP	EET CHI	09/30/22 09:59
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:40

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: T05S

Date Collected: 09/27/22 11:46

Date Received: 09/27/22 14:28

Lab Sample ID: 500-222492-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		20	677311	LP	EET CHI	09/30/22 12:41
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/27/22 11:46

Client Sample ID: G31S

Date Collected: 09/27/22 13:31

Date Received: 09/27/22 14:28

Lab Sample ID: 500-222492-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			676771	BDE	EET CHI	09/28/22 08:14 - 09/28/22 08:44 ¹
Total Recoverable	Analysis	6020A		1	677063	FXG	EET CHI	09/28/22 16:33
Total Recoverable	Prep	3005A			676771	BDE	EET CHI	09/28/22 08:14 - 09/28/22 08:44 ¹
Total Recoverable	Analysis	6020A		10	677288	FXG	EET CHI	09/29/22 13:08
Total/NA	Prep	7470A			676906	MJG	EET CHI	09/28/22 15:10 - 09/28/22 17:10 ¹
Total/NA	Analysis	7470A		1	677085	MJG	EET CHI	09/29/22 09:56
Total/NA	Analysis	SM 2540C		1	677338	SMO	EET CHI	09/30/22 15:25
Total/NA	Analysis	SM 4500 CI- E		10	677306	LP	EET CHI	09/30/22 09:59
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:43
Total/NA	Analysis	SM 4500 SO4 E		20	677311	LP	EET CHI	09/30/22 12:28
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/27/22 13:31

Client Sample ID: T01S

Date Collected: 09/28/22 09:32

Date Received: 09/28/22 15:27

Lab Sample ID: 500-222492-13

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			677021	BDE	EET CHI	09/29/22 09:11 - 09/29/22 09:41 ¹
Total Recoverable	Analysis	6020A		1	677574	FXG	EET CHI	09/30/22 19:40
Total Recoverable	Prep	3005A			677021	BDE	EET CHI	09/29/22 09:11 - 09/29/22 09:41 ¹
Total Recoverable	Analysis	6020A		10	678011	FXG	EET CHI	10/04/22 15:30
Total/NA	Prep	7470A			677139	MJG	EET CHI	09/29/22 15:40 - 09/29/22 17:40 ¹
Total/NA	Analysis	7470A		1	677309	MJG	EET CHI	09/30/22 07:30
Total/NA	Analysis	SM 2540C		1	677839	SMO	EET CHI	10/04/22 15:30
Total/NA	Analysis	SM 4500 CI- E		10	677306	LP	EET CHI	09/30/22 10:00
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:45
Total/NA	Analysis	SM 4500 SO4 E		10	677311	LP	EET CHI	09/30/22 12:28
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/28/22 09:32

Client Sample ID: G30S

Date Collected: 09/28/22 12:03

Date Received: 09/28/22 15:27

Lab Sample ID: 500-222492-14

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			677021	BDE	EET CHI	09/29/22 09:11 - 09/29/22 09:41 ¹
Total Recoverable	Analysis	6020A		1	677574	FXG	EET CHI	09/30/22 19:43

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: G30S

Date Collected: 09/28/22 12:03

Date Received: 09/28/22 15:27

Lab Sample ID: 500-222492-14

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			677021	BDE	EET CHI	09/29/22 09:11 - 09/29/22 09:41 ¹
Total Recoverable	Analysis	6020A		10	678011	FXG	EET CHI	10/04/22 15:33
Total/NA	Prep	7470A			677139	MJG	EET CHI	09/29/22 15:40 - 09/29/22 17:40 ¹
Total/NA	Analysis	7470A		1	677309	MJG	EET CHI	09/30/22 07:33
Total/NA	Analysis	SM 2540C		1	677839	SMO	EET CHI	10/04/22 15:31
Total/NA	Analysis	SM 4500 CI- E		10	677306	LP	EET CHI	09/30/22 10:00
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:48
Total/NA	Analysis	SM 4500 SO4 E		20	677311	LP	EET CHI	09/30/22 12:29
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/28/22 12:03

Client Sample ID: G33S

Date Collected: 09/28/22 14:03

Date Received: 09/28/22 15:27

Lab Sample ID: 500-222492-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			677021	BDE	EET CHI	09/29/22 09:11 - 09/29/22 09:41 ¹
Total Recoverable	Analysis	6020A		1	677574	FXG	EET CHI	09/30/22 19:47
Total Recoverable	Prep	3005A			677021	BDE	EET CHI	09/29/22 09:11 - 09/29/22 09:41 ¹
Total Recoverable	Analysis	6020A		5	678011	FXG	EET CHI	10/04/22 15:37
Total/NA	Prep	7470A			677139	MJG	EET CHI	09/29/22 15:40 - 09/29/22 17:40 ¹
Total/NA	Analysis	7470A		1	677309	MJG	EET CHI	09/30/22 07:35
Total/NA	Analysis	SM 2540C		1	677839	SMO	EET CHI	10/04/22 15:32
Total/NA	Analysis	SM 4500 CI- E		1	677306	LP	EET CHI	09/30/22 09:43
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:51
Total/NA	Analysis	SM 4500 SO4 E		5	677311	LP	EET CHI	09/30/22 12:30
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/28/22 14:03

Client Sample ID: T02S

Date Collected: 09/29/22 09:29

Date Received: 09/29/22 14:58

Lab Sample ID: 500-222492-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			677238	BDE	EET CHI	09/30/22 08:57 - 09/30/22 09:27 ¹
Total Recoverable	Analysis	6020A		1	677574	FXG	EET CHI	09/30/22 18:31
Total Recoverable	Prep	3005A			677238	BDE	EET CHI	09/30/22 08:57 - 09/30/22 09:27 ¹
Total Recoverable	Analysis	6020A		10	677861	FXG	EET CHI	10/04/22 14:35
Total/NA	Prep	7470A			677362	MJG	EET CHI	09/30/22 16:30 - 09/30/22 18:30 ¹
Total/NA	Analysis	7470A		1	677590	MJG	EET CHI	10/03/22 07:41
Total/NA	Analysis	SM 2540C		1	678291	SMO	EET CHI	10/06/22 13:07
Total/NA	Analysis	SM 4500 CI- E		10	677306	LP	EET CHI	09/30/22 10:00
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:53
Total/NA	Analysis	SM 4500 SO4 E		20	677311	LP	EET CHI	09/30/22 12:30
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/29/22 09:29

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: T08S

Lab Sample ID: 500-222492-17

Date Collected: 09/29/22 11:31

Matrix: Water

Date Received: 09/29/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			677238	BDE	EET CHI	09/30/22 08:57 - 09/30/22 09:27 ¹
Total Recoverable	Analysis	6020A		1	677574	FXG	EET CHI	09/30/22 18:35
Total Recoverable	Prep	3005A			677238	BDE	EET CHI	09/30/22 08:57 - 09/30/22 09:27 ¹
Total Recoverable	Analysis	6020A		20	677861	FXG	EET CHI	10/04/22 14:39
Total/NA	Prep	7470A			677362	MJG	EET CHI	09/30/22 16:30 - 09/30/22 18:30 ¹
Total/NA	Analysis	7470A		1	677590	MJG	EET CHI	10/03/22 07:43
Total/NA	Analysis	SM 2540C		1	678291	SMO	EET CHI	10/06/22 13:08
Total/NA	Analysis	SM 4500 CI- E		10	677306	LP	EET CHI	09/30/22 10:00
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:55
Total/NA	Analysis	SM 4500 SO4 E		20	677311	LP	EET CHI	09/30/22 12:31
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/29/22 11:31

Client Sample ID: T03S

Lab Sample ID: 500-222492-18

Date Collected: 09/29/22 13:37

Matrix: Water

Date Received: 09/29/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			677238	BDE	EET CHI	09/30/22 08:57 - 09/30/22 09:27 ¹
Total Recoverable	Analysis	6020A		1	677574	FXG	EET CHI	09/30/22 18:38
Total Recoverable	Prep	3005A			677238	BDE	EET CHI	09/30/22 08:57 - 09/30/22 09:27 ¹
Total Recoverable	Analysis	6020A		5	677861	FXG	EET CHI	10/04/22 14:42
Total/NA	Prep	7470A			677362	MJG	EET CHI	09/30/22 16:30 - 09/30/22 18:30 ¹
Total/NA	Analysis	7470A		1	677590	MJG	EET CHI	10/03/22 07:46
Total/NA	Analysis	SM 2540C		1	678291	SMO	EET CHI	10/06/22 13:09
Total/NA	Analysis	SM 4500 CI- E		10	677306	LP	EET CHI	09/30/22 10:01
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 11:58
Total/NA	Analysis	SM 4500 SO4 E		10	677311	LP	EET CHI	09/30/22 12:31
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/29/22 13:37

Client Sample ID: DUP

Lab Sample ID: 500-222492-19

Date Collected: 09/29/22 13:37

Matrix: Water

Date Received: 09/29/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			677238	BDE	EET CHI	09/30/22 08:57 - 09/30/22 09:27 ¹
Total Recoverable	Analysis	6020A		1	677574	FXG	EET CHI	09/30/22 18:42
Total Recoverable	Prep	3005A			677238	BDE	EET CHI	09/30/22 08:57 - 09/30/22 09:27 ¹
Total Recoverable	Analysis	6020A		5	677861	FXG	EET CHI	10/04/22 14:46
Total/NA	Prep	7470A			677362	MJG	EET CHI	09/30/22 16:30 - 09/30/22 18:30 ¹
Total/NA	Analysis	7470A		1	677590	MJG	EET CHI	10/03/22 07:48
Total/NA	Analysis	SM 2540C		1	678291	SMO	EET CHI	10/06/22 13:10
Total/NA	Analysis	SM 4500 CI- E		10	677306	LP	EET CHI	09/30/22 10:01
Total/NA	Analysis	SM 4500 F C		1	677387	EAT	EET CHI	10/01/22 12:07

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-1

Client Sample ID: DUP

Lab Sample ID: 500-222492-19

Date Collected: 09/29/22 13:37

Matrix: Water

Date Received: 09/29/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		20	677311	LP	EET CHI	09/30/22 12:31
Total/NA	Analysis	Field Sampling		1	675345	JVB	EET CHI	09/29/22 13:37

* Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G20S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-1

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/19/22 Start Purge: 0845 End Purge: 0905
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.26

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.78 (ft) pH 7.58 7.58 7.58 (std.)
Ref. Measuring Pt. TIC SC 665 661 661 (umhos/cm)
Well Elevation *580.87 (ft./msl) Temp. 21.11 21.19 21.19 (°C)
Water Level 73.94 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 506.93 (ft./msl)
Well Bottom Elevation *442.28 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, clear, slight odor
Weather Conditions: 72°F, Sunny, NE winds @ 5-10 mph
Turbidity: 2.47 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 73.94 - 2.78 = 71.16 (ft)
Levels were taken on 09/19/22 @ 0840

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R08S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-2

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/19/22 Start Purge: 1245 End Purge: 1300
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.68

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.55 (ft) pH 8.39 8.47 8.47 (std.)
Ref. Measuring Pt. TIC SC 1027 1033 1033 (umhos/cm)
Well Elevation *578.66 (ft./msl) Temp. 15.11 15.57 15.57 (°C)
Water Level 67.21 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 511.45 (ft./msl)
Well Bottom Elevation *453.08 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 78°F, Fair, NE winds @ 0-5 mph
Turbidity: 0.36 NTU
Other: *Reference Measurement (Well ID updated 11-25-15)
Depth To Water from L.S. = 67.21 - 2.55 = 64.66 (ft.)
Levels were taken on 09/19/22 @ 1240.

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G47S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-3

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/22/22 Start Purge: 1015 End Purge: 1035
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

MEASUREMENTS

Well Diameter 4.0 (inches) 1st 2nd Final
Stick Up 2.50 (ft) pH 9.79 9.85 9.85 (std.)
Ref. Measuring Pt. TIC SC 1810 1810 1810 (umhos/cm)
Well Elevation *612.23 (ft./msl) Temp. 14.59 14.58 14.58 (°C)
Water Level 88.85 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 523.38 (ft./msl)
Well Bottom Elevation *459.84 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 61°F, Partly Cloudy, NW windse 10-15 mph
Turbidity: 0.35 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 88.85 - 2.50 = 86.35 (ft.)
Levels were taken on 09/22/22 @ 1010

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G48S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-4

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/22/22 Start Purge: 1235 End Purge: 1259
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 1.24

MEASUREMENTS

Well Diameter 4.0 (inches) 1st 2nd Final
Stick Up 2.45 (ft) pH 8.08 8.14 8.14 (std.)
Ref. Measuring Pt. TIC SC 1451 1445 1445 (umhos/cm)
Well Elevation *620.77 (ft./msl) Temp. 15.17 15.13 15.13 (°C)
Water Level 104.86 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 515.91 (ft./msl)
Well Bottom Elevation *468.32 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 63°F, Partly Cloudy, N winds @ 5-10 mph
Turbidity: 0.96 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 104.86 - 2.45 = 102.41 (ft)
Levels were taken on 09/22/22 @ 1230

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G46S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-5

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/26/22 Start Purge: 0855 End Purge: 0911
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.72

MEASUREMENTS

Well Diameter 4.0 (inches) 1st 2nd Final
Stick Up 2.70 (ft) pH 7.29 7.31 7.31 (std.)
Ref. Measuring Pt. TIC SC 1387 1388 1388 (umhos/cm)
Well Elevation *601.41 (ft./msl) Temp. 12.89 12.94 12.94 (°C)
Water Level 96.60 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 504.81 (ft./msl)
Well Bottom Elevation *453.62 (ft./msl)

COMMENTS

Sample Appearance/Odor: Tan, Moderate Turbidity, No Odor
Weather Conditions: 54°F, Sunny, NW winds 10-15 mph
Turbidity: 34.40 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 96.60 - 2.70 = 93.90 (ft)
Levels were taken on 09/26/22 @ 0850

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G45S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-227492-6

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/26/22 Start Purge: 1020 End Purge: 1031
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.43

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																					
Stick Up <u>2.97</u> (ft)	pH <u>7.14</u>	<u>7.14</u>	<u>7.14</u>	(std.)																				
Ref. Measuring Pt. <u>TIC</u>	SC <u>1034</u>	<u>1039</u>	<u>1039</u>	(umhos/cm)																				
Well Elevation <u>*603.80</u> (ft./msl)	Temp. <u>13.98</u>	<u>13.99</u>	<u>13.99</u>	(°C)																				
Water Level <u>67.31</u> (ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev. <u>536.49</u> (ft./msl)	<table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																							
Well Bottom Elevation <u>*471.05</u> (ft./msl)																								

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 59°F, Sunny, NW winds @ 10-15 mph
Turbidity: 0.29 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 67.31 - 2.97 = 64.34 (ft.)
Levels were taken on 09/26/22 @ 1015

(Updated: 07/14/2022)

Sampler Name (Print): Noc Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G44S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500 222492-7

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/26/22 Start Purge: 1200 End Purge: 1218
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.58

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.18 (ft) pH 6.96 7.01 7.01 (std.)
Ref. Measuring Pt. TIC SC 1101 1094 1094 (umhos/cm)
Well Elevation *586.68 (ft./msl) Temp. 13.70 14.06 14.06 (°C)
Water Level 80.24 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 506.44 (ft./msl)
Well Bottom Elevation *455.11 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 62°F, Partly Cloudy, NW winds e 10-15 mph
Turbidity: 0.86 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 80.24 - 2.18 = 78.06 (ft.)
Levels were taken on 09/26/22 @ 1155

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R32S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-8

Type Sample: (circle one) Ground Water Surface Water Leachate Other: _____
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (N)
Sampling _____ Bladder Pump _____ Dedicated (N)

PURGING INFORMATION

Purge Date: 09/26/22 Start Purge: 1305 End Purge: 1321
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.72

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.03 (ft) pH 7.21 7.23 7.23 (std.)
Ref. Measuring Pt. TIC SC 1017 1022 1022 (umhos/cm)
Well Elevation *536.97 (ft./msl) Temp. 11.98 12.01 12.01 (°C)
Water Level 20.17 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 516.80 (ft./msl)
Well Bottom Elevation *457.84 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 64°F, Partly Cloudy, NW winds e 10-15 mph
Turbidity: 0.66 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 20.17 - 2.03 = 18.14 (ft.)
Levels were taken on 09/26/22 @ 1300

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T09S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-9

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 09/21/22 Start Purge: 0850 End Purge: 0908
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.58

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.40 (ft) pH 7.32 7.32 7.32 (std.)
Ref. Measuring Pt. TIC SC 1286 1299 1299 (umhos/cm)
Well Elevation * 603.48 (ft./msl) Temp. 10.68 10.61 10.61 (°C)
Water Level 99.31 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 504.17 (ft./msl)
Well Bottom Elevation * 444.80 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 51°F, Sunny, NW winds e 0-5 mph
Turbidity: 3.23 NTU
Other: *Reference Measurement (updated 02/19/14)
Depth To Water from L.S. = 99.31 - 2.40 = 96.91 (ft)
Levels were taken on 09/21/22 @ 0835
* Total Depth: 158.59

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T06S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-10

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 09/21/22 Start Purge: 1015 End Purge: 1030
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.48

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.30 (ft) pH 7.25 7.24 7.24 (std.)
Ref. Measuring Pt. TIC SC 762 760 760 (umhos/cm)
Well Elevation * 621.05 (ft./msl) Temp. 13.18 13.18 13.18 (°C)
Water Level 114.76 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 506.29 (ft./msl)
Well Bottom Elevation * 447.94 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 57°F, Sunny, NW w/ds @ 5-10 mph
Turbidity: 0.58 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 114.76 - 2.30 = 112.46 (ft)
Levels were taken on 09/21/22 @ 1010
* Total Deth = 173.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T05S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-11

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 09/27/22 Start Purge: 1130 End Purge: 1146
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.52

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																															
Stick Up <u>2.40</u> (ft)	pH <u>9.24</u>	<u>9.25</u>	<u>9.25</u>	(std.)																														
Ref. Measuring Pt. <u>TIC</u>	SC <u>2110</u>	<u>2110</u>	<u>2110</u>	(umhos/cm)																														
Well Elevation * <u>623.50</u> (ft./msl)	Temp. <u>17.00</u>	<u>17.02</u>	<u>17.02</u>	(°C)																														
Water Level <u>126.53</u> (ft.)	Well Stabilization / Recharge Grid																																	
Ground Water Elev. <u>496.97</u> (ft./msl)	<table border="1" style="width: 100%; height: 40px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																	
Well Bottom Elevation * <u>448.35</u> (ft./msl)																																		

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 59°F, Partly Cloudy, NW winds e 10-15 mph
Turbidity: 0.68 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 126.53 - 2.40 = 124.13 (ft)
Levels were taken on 09/27/22 @ 1115
* Total Deth = 175.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G31S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-12

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/21/22 Start Purge: 1313 End Purge: 1331
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.81

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																														
Stick Up <u>2.58</u> (ft)	pH <u>7.57</u>	<u>7.60</u>	<u>7.60</u> (std.)																														
Ref. Measuring Pt. <u>TIC</u>	SC <u>1600</u>	<u>1600</u>	<u>1600</u> (umhos/cm)																														
Well Elevation <u>*535.73</u> (ft./msl)	Temp. <u>14.95</u>	<u>14.93</u>	<u>14.93</u> (°C)																														
Water Level <u>26.75</u> (ft.)	Well Stabilization / Recharge Grid																																
Ground Water Elev. <u>508.98</u> (ft./msl)	<table border="1" style="width: 100%; height: 40px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																
Well Bottom Elevation <u>*453.36</u> (ft./msl)																																	

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 51°F, Sunny, NW winds @ 10-15 mph
Turbidity: 0.69 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 26.75 - 2.58 = 24.17 (ft.)
Levels were taken on 09/21/22 @ 1258

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T01S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-13

Type Sample: (circle one) Ground Water Surface Water Leachate Other: _____

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)

Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 09/28/22 Start Purge: 0910 End Purge: 0932
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.28

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.48 (ft) pH 7.70 7.71 7.71 (std.)

Ref. Measuring Pt. TIC SC 1376 1371 1371 (umhos/cm)

Well Elevation * 621.84 (ft./msl) Temp. 10.98 10.99 10.99 (°C)

Water Level 125.96 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 495.88 (ft./msl)

Well Bottom Elevation * 451.46 (ft./msl)

COMMENTS

Sample Appearance/Odor: Tan, Moderate Turbidity, Slight Odor

Weather Conditions: 52°F, Sunny, N winds e 5-10 mph

Turbidity: 28.40 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 125.96 - 2.48 = 123.48 (ft)

Levels were taken on 09/28/22 @ 0855

* Total Depth = 170.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G30S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-14

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated
Sampling _____ Bladder Pump _____ Dedicated

PURGING INFORMATION

Purge Date: 09/28/22 Start Purge: 1145 End Purge: 1203
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.23

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.31 (ft) pH 7.70 7.72 7.72 (std.)
Ref. Measuring Pt. TIC SC 1790 1800 1800 (umhos/cm)
Well Elevation *524.86 (ft./msl) Temp. 12.86 12.87 12.87 (°C)
Water Level 2.59 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 522.27 (ft./msl)
Well Bottom Elevation *462.58 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 58°F, Partly Cloudy, N winds @ 5-10 mph
Turbidity: 0.61 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 2.59 - 2.31 = 0.28 (ft.)
Levels were taken on 09/28/22 @ 1140

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G33S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-15

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/28/22 Start Purge: 1245 End Purge: 1403
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.46

MEASUREMENTS

Well Diameter	<u>2.0</u>	(inches)	1st	2nd	Final																			
Stick Up	<u>1.73</u>	(ft)	pH	<u>7.30</u>	<u>7.32</u>	<u>7.32</u> (std.)																		
Ref. Measuring Pt.	<u>TIC</u>		SC	<u>703</u>	<u>697</u>	<u>697</u> (umhos/cm)																		
Well Elevation	<u>*535.67</u>	(ft./msl)	Temp.	<u>16.57</u>	<u>16.64</u>	<u>16.64</u> (°C)																		
Water Level	<u>33.51</u>	(ft.)	Well Stabilization / Recharge Grid																					
Ground Water Elev.	<u>502.16</u>	(ft./msl)	<table border="1" style="width: 100%; height: 40px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																					
Well Bottom Elevation	<u>*452.72</u>	(ft./msl)																						

COMMENTS

Sample Appearance/Odor: Gray, Slight Turbidity, No Odor
Weather Conditions: 61°F, Fair, NE winds @ 5-10 mph
Turbidity: 15.10 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 33.51 - 1.73 = 31.78 (ft)
Levels were taken on 09/28/22 @ 1240

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T02S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-16

Type Sample: Ground Water
Equipment Used: Purging, Bladder Pump, Sampling, Bladder Pump
Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/29/22 Start Purge: 0910 End Purge: 0929
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.61

MEASUREMENTS

Well Diameter 2.0 (inches)
Stick Up 2.33 (ft)
Ref. Measuring Pt. TIC
Well Elevation * 626.12 (ft./msl)
Water Level 136.70 (ft.)
Ground Water Elev. 489.42 (ft./msl)
Well Bottom Elevation * 453.40 (ft./msl)
pH 7.26 7.26 7.26 (std.)
SC 1190 1184 1184 (umhos/cm)
Temp. 12.93 12.92 12.92 (°C)

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, No Odor
Weather Conditions: 52°F, Partly Cloudy, W winds @ 0-5 mph
Turbidity: 29.90 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 136.70 - 2.33 = 134.37 (ft.)
Levels were taken on 09/29/22 @ 0855.
* Total Depth = 172.75

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T08S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-17

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/29/22 Start Purge: 1115 End Purge: 1131
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.44

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.38 (ft) pH 9.18 9.17 9.17 (std.)
Ref. Measuring Pt. TIC SC 1318 1324 1324 (umhos/cm)
Well Elevation * 627.55 (ft./msl) Temp. 20.18 20.18 20.18 (°C)
Water Level 130.74 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 496.81 (ft./msl)
Well Bottom Elevation * 447.38 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, Strong Odor
Weather Conditions: 58°F, Fair, E winds @ 0-5 mph
Turbidity: 6.84 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 130.74 - 2.38 = 128.36 (ft.)
Levels were taken on 09/29/22 @ 1100
* Total Deth = 180.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T03S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-18

Type Sample: (circle one) Ground Water Surface Water Leachate Other: _____
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 09/29/22 Start Purge: 1319 End Purge: 1337
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.46

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																																								
Stick Up <u>3.08</u> (ft)	pH <u>7.00</u>	<u>7.00</u>	<u>7.00</u> (std.)																																								
Ref. Measuring Pt. <u>TIC</u>	SC <u>1187</u>	<u>1180</u>	<u>1180</u> (umhos/cm)																																								
Well Elevation * <u>629.85</u> (ft./msl)	Temp. <u>12.08</u>	<u>12.09</u>	<u>12.09</u> (°C)																																								
Water Level <u>140.62</u> (ft.)	Well Stabilization / Recharge Grid																																										
Ground Water Elev. <u>489.23</u> (ft./msl)	<table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																										
Well Bottom Elevation * <u>456.70</u> (ft./msl)																																											

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, No Odor
Weather Conditions: 61°F, Sunny, NW winds e 0-5 mph
Turbidity: 0.53 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 140.62 - 3.08 = 137.54 (ft)
Levels were taken on 09/29/22 @ 1314
* Total Depth = 172.95

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing
America

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T03S Dup
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-222492-19

Type Sample: (circle one) Ground Water Surface Water Leachate Other: _____
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: _____ Start Purge: _____ End Purge: _____
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): _____

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 3.08 (ft) pH _____ (std.)
Ref. Measuring Pt. TIC SC _____ (umhos/cm)
Well Elevation * 629.85 (ft./msl) Temp. _____ (°C)
Water Level _____ (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. _____ (ft./msl)

Well Bottom Elevation * 456.70 (ft./msl)

COMMENTS

Sample Appearance/Odor: _____
Weather Conditions: _____
Turbidity: _____
Other: *Reference Measurement
Depth To Water from L.S. = _____
Levels were taken on _____ @ _____
* Total Depth = 172.95
X DUP of T03S
(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-222492-2

Client Project/Site: Joliet #9 (Quarry) CCR 3Q22

For:

Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Attn: John Niedzwiecki



Authorized for release by:
10/28/2022 1:37:26 PM

Diana Mockler, Project Manager I
(219)252-7570

Diana.Mockler@et.eurofinsus.com

LINKS

Review your project
results through



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Job ID: 500-222492-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-222492-2

Comments

No additional comments.

Receipt

The samples were received on 9/19/2022 2:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.1° C, 0.8° C, 1.4° C, 1.5° C, 1.5° C and 3.0° C.

RAD

Methods 903.0, 9315: Radium 226 Batch 160-583473:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. G20S (500-222492-1), R08S (500-222492-2), (LCS 160-583473/2-A), (MB 160-583473/1-A) and (500-222492-C-1-B DU)

Methods 903.0, 9315: Radium 226 Batch 160-584264

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

G47S (500-222492-3), G48S (500-222492-4), (LCS 160-584264/2-A), (MB 160-584264/1-A), (240-173373-N-4-A), (240-173373-A-4-A MS) and (240-173373-A-4-B MSD)

Method 903.0: Radium-226 batch 584773

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

G46S (500-222492-5), G45S (500-222492-6), G44S (500-222492-7), R32S (500-222492-8), T09S (500-222492-9), T06S (500-222492-10), T05S (500-222492-11), G31S (500-222492-12), T01S (500-222492-13), G30S (500-222492-14), G33S (500-222492-15), T02S (500-222492-16), T08S (500-222492-17), T03S (500-222492-18), DUP (500-222492-19), (LCS 160-584773/2-A), (MB 160-584773/1-A) and (500-222492-D-5-A DU)

Method 904.0: Radium 228 Batch 160-583936:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. T05S (500-222492-11), (LCS 160-583936/2-A), (MB 160-583936/1-A), (480-201919-C-7-A), (480-201919-C-7-B MS) and (480-201919-C-7-C MSD)

Methods 904.0, 9320: Radium-228 batch 583474

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

G20S (500-222492-1), R08S (500-222492-2), (LCS 160-583474/2-A), (MB 160-583474/1-A) and (500-222492-C-1-E DU)

Methods 904.0, 9320: Radium 228 Batch 160-584268:

The method blank (MB) has Ra-228 activity above the MDC and RL. The following associated samples are non-detect for the analyte; therefore, re-analysis is not required. The data have been reported. G47S (500-222492-3) and (240-173373-N-4-B)

Methods 904.0, 9320: Radium 228 Batch 160-584268:

The method blank (MB) has Ra-228 activity above the MDC and RL. The following associated samples exhibit concentrations greater than five (5) times the concentrations observed in the MB; therefore, re-analysis is not required. The data have been reported. (240-173373-A-4-C MS) and (240-173373-A-4-D MSD)

Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Job ID: 500-222492-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Methods 904.0, 9320: Radium 228 Batch 160-584268:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. G47S (500-222492-3), (LCS 160-584268/2-A), (MB 160-584268/1-A), (240-173373-N-4-B), (240-173373-A-4-C MS) and (240-173373-A-4-D MSD)

Method 904.0: Radium 228 Batch 160-584851

The detection goal was not met for the following samples due to the reduced sample volume attributed to the presence of matrix interferences: T01S (500-222492-13) and G33S (500-222492-15). During preparation, the analyst visually noted matrix effects. Analytical results are reported with the detection limit achieved.

Method 904.0: Radium 228 Batch 160-584851

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

G46S (500-222492-5), G45S (500-222492-6), G44S (500-222492-7), R32S (500-222492-8), T09S (500-222492-9), T06S (500-222492-10), G31S (500-222492-12), T01S (500-222492-13), G30S (500-222492-14), G33S (500-222492-15), T02S (500-222492-16), T08S (500-222492-17), T03S (500-222492-18), DUP (500-222492-19), (LCS 160-584851/2-A), (MB 160-584851/1-A) and (500-222492-D-5-B DU)

Methods 904.0, 9320: Radium-226 prep batch 160-586322:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. G48S (500-222492-4), (LCS 160-586322/2-A), (MB 160-586322/1-A), (160-47371-A-1-D) and (160-47371-A-1-F DU)

Methods PrecSep-21, PrecSep_0: Radium-226/228 Prep Batch 160-583473/583474

The following samples were prepared at a reduced aliquot due to Matrix: G20S (500-222492-1), R08S (500-222492-2) and (500-222492-C-1 DU). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Methods PrecSep-21, PrecSep_0: Radium-226/228 Prep Batch 160-583473/583474

Insufficient sample volume was available to perform a sample duplicate for the following samples: G20S (500-222492-1), R08S (500-222492-2) and (500-222492-C-1 DU). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0:

Method PrecSep_0:

Method PrecSep-21:

Method PrecSep-21:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-222492-1	G20S	Water	09/19/22 09:05	09/19/22 14:10
500-222492-2	R08S	Water	09/19/22 13:00	09/19/22 14:10
500-222492-3	G47S	Water	09/22/22 10:35	09/22/22 14:47
500-222492-4	G48S	Water	09/22/22 12:59	09/22/22 14:47
500-222492-5	G46S	Water	09/26/22 09:11	09/26/22 14:25
500-222492-6	G45S	Water	09/26/22 10:31	09/26/22 14:25
500-222492-7	G44S	Water	09/26/22 12:18	09/26/22 14:25
500-222492-8	R32S	Water	09/26/22 13:21	09/26/22 14:25
500-222492-9	T09S	Water	09/27/22 09:08	09/27/22 14:28
500-222492-10	T06S	Water	09/27/22 10:30	09/27/22 14:28
500-222492-11	T05S	Water	09/27/22 11:46	09/27/22 14:28
500-222492-12	G31S	Water	09/27/22 13:31	09/27/22 14:28
500-222492-13	T01S	GW	09/28/22 09:32	09/28/22 15:27
500-222492-14	G30S	GW	09/28/22 12:03	09/28/22 15:27
500-222492-15	G33S	Water	09/28/22 14:03	09/28/22 15:27
500-222492-16	T02S	Water	09/29/22 09:29	09/29/22 14:58
500-222492-17	T08S	Water	09/29/22 11:31	09/29/22 14:58
500-222492-18	T03S	Water	09/29/22 13:37	09/29/22 14:58
500-222492-19	DUP	Water	09/29/22 13:37	09/29/22 14:58



Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: G20S

Lab Sample ID: 500-222492-1

Date Collected: 09/19/22 09:05

Matrix: Water

Date Received: 09/19/22 14:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.80		0.361	0.497	1.00	0.138	pCi/L	09/26/22 09:56	10/19/22 07:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					09/26/22 09:56	10/19/22 07:57	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.99		0.667	0.761	1.00	0.529	pCi/L	09/26/22 10:02	10/12/22 16:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					09/26/22 10:02	10/12/22 16:41	1
Y Carrier	75.9		40 - 110					09/26/22 10:02	10/12/22 16:41	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	7.79		0.758	0.909	5.00	0.529	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: R08S

Lab Sample ID: 500-222492-2

Date Collected: 09/19/22 13:00

Matrix: Water

Date Received: 09/19/22 14:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.631		0.155	0.165	1.00	0.117	pCi/L	09/26/22 09:56	10/19/22 07:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					09/26/22 09:56	10/19/22 07:57	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.00		0.398	0.409	1.00	0.506	pCi/L	09/26/22 10:02	10/12/22 16:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					09/26/22 10:02	10/12/22 16:42	1
Y Carrier	81.5		40 - 110					09/26/22 10:02	10/12/22 16:42	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.63		0.427	0.441	5.00	0.506	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: G47S

Lab Sample ID: 500-222492-3

Date Collected: 09/22/22 10:35

Matrix: Water

Date Received: 09/22/22 14:47

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.464		0.131	0.138	1.00	0.118	pCi/L	09/30/22 15:12	10/24/22 15:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					09/30/22 15:12	10/24/22 15:14	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.439	U	0.371	0.373	1.00	0.582	pCi/L	09/30/22 15:12	10/14/22 15:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					09/30/22 15:12	10/14/22 15:02	1
Y Carrier	84.1		40 - 110					09/30/22 15:12	10/14/22 15:02	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.903		0.393	0.398	5.00	0.582	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: G48S

Lab Sample ID: 500-222492-4

Date Collected: 09/22/22 12:59

Matrix: Water

Date Received: 09/22/22 14:47

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.642		0.149	0.160	1.00	0.122	pCi/L	09/30/22 15:12	10/24/22 15:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					09/30/22 15:12	10/24/22 15:14	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.87		0.598	0.623	1.00	0.707	pCi/L	10/18/22 09:52	10/21/22 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					10/18/22 09:52	10/21/22 12:11	1
Y Carrier	84.9		40 - 110					10/18/22 09:52	10/21/22 12:11	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.51		0.616	0.643	5.00	0.707	pCi/L		10/28/22 13:13	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: G46S

Lab Sample ID: 500-222492-5

Date Collected: 09/26/22 09:11

Matrix: Water

Date Received: 09/26/22 14:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.48		0.229	0.265	1.00	0.124	pCi/L	10/06/22 09:06	10/28/22 07:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					10/06/22 09:06	10/28/22 07:15	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.11		0.404	0.417	1.00	0.482	pCi/L	10/06/22 09:45	10/20/22 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					10/06/22 09:45	10/20/22 11:48	1
Y Carrier	84.1		40 - 110					10/06/22 09:45	10/20/22 11:48	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.59		0.464	0.494	5.00	0.482	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: G45S

Lab Sample ID: 500-222492-6

Date Collected: 09/26/22 10:31

Matrix: Water

Date Received: 09/26/22 14:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.48		0.220	0.257	1.00	0.101	pCi/L	10/06/22 09:06	10/28/22 07:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					10/06/22 09:06	10/28/22 07:15	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.15		0.420	0.434	1.00	0.531	pCi/L	10/06/22 09:45	10/20/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					10/06/22 09:45	10/20/22 11:49	1
Y Carrier	82.2		40 - 110					10/06/22 09:45	10/20/22 11:49	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.63		0.474	0.504	5.00	0.531	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: G44S

Lab Sample ID: 500-222492-7

Date Collected: 09/26/22 12:18

Matrix: Water

Date Received: 09/26/22 14:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.669		0.156	0.167	1.00	0.122	pCi/L	10/06/22 09:06	10/28/22 07:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					10/06/22 09:06	10/28/22 07:15	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.931		0.381	0.391	1.00	0.497	pCi/L	10/06/22 09:45	10/20/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					10/06/22 09:45	10/20/22 11:49	1
Y Carrier	83.4		40 - 110					10/06/22 09:45	10/20/22 11:49	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.60		0.412	0.425	5.00	0.497	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: R32S

Lab Sample ID: 500-222492-8

Date Collected: 09/26/22 13:21

Matrix: Water

Date Received: 09/26/22 14:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.30		0.221	0.250	1.00	0.160	pCi/L	10/06/22 09:06	10/28/22 07:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					10/06/22 09:06	10/28/22 07:15	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.969		0.394	0.404	1.00	0.509	pCi/L	10/06/22 09:45	10/20/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					10/06/22 09:45	10/20/22 11:49	1
Y Carrier	84.1		40 - 110					10/06/22 09:45	10/20/22 11:49	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.27		0.452	0.475	5.00	0.509	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: T09S

Lab Sample ID: 500-222492-9

Date Collected: 09/27/22 09:08

Matrix: Water

Date Received: 09/27/22 14:28

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.88		0.267	0.316	1.00	0.162	pCi/L	10/06/22 09:06	10/28/22 07:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					10/06/22 09:06	10/28/22 07:16	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.12		0.512	0.548	1.00	0.504	pCi/L	10/06/22 09:45	10/20/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					10/06/22 09:45	10/20/22 11:49	1
Y Carrier	78.5		40 - 110					10/06/22 09:45	10/20/22 11:49	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.99		0.577	0.633	5.00	0.504	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: T06S

Lab Sample ID: 500-222492-10

Date Collected: 09/27/22 10:30

Matrix: Water

Date Received: 09/27/22 14:28

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.02		0.185	0.207	1.00	0.106	pCi/L	10/06/22 09:06	10/28/22 08:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					10/06/22 09:06	10/28/22 08:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.517		0.325	0.328	1.00	0.472	pCi/L	10/06/22 09:45	10/20/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					10/06/22 09:45	10/20/22 11:49	1
Y Carrier	81.9		40 - 110					10/06/22 09:45	10/20/22 11:49	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.54		0.374	0.388	5.00	0.472	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: T05S

Lab Sample ID: 500-222492-11

Date Collected: 09/27/22 11:46

Matrix: Water

Date Received: 09/27/22 14:28

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.262		0.109	0.112	1.00	0.113	pCi/L	10/06/22 09:06	10/28/22 08:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.7		40 - 110					10/06/22 09:06	10/28/22 08:57	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.479	0.489	1.00	0.660	pCi/L	09/28/22 13:39	10/03/22 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.5		40 - 110					09/28/22 13:39	10/03/22 12:39	1
Y Carrier	87.9		40 - 110					09/28/22 13:39	10/03/22 12:39	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.29		0.491	0.502	5.00	0.660	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: G31S

Lab Sample ID: 500-222492-12

Date Collected: 09/27/22 13:31

Matrix: Water

Date Received: 09/27/22 14:28

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.13		0.278	0.338	1.00	0.158	pCi/L	10/06/22 09:06	10/28/22 08:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					10/06/22 09:06	10/28/22 08:57	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.986		0.393	0.403	1.00	0.486	pCi/L	10/06/22 09:45	10/20/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					10/06/22 09:45	10/20/22 11:49	1
Y Carrier	81.5		40 - 110					10/06/22 09:45	10/20/22 11:49	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.12		0.481	0.526	5.00	0.486	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: T01S

Lab Sample ID: 500-222492-13

Date Collected: 09/28/22 09:32

Matrix: GW

Date Received: 09/28/22 15:27

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.545		0.243	0.248	1.00	0.293	pCi/L	10/06/22 09:06	10/28/22 08:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	49.8		40 - 110					10/06/22 09:06	10/28/22 08:57	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.26	G	0.788	0.797	1.00	1.15	pCi/L	10/06/22 09:45	10/20/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	49.8		40 - 110					10/06/22 09:45	10/20/22 11:49	1
Y Carrier	84.1		40 - 110					10/06/22 09:45	10/20/22 11:49	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.81		0.825	0.835	5.00	1.15	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: G30S

Lab Sample ID: 500-222492-14

Date Collected: 09/28/22 12:03

Matrix: GW

Date Received: 09/28/22 15:27

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.935		0.183	0.202	1.00	0.0985	pCi/L	10/06/22 09:06	10/28/22 08:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.1		40 - 110					10/06/22 09:06	10/28/22 08:58	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.50		0.499	0.517	1.00	0.595	pCi/L	10/06/22 09:45	10/20/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.1		40 - 110					10/06/22 09:45	10/20/22 11:52	1
Y Carrier	81.1		40 - 110					10/06/22 09:45	10/20/22 11:52	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.43		0.531	0.555	5.00	0.595	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: G33S

Lab Sample ID: 500-222492-15

Date Collected: 09/28/22 14:03

Matrix: Water

Date Received: 09/28/22 15:27

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.627		0.227	0.233	1.00	0.222	pCi/L	10/06/22 09:06	10/28/22 08:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.0		40 - 110					10/06/22 09:06	10/28/22 08:58	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.89	G	0.951	0.988	1.00	1.12	pCi/L	10/06/22 09:45	10/20/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.0		40 - 110					10/06/22 09:45	10/20/22 11:52	1
Y Carrier	83.0		40 - 110					10/06/22 09:45	10/20/22 11:52	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.52		0.978	1.02	5.00	1.12	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: T02S

Lab Sample ID: 500-222492-16

Date Collected: 09/29/22 09:29

Matrix: Water

Date Received: 09/29/22 14:58

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.723		0.204	0.214	1.00	0.172	pCi/L	10/06/22 09:06	10/28/22 08:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.3		40 - 110					10/06/22 09:06	10/28/22 08:58	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.64		0.722	0.761	1.00	0.766	pCi/L	10/06/22 09:45	10/20/22 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.3		40 - 110					10/06/22 09:45	10/20/22 11:53	1
Y Carrier	84.5		40 - 110					10/06/22 09:45	10/20/22 11:53	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.36		0.750	0.791	5.00	0.766	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: T08S

Lab Sample ID: 500-222492-17

Date Collected: 09/29/22 11:31

Matrix: Water

Date Received: 09/29/22 14:58

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.310		0.108	0.112	1.00	0.0977	pCi/L	10/06/22 09:06	10/28/22 08:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					10/06/22 09:06	10/28/22 08:59	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.07		0.426	0.437	1.00	0.560	pCi/L	10/06/22 09:45	10/20/22 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					10/06/22 09:45	10/20/22 11:53	1
Y Carrier	84.5		40 - 110					10/06/22 09:45	10/20/22 11:53	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.38		0.439	0.451	5.00	0.560	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: T03S

Lab Sample ID: 500-222492-18

Date Collected: 09/29/22 13:37

Matrix: Water

Date Received: 09/29/22 14:58

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.889		0.171	0.189	1.00	0.106	pCi/L	10/06/22 09:06	10/28/22 08:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110					10/06/22 09:06	10/28/22 08:59	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.23		0.452	0.466	1.00	0.601	pCi/L	10/06/22 09:45	10/20/22 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110					10/06/22 09:45	10/20/22 11:53	1
Y Carrier	87.9		40 - 110					10/06/22 09:45	10/20/22 11:53	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.12		0.483	0.503	5.00	0.601	pCi/L		10/28/22 13:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: DUP

Lab Sample ID: 500-222492-19

Date Collected: 09/29/22 13:37

Matrix: Water

Date Received: 09/29/22 14:58

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.852		0.167	0.184	1.00	0.0857	pCi/L	10/06/22 09:06	10/28/22 08:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					10/06/22 09:06	10/28/22 08:59	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.909		0.397	0.406	1.00	0.537	pCi/L	10/06/22 09:45	10/20/22 11:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					10/06/22 09:45	10/20/22 11:53	1
Y Carrier	84.1		40 - 110					10/06/22 09:45	10/20/22 11:53	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.76		0.431	0.446	5.00	0.537	pCi/L		10/28/22 13:10	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Rad

Prep Batch: 583473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-1	G20S	Total/NA	Water	PrecSep-21	
500-222492-2	R08S	Total/NA	Water	PrecSep-21	
MB 160-583473/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-583473/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-222492-1 DU	G20S	Total/NA	Water	PrecSep-21	

Prep Batch: 583474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-1	G20S	Total/NA	Water	PrecSep_0	
500-222492-2	R08S	Total/NA	Water	PrecSep_0	
MB 160-583474/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-583474/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-222492-1 DU	G20S	Total/NA	Water	PrecSep_0	

Prep Batch: 583936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-11	T05S	Total/NA	Water	PrecSep_0	
MB 160-583936/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-583936/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 584264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-3	G47S	Total/NA	Water	PrecSep-21	
500-222492-4	G48S	Total/NA	Water	PrecSep-21	
MB 160-584264/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-584264/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 584268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-3	G47S	Total/NA	Water	PrecSep_0	
MB 160-584268/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-584268/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 584773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-5	G46S	Total/NA	Water	PrecSep-21	
500-222492-6	G45S	Total/NA	Water	PrecSep-21	
500-222492-7	G44S	Total/NA	Water	PrecSep-21	
500-222492-8	R32S	Total/NA	Water	PrecSep-21	
500-222492-9	T09S	Total/NA	Water	PrecSep-21	
500-222492-10	T06S	Total/NA	Water	PrecSep-21	
500-222492-11	T05S	Total/NA	Water	PrecSep-21	
500-222492-12	G31S	Total/NA	Water	PrecSep-21	
500-222492-13	T01S	Total/NA	GW	PrecSep-21	
500-222492-14	G30S	Total/NA	GW	PrecSep-21	
500-222492-15	G33S	Total/NA	Water	PrecSep-21	
500-222492-16	T02S	Total/NA	Water	PrecSep-21	
500-222492-17	T08S	Total/NA	Water	PrecSep-21	
500-222492-18	T03S	Total/NA	Water	PrecSep-21	
500-222492-19	DUP	Total/NA	Water	PrecSep-21	
MB 160-584773/1-A	Method Blank	Total/NA	Water	PrecSep-21	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Rad (Continued)

Prep Batch: 584773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-584773/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-222492-5 DU	G46S	Total/NA	Water	PrecSep-21	

Prep Batch: 584851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-5	G46S	Total/NA	Water	PrecSep_0	
500-222492-6	G45S	Total/NA	Water	PrecSep_0	
500-222492-7	G44S	Total/NA	Water	PrecSep_0	
500-222492-8	R32S	Total/NA	Water	PrecSep_0	
500-222492-9	T09S	Total/NA	Water	PrecSep_0	
500-222492-10	T06S	Total/NA	Water	PrecSep_0	
500-222492-12	G31S	Total/NA	Water	PrecSep_0	
500-222492-13	T01S	Total/NA	GW	PrecSep_0	
500-222492-14	G30S	Total/NA	GW	PrecSep_0	
500-222492-15	G33S	Total/NA	Water	PrecSep_0	
500-222492-16	T02S	Total/NA	Water	PrecSep_0	
500-222492-17	T08S	Total/NA	Water	PrecSep_0	
500-222492-18	T03S	Total/NA	Water	PrecSep_0	
500-222492-19	DUP	Total/NA	Water	PrecSep_0	
MB 160-584851/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-584851/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-222492-5 DU	G46S	Total/NA	Water	PrecSep_0	

Prep Batch: 586322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-222492-4	G48S	Total/NA	Water	PrecSep_0	
MB 160-586322/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-586322/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-583473/1-A
Matrix: Water
Analysis Batch: 586476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583473

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.05716	U	0.0669	0.0671	1.00	0.108	pCi/L	09/26/22 09:56	10/19/22 07:47	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					09/26/22 09:56	10/19/22 07:47	1
	88.2									

Lab Sample ID: LCS 160-583473/2-A
Matrix: Water
Analysis Batch: 586476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583473

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.20		1.09	1.00	0.125	pCi/L	90	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	92.1								

Lab Sample ID: 500-222492-1 DU
Matrix: Water
Analysis Batch: 586479

Client Sample ID: G20S
Prep Type: Total/NA
Prep Batch: 583473

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	3.80		3.192		0.441	1.00	0.107	pCi/L	0.65	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	88.9									

Lab Sample ID: MB 160-584264/1-A
Matrix: Water
Analysis Batch: 587140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584264

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01114	U	0.0655	0.0655	1.00	0.133	pCi/L	09/30/22 15:12	10/24/22 15:10	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					09/30/22 15:12	10/24/22 15:10	1
	96.3									

Lab Sample ID: LCS 160-584264/2-A
Matrix: Water
Analysis Batch: 587140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584264

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.590		1.00	1.00	0.116	pCi/L	85	75 - 125

Euromins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-584264/2-A
Matrix: Water
Analysis Batch: 587140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584264

		LCS	LCS		
Carrier	%Yield	Qualifier	Limits		
Ba Carrier	98.8		40 - 110		

Lab Sample ID: MB 160-584773/1-A
Matrix: Water
Analysis Batch: 587628

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584773

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-226	0.06119	U	0.0695	0.0697	1.00	0.112	pCi/L	10/06/22 09:06	10/28/22 07:15	1

		MB	MB			Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits					
Ba Carrier	93.9		40 - 110			10/06/22 09:06	10/28/22 07:15	1

Lab Sample ID: LCS 160-584773/2-A
Matrix: Water
Analysis Batch: 587628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584773

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-226	11.3	10.53		1.12	1.00	0.154	pCi/L	93	75 - 125	

		LCS	LCS		
Carrier	%Yield	Qualifier	Limits		
Ba Carrier	98.0		40 - 110		

Lab Sample ID: 500-222492-5 DU
Matrix: Water
Analysis Batch: 587628

Client Sample ID: G46S
Prep Type: Total/NA
Prep Batch: 584773

Analyte	Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-226	1.48		1.523		0.277	1.00	0.135	pCi/L	0.08	1

		DU	DU		
Carrier	%Yield	Qualifier	Limits		
Ba Carrier	89.0		40 - 110		

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-583474/1-A
Matrix: Water
Analysis Batch: 585725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583474

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.08994	U	0.259	0.259	1.00	0.466	pCi/L	09/26/22 10:02	10/12/22 16:40	1

		MB	MB			Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits					
Ba Carrier	88.2		40 - 110			09/26/22 10:02	10/12/22 16:40	1

Euofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-583474/1-A
Matrix: Water
Analysis Batch: 585725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583474

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	82.6		40 - 110	09/26/22 10:02	10/12/22 16:40	1

Lab Sample ID: LCS 160-583474/2-A
Matrix: Water
Analysis Batch: 585725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583474

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.20	9.181		1.26	1.00	0.504	pCi/L	112	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	92.1		40 - 110
Y Carrier	79.3		40 - 110

Lab Sample ID: 500-222492-1 DU
Matrix: Water
Analysis Batch: 585550

Client Sample ID: G20S
Prep Type: Total/NA
Prep Batch: 583474

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	3.99		4.175		0.775	1.00	0.477	pCi/L	0.12	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	88.9		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: MB 160-583936/1-A
Matrix: Water
Analysis Batch: 584284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583936

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.8800		0.340	0.349	1.00	0.408	pCi/L	09/28/22 13:39	10/03/22 12:38	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110	09/28/22 13:39	10/03/22 12:38	1
Y Carrier	88.6		40 - 110	09/28/22 13:39	10/03/22 12:38	1

Lab Sample ID: LCS 160-583936/2-A
Matrix: Water
Analysis Batch: 584284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583936

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.23	9.654		1.28	1.00	0.457	pCi/L	117	75 - 125

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-583936/2-A
Matrix: Water
Analysis Batch: 584284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583936

		LCS	LCS
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.9		40 - 110
Y Carrier	86.0		40 - 110

Lab Sample ID: MB 160-584268/1-A
Matrix: Water
Analysis Batch: 585945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584268

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	1.403		0.426	0.445	1.00	0.477	pCi/L	09/30/22 15:12	10/14/22 14:48	1

		MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits				
Ba Carrier	96.3		40 - 110	09/30/22 15:12	10/14/22 14:48	1	
Y Carrier	82.6		40 - 110	09/30/22 15:12	10/14/22 14:48	1	

Lab Sample ID: LCS 160-584268/2-A
Matrix: Water
Analysis Batch: 585945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584268

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.20	9.432		1.26	1.00	0.462	pCi/L	115	75 - 125

		LCS	LCS
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.8		40 - 110
Y Carrier	83.0		40 - 110

Lab Sample ID: MB 160-584851/1-A
Matrix: Water
Analysis Batch: 586658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584851

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.1158	U	0.254	0.254	1.00	0.508	pCi/L	10/06/22 09:45	10/20/22 11:48	1

		MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits				
Ba Carrier	93.9		40 - 110	10/06/22 09:45	10/20/22 11:48	1	
Y Carrier	81.5		40 - 110	10/06/22 09:45	10/20/22 11:48	1	

Lab Sample ID: LCS 160-584851/2-A
Matrix: Water
Analysis Batch: 586658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584851

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.52	8.935		1.19	1.00	0.400	pCi/L	105	75 - 125

Euromins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-584851/2-A
Matrix: Water
Analysis Batch: 586658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584851

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	98.0		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: 500-222492-5 DU
Matrix: Water
Analysis Batch: 586658

Client Sample ID: G46S
Prep Type: Total/NA
Prep Batch: 584851

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER	Limit
Radium-228	1.11		1.669		0.494	1.00	0.516	pCi/L	0.62		1

Carrier	DU DU		Limits
	%Yield	Qualifier	
Ba Carrier	89.0		40 - 110
Y Carrier	82.2		40 - 110

Lab Sample ID: MB 160-586322/1-A
Matrix: Water
Analysis Batch: 586805

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586322

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	92.6		40 - 110	10/18/22 09:52	10/21/22 12:09	1
Y Carrier	86.0		40 - 110	10/18/22 09:52	10/21/22 12:09	1

Lab Sample ID: LCS 160-586322/2-A
Matrix: Water
Analysis Batch: 586805

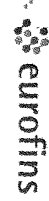
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586322

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	93.9		40 - 110
Y Carrier	81.9		40 - 110

Chain of Custody Record

538584




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact Company Name: <u>Midwest Generation FME LLC</u> Address: _____ City/State/Zip: <u>Joliet, IL</u> Phone: _____ Fax: _____ Project Name: <u>Project # 9 CCK</u> Site: <u>3022 Gas + Turbid.H</u> P O #: _____		Project Manager : <u>Diana Mcker</u> Tel/Email: _____ Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below: _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact Lab Contact: _____ Date: _____ Carrier: _____		COC No. _____ of _____ COCs Sampler: _____ For Lab Use Only: _____ Walk-in Client: _____ Lab Sampling: _____ Job / SDG No: <u>500-222492</u> Sample Specific Notes: _____	
Sample Identification Sample ID: <u>G205</u> <u>K085</u>		Sample Date: <u>09/19/22</u>	Sample Time: <u>0905</u> <u>1300</u>	Sample Type (G-Comp G-Grab): _____	Matrix: <u>W</u> <u>S</u>	# of Cont.: <u>5</u> <u>5</u>	
Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <u>Radium 226</u> <u>Radium 228</u> <u>Combined 226/228</u> <u>Metals 14 elements + Hg</u> <u>TDS, A, Cl, SO4</u>		500-222492 COC 					
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____ Possible Hazard Identification: _____ Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample _____ Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>							
Special Instructions/QC Requirements & Comments: _____ Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) _____ Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months <input type="checkbox"/>							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Relinquished by: <u>OL</u>		Custody Seal No: _____ Company: <u>EETH</u>		Date/Time: <u>09/19/22</u> Date/Time: _____		Received by: <u>1410</u> Received by: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <u>AMIN KROTH</u> Company: <u>EETH</u> Date/Time: <u>09/19/22 1410</u>	

Chain of Custody Record

524018



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

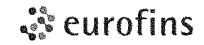
Client Contact		Project Manager: <i>Diana Mueller</i>			Site Contact:			Date		COC No		
Company Name: <i>Midwest Generation EME LLC</i>		Tel/Email:			Lab Contact:			Carrier:		_____ of _____ COCs		
Address		Analysis Turnaround Time										
City/State/Zip: <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS										
Phone		TAT if different from Below _____										
Fax		<input type="checkbox"/> 2 weeks										
Project Name: <i>Joliet #9 CCR</i>		<input type="checkbox"/> 1 week										
Site: <i>3022 GW + Turbidity</i>		<input type="checkbox"/> 2 days										
P O #		<input type="checkbox"/> 1 day										
						Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		500-222492 COC		
						Radium 226		Radium 228		Combined 226/228		
						Metals 14 elements + Hg		TDS, F, Cl, SO4				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.						Sample Specific Notes
<i>G465</i>		<i>09/26/22</i>	<i>0911</i>	<i>W</i>	<i>5</i>	<i>5</i>						
<i>G455</i>		<i>09/26/22</i>	<i>1031</i>	<i>W</i>	<i>5</i>	<i>5</i>						
<i>G445</i>		<i>09/26/22</i>	<i>1218</i>	<i>W</i>	<i>5</i>	<i>5</i>						
<i>R320</i>		<i>09/26/22</i>	<i>1321</i>	<i>W</i>	<i>5</i>	<i>5</i>						
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other												
Possible Hazard Identification:						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months						
Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>												
Special Instructions/QC Requirements & Comments:												
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No		Cooler Temp (°C) Obs'd <i>4.3</i> Corr'd. <i>3.0</i>		Therm ID No				
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/26/22 1425</i>		Received by		Company		Date/Time		
Relinquished by		Company		Date/Time		Received by		Company		Date/Time		
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>9/26/22 1425</i>		

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Chain of Custody Record

539036




Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact		Date	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, F, Cl, SO4</i>		 500-222492 COC	
City/State/Zip <i>Soliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS					
Phone		TAT if different from Below _____					
Fax		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day					
Project Name <i>Soliet #9 CCR</i>							
Site <i>3Q22 GS + Turbidity</i>						COC No _____ of _____ COCs	
P O # _____						Sampler _____ For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-222492</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes
9 <i>T09S</i>		<i>09/27/22</i>	<i>0908</i>		<i>W</i>	<i>5</i>	
10 <i>T06S</i>		<i>09/27/22</i>	<i>1030</i>		<i>W</i>	<i>5</i>	
11 <i>T05S</i>		<i>09/27/22</i>	<i>1146</i>		<i>W</i>	<i>5</i>	
12 <i>G31S</i>		<i>09/27/22</i>	<i>1331</i>		<i>W</i>	<i>5</i>	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments:							
2.1 + 0.8							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____	
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/27/22 1428</i>		Received by _____ Company _____ Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received by _____ Company _____ Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>Stephanie Hammond</i> Company <i>EETA</i> Date/Time <i>09/27/22 1428</i>	

Chain of Custody Record 524019



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

** 500,222492 COC

TAL-8210

Client Contact		Project Manager <i>Diana Muckler</i>		Site Contact		Date	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FI, CI, SO4</i>		COC # _____ of _____ COCs Sampler: For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-222492</i>	
City/State/Zip <i>Solict, FL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____					
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day					
Fax							
Project Name <i>Toliet #9 CCR</i>							
Site <i>3Q22 GW + Turbidity</i>							
P O #							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes
<i>13</i>	<i>T015</i>	<i>09/28/22</i>	<i>0932</i>		<i>W</i>	<i>5</i>	
<i>14</i>	<i>G30S</i>	<i>09/28/22</i>	<i>1203</i>		<i>W</i>	<i>5</i>	
<i>15</i>	<i>G33S</i>	<i>09/28/22</i>	<i>1403</i>		<i>W</i>	<i>5</i>	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>1.4</i> Corr'd <i>0.1</i>		Therm ID No	
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/28/22 1527</i>		Received by	
Relinquished by		Company		Date/Time		Received by	
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>	
						Company <i>EETA</i> Date/Time <i>9/28/22 1527</i>	

Chain of Custody Record

524020




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact Company Name <i>Midwest Generation EPC U</i> Address _____ City/State/Zip <i>Joliet, IL</i> Phone _____ Fax _____ Project Name <i>Joliet #9 CCR</i> Site <i>3Q22 GW + Turbidity</i> P O # _____		Project Manager <i>Diana Mockler</i> Tel/Email: _____		Site Contact: _____ Lab Contact: _____		Date _____ Carrier _____		COC No _____ _____ of _____ COCs									
		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + 19</i> <i>TDS, FI, CI, SO4</i>		 500-222492 COC		Sampler _____ For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>		Job / SDG No <i>500-222492</i>							
Sample Identification		Sample Date						Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.		Sample Specific Notes	
<i>16</i> <i>17</i> <i>18</i> <i>19</i> T025		<i>09/29/22</i>						<i>0929</i>		<i>C</i>		<i>W</i>		<i>5</i>		_____	
T085		<i>09/29/22</i>						<i>1131</i>		<i>W</i>		<i>W</i>		<i>5</i>		_____	
T035		<i>09/29/22</i>						<i>1337</i>		<i>W</i>		<i>W</i>		<i>5</i>		_____	
DYP of T035		<i>09/29/22</i>		<i>1337</i>		<i>W</i>		<i>W</i>		<i>5</i>		_____					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____						Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments: _____																	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No _____			Cooler Temp (°C) Obs'd <i>19</i> Corr'd <i>19</i>			Therm ID No _____								
Relinquished by <i>ETD</i>			Company <i>ETD</i>			Date/Time <i>09/29/22 1458</i>			Received by _____			Company _____			Date/Time _____		
Relinquished by _____			Company _____			Date/Time _____			Received by _____			Company _____			Date/Time _____		
Relinquished by _____			Company _____			Date/Time _____			Received in Laboratory by <i>John Smith</i>			Company <i>ETD</i>			Date/Time <i>9/29/22 1458</i>		

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-165434-1	
Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc.		Phone: E-Mail: Diana.Mockler@et.eurofins.com		Page: Page 1 of 1	
Address: 13715 Rider Trail North, Earth City, MO, 63045		State of Origin: Illinois		Job #: 500-222492-1	
Phone: 314-298-8566 (Tel) 314-298-8757 (Fax)		Accreditations Required (See note): NELAP - Illinois		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 P - Na2O4S D - Nitric Acid Q - Na2SO3 E - NaHSO4 R - Na2S2O3 F - MeOH S - H2SO4 G - Amchlor T - TSP Dodecahydrate H - Ascorbic Acid U - Acetone I - Ice J - DI Water V - MCAA W - pH 4-5 K - EDTA L - EDA Y - Trizma Z - other (specify) Other:	
Due Date Requested: 10/10/2022		Analysis Requested		Total Number of Containers	
TAT Requested (days):		Perform MS/MSD (Yes or No)		3	
PO #:		Field Filtered Sample (Yes or No)		3	
WO #:		903.0/PreSep_21 Standard Target List		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Project #: 50011504		904.0/PreSep_0 Standard Target List		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
SOW#:		R226R228_GFC		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Date		Special Instructions/Note:	
G-47S (500-222492-3)		9/22/22		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
G-48S (500-222492-4)		9/22/22		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Sample Type (C=comp, G=grab)		Sample Time		Total Number of Containers	
Water		10:35 Central		3	
Water		12:59 Central		3	
Matrix (W=water, S=solid, O=organic, BT=tissue, A=air)		Preservation Code:		Special Instructions/Note:	
Water		Water		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Water		Water		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *[Signature]* Date: 9/23/22 09:25 Company: *[Signature]* Company: _____

Relinquished by: *[Signature]* Date: SEP 26 2022 09:07 Company: *[Signature]* Company: _____

Relinquished by: _____ Date: _____ Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 A Yes A No

Cooler Temperature(s) °C and Other Remarks: Autumn R. Johnson



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-222492-2

Login Number: 222492

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5,1.5,3.0,0.8,0.1,1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-222492-2

Login Number: 222492

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 09/20/22 01:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-222492-2

Login Number: 222492

List Number: 3

Creator: Booker, Autumn R

List Source: Eurofins St. Louis

List Creation: 09/26/22 12:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-222492-2

Login Number: 222492

List Number: 4

Creator: Booker, Autumn R

List Source: Eurofins St. Louis

List Creation: 09/28/22 10:33 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-222492-2

Login Number: 222492

List Number: 5

Creator: Booker, Autumn R

List Source: Eurofins St. Louis

List Creation: 09/30/22 11:12 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: G20S

Date Collected: 09/19/22 09:05

Date Received: 09/19/22 14:10

Lab Sample ID: 500-222492-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			583473	ASG	EET SL	09/26/22 09:56
Total/NA	Analysis	903.0		1	586479	CLP	EET SL	10/19/22 07:57
Total/NA	Prep	PrecSep_0			583474	ASG	EET SL	09/26/22 10:02
Total/NA	Analysis	904.0		1	585550	FLC	EET SL	10/12/22 16:41
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: R08S

Date Collected: 09/19/22 13:00

Date Received: 09/19/22 14:10

Lab Sample ID: 500-222492-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			583473	ASG	EET SL	09/26/22 09:56
Total/NA	Analysis	903.0		1	586479	CLP	EET SL	10/19/22 07:57
Total/NA	Prep	PrecSep_0			583474	ASG	EET SL	09/26/22 10:02
Total/NA	Analysis	904.0		1	585550	FLC	EET SL	10/12/22 16:42
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: G47S

Date Collected: 09/22/22 10:35

Date Received: 09/22/22 14:47

Lab Sample ID: 500-222492-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584264	MLK	EET SL	09/30/22 15:12
Total/NA	Analysis	903.0		1	587141	CLP	EET SL	10/24/22 15:14
Total/NA	Prep	PrecSep_0			584268	MLK	EET SL	09/30/22 15:12
Total/NA	Analysis	904.0		1	585928	JCB	EET SL	10/14/22 15:02
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: G48S

Date Collected: 09/22/22 12:59

Date Received: 09/22/22 14:47

Lab Sample ID: 500-222492-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584264	MLK	EET SL	09/30/22 15:12
Total/NA	Analysis	903.0		1	587141	CLP	EET SL	10/24/22 15:14
Total/NA	Prep	PrecSep_0			586322	BMP	EET SL	10/18/22 09:52
Total/NA	Analysis	904.0		1	586805	EMH	EET SL	10/21/22 12:11
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:13

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: G46S

Date Collected: 09/26/22 09:11

Date Received: 09/26/22 14:25

Lab Sample ID: 500-222492-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587628	FLC	EET SL	10/28/22 07:15
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586658	CLP	EET SL	10/20/22 11:48
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: G45S

Date Collected: 09/26/22 10:31

Date Received: 09/26/22 14:25

Lab Sample ID: 500-222492-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587628	FLC	EET SL	10/28/22 07:15
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586658	CLP	EET SL	10/20/22 11:49
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: G44S

Date Collected: 09/26/22 12:18

Date Received: 09/26/22 14:25

Lab Sample ID: 500-222492-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587628	FLC	EET SL	10/28/22 07:15
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586658	CLP	EET SL	10/20/22 11:49
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: R32S

Date Collected: 09/26/22 13:21

Date Received: 09/26/22 14:25

Lab Sample ID: 500-222492-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587628	FLC	EET SL	10/28/22 07:15
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586658	CLP	EET SL	10/20/22 11:49
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: T09S

Lab Sample ID: 500-222492-9

Date Collected: 09/27/22 09:08

Matrix: Water

Date Received: 09/27/22 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587628	FLC	EET SL	10/28/22 07:16
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586658	CLP	EET SL	10/20/22 11:49
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: T06S

Lab Sample ID: 500-222492-10

Date Collected: 09/27/22 10:30

Matrix: Water

Date Received: 09/27/22 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587626	FLC	EET SL	10/28/22 08:56
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586658	CLP	EET SL	10/20/22 11:49
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: T05S

Lab Sample ID: 500-222492-11

Date Collected: 09/27/22 11:46

Matrix: Water

Date Received: 09/27/22 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587626	FLC	EET SL	10/28/22 08:57
Total/NA	Prep	PrecSep_0			583936	MLK	EET SL	09/28/22 13:39
Total/NA	Analysis	904.0		1	584284	CLP	EET SL	10/03/22 12:39
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: G31S

Lab Sample ID: 500-222492-12

Date Collected: 09/27/22 13:31

Matrix: Water

Date Received: 09/27/22 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587626	FLC	EET SL	10/28/22 08:57
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586658	CLP	EET SL	10/20/22 11:49
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: T01S
Date Collected: 09/28/22 09:32
Date Received: 09/28/22 15:27

Lab Sample ID: 500-222492-13
Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587626	FLC	EET SL	10/28/22 08:57
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586658	CLP	EET SL	10/20/22 11:49
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: G30S
Date Collected: 09/28/22 12:03
Date Received: 09/28/22 15:27

Lab Sample ID: 500-222492-14
Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587626	FLC	EET SL	10/28/22 08:58
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586614	CLP	EET SL	10/20/22 11:52
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: G33S
Date Collected: 09/28/22 14:03
Date Received: 09/28/22 15:27

Lab Sample ID: 500-222492-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587626	FLC	EET SL	10/28/22 08:58
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586614	CLP	EET SL	10/20/22 11:52
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: T02S
Date Collected: 09/29/22 09:29
Date Received: 09/29/22 14:58

Lab Sample ID: 500-222492-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587626	FLC	EET SL	10/28/22 08:58
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586614	CLP	EET SL	10/20/22 11:53
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Client Sample ID: T08S

Lab Sample ID: 500-222492-17

Date Collected: 09/29/22 11:31

Matrix: Water

Date Received: 09/29/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587626	FLC	EET SL	10/28/22 08:59
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586614	CLP	EET SL	10/20/22 11:53
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: T03S

Lab Sample ID: 500-222492-18

Date Collected: 09/29/22 13:37

Matrix: Water

Date Received: 09/29/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587626	FLC	EET SL	10/28/22 08:59
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586614	CLP	EET SL	10/20/22 11:53
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Client Sample ID: DUP

Lab Sample ID: 500-222492-19

Date Collected: 09/29/22 13:37

Matrix: Water

Date Received: 09/29/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			584773	BMP	EET SL	10/06/22 09:06
Total/NA	Analysis	903.0		1	587626	FLC	EET SL	10/28/22 08:59
Total/NA	Prep	PrecSep_0			584851	BMP	EET SL	10/06/22 09:45
Total/NA	Analysis	904.0		1	586614	CLP	EET SL	10/20/22 11:53
Total/NA	Analysis	Ra226_Ra228		1	587668	EMH	EET SL	10/28/22 13:10

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22

Job ID: 500-222492-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: GW

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-222492-13	T01S	49.8	
500-222492-14	G30S	80.1	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-222492-1	G20S	93.9	
500-222492-1 DU	G20S	88.9	
500-222492-2	R08S	91.2	
500-222492-3	G47S	91.6	
500-222492-4	G48S	93.1	
500-222492-5	G46S	84.3	
500-222492-5 DU	G46S	89.0	
500-222492-6	G45S	91.2	
500-222492-7	G44S	92.9	
500-222492-8	R32S	89.2	
500-222492-9	T09S	89.7	
500-222492-10	T06S	91.9	
500-222492-11	T05S	77.7	
500-222492-12	G31S	84.3	
500-222492-15	G33S	52.0	
500-222492-16	T02S	74.3	
500-222492-17	T08S	89.7	
500-222492-18	T03S	94.9	
500-222492-19	DUP	93.9	
LCS 160-583473/2-A	Lab Control Sample	92.1	
LCS 160-584264/2-A	Lab Control Sample	98.8	
LCS 160-584773/2-A	Lab Control Sample	98.0	
MB 160-583473/1-A	Method Blank	88.2	
MB 160-584264/1-A	Method Blank	96.3	
MB 160-584773/1-A	Method Blank	93.9	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 904.0 - Radium-228 (GFPC)

Matrix: GW

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-222492-13	T01S	49.8	84.1
500-222492-14	G30S	80.1	81.1
Tracer/Carrier Legend			
Ba = Ba Carrier			

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR 3Q22
 Y = Y Carrier

Job ID: 500-222492-2

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba	Y
		(40-110)	(40-110)
500-222492-1	G20S	93.9	75.9
500-222492-1 DU	G20S	88.9	80.4
500-222492-2	R08S	91.2	81.5
500-222492-3	G47S	91.6	84.1
500-222492-4	G48S	89.0	84.9
500-222492-5	G46S	84.3	84.1
500-222492-5 DU	G46S	89.0	82.2
500-222492-6	G45S	91.2	82.2
500-222492-7	G44S	92.9	83.4
500-222492-8	R32S	89.2	84.1
500-222492-9	T09S	89.7	78.5
500-222492-10	T06S	91.9	81.9
500-222492-11	T05S	72.5	87.9
500-222492-12	G31S	84.3	81.5
500-222492-15	G33S	52.0	83.0
500-222492-16	T02S	74.3	84.5
500-222492-17	T08S	89.7	84.5
500-222492-18	T03S	94.9	87.9
500-222492-19	DUP	93.9	84.1
LCS 160-583474/2-A	Lab Control Sample	92.1	79.3
LCS 160-583936/2-A	Lab Control Sample	91.9	86.0
LCS 160-584268/2-A	Lab Control Sample	98.8	83.0
LCS 160-584851/2-A	Lab Control Sample	98.0	84.1
LCS 160-586322/2-A	Lab Control Sample	93.9	81.9
MB 160-583474/1-A	Method Blank	88.2	82.6
MB 160-583936/1-A	Method Blank	90.9	88.6
MB 160-584268/1-A	Method Blank	96.3	82.6
MB 160-584851/1-A	Method Blank	93.9	81.5
MB 160-586322/1-A	Method Blank	92.6	86.0

Tracer/Carrier Legend

Ba = Ba Carrier
 Y = Y Carrier

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: John Niedzwiecki
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 1/10/2023 10:52:00 AM

JOB DESCRIPTION

Joliet #9 (Quarry) CCR

JOB NUMBER

500-226905-1

Eurofins Chicago

Job Notes

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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Job ID: 500-226905-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-226905-1**

Comments

No additional comments.

Receipt

The samples were received on 12/15/2022 2:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.0° C, 0.4° C, 1.4° C, 1.5° C, 3.0° C and 4.8° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-692425 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Method Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
300.0	Anions, Ion Chromatography	MCAWW	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 Cl- E	Chloride, Total	SM	EET CHI
SM 4500 SO4 E	Sulfate, Total	SM	EET CHI
Field Sampling	Field Sampling	EPA	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-226905-1	T09S	Water	12/15/22 09:10	12/15/22 14:35
500-226905-2	T06S	Water	12/15/22 10:38	12/15/22 14:35
500-226905-3	T05S	Water	12/15/22 12:46	12/15/22 14:35
500-226905-4	G33S	Water	12/16/22 10:02	12/16/22 13:35
500-226905-5	R32S	Water	12/16/22 11:24	12/16/22 13:35
500-226905-6	G31S	Water	12/16/22 12:25	12/16/22 13:35
500-226905-7	DUP	Water	12/16/22 12:25	12/16/22 13:35
500-226905-8	G30S	GW	12/19/22 09:18	12/19/22 15:48
500-226905-9	G20S	GW	12/19/22 11:08	12/19/22 15:48
500-226905-10	R08S	GW	12/19/22 14:34	12/19/22 15:48
500-226905-11	T02S	Water	12/20/22 09:30	12/20/22 15:40
500-226905-12	T08S	Water	12/20/22 11:06	12/20/22 15:40
500-226905-13	T01S	Water	12/20/22 12:52	12/20/22 15:40
500-226905-14	G46S	Water	12/20/22 14:24	12/20/22 15:40
500-226905-15	T03S	Water	12/21/22 09:04	12/21/22 14:58
500-226905-16	G44S	Water	12/21/22 09:54	12/21/22 14:58
500-226905-17	G45S	Water	12/21/22 10:54	12/21/22 14:58
500-226905-18	G48S	Water	12/21/22 11:55	12/21/22 14:58
500-226905-19	G47S	Water	12/21/22 13:46	12/21/22 14:58



Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: T09S

Lab Sample ID: 500-226905-1

Date Collected: 12/15/22 09:10

Matrix: Water

Date Received: 12/15/22 14:35

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:16	1
Arsenic	0.0022		0.0010		mg/L		12/28/22 16:23	12/29/22 20:16	1
Barium	0.067		0.0025		mg/L		12/28/22 16:23	12/29/22 20:16	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:16	1
Boron	10		1.0		mg/L		12/28/22 16:23	12/30/22 15:47	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:16	1
Calcium	130		0.20		mg/L		12/28/22 16:23	12/29/22 20:16	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:16	1
Cobalt	0.0012		0.0010		mg/L		12/28/22 16:23	12/29/22 20:16	1
Lead	0.00086		0.00050		mg/L		12/28/22 16:23	12/29/22 20:16	1
Lithium	0.11		0.010		mg/L		12/28/22 16:23	12/29/22 20:16	1
Molybdenum	1.2		0.0050		mg/L		12/28/22 16:23	12/29/22 20:16	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:16	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.71		0.20		mg/L			01/04/23 15:47	1
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			12/20/22 03:50	1
Chloride (SM 4500 Cl- E)	50		20		mg/L			12/19/22 10:39	10
Sulfate (SM 4500 SO4 E)	540		250		mg/L			12/21/22 09:07	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	93.89				ft			12/15/22 09:10	1
Depth to Water (ft from MP)	96.09				ft			12/15/22 09:10	1
Elevation of well (ft from MP)	603.48				ft			12/15/22 09:10	1
Field pH	7.51				SU			12/15/22 09:10	1
Field Temperature	46.2				Degrees F			12/15/22 09:10	1
Field Turbidity	5.04				NTU			12/15/22 09:10	1
Ground Water Elevation	507.19				ft			12/15/22 09:10	1
Specific Conductance	1343				umhos/cm			12/15/22 09:10	1
Well bottom elevation	444.80				ft			12/15/22 09:10	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: T06S

Lab Sample ID: 500-226905-2

Date Collected: 12/15/22 10:38

Matrix: Water

Date Received: 12/15/22 14:35

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:20	1
Arsenic	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:20	1
Barium	0.034		0.0025		mg/L		12/28/22 16:23	12/29/22 20:20	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:20	1
Boron	0.91		0.25		mg/L		12/28/22 16:23	12/30/22 15:50	5
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:20	1
Calcium	84		0.20		mg/L		12/28/22 16:23	12/29/22 20:20	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:20	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:20	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:20	1
Lithium	0.023		0.010		mg/L		12/28/22 16:23	12/29/22 20:20	1
Molybdenum	0.015		0.0050		mg/L		12/28/22 16:23	12/29/22 20:20	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:20	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.61		0.20		mg/L			01/04/23 15:59	1
Total Dissolved Solids (SM 2540C)	520		10		mg/L			12/20/22 03:52	1
Chloride (SM 4500 Cl- E)	15		2.0		mg/L			12/19/22 10:38	1
Sulfate (SM 4500 SO4 E)	97		50		mg/L			12/21/22 09:07	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	112.14				ft			12/15/22 10:38	1
Depth to Water (ft from MP)	114.44				ft			12/15/22 10:38	1
Elevation of well (ft from MP)	621.05				ft			12/15/22 10:38	1
Field pH	7.23				SU			12/15/22 10:38	1
Field Temperature	47.3				Degrees F			12/15/22 10:38	1
Field Turbidity	0.52				NTU			12/15/22 10:38	1
Ground Water Elevation	506.61				ft			12/15/22 10:38	1
Specific Conductance	708				umhos/cm			12/15/22 10:38	1
Well bottom elevation	447.94				ft			12/15/22 10:38	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: T05S

Lab Sample ID: 500-226905-3

Date Collected: 12/15/22 12:46

Matrix: Water

Date Received: 12/15/22 14:35

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:23	1
Arsenic	0.10		0.0010		mg/L		12/28/22 16:23	12/29/22 20:23	1
Barium	0.011		0.0025		mg/L		12/28/22 16:23	12/29/22 20:23	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:23	1
Boron	13		2.5		mg/L		12/28/22 16:23	12/30/22 15:53	50
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:23	1
Calcium	3.8		0.20		mg/L		12/28/22 16:23	12/29/22 20:23	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:23	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:23	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:23	1
Lithium	0.017		0.010		mg/L		12/28/22 16:23	12/29/22 20:23	1
Molybdenum	1.0		0.0050		mg/L		12/28/22 16:23	12/29/22 20:23	1
Selenium	0.0036		0.0025		mg/L		12/28/22 16:23	12/29/22 20:23	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.9		0.20		mg/L			01/04/23 16:12	1
Total Dissolved Solids (SM 2540C)	1600		10		mg/L			12/20/22 03:55	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			12/19/22 11:07	10
Sulfate (SM 4500 SO4 E)	530		500		mg/L			12/21/22 09:17	100

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	124.62				ft			12/15/22 12:46	1
Depth to Water (ft from MP)	127.02				ft			12/15/22 12:46	1
Elevation of well (ft from MP)	623.50				ft			12/15/22 12:46	1
Field pH	9.75				SU			12/15/22 12:46	1
Field Temperature	45.9				Degrees F			12/15/22 12:46	1
Field Turbidity	2.54				NTU			12/15/22 12:46	1
Ground Water Elevation	496.48				ft			12/15/22 12:46	1
Specific Conductance	2120				umhos/cm			12/15/22 12:46	1
Well bottom elevation	448.35				ft			12/15/22 12:46	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G33S

Lab Sample ID: 500-226905-4

Date Collected: 12/16/22 10:02

Matrix: Water

Date Received: 12/16/22 13:35

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:27	1
Arsenic	0.0014		0.0010		mg/L		12/28/22 16:23	12/29/22 20:27	1
Barium	0.098		0.0025		mg/L		12/28/22 16:23	12/29/22 20:27	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:27	1
Boron	0.96		0.25		mg/L		12/28/22 16:23	12/30/22 15:57	5
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:27	1
Calcium	56		0.20		mg/L		12/28/22 16:23	12/29/22 20:27	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:27	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:27	1
Lead	0.0056		0.00050		mg/L		12/28/22 16:23	12/29/22 20:27	1
Lithium	0.034		0.010		mg/L		12/28/22 16:23	12/29/22 20:27	1
Molybdenum	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:27	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:27	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.89		0.20		mg/L			01/04/23 16:25	1
Total Dissolved Solids (SM 2540C)	410		10		mg/L			12/20/22 05:12	1
Chloride (SM 4500 Cl- E)	12		2.0		mg/L			12/19/22 10:40	1
Sulfate (SM 4500 SO4 E)	69		50		mg/L			12/21/22 09:08	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	27.99				ft			12/16/22 10:02	1
Depth to Water (ft from MP)	29.72				ft			12/16/22 10:02	1
Elevation of well (ft from MP)	535.67				ft			12/16/22 10:02	1
Field pH	7.48				SU			12/16/22 10:02	1
Field Temperature	50.5				Degrees F			12/16/22 10:02	1
Field Turbidity	20.50				NTU			12/16/22 10:02	1
Ground Water Elevation	505.95				ft			12/16/22 10:02	1
Specific Conductance	668				umhos/cm			12/16/22 10:02	1
Well bottom elevation	452.72				ft			12/16/22 10:02	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: R32S

Lab Sample ID: 500-226905-5

Date Collected: 12/16/22 11:24

Matrix: Water

Date Received: 12/16/22 13:35

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:30	1
Arsenic	0.0021		0.0010		mg/L		12/28/22 16:23	12/29/22 20:30	1
Barium	0.035		0.0025		mg/L		12/28/22 16:23	12/29/22 20:30	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:30	1
Boron	4.7		0.50		mg/L		12/28/22 16:23	12/30/22 16:00	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:30	1
Calcium	130		0.20		mg/L		12/28/22 16:23	12/29/22 20:30	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:30	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:30	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:30	1
Lithium	0.11		0.010		mg/L		12/28/22 16:23	12/29/22 20:30	1
Molybdenum	0.63		0.0050		mg/L		12/28/22 16:23	12/29/22 20:30	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:30	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.51		0.20		mg/L			01/04/23 16:37	1
Total Dissolved Solids (SM 2540C)	860		10		mg/L			12/20/22 05:19	1
Chloride (SM 4500 Cl- E)	61		10		mg/L			12/19/22 10:40	5
Sulfate (SM 4500 SO4 E)	400		250		mg/L			12/21/22 09:08	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	16.32				ft			12/16/22 11:24	1
Depth to Water (ft from MP)	18.35				ft			12/16/22 11:24	1
Elevation of well (ft from MP)	536.97				ft			12/16/22 11:24	1
Field pH	7.41				SU			12/16/22 11:24	1
Field Temperature	51.8				Degrees F			12/16/22 11:24	1
Field Turbidity	1.53				NTU			12/16/22 11:24	1
Ground Water Elevation	518.62				ft			12/16/22 11:24	1
Specific Conductance	1009				umhos/cm			12/16/22 11:24	1
Well bottom elevation	457.84				ft			12/16/22 11:24	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G31S

Lab Sample ID: 500-226905-6

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:34	1
Arsenic	0.0041		0.0010		mg/L		12/28/22 16:23	12/29/22 20:34	1
Barium	0.047		0.0025		mg/L		12/28/22 16:23	12/29/22 20:34	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:34	1
Boron	5.0		0.50		mg/L		12/28/22 16:23	12/30/22 16:04	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:34	1
Calcium	140		0.20		mg/L		12/28/22 16:23	12/29/22 20:34	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:34	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:34	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:34	1
Lithium	0.10		0.010		mg/L		12/28/22 16:23	12/29/22 20:34	1
Molybdenum	0.89		0.0050		mg/L		12/28/22 16:23	12/29/22 20:34	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:34	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:34	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.57		0.20		mg/L			01/04/23 17:15	1
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			12/20/22 05:25	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			12/19/22 10:40	10
Sulfate (SM 4500 SO4 E)	450		250		mg/L			12/21/22 09:09	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	22.41				ft			12/16/22 12:25	1
Depth to Water (ft from MP)	24.99				ft			12/16/22 12:25	1
Elevation of well (ft from MP)	535.73				ft			12/16/22 12:25	1
Field pH	7.40				SU			12/16/22 12:25	1
Field Temperature	53.8				Degrees F			12/16/22 12:25	1
Field Turbidity	1.17				NTU			12/16/22 12:25	1
Ground Water Elevation	510.74				ft			12/16/22 12:25	1
Specific Conductance	1429				umhos/cm			12/16/22 12:25	1
Well bottom elevation	453.36				ft			12/16/22 12:25	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: DUP

Lab Sample ID: 500-226905-7

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:37	1
Arsenic	0.0037		0.0010		mg/L		12/28/22 16:23	12/29/22 20:37	1
Barium	0.047		0.0025		mg/L		12/28/22 16:23	12/29/22 20:37	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:37	1
Boron	4.5		0.50		mg/L		12/28/22 16:23	12/30/22 16:07	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:37	1
Calcium	140		0.20		mg/L		12/28/22 16:23	12/29/22 20:37	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:37	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:37	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:37	1
Lithium	0.096		0.010		mg/L		12/28/22 16:23	12/29/22 20:37	1
Molybdenum	0.82		0.0050		mg/L		12/28/22 16:23	12/29/22 20:37	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:37	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.59		0.20		mg/L			01/04/23 17:28	1
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			12/20/22 05:27	1
Chloride (SM 4500 Cl- E)	140		20		mg/L			12/19/22 10:41	10
Sulfate (SM 4500 SO4 E)	450		250		mg/L			12/21/22 09:10	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	22.41				ft			12/16/22 12:25	1
Depth to Water (ft from MP)	24.99				ft			12/16/22 12:25	1
Elevation of well (ft from MP)	535.73				ft			12/16/22 12:25	1
Field pH	7.40				SU			12/16/22 12:25	1
Field Temperature	53.8				Degrees F			12/16/22 12:25	1
Field Turbidity	1.17				NTU			12/16/22 12:25	1
Ground Water Elevation	510.74				ft			12/16/22 12:25	1
Specific Conductance	1429				umhos/cm			12/16/22 12:25	1
Well bottom elevation	453.36				ft			12/16/22 12:25	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G30S

Lab Sample ID: 500-226905-8

Date Collected: 12/19/22 09:18

Matrix: GW

Date Received: 12/19/22 15:48

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:41	1
Arsenic	0.0020		0.0010		mg/L		12/28/22 16:23	12/29/22 20:41	1
Barium	0.046		0.0025		mg/L		12/28/22 16:23	12/29/22 20:41	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:41	1
Boron	5.1		1.0		mg/L		12/28/22 16:23	12/30/22 16:11	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:41	1
Calcium	61		0.20		mg/L		12/28/22 16:23	12/29/22 20:41	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:41	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:41	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:41	1
Lithium	0.021		0.010		mg/L		12/28/22 16:23	12/29/22 20:41	1
Molybdenum	0.0098		0.0050		mg/L		12/28/22 16:23	12/29/22 20:41	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:41	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.2		0.20		mg/L			01/04/23 17:41	1
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			12/20/22 05:30	1
Chloride (SM 4500 Cl- E)	210		20		mg/L			12/22/22 10:55	10
Sulfate (SM 4500 SO4 E)	440		250		mg/L			12/21/22 09:10	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	0.17				ft			12/19/22 09:18	1
Depth to Water (ft from MP)	2.48				ft			12/19/22 09:18	1
Elevation of well (ft from MP)	524.86				ft			12/19/22 09:18	1
Field pH	7.80				SU			12/19/22 09:18	1
Field Temperature	41.4				Degrees F			12/19/22 09:18	1
Field Turbidity	1.04				NTU			12/19/22 09:18	1
Ground Water Elevation	522.38				ft			12/19/22 09:18	1
Specific Conductance	1740				umhos/cm			12/19/22 09:18	1
Well bottom elevation	462.58				ft			12/19/22 09:18	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G20S

Lab Sample ID: 500-226905-9

Date Collected: 12/19/22 11:08

Matrix: GW

Date Received: 12/19/22 15:48

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:51	1
Arsenic	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:51	1
Barium	0.048		0.0025		mg/L		12/28/22 16:23	12/29/22 20:51	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:51	1
Boron	1.3		0.25		mg/L		12/28/22 16:23	12/30/22 16:21	5
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:51	1
Calcium	59		0.20		mg/L		12/28/22 16:23	12/29/22 20:51	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:51	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:51	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:51	1
Lithium	0.038		0.010		mg/L		12/28/22 16:23	12/29/22 20:51	1
Molybdenum	0.0091		0.0050		mg/L		12/28/22 16:23	12/29/22 20:51	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:51	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:51	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.95		0.20		mg/L			01/04/23 17:54	1
Total Dissolved Solids (SM 2540C)	410		10		mg/L			12/20/22 05:32	1
Chloride (SM 4500 Cl- E)	15		2.0		mg/L			12/22/22 11:15	1
Sulfate (SM 4500 SO4 E)	57		25		mg/L			12/21/22 09:58	5

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	69.48				ft			12/19/22 11:08	1
Depth to Water (ft from MP)	72.26				ft			12/19/22 11:08	1
Elevation of well (ft from MP)	580.87				ft			12/19/22 11:08	1
Field pH	7.06				SU			12/19/22 11:08	1
Field Temperature	39.9				Degrees F			12/19/22 11:08	1
Field Turbidity	2.61				NTU			12/19/22 11:08	1
Ground Water Elevation	508.61				ft			12/19/22 11:08	1
Specific Conductance	645				umhos/cm			12/19/22 11:08	1
Well bottom elevation	442.28				ft			12/19/22 11:08	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: R08S

Lab Sample ID: 500-226905-10

Date Collected: 12/19/22 14:34

Matrix: GW

Date Received: 12/19/22 15:48

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:55	1
Arsenic	0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:55	1
Barium	0.041		0.0025		mg/L		12/28/22 16:23	12/29/22 20:55	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:55	1
Boron	8.2		1.0		mg/L		12/28/22 16:23	12/30/22 16:24	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:55	1
Calcium	140		0.20		mg/L		12/28/22 16:23	12/29/22 20:55	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:55	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:55	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:55	1
Lithium	0.13		0.010		mg/L		12/28/22 16:23	12/29/22 20:55	1
Molybdenum	0.37		0.0050		mg/L		12/28/22 16:23	12/29/22 20:55	1
Selenium	0.010		0.0025		mg/L		12/28/22 16:23	12/29/22 20:55	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.35		0.20		mg/L			01/04/23 18:06	1
Total Dissolved Solids (SM 2540C)	750		10		mg/L			12/20/22 05:35	1
Chloride (SM 4500 Cl- E)	81		20		mg/L			12/22/22 10:56	10
Sulfate (SM 4500 SO4 E)	370		250		mg/L			12/21/22 09:10	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	63.78				ft			12/19/22 14:34	1
Depth to Water (ft from MP)	66.33				ft			12/19/22 14:34	1
Elevation of well (ft from MP)	578.66				ft			12/19/22 14:34	1
Field pH	8.91				SU			12/19/22 14:34	1
Field Temperature	52.3				Degrees F			12/19/22 14:34	1
Field Turbidity	1.01				NTU			12/19/22 14:34	1
Ground Water Elevation	512.33				ft			12/19/22 14:34	1
Specific Conductance	997				umhos/cm			12/19/22 14:34	1
Well bottom elevation	453.08				ft			12/19/22 14:34	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: T02S

Lab Sample ID: 500-226905-11

Date Collected: 12/20/22 09:30

Matrix: Water

Date Received: 12/20/22 15:40

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:58	1
Arsenic	0.0049		0.0010		mg/L		12/28/22 16:23	12/29/22 20:58	1
Barium	0.082		0.0025		mg/L		12/28/22 16:23	12/29/22 20:58	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:58	1
Boron	4.6		0.50		mg/L		12/28/22 16:23	12/30/22 16:28	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:58	1
Calcium	71		0.20		mg/L		12/28/22 16:23	12/29/22 20:58	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:58	1
Cobalt	0.0021		0.0010		mg/L		12/28/22 16:23	12/29/22 20:58	1
Lead	0.0029		0.00050		mg/L		12/28/22 16:23	12/29/22 20:58	1
Lithium	0.033		0.010		mg/L		12/28/22 16:23	12/29/22 20:58	1
Molybdenum	0.46		0.0050		mg/L		12/28/22 16:23	12/29/22 20:58	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:58	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:58	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.59		0.20		mg/L			01/04/23 18:19	1
Total Dissolved Solids (SM 2540C)	920		10		mg/L			12/21/22 07:54	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			12/22/22 10:56	10
Sulfate (SM 4500 SO4 E)	360		100		mg/L			12/21/22 09:11	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	134.46				ft			12/20/22 09:30	1
Depth to Water (ft from MP)	136.79				ft			12/20/22 09:30	1
Elevation of well (ft from MP)	626.12				ft			12/20/22 09:30	1
Field pH	7.49				SU			12/20/22 09:30	1
Field Temperature	43.7				Degrees F			12/20/22 09:30	1
Field Turbidity	40.60				NTU			12/20/22 09:30	1
Ground Water Elevation	489.33				ft			12/20/22 09:30	1
Specific Conductance	1232				umhos/cm			12/20/22 09:30	1
Well bottom elevation	453.40				ft			12/20/22 09:30	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: T08S

Lab Sample ID: 500-226905-12

Date Collected: 12/20/22 11:06

Matrix: Water

Date Received: 12/20/22 15:40

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 21:02	1
Arsenic	0.019		0.0010		mg/L		12/28/22 16:23	12/29/22 21:02	1
Barium	0.030		0.0025		mg/L		12/28/22 16:23	12/29/22 21:02	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:02	1
Boron	8.9		1.0		mg/L		12/28/22 16:23	12/30/22 16:31	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:02	1
Calcium	23		0.20		mg/L		12/28/22 16:23	12/29/22 21:02	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:02	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:02	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:02	1
Lithium	0.036		0.010		mg/L		12/28/22 16:23	12/29/22 21:02	1
Molybdenum	0.89		0.0050		mg/L		12/28/22 16:23	12/29/22 21:02	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:02	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.1		0.20		mg/L			01/04/23 18:32	1
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			12/21/22 08:01	1
Chloride (SM 4500 Cl- E)	94		20		mg/L			12/22/22 10:56	10
Sulfate (SM 4500 SO4 E)	490		250		mg/L			12/21/22 09:11	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	129.09				ft			12/20/22 11:06	1
Depth to Water (ft from MP)	131.47				ft			12/20/22 11:06	1
Elevation of well (ft from MP)	627.55				ft			12/20/22 11:06	1
Field pH	7.85				SU			12/20/22 11:06	1
Field Temperature	47.1				Degrees F			12/20/22 11:06	1
Field Turbidity	5.97				NTU			12/20/22 11:06	1
Ground Water Elevation	496.08				ft			12/20/22 11:06	1
Specific Conductance	1413				umhos/cm			12/20/22 11:06	1
Well bottom elevation	447.38				ft			12/20/22 11:06	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: T01S

Lab Sample ID: 500-226905-13

Date Collected: 12/20/22 12:52

Matrix: Water

Date Received: 12/20/22 15:40

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 21:05	1
Arsenic	0.0065		0.0010		mg/L		12/28/22 16:23	12/29/22 21:05	1
Barium	0.051		0.0025		mg/L		12/28/22 16:23	12/29/22 21:05	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:05	1
Boron	4.3		0.50		mg/L		12/28/22 16:23	12/30/22 16:35	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:05	1
Calcium	47		0.20		mg/L		12/28/22 16:23	12/29/22 21:05	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:05	1
Cobalt	0.0024		0.0010		mg/L		12/28/22 16:23	12/29/22 21:05	1
Lead	0.0018		0.00050		mg/L		12/28/22 16:23	12/29/22 21:05	1
Lithium	0.012		0.010		mg/L		12/28/22 16:23	12/29/22 21:05	1
Molybdenum	0.30		0.0050		mg/L		12/28/22 16:23	12/29/22 21:05	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:05	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.3		0.20		mg/L			01/04/23 18:44	1
Total Dissolved Solids (SM 2540C)	980		10		mg/L			12/21/22 08:07	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			12/22/22 10:56	10
Sulfate (SM 4500 SO4 E)	380		250		mg/L			12/21/22 09:11	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	124.14				ft			12/20/22 12:52	1
Depth to Water (ft from MP)	126.62				ft			12/20/22 12:52	1
Elevation of well (ft from MP)	621.84				ft			12/20/22 12:52	1
Field pH	7.46				SU			12/20/22 12:52	1
Field Temperature	46.0				Degrees F			12/20/22 12:52	1
Field Turbidity	671				NTU			12/20/22 12:52	1
Ground Water Elevation	495.22				ft			12/20/22 12:52	1
Specific Conductance	1301				umhos/cm			12/20/22 12:52	1
Well bottom elevation	451.46				ft			12/20/22 12:52	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G46S

Lab Sample ID: 500-226905-14

Date Collected: 12/20/22 14:24

Matrix: Water

Date Received: 12/20/22 15:40

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 21:09	1
Arsenic	0.12		0.0010		mg/L		12/28/22 16:23	12/29/22 21:09	1
Barium	0.065		0.0025		mg/L		12/28/22 16:23	12/29/22 21:09	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:09	1
Boron	13		2.5		mg/L		12/28/22 16:23	12/30/22 16:38	50
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:09	1
Calcium	140		0.20		mg/L		12/28/22 16:23	12/29/22 21:09	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:09	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:09	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:09	1
Lithium	0.17		0.010		mg/L		12/28/22 16:23	12/29/22 21:09	1
Molybdenum	1.9		0.0050		mg/L		12/28/22 16:23	12/29/22 21:09	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:09	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.58	F1	0.20		mg/L			01/04/23 18:57	1
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			12/21/22 08:09	1
Chloride (SM 4500 Cl- E)	51		20		mg/L			12/22/22 10:57	10
Sulfate (SM 4500 SO4 E)	670		250		mg/L			12/21/22 09:12	50

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	91.20				ft			12/20/22 14:24	1
Depth to Water (ft from MP)	93.90				ft			12/20/22 14:24	1
Elevation of well (ft from MP)	601.41				ft			12/20/22 14:24	1
Field pH	7.68				SU			12/20/22 14:24	1
Field Temperature	53.1				Degrees F			12/20/22 14:24	1
Field Turbidity	77.90				NTU			12/20/22 14:24	1
Ground Water Elevation	507.51				ft			12/20/22 14:24	1
Specific Conductance	1530				umhos/cm			12/20/22 14:24	1
Well bottom elevation	453.62				ft			12/20/22 14:24	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: T03S

Lab Sample ID: 500-226905-15

Date Collected: 12/21/22 09:04

Matrix: Water

Date Received: 12/21/22 14:58

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 21:12	1
Arsenic	0.0011		0.0010		mg/L		12/28/22 16:23	12/29/22 21:12	1
Barium	0.081		0.0025		mg/L		12/28/22 16:23	12/29/22 21:12	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:12	1
Boron	2.9		0.50		mg/L		12/28/22 16:23	12/30/22 16:41	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:12	1
Calcium	110		0.20		mg/L		12/28/22 16:23	12/29/22 21:12	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:12	1
Cobalt	0.0012		0.0010		mg/L		12/28/22 16:23	12/29/22 21:12	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:12	1
Lithium	0.028		0.010		mg/L		12/28/22 16:23	12/29/22 21:12	1
Molybdenum	0.34		0.0050		mg/L		12/28/22 16:23	12/29/22 21:12	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:12	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.52		0.20		mg/L			01/04/23 20:00	1
Total Dissolved Solids (SM 2540C)	960		10		mg/L			12/22/22 04:44	1
Chloride (SM 4500 Cl- E)	91		20		mg/L			12/22/22 10:57	10
Sulfate (SM 4500 SO4 E)	300		100		mg/L			01/04/23 08:54	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	137.61				ft			12/21/22 09:04	1
Depth to Water (ft from MP)	140.69				ft			12/21/22 09:04	1
Elevation of well (ft from MP)	629.85				ft			12/21/22 09:04	1
Field pH	7.44				SU			12/21/22 09:04	1
Field Temperature	50.9				Degrees F			12/21/22 09:04	1
Field Turbidity	2.03				NTU			12/21/22 09:04	1
Ground Water Elevation	489.16				ft			12/21/22 09:04	1
Specific Conductance	1175				umhos/cm			12/21/22 09:04	1
Well bottom elevation	456.70				ft			12/21/22 09:04	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G44S

Lab Sample ID: 500-226905-16

Date Collected: 12/21/22 09:54

Matrix: Water

Date Received: 12/21/22 14:58

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 21:15	1
Arsenic	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:15	1
Barium	0.069		0.0025		mg/L		12/28/22 16:23	12/29/22 21:15	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:15	1
Boron	1.9		0.50		mg/L		12/28/22 16:23	12/30/22 16:45	10
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:15	1
Calcium	130		0.20		mg/L		12/28/22 16:23	12/29/22 21:15	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:15	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:15	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:15	1
Lithium	0.023		0.010		mg/L		12/28/22 16:23	12/29/22 21:15	1
Molybdenum	0.29		0.0050		mg/L		12/28/22 16:23	12/29/22 21:15	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:15	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.49		0.20		mg/L			01/04/23 21:04	1
Total Dissolved Solids (SM 2540C)	870		10		mg/L			12/22/22 04:52	1
Chloride (SM 4500 Cl- E)	67		20		mg/L			12/22/22 10:57	10
Sulfate (SM 4500 SO4 E)	180		50		mg/L			01/04/23 08:55	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	77.91				ft			12/21/22 09:54	1
Depth to Water (ft from MP)	80.09				ft			12/21/22 09:54	1
Elevation of well (ft from MP)	586.68				ft			12/21/22 09:54	1
Field pH	7.07				SU			12/21/22 09:54	1
Field Temperature	49.6				Degrees F			12/21/22 09:54	1
Field Turbidity	11.70				NTU			12/21/22 09:54	1
Ground Water Elevation	506.59				ft			12/21/22 09:54	1
Specific Conductance	1040				umhos/cm			12/21/22 09:54	1
Well bottom elevation	455.11				ft			12/21/22 09:54	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G45S

Lab Sample ID: 500-226905-17

Date Collected: 12/21/22 10:54

Matrix: Water

Date Received: 12/21/22 14:58

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 21:40	1
Arsenic	0.0095		0.0010		mg/L		12/28/22 16:23	12/29/22 21:40	1
Barium	0.050		0.0025		mg/L		12/28/22 16:23	12/29/22 21:40	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:40	1
Boron	0.39		0.050		mg/L		12/28/22 16:23	12/30/22 17:09	1
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:40	1
Calcium	110		0.20		mg/L		12/28/22 16:23	12/29/22 21:40	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:40	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:40	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:40	1
Lithium	0.029		0.010		mg/L		12/28/22 16:23	12/29/22 21:40	1
Molybdenum	0.0089		0.0050		mg/L		12/28/22 16:23	12/29/22 21:40	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:40	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.72		0.20		mg/L			01/04/23 21:17	1
Total Dissolved Solids (SM 2540C)	920		10		mg/L			12/22/22 04:54	1
Chloride (SM 4500 Cl- E)	190		20		mg/L			12/22/22 10:58	10
Sulfate (SM 4500 SO4 E)	190		50		mg/L			01/04/23 08:55	10

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	64.81				ft			12/21/22 10:54	1
Depth to Water (ft from MP)	67.78				ft			12/21/22 10:54	1
Elevation of well (ft from MP)	603.80				ft			12/21/22 10:54	1
Field pH	7.12				SU			12/21/22 10:54	1
Field Temperature	53.6				Degrees F			12/21/22 10:54	1
Field Turbidity	2.04				NTU			12/21/22 10:54	1
Ground Water Elevation	536.02				ft			12/21/22 10:54	1
Specific Conductance	1232				umhos/cm			12/21/22 10:54	1
Well bottom elevation	471.05				ft			12/21/22 10:54	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G48S

Lab Sample ID: 500-226905-18

Date Collected: 12/21/22 11:55

Matrix: Water

Date Received: 12/21/22 14:58

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 21:43	1
Arsenic	0.014		0.0010		mg/L		12/28/22 16:23	12/29/22 21:43	1
Barium	0.018		0.0025		mg/L		12/28/22 16:23	12/29/22 21:43	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:43	1
Boron	6.4		1.0		mg/L		12/28/22 16:23	12/30/22 17:12	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:43	1
Calcium	28		0.20		mg/L		12/28/22 16:23	12/29/22 21:43	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:43	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:43	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:43	1
Lithium	0.022		0.010		mg/L		12/28/22 16:23	12/29/22 21:43	1
Molybdenum	0.43		0.0050		mg/L		12/28/22 16:23	12/29/22 21:43	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 21:43	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.3		0.20		mg/L			01/04/23 21:30	1
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			12/22/22 04:57	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			12/22/22 10:58	10
Sulfate (SM 4500 SO4 E)	410		100		mg/L			01/04/23 08:55	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	103.16				ft			12/21/22 11:55	1
Depth to Water (ft from MP)	105.61				ft			12/21/22 11:55	1
Elevation of well (ft from MP)	620.77				ft			12/21/22 11:55	1
Field pH	8.66				SU			12/21/22 11:55	1
Field Temperature	48.6				Degrees F			12/21/22 11:55	1
Field Turbidity	3.73				NTU			12/21/22 11:55	1
Ground Water Elevation	515.16				ft			12/21/22 11:55	1
Specific Conductance	1343				umhos/cm			12/21/22 11:55	1
Well bottom elevation	468.32				ft			12/21/22 11:55	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G47S

Lab Sample ID: 500-226905-19

Date Collected: 12/21/22 13:46

Matrix: Water

Date Received: 12/21/22 14:58

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 21:47	1
Arsenic	0.036		0.0010		mg/L		12/28/22 16:23	12/29/22 21:47	1
Barium	0.014		0.0025		mg/L		12/28/22 16:23	12/29/22 21:47	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:47	1
Boron	7.0		1.0		mg/L		12/28/22 16:23	12/30/22 17:16	20
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:47	1
Calcium	7.9		0.20		mg/L		12/28/22 16:23	12/29/22 21:47	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 21:47	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 21:47	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 21:47	1
Lithium	0.044		0.010		mg/L		12/28/22 16:23	12/29/22 21:47	1
Molybdenum	0.59		0.0050		mg/L		12/28/22 16:23	12/29/22 21:47	1
Selenium	0.0028		0.0025		mg/L		12/28/22 16:23	12/29/22 21:47	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 21:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	1.1	F1	0.20		mg/L			01/04/23 21:42	1
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			12/22/22 05:00	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			12/22/22 10:59	10
Sulfate (SM 4500 SO4 E)	450		100		mg/L			01/04/23 08:55	20

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	94.07				ft			12/21/22 13:46	1
Depth to Water (ft from MP)	96.57				ft			12/21/22 13:46	1
Elevation of well (ft from MP)	612.23				ft			12/21/22 13:46	1
Field pH	9.50				SU			12/21/22 13:46	1
Field Temperature	49.3				Degrees F			12/21/22 13:46	1
Field Turbidity	0.76				NTU			12/21/22 13:46	1
Ground Water Elevation	515.66				ft			12/21/22 13:46	1
Specific Conductance	1404				umhos/cm			12/21/22 13:46	1
Well bottom elevation	459.84				ft			12/21/22 13:46	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
♠	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Metals

Prep Batch: 691401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	7470A	
500-226905-2	T06S	Total/NA	Water	7470A	
500-226905-3	T05S	Total/NA	Water	7470A	
500-226905-4	G33S	Total/NA	Water	7470A	
500-226905-5	R32S	Total/NA	Water	7470A	
500-226905-6	G31S	Total/NA	Water	7470A	
500-226905-7	DUP	Total/NA	Water	7470A	
500-226905-8	G30S	Total/NA	GW	7470A	
500-226905-9	G20S	Total/NA	GW	7470A	
500-226905-10	R08S	Total/NA	GW	7470A	
500-226905-11	T02S	Total/NA	Water	7470A	
500-226905-12	T08S	Total/NA	Water	7470A	
500-226905-13	T01S	Total/NA	Water	7470A	
500-226905-14	G46S	Total/NA	Water	7470A	
500-226905-15	T03S	Total/NA	Water	7470A	
500-226905-16	G44S	Total/NA	Water	7470A	
500-226905-17	G45S	Total/NA	Water	7470A	
500-226905-18	G48S	Total/NA	Water	7470A	
500-226905-19	G47S	Total/NA	Water	7470A	
MB 500-691401/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-691401/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-226905-9 MS	G20S	Total/NA	GW	7470A	
500-226905-9 MSD	G20S	Total/NA	GW	7470A	
500-226905-9 DU	G20S	Total/NA	GW	7470A	

Analysis Batch: 691594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	7470A	691401
500-226905-2	T06S	Total/NA	Water	7470A	691401
500-226905-3	T05S	Total/NA	Water	7470A	691401
500-226905-4	G33S	Total/NA	Water	7470A	691401
500-226905-5	R32S	Total/NA	Water	7470A	691401
500-226905-6	G31S	Total/NA	Water	7470A	691401
500-226905-7	DUP	Total/NA	Water	7470A	691401
500-226905-8	G30S	Total/NA	GW	7470A	691401
500-226905-9	G20S	Total/NA	GW	7470A	691401
500-226905-10	R08S	Total/NA	GW	7470A	691401
500-226905-11	T02S	Total/NA	Water	7470A	691401
500-226905-12	T08S	Total/NA	Water	7470A	691401
500-226905-13	T01S	Total/NA	Water	7470A	691401
500-226905-14	G46S	Total/NA	Water	7470A	691401
500-226905-15	T03S	Total/NA	Water	7470A	691401
500-226905-16	G44S	Total/NA	Water	7470A	691401
500-226905-17	G45S	Total/NA	Water	7470A	691401
500-226905-18	G48S	Total/NA	Water	7470A	691401
500-226905-19	G47S	Total/NA	Water	7470A	691401
MB 500-691401/12-A	Method Blank	Total/NA	Water	7470A	691401
LCS 500-691401/13-A	Lab Control Sample	Total/NA	Water	7470A	691401
500-226905-9 MS	G20S	Total/NA	GW	7470A	691401
500-226905-9 MSD	G20S	Total/NA	GW	7470A	691401
500-226905-9 DU	G20S	Total/NA	GW	7470A	691401

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Metals

Prep Batch: 691662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total Recoverable	Water	3005A	
500-226905-2	T06S	Total Recoverable	Water	3005A	
500-226905-3	T05S	Total Recoverable	Water	3005A	
500-226905-4	G33S	Total Recoverable	Water	3005A	
500-226905-5	R32S	Total Recoverable	Water	3005A	
500-226905-6	G31S	Total Recoverable	Water	3005A	
500-226905-7	DUP	Total Recoverable	Water	3005A	
500-226905-8	G30S	Total Recoverable	GW	3005A	
500-226905-9	G20S	Total Recoverable	GW	3005A	
500-226905-10	R08S	Total Recoverable	GW	3005A	
500-226905-11	T02S	Total Recoverable	Water	3005A	
500-226905-12	T08S	Total Recoverable	Water	3005A	
500-226905-13	T01S	Total Recoverable	Water	3005A	
500-226905-14	G46S	Total Recoverable	Water	3005A	
500-226905-15	T03S	Total Recoverable	Water	3005A	
500-226905-16	G44S	Total Recoverable	Water	3005A	
500-226905-17	G45S	Total Recoverable	Water	3005A	
500-226905-18	G48S	Total Recoverable	Water	3005A	
500-226905-19	G47S	Total Recoverable	Water	3005A	
MB 500-691662/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-691662/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-226905-16 MS	G44S	Total Recoverable	Water	3005A	
500-226905-16 MSD	G44S	Total Recoverable	Water	3005A	
500-226905-16 DU	G44S	Total Recoverable	Water	3005A	

Analysis Batch: 692039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total Recoverable	Water	6020A	691662
500-226905-2	T06S	Total Recoverable	Water	6020A	691662
500-226905-3	T05S	Total Recoverable	Water	6020A	691662
500-226905-4	G33S	Total Recoverable	Water	6020A	691662
500-226905-5	R32S	Total Recoverable	Water	6020A	691662
500-226905-6	G31S	Total Recoverable	Water	6020A	691662
500-226905-7	DUP	Total Recoverable	Water	6020A	691662
500-226905-8	G30S	Total Recoverable	GW	6020A	691662
500-226905-9	G20S	Total Recoverable	GW	6020A	691662
500-226905-10	R08S	Total Recoverable	GW	6020A	691662
500-226905-11	T02S	Total Recoverable	Water	6020A	691662
500-226905-12	T08S	Total Recoverable	Water	6020A	691662
500-226905-13	T01S	Total Recoverable	Water	6020A	691662
500-226905-14	G46S	Total Recoverable	Water	6020A	691662
500-226905-15	T03S	Total Recoverable	Water	6020A	691662
500-226905-16	G44S	Total Recoverable	Water	6020A	691662
500-226905-17	G45S	Total Recoverable	Water	6020A	691662
500-226905-18	G48S	Total Recoverable	Water	6020A	691662
500-226905-19	G47S	Total Recoverable	Water	6020A	691662
MB 500-691662/1-A	Method Blank	Total Recoverable	Water	6020A	691662
LCS 500-691662/2-A	Lab Control Sample	Total Recoverable	Water	6020A	691662
500-226905-16 MS	G44S	Total Recoverable	Water	6020A	691662
500-226905-16 MSD	G44S	Total Recoverable	Water	6020A	691662
500-226905-16 DU	G44S	Total Recoverable	Water	6020A	691662

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Metals

Analysis Batch: 692247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total Recoverable	Water	6020A	691662
500-226905-2	T06S	Total Recoverable	Water	6020A	691662
500-226905-3	T05S	Total Recoverable	Water	6020A	691662
500-226905-4	G33S	Total Recoverable	Water	6020A	691662
500-226905-5	R32S	Total Recoverable	Water	6020A	691662
500-226905-6	G31S	Total Recoverable	Water	6020A	691662
500-226905-7	DUP	Total Recoverable	Water	6020A	691662
500-226905-8	G30S	Total Recoverable	GW	6020A	691662
500-226905-9	G20S	Total Recoverable	GW	6020A	691662
500-226905-10	R08S	Total Recoverable	GW	6020A	691662
500-226905-11	T02S	Total Recoverable	Water	6020A	691662
500-226905-12	T08S	Total Recoverable	Water	6020A	691662
500-226905-13	T01S	Total Recoverable	Water	6020A	691662
500-226905-14	G46S	Total Recoverable	Water	6020A	691662
500-226905-15	T03S	Total Recoverable	Water	6020A	691662
500-226905-16	G44S	Total Recoverable	Water	6020A	691662
500-226905-17	G45S	Total Recoverable	Water	6020A	691662
500-226905-18	G48S	Total Recoverable	Water	6020A	691662
500-226905-19	G47S	Total Recoverable	Water	6020A	691662
MB 500-691662/1-A	Method Blank	Total Recoverable	Water	6020A	691662
LCS 500-691662/2-A	Lab Control Sample	Total Recoverable	Water	6020A	691662
500-226905-16 MS	G44S	Total Recoverable	Water	6020A	691662
500-226905-16 MSD	G44S	Total Recoverable	Water	6020A	691662
500-226905-16 DU	G44S	Total Recoverable	Water	6020A	691662

General Chemistry

Analysis Batch: 690528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	SM 4500 Cl- E	
500-226905-2	T06S	Total/NA	Water	SM 4500 Cl- E	
500-226905-3	T05S	Total/NA	Water	SM 4500 Cl- E	
500-226905-4	G33S	Total/NA	Water	SM 4500 Cl- E	
500-226905-5	R32S	Total/NA	Water	SM 4500 Cl- E	
500-226905-6	G31S	Total/NA	Water	SM 4500 Cl- E	
500-226905-7	DUP	Total/NA	Water	SM 4500 Cl- E	
MB 500-690528/51	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-690528/52	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-226905-2 MS	T06S	Total/NA	Water	SM 4500 Cl- E	
500-226905-2 MSD	T06S	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 690631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	SM 2540C	
500-226905-2	T06S	Total/NA	Water	SM 2540C	
500-226905-3	T05S	Total/NA	Water	SM 2540C	
MB 500-690631/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-690631/2	Lab Control Sample	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

General Chemistry

Analysis Batch: 690652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-4	G33S	Total/NA	Water	SM 2540C	
500-226905-5	R32S	Total/NA	Water	SM 2540C	
500-226905-6	G31S	Total/NA	Water	SM 2540C	
500-226905-7	DUP	Total/NA	Water	SM 2540C	
500-226905-8	G30S	Total/NA	GW	SM 2540C	
500-226905-9	G20S	Total/NA	GW	SM 2540C	
500-226905-10	R08S	Total/NA	GW	SM 2540C	
MB 500-690652/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-690652/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-226905-4 MS	G33S	Total/NA	Water	SM 2540C	
500-226905-4 DU	G33S	Total/NA	Water	SM 2540C	
500-226905-5 DU	R32S	Total/NA	Water	SM 2540C	

Analysis Batch: 690847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-11	T02S	Total/NA	Water	SM 2540C	
500-226905-12	T08S	Total/NA	Water	SM 2540C	
500-226905-13	T01S	Total/NA	Water	SM 2540C	
500-226905-14	G46S	Total/NA	Water	SM 2540C	
MB 500-690847/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-690847/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-226905-11 MS	T02S	Total/NA	Water	SM 2540C	
500-226905-11 DU	T02S	Total/NA	Water	SM 2540C	
500-226905-12 DU	T08S	Total/NA	Water	SM 2540C	

Analysis Batch: 690892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	SM 4500 SO4 E	
500-226905-2	T06S	Total/NA	Water	SM 4500 SO4 E	
500-226905-3	T05S	Total/NA	Water	SM 4500 SO4 E	
500-226905-4	G33S	Total/NA	Water	SM 4500 SO4 E	
500-226905-5	R32S	Total/NA	Water	SM 4500 SO4 E	
500-226905-6	G31S	Total/NA	Water	SM 4500 SO4 E	
500-226905-7	DUP	Total/NA	Water	SM 4500 SO4 E	
500-226905-8	G30S	Total/NA	GW	SM 4500 SO4 E	
500-226905-9	G20S	Total/NA	GW	SM 4500 SO4 E	
500-226905-10	R08S	Total/NA	GW	SM 4500 SO4 E	
500-226905-11	T02S	Total/NA	Water	SM 4500 SO4 E	
500-226905-12	T08S	Total/NA	Water	SM 4500 SO4 E	
500-226905-13	T01S	Total/NA	Water	SM 4500 SO4 E	
500-226905-14	G46S	Total/NA	Water	SM 4500 SO4 E	
MB 500-690892/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-690892/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 691038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-15	T03S	Total/NA	Water	SM 2540C	
500-226905-16	G44S	Total/NA	Water	SM 2540C	
500-226905-17	G45S	Total/NA	Water	SM 2540C	
500-226905-18	G48S	Total/NA	Water	SM 2540C	
500-226905-19	G47S	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

General Chemistry (Continued)

Analysis Batch: 691038 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-691038/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-691038/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-226905-15 MS	T03S	Total/NA	Water	SM 2540C	
500-226905-15 DU	T03S	Total/NA	Water	SM 2540C	

Analysis Batch: 691177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-8	G30S	Total/NA	GW	SM 4500 CI- E	
500-226905-9	G20S	Total/NA	GW	SM 4500 CI- E	
500-226905-10	R08S	Total/NA	GW	SM 4500 CI- E	
500-226905-11	T02S	Total/NA	Water	SM 4500 CI- E	
500-226905-12	T08S	Total/NA	Water	SM 4500 CI- E	
500-226905-13	T01S	Total/NA	Water	SM 4500 CI- E	
500-226905-14	G46S	Total/NA	Water	SM 4500 CI- E	
500-226905-15	T03S	Total/NA	Water	SM 4500 CI- E	
500-226905-16	G44S	Total/NA	Water	SM 4500 CI- E	
500-226905-17	G45S	Total/NA	Water	SM 4500 CI- E	
500-226905-18	G48S	Total/NA	Water	SM 4500 CI- E	
500-226905-19	G47S	Total/NA	Water	SM 4500 CI- E	
MB 500-691177/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-691177/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 692425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-15	T03S	Total/NA	Water	SM 4500 SO4 E	
500-226905-16	G44S	Total/NA	Water	SM 4500 SO4 E	
500-226905-17	G45S	Total/NA	Water	SM 4500 SO4 E	
500-226905-18	G48S	Total/NA	Water	SM 4500 SO4 E	
500-226905-19	G47S	Total/NA	Water	SM 4500 SO4 E	
MB 500-692425/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-692425/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-226905-15 MS	T03S	Total/NA	Water	SM 4500 SO4 E	
500-226905-15 MSD	T03S	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 692537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	300.0	
500-226905-2	T06S	Total/NA	Water	300.0	
500-226905-3	T05S	Total/NA	Water	300.0	
500-226905-4	G33S	Total/NA	Water	300.0	
500-226905-5	R32S	Total/NA	Water	300.0	
500-226905-6	G31S	Total/NA	Water	300.0	
500-226905-7	DUP	Total/NA	Water	300.0	
500-226905-8	G30S	Total/NA	GW	300.0	
500-226905-9	G20S	Total/NA	GW	300.0	
500-226905-10	R08S	Total/NA	GW	300.0	
500-226905-11	T02S	Total/NA	Water	300.0	
500-226905-12	T08S	Total/NA	Water	300.0	
500-226905-13	T01S	Total/NA	Water	300.0	
500-226905-14	G46S	Total/NA	Water	300.0	
500-226905-15	T03S	Total/NA	Water	300.0	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

General Chemistry (Continued)

Analysis Batch: 692537 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-16	G44S	Total/NA	Water	300.0	
500-226905-17	G45S	Total/NA	Water	300.0	
500-226905-18	G48S	Total/NA	Water	300.0	
500-226905-19	G47S	Total/NA	Water	300.0	
MB 500-692537/3	Method Blank	Total/NA	Water	300.0	
MB 500-692537/36	Method Blank	Total/NA	Water	300.0	
LCS 500-692537/37	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-692537/4	Lab Control Sample	Total/NA	Water	300.0	
500-226905-14 MS	G46S	Total/NA	Water	300.0	
500-226905-14 MSD	G46S	Total/NA	Water	300.0	
500-226905-15 MS	T03S	Total/NA	Water	300.0	
500-226905-15 MSD	T03S	Total/NA	Water	300.0	
500-226905-19 MS	G47S	Total/NA	Water	300.0	
500-226905-19 MSD	G47S	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 690197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	Field Sampling	
500-226905-2	T06S	Total/NA	Water	Field Sampling	
500-226905-3	T05S	Total/NA	Water	Field Sampling	
500-226905-4	G33S	Total/NA	Water	Field Sampling	
500-226905-5	R32S	Total/NA	Water	Field Sampling	
500-226905-6	G31S	Total/NA	Water	Field Sampling	
500-226905-7	DUP	Total/NA	Water	Field Sampling	
500-226905-8	G30S	Total/NA	GW	Field Sampling	
500-226905-9	G20S	Total/NA	GW	Field Sampling	
500-226905-10	R08S	Total/NA	GW	Field Sampling	
500-226905-11	T02S	Total/NA	Water	Field Sampling	
500-226905-12	T08S	Total/NA	Water	Field Sampling	
500-226905-13	T01S	Total/NA	Water	Field Sampling	
500-226905-14	G46S	Total/NA	Water	Field Sampling	
500-226905-15	T03S	Total/NA	Water	Field Sampling	
500-226905-16	G44S	Total/NA	Water	Field Sampling	
500-226905-17	G45S	Total/NA	Water	Field Sampling	
500-226905-18	G48S	Total/NA	Water	Field Sampling	
500-226905-19	G47S	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-691662/1-A
Matrix: Water
Analysis Batch: 692039

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/28/22 16:23	12/29/22 20:09	1
Arsenic	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:09	1
Barium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:09	1
Beryllium	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:09	1
Cadmium	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:09	1
Calcium	<0.20		0.20		mg/L		12/28/22 16:23	12/29/22 20:09	1
Chromium	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:09	1
Cobalt	<0.0010		0.0010		mg/L		12/28/22 16:23	12/29/22 20:09	1
Lead	<0.00050		0.00050		mg/L		12/28/22 16:23	12/29/22 20:09	1
Lithium	<0.010		0.010		mg/L		12/28/22 16:23	12/29/22 20:09	1
Molybdenum	<0.0050		0.0050		mg/L		12/28/22 16:23	12/29/22 20:09	1
Selenium	<0.0025		0.0025		mg/L		12/28/22 16:23	12/29/22 20:09	1
Thallium	<0.0020		0.0020		mg/L		12/28/22 16:23	12/29/22 20:09	1

Lab Sample ID: MB 500-691662/1-A
Matrix: Water
Analysis Batch: 692247

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		12/28/22 16:23	12/30/22 15:40	1

Lab Sample ID: LCS 500-691662/2-A
Matrix: Water
Analysis Batch: 692039

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.523		mg/L		105	80 - 120
Arsenic	0.100	0.0943		mg/L		94	80 - 120
Barium	2.00	2.09		mg/L		105	80 - 120
Beryllium	0.0500	0.0499		mg/L		100	80 - 120
Cadmium	0.0500	0.0511		mg/L		102	80 - 120
Calcium	10.0	9.60		mg/L		96	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Lithium	0.500	0.481		mg/L		96	80 - 120
Molybdenum	1.00	0.988		mg/L		99	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LCS 500-691662/2-A
Matrix: Water
Analysis Batch: 692247

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-226905-16 MS
Matrix: Water
Analysis Batch: 692039

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.522		mg/L		104	75 - 125
Arsenic	<0.0010		0.100	0.0889		mg/L		88	75 - 125
Barium	0.069		2.00	2.10		mg/L		102	75 - 125
Beryllium	<0.0010		0.0500	0.0445		mg/L		89	75 - 125
Cadmium	<0.00050		0.0500	0.0498		mg/L		100	75 - 125
Calcium	130		10.0	133	4	mg/L		11	75 - 125
Chromium	<0.0050		0.200	0.191		mg/L		96	75 - 125
Cobalt	<0.0010		0.500	0.472		mg/L		94	75 - 125
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125
Lithium	0.023		0.500	0.488		mg/L		93	75 - 125
Molybdenum	0.29		1.00	1.28		mg/L		99	75 - 125
Selenium	<0.0025		0.100	0.102		mg/L		102	75 - 125
Thallium	<0.0020		0.100	0.105		mg/L		105	75 - 125

Lab Sample ID: 500-226905-16 MS
Matrix: Water
Analysis Batch: 692247

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.9		1.00	2.78		mg/L		85	75 - 125

Lab Sample ID: 500-226905-16 MSD
Matrix: Water
Analysis Batch: 692039

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.526		mg/L		105	75 - 125	1	20
Arsenic	<0.0010		0.100	0.0890		mg/L		88	75 - 125	0	20
Barium	0.069		2.00	2.15		mg/L		104	75 - 125	2	20
Beryllium	<0.0010		0.0500	0.0441		mg/L		88	75 - 125	1	20
Cadmium	<0.00050		0.0500	0.0502		mg/L		100	75 - 125	1	20
Calcium	130		10.0	133	4	mg/L		12	75 - 125	0	20
Chromium	<0.0050		0.200	0.192		mg/L		96	75 - 125	0	20
Cobalt	<0.0010		0.500	0.467		mg/L		93	75 - 125	1	20
Lead	<0.00050		0.100	0.106		mg/L		106	75 - 125	2	20
Lithium	0.023		0.500	0.479		mg/L		91	75 - 125	2	20
Molybdenum	0.29		1.00	1.27		mg/L		98	75 - 125	0	20
Selenium	<0.0025		0.100	0.102		mg/L		102	75 - 125	0	20
Thallium	<0.0020		0.100	0.108		mg/L		108	75 - 125	2	20

Lab Sample ID: 500-226905-16 MSD
Matrix: Water
Analysis Batch: 692247

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.9		1.00	2.81		mg/L		88	75 - 125	1	20

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-226905-16 DU
Matrix: Water
Analysis Batch: 692039

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.069		0.0685		mg/L		0.5	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	130		127		mg/L		3	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Lithium	0.023		0.0228		mg/L		2	20
Molybdenum	0.29		0.285		mg/L		0.9	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-226905-16 DU
Matrix: Water
Analysis Batch: 692247

Client Sample ID: G44S
Prep Type: Total Recoverable
Prep Batch: 691662

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	1.9		1.88		mg/L		3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-691401/12-A
Matrix: Water
Analysis Batch: 691594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 691401

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		12/27/22 12:05	12/28/22 08:13	1

Lab Sample ID: LCS 500-691401/13-A
Matrix: Water
Analysis Batch: 691594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 691401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: 500-226905-9 MS
Matrix: GW
Analysis Batch: 691594

Client Sample ID: G20S
Prep Type: Total/NA
Prep Batch: 691401

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.00107		mg/L		107	75 - 125

Lab Sample ID: 500-226905-9 MSD
Matrix: GW
Analysis Batch: 691594

Client Sample ID: G20S
Prep Type: Total/NA
Prep Batch: 691401

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Mercury	<0.00020		0.00100	0.00106		mg/L		106	75 - 125	1	20

Euofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-226905-9 DU
 Matrix: GW
 Analysis Batch: 691594

Client Sample ID: G20S
 Prep Type: Total/NA
 Prep Batch: 691401

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-692537/3
 Matrix: Water
 Analysis Batch: 692537

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.20		0.20		mg/L			01/04/23 13:40	1

Lab Sample ID: MB 500-692537/36
 Matrix: Water
 Analysis Batch: 692537

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.20		0.20		mg/L			01/04/23 20:39	1

Lab Sample ID: LCS 500-692537/37
 Matrix: Water
 Analysis Batch: 692537

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.08		mg/L		108	90 - 110

Lab Sample ID: LCS 500-692537/4
 Matrix: Water
 Analysis Batch: 692537

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 500-226905-14 MS
 Matrix: Water
 Analysis Batch: 692537

Client Sample ID: G46S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.58	F1	0.600	0.983	F1	mg/L		67	80 - 120

Lab Sample ID: 500-226905-14 MSD
 Matrix: Water
 Analysis Batch: 692537

Client Sample ID: G46S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Fluoride	0.58	F1	0.600	1.00	F1	mg/L		71	80 - 120	2	20

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-226905-15 MS
Matrix: Water
Analysis Batch: 692537

Client Sample ID: T03S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.52		0.600	1.10		mg/L		96	80 - 120

Lab Sample ID: 500-226905-15 MSD
Matrix: Water
Analysis Batch: 692537

Client Sample ID: T03S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.52		0.600	1.10		mg/L		96	80 - 120	0	20

Lab Sample ID: 500-226905-19 MS
Matrix: Water
Analysis Batch: 692537

Client Sample ID: G47S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.1	F1	0.600	1.51	F1	mg/L		72	80 - 120

Lab Sample ID: 500-226905-19 MSD
Matrix: Water
Analysis Batch: 692537

Client Sample ID: G47S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.1	F1	0.600	1.50	F1	mg/L		70	80 - 120	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-690631/1
Matrix: Water
Analysis Batch: 690631

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			12/20/22 03:19	1

Lab Sample ID: LCS 500-690631/2
Matrix: Water
Analysis Batch: 690631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	250		mg/L		100	80 - 120

Lab Sample ID: MB 500-690652/1
Matrix: Water
Analysis Batch: 690652

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			12/20/22 05:07	1

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 500-690652/2
Matrix: Water
Analysis Batch: 690652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	258		mg/L		103	80 - 120

Lab Sample ID: 500-226905-4 MS
Matrix: Water
Analysis Batch: 690652

Client Sample ID: G33S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	410		250	658		mg/L		101	75 - 125

Lab Sample ID: 500-226905-4 DU
Matrix: Water
Analysis Batch: 690652

Client Sample ID: G33S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	410		394		mg/L		3	5

Lab Sample ID: 500-226905-5 DU
Matrix: Water
Analysis Batch: 690652

Client Sample ID: R32S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	860		876		mg/L		2	5

Lab Sample ID: MB 500-690847/1
Matrix: Water
Analysis Batch: 690847

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			12/21/22 07:49	1

Lab Sample ID: LCS 500-690847/2
Matrix: Water
Analysis Batch: 690847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	242		mg/L		97	80 - 120

Lab Sample ID: 500-226905-11 MS
Matrix: Water
Analysis Batch: 690847

Client Sample ID: T02S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	920		250	1160		mg/L		99	75 - 125

Lab Sample ID: 500-226905-11 DU
Matrix: Water
Analysis Batch: 690847

Client Sample ID: T02S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	920		920		mg/L		0.4	5

Euofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: 500-226905-12 DU
 Matrix: Water
 Analysis Batch: 690847

Client Sample ID: T08S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1080		mg/L		1	5

Lab Sample ID: MB 500-691038/1
 Matrix: Water
 Analysis Batch: 691038

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			12/22/22 04:39	1

Lab Sample ID: LCS 500-691038/2
 Matrix: Water
 Analysis Batch: 691038

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	240		mg/L		96	80 - 120

Lab Sample ID: 500-226905-15 MS
 Matrix: Water
 Analysis Batch: 691038

Client Sample ID: T03S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	960		250	1250		mg/L		114	75 - 125

Lab Sample ID: 500-226905-15 DU
 Matrix: Water
 Analysis Batch: 691038

Client Sample ID: T03S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	960		944		mg/L		2	5

Method: SM 4500 CI- E - Chloride, Total

Lab Sample ID: MB 500-690528/51
 Matrix: Water
 Analysis Batch: 690528

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			12/19/22 10:38	1

Lab Sample ID: LCS 500-690528/52
 Matrix: Water
 Analysis Batch: 690528

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.0		mg/L		100	85 - 115

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 500-226905-2 MS
 Matrix: Water
 Analysis Batch: 690528

Client Sample ID: T06S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15		20.0	32.7		mg/L		89	75 - 125

Lab Sample ID: 500-226905-2 MSD
 Matrix: Water
 Analysis Batch: 690528

Client Sample ID: T06S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15		20.0	32.9		mg/L		89	75 - 125	0	20

Lab Sample ID: MB 500-691177/16
 Matrix: Water
 Analysis Batch: 691177

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			12/22/22 10:52	1

Lab Sample ID: LCS 500-691177/17
 Matrix: Water
 Analysis Batch: 691177

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.1		mg/L		101	85 - 115

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-690892/16
 Matrix: Water
 Analysis Batch: 690892

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			12/21/22 09:05	1

Lab Sample ID: LCS 500-690892/17
 Matrix: Water
 Analysis Batch: 690892

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.7		mg/L		108	88 - 123

Lab Sample ID: MB 500-692425/16
 Matrix: Water
 Analysis Batch: 692425

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			01/04/23 08:53	1

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 500-692425/17
Matrix: Water
Analysis Batch: 692425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.3		mg/L		107	88 - 123

Lab Sample ID: 500-226905-15 MS
Matrix: Water
Analysis Batch: 692425

Client Sample ID: T03S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	300		20.0	311	4	mg/L		75	75 - 125

Lab Sample ID: 500-226905-15 MSD
Matrix: Water
Analysis Batch: 692425

Client Sample ID: T03S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	300		20.0	308	4	mg/L		63	75 - 125	1	20

Chain of Custody Record

522970




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager		Site Contact:		Date:		COC No			
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact:		Carrier:		_____ of _____ COCs			
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>TDS, F, Cl, SO4</i> <i>Metals 14 elements + Hg</i> <i>Combined 226/228</i> <i>Radium 228</i> <i>Radium 226</i>		 500-226905 COC		Sampler			
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only.		Walk-in Client	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling		Job / SDG No	
Fax										500-226905	
Project Name <i>Joliet #9 CCR</i>											
Site <i>4A22 GW + Turbidity</i>								Sample Specific Notes			
P O #											
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.						
<i>4</i> <i>5</i> <i>6</i> <i>7</i> G335	<i>12/10/22</i>	<i>1002</i>		<i>W</i>	<i>5</i>						
R325	<i>12/16/22</i>	<i>1124</i>		<i>W</i>	<i>5</i>						
G315	<i>12/16/22</i>	<i>1225</i>		<i>W</i>	<i>5</i>						
DUP of G315	<i>12/16/22</i>	<i>1225</i>		<i>W</i>	<i>5</i>						
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown											
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>4.0-3.0</i> Corr'd _____		Therm ID No					
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/16/22 e 1335</i>		Received by		Company			
Relinquished by		Company		Date/Time		Received by		Company			
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>		Company <i>EETA</i>			
								Date/Time <i>12/16/22 1335</i>			



Address _____

Regulatory Program: DW NPDES RCRA Other

500-226905 COC

TAL-8210

Client Contact		Project Manager			Site Contact		Date	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email			Lab Contact		Carrier	
Address		Analysis Turnaround Time			Filtered Sample (Y/N) Perform MS / MSD (Y/N) TDS, Al, Cl, SO4 Combined 126/228 Rad: ur 228 Rad: in 226 Metal: Hekments + Hg		_____ of _____ COCs	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____					Sampler	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day					For Lab Use Only	
Fax							Walk-in Client	
Project Name <i>Toilet #9 CCR</i>							Lab Sampling.	
Site <i>4A12 GW + Turbidity</i>					Job / SDG No.		<i>500-226905</i>	
P O #							Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.		
<i>G30S</i>		<i>12/19/22</i>	<i>0918</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>
<i>G20S</i>		<i>12/19/22</i>	<i>1108</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>
<i>R08S</i>		<i>12/19/22</i>	<i>1434</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Non Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client
 Disposal by Lab
 Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. Yes No

Custody Seal No _____ Cooler Temp (°C) Obs'd *21.5* Cor'd *1.5* Therm ID No _____

Relinquished by <i>[Signature]</i>	Company <i>EETA</i>	Date/Time <i>12/19/22 1548</i>	Received by <i>[Signature]</i>	Company _____	Date/Time <i>12/19/22 1548</i>
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Chain of Custody Record

522973



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager			Site Contact			Date		COC No		
Company Name <i>Midwest Generation ENEC</i>		Lab Email			Lab Contact			Carrier		_____ of _____ COCs		
Address		Analysis Turnaround Time			Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>TDS, F, Cl, SO4</i> <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i>			 500-226905 COC			Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____									For Lab Use Only:	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day									Walk-in Client	
Project Name <i>Joliet #9 CCR</i>											Lab Sampling	
Site <i>4022 GW + Turbidity</i>											Job / SDG No	
P O #								<i>500-226905</i>		Sample Specific Notes		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.						
<i>15</i>	<i>T03S</i>		<i>12/21/22</i>	<i>0904</i>	<i>W</i>	<i>5</i>						
<i>16</i>	<i>G44S</i>		<i>12/21/22</i>	<i>0954</i>	<i>W</i>	<i>5</i>						
<i>17</i>	<i>G45S</i>		<i>12/21/22</i>	<i>1054</i>	<i>W</i>	<i>5</i>						
<i>18</i>	<i>G48S</i>		<i>12/21/22</i>	<i>1155</i>	<i>W</i>	<i>5</i>						
<i>19</i>	<i>G47S</i>		<i>12/21/22</i>	<i>1346</i>	<i>W</i>	<i>5</i>						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other												
Possible Hazard Identification. Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months						
Special Instructions/QC Requirements & Comments												
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>0.2 20.0</i> Corr'd <i>0.6 20.4</i>		Therm ID No						
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/21/22 e</i>		Received by <i>1458</i>		Company		Date/Time		
Relinquished by		Company		Date/Time		Received by		Company		Date/Time		
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/21/22 1458</i>		

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mocker, Diana J		Lab PM: Mocker, Diana J		COC No: 500-168682.1					
Client Contact: Diana.Mockler@et.eurofins.com		Phone: Diana.Mockler@et.eurofins.com		E-Mail: Diana.Mockler@et.eurofins.com		Page: Page 1 of 1					
Shipping/Receiving		Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-226905-2					
Address: 13715 Rider Trail North,		Due Date Requested: 1/13/2023		TAT Requested (days):		Preservation Codes:					
City: Earth City		PO #:		WO #:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)					
State, Zip: MO, 63045		Project #: 50011504		Project #: Joliet #9 (Quarry) CCR		Other:					
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		SSOW#:		Site: NRG Midwest Generation LSQ Joliet #9 CCR							
Email:											
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, Onwaste, Oil, BT, Tissue, A-AM)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.0/PreSep_21 Standard Target List	90.0/PreSep_0 Standard Target List	Ra26Ra228 GFPC	Total Number of Containers	Special Instructions/Note:
T09S (500-226905-1)	12/15/22	09:10 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
T06S (500-226905-2)	12/15/22	10:38 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
T05S (500-226905-3)	12/15/22	12:46 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify)											
Primary Deliverable Rank: 2											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/QC Requirements:											
Time: _____ Method of Shipment:											
Reinquired by: <i>[Signature]</i> Date/Time: 12/10/22 1130 Company: _____											
Reinquired by: FED EX Date/Time: _____ Company: _____											
Reinquired by: _____ Date/Time: _____ Company: _____											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:											
Cooler Temperature(s) °C and Other Remarks:											



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-226905-1

Login Number: 226905

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4,3.0,1.5,4.8,0.0,0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: T09S

Date Collected: 12/15/22 09:10

Date Received: 12/15/22 14:35

Lab Sample ID: 500-226905-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:16
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 15:47
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:24
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 15:47
Total/NA	Analysis	SM 2540C		1	690631	CLB	EET CHI	12/20/22 03:50
Total/NA	Analysis	SM 4500 CI- E		10	690528	LP	EET CHI	12/19/22 10:39
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:07
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/15/22 09:10

Client Sample ID: T06S

Date Collected: 12/15/22 10:38

Date Received: 12/15/22 14:35

Lab Sample ID: 500-226905-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:20
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		5	692247	FXG	EET CHI	12/30/22 15:50
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:26
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 15:59
Total/NA	Analysis	SM 2540C		1	690631	CLB	EET CHI	12/20/22 03:52
Total/NA	Analysis	SM 4500 CI- E		1	690528	LP	EET CHI	12/19/22 10:38
Total/NA	Analysis	SM 4500 SO4 E		10	690892	LP	EET CHI	12/21/22 09:07
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/15/22 10:38

Client Sample ID: T05S

Date Collected: 12/15/22 12:46

Date Received: 12/15/22 14:35

Lab Sample ID: 500-226905-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:23
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		50	692247	FXG	EET CHI	12/30/22 15:53
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:32
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 16:12
Total/NA	Analysis	SM 2540C		1	690631	CLB	EET CHI	12/20/22 03:55
Total/NA	Analysis	SM 4500 CI- E		10	690528	LP	EET CHI	12/19/22 11:07

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: T05S

Date Collected: 12/15/22 12:46

Date Received: 12/15/22 14:35

Lab Sample ID: 500-226905-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		100	690892	LP	EET CHI	12/21/22 09:17
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/15/22 12:46

Client Sample ID: G33S

Date Collected: 12/16/22 10:02

Date Received: 12/16/22 13:35

Lab Sample ID: 500-226905-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:27
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		5	692247	FXG	EET CHI	12/30/22 15:57
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:35
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 16:25
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:12
Total/NA	Analysis	SM 4500 CI- E		1	690528	LP	EET CHI	12/19/22 10:40
Total/NA	Analysis	SM 4500 SO4 E		10	690892	LP	EET CHI	12/21/22 09:08
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/16/22 10:02

Client Sample ID: R32S

Date Collected: 12/16/22 11:24

Date Received: 12/16/22 13:35

Lab Sample ID: 500-226905-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:30
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:00
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:37
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 16:37
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:19
Total/NA	Analysis	SM 4500 CI- E		5	690528	LP	EET CHI	12/19/22 10:40
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:08
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/16/22 11:24

Client Sample ID: G31S

Date Collected: 12/16/22 12:25

Date Received: 12/16/22 13:35

Lab Sample ID: 500-226905-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:34

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G31S

Lab Sample ID: 500-226905-6

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:04
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:39
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 17:15
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:25
Total/NA	Analysis	SM 4500 Cl- E		10	690528	LP	EET CHI	12/19/22 10:40
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:09
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/16/22 12:25

Client Sample ID: DUP

Lab Sample ID: 500-226905-7

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:37
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:07
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:41
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 17:28
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:27
Total/NA	Analysis	SM 4500 Cl- E		10	690528	LP	EET CHI	12/19/22 10:41
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:10
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/16/22 12:25

Client Sample ID: G30S

Lab Sample ID: 500-226905-8

Date Collected: 12/19/22 09:18

Matrix: GW

Date Received: 12/19/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:41
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 16:11
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:43
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 17:41
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:30
Total/NA	Analysis	SM 4500 Cl- E		10	691177	LP	EET CHI	12/22/22 10:55
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:10
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/19/22 09:18

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G20S

Date Collected: 12/19/22 11:08

Date Received: 12/19/22 15:48

Lab Sample ID: 500-226905-9

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:51
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		5	692247	FXG	EET CHI	12/30/22 16:21
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 08:45
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 17:54
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:32
Total/NA	Analysis	SM 4500 CI- E		1	691177	LP	EET CHI	12/22/22 11:15
Total/NA	Analysis	SM 4500 SO4 E		5	690892	LP	EET CHI	12/21/22 09:58
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/19/22 11:08

Client Sample ID: R08S

Date Collected: 12/19/22 14:34

Date Received: 12/19/22 15:48

Lab Sample ID: 500-226905-10

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:55
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 16:24
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:18
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 18:06
Total/NA	Analysis	SM 2540C		1	690652	CLB	EET CHI	12/20/22 05:35
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:56
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:10
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/19/22 14:34

Client Sample ID: T02S

Date Collected: 12/20/22 09:30

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 20:58
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:28
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:20
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 18:19
Total/NA	Analysis	SM 2540C		1	690847	CLB	EET CHI	12/21/22 07:54
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:56

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: T02S

Date Collected: 12/20/22 09:30

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		20	690892	LP	EET CHI	12/21/22 09:11
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/20/22 09:30

Client Sample ID: T08S

Date Collected: 12/20/22 11:06

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:02
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 16:31
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:22
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 18:32
Total/NA	Analysis	SM 2540C		1	690847	CLB	EET CHI	12/21/22 08:01
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:56
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:11
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/20/22 11:06

Client Sample ID: T01S

Date Collected: 12/20/22 12:52

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:05
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:35
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:24
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 18:44
Total/NA	Analysis	SM 2540C		1	690847	CLB	EET CHI	12/21/22 08:07
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:56
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:11
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/20/22 12:52

Client Sample ID: G46S

Date Collected: 12/20/22 14:24

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:09

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G46S

Date Collected: 12/20/22 14:24

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		50	692247	FXG	EET CHI	12/30/22 16:38
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:26
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 18:57
Total/NA	Analysis	SM 2540C		1	690847	CLB	EET CHI	12/21/22 08:09
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:57
Total/NA	Analysis	SM 4500 SO4 E		50	690892	LP	EET CHI	12/21/22 09:12
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/20/22 14:24

Client Sample ID: T03S

Date Collected: 12/21/22 09:04

Date Received: 12/21/22 14:58

Lab Sample ID: 500-226905-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:12
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:41
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:28
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 20:00
Total/NA	Analysis	SM 2540C		1	691038	CLB	EET CHI	12/22/22 04:44
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:57
Total/NA	Analysis	SM 4500 SO4 E		20	692425	LP	EET CHI	01/04/23 08:54
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/21/22 09:04

Client Sample ID: G44S

Date Collected: 12/21/22 09:54

Date Received: 12/21/22 14:58

Lab Sample ID: 500-226905-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:15
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		10	692247	FXG	EET CHI	12/30/22 16:45
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:30
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 21:04
Total/NA	Analysis	SM 2540C		1	691038	CLB	EET CHI	12/22/22 04:52
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:57
Total/NA	Analysis	SM 4500 SO4 E		10	692425	LP	EET CHI	01/04/23 08:55
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/21/22 09:54

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G45S

Lab Sample ID: 500-226905-17

Date Collected: 12/21/22 10:54

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:40
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692247	FXG	EET CHI	12/30/22 17:09
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:32
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 21:17
Total/NA	Analysis	SM 2540C		1	691038	CLB	EET CHI	12/22/22 04:54
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:58
Total/NA	Analysis	SM 4500 SO4 E		10	692425	LP	EET CHI	01/04/23 08:55
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/21/22 10:54

Client Sample ID: G48S

Lab Sample ID: 500-226905-18

Date Collected: 12/21/22 11:55

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:43
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 17:12
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:35
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 21:30
Total/NA	Analysis	SM 2540C		1	691038	CLB	EET CHI	12/22/22 04:57
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:58
Total/NA	Analysis	SM 4500 SO4 E		20	692425	LP	EET CHI	01/04/23 08:55
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/21/22 11:55

Client Sample ID: G47S

Lab Sample ID: 500-226905-19

Date Collected: 12/21/22 13:46

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		1	692039	FXG	EET CHI	12/29/22 21:47
Total Recoverable	Prep	3005A			691662	RN	EET CHI	12/28/22 16:23 - 12/28/22 16:53 ¹
Total Recoverable	Analysis	6020A		20	692247	FXG	EET CHI	12/30/22 17:16
Total/NA	Prep	7470A			691401	MJG	EET CHI	12/27/22 12:05 - 12/27/22 14:05 ¹
Total/NA	Analysis	7470A		1	691594	MJG	EET CHI	12/28/22 09:37
Total/NA	Analysis	300.0		1	692537	MM	EET CHI	01/04/23 21:42
Total/NA	Analysis	SM 2540C		1	691038	CLB	EET CHI	12/22/22 05:00
Total/NA	Analysis	SM 4500 CI- E		10	691177	LP	EET CHI	12/22/22 10:59

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-1

Client Sample ID: G47S

Lab Sample ID: 500-226905-19

Date Collected: 12/21/22 13:46

Matrix: Water

Date Received: 12/21/22 14:58

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Analysis	SM 4500 SO4 E		20	692425	LP	EET CHI	01/04/23 08:55
Total/NA	Analysis	Field Sampling		1	690197	JVB	EET CHI	12/21/22 13:46

* Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T09S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-1

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)

Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)

Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/15/22 Start Purge: 0850 End Purge: 0910
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.40 (ft) pH 7.52 7.51 7.51 (std.)

Ref. Measuring Pt. TIC SC 1348 1343 1343 (umhos/cm)

Well Elevation * 603.48 (ft./msl) Temp. 7.95 7.94 7.94 (°C)

Water Level 96.29 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 507.19 (ft./msl)

Well Bottom Elevation * 444.80 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 36°F, Cloudy, SW winds @ 10-15 mph

Turbidity: 5.04 NTU

Other: *Reference Measurement (updated 02/19/14)

Depth To Water from L.S. = 96.29 - 2.40 = 93.89 (ft.)

Levels were taken on 12/15/22 @ 0840

* Total Depth: 158.59

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T06S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-221905-2

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 12/15/22 Start Purge: 1023 End Purge: 1038
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.48

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																					
Stick Up <u>2.30</u> (ft)	pH <u>7.22</u>	<u>7.23</u>	<u>7.23</u>	(std.)																				
Ref. Measuring Pt. <u>TIC</u>	SC <u>706</u>	<u>708</u>	<u>708</u>	(umhos/cm)																				
Well Elevation * <u>621.05</u> (ft./msl)	Temp. <u>8.39</u>	<u>8.52</u>	<u>8.52</u>	(°C)																				
Water Level <u>114.44</u> (ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev. <u>506.61</u> (ft./msl)	<table border="1" style="width: 100%; height: 40px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																							
Well Bottom Elevation * <u>447.94</u> (ft./msl)																								

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 37°F, Cloudy, SW winds e 5-10 mph

Turbidity: 0.52 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 114.44 - 2.30 = 112.14 (ft.)

Levels were taken on 12/15/22 @ 1010

* Total Deth = 173.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T05S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-3

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 12/15/22 Start Purge: 1230 End Purge: 1246
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.52

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																					
Stick Up <u>2.40</u> (ft)	pH <u>9.78</u>	<u>9.75</u>	<u>9.75</u>	(std.)																				
Ref. Measuring Pt. <u>TIC</u>	SC <u>2120</u>	<u>2120</u>	<u>2120</u>	(umhos/cm)																				
Well Elevation * <u>623.50</u> (ft./msl)	Temp. <u>7.70</u>	<u>7.71</u>	<u>7.71</u>	(°C)																				
Water Level <u>127.02</u> (ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev. <u>496.48</u> (ft./msl)	<table border="1" style="width: 100%; height: 40px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																							
Well Bottom Elevation * <u>448.35</u> (ft./msl)																								

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 37°F, Cloudy, SW winds e 5-10 mph
Turbidity: 2.54 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 127.02 - 2.40 = 124.62 (ft.)
Levels were taken on 12/15/22 @ 1215
* Total Deth = 175.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G33S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-4

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/16/22 Start Purge: 0940 End Purge: 1002
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.57

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 1.73 (ft) pH 7.51 7.48 7.48 (std.)
Ref. Measuring Pt. TIC SC 669 668 668 (umhos/cm)
Well Elevation *535.67 (ft./msl) Temp. 10.27 10.30 10.30 (°C)
Water Level 29.72 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 505.95 (ft./msl)
Well Bottom Elevation *452.72 (ft./msl)

COMMENTS

Sample Appearance/Odor: Gray, slight turbidity, No Odor
Weather Conditions: 31°F, Snow, SW winds @ 10-15 mph
Turbidity: 20.50 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 29.72 - 1.73 = 27.99 (ft.)
Levels were taken on 12/16/22 @ 0930

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R32S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-221905-5

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/16/22 Start Purge: 1105 End Purge: 1124
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.98

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.03 (ft) pH 7.42 7.41 7.41 (std.)
Ref. Measuring Pt. TIC SC 997 1009 1009 (umhos/cm)
Well Elevation *536.97 (ft./msl) Temp. 11.05 10.99 10.99 (°C)
Water Level 18.35 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 518.62 (ft./msl)
Well Bottom Elevation *457.84 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 30°F, Cloudy, SW winds e 10-15 mph
Turbidity: 1.53 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 18.35 - 2.03 = 16.32 (ft.)
Levels were taken on 12/16/22 @ 1100

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G31S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-6

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/16/22 Start Purge: 1205 End Purge: 1225
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.90

MEASUREMENTS

Well Diameter	<u>2.0</u>	(inches)	1st	2nd	Final																															
Stick Up	<u>2.58</u>	(ft)	pH <u>7.40</u>	<u>7.40</u>	<u>7.40</u>	(std.)																														
Ref. Measuring Pt.	<u>TIC</u>		SCT <u>123</u>	<u>123</u>	<u>1429</u>	(umhos/cm)																														
Well Elevation	<u>*535.73</u>	(ft./msl)	Temp. <u>12.08</u>	<u>12.10</u>	<u>12.10</u>	(°C)																														
Water Level	<u>24.99</u>	(ft.)	Well Stabilization / Recharge Grid																																	
Ground Water Elev.	<u>510.74</u>	(ft./msl)	<table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																	
Well Bottom Elevation	<u>*453.36</u>	(ft./msl)																																		

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 30°F, Snow Shower, SW winds @ 10-15 mph
Turbidity: 1.17 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 24.99 - 2.58 = 22.41 (ft)
Levels were taken on 12/16/22 @ 1200

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
 University Park, IL 60484-3182
 Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G31S Dup
 Facility: Midwest Generation-Joliet #9 CCR
 Job #: 500-226905 - 7

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
 Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
 Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: _____ Start Purge: _____ End Purge: _____
(2400 Hr. Clock)
 Water Volume in Casing (gallons): N/A Volume Purged (gallons): _____

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
 Stick Up 2.58 (ft) pH _____ (std.)
 Ref. Measuring Pt. TIC SC _____ (umhos/cm)
 Well Elevation *535.73 (ft./msl) Temp. _____ (°C)
 Water Level _____ (ft.) Well Stabilization / Recharge Grid
 Ground Water Elev. _____ (ft./msl)
 Well Bottom Elevation *453.36 (ft./msl)

COMMENTS

Sample Appearance/Odor: _____
 Weather Conditions: _____
 Turbidity: _____
 Other: *Reference Measurement
 Depth To Water from L.S. = _____
 Levels were taken on _____ @ _____

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G30S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-221905-8

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/19/22 Start Purge: 0900 End Purge: 0918
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.23

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.31 (ft) pH 7.79 7.80 7.80 (std.)
Ref. Measuring Pt. TIC SC 1,730 1,740 1,740 (umhos/cm)
Well Elevation *524.86 (ft./msl) Temp. 5.30 5.18 5.18 (°C)
Water Level 2.48 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 522.38 (ft./msl)
Well Bottom Elevation *462.58 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 16°F, Sunny, SW winds e 0-5 mph
Turbidity: 1.04 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 2.48 - 2.31 = 0.17 (ft.)
Levels were taken on 12/19/22 @ 0855

(Updated: 07/14/2022)

Sampler Name (Print): Noc Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G20S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-9

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/19/22 Start Purge: 1050 End Purge: 1108
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.12

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.78 (ft) pH 7.07 7.06 7.06 (std.)
Ref. Measuring Pt. TIC SC 643 645 645 (umhos/cm)
Well Elevation *580.87 (ft./msl) Temp. 4.40 4.39 4.39 (°C)
Water Level 72.26 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 508.61 (ft./msl)
Well Bottom Elevation *442.28 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 21°F, Sunny, Calm winds
Turbidity: 2.61 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 72.26 - 2.78 = 69.48 (ft.)
Levels were taken on 12/19/22 @ 1040

(Updated: 07/14/2022)

Sampler Name (Print): Noc Lopez Signature: [Signature]





Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R08S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-10

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/19/22 Start Purge: 1420 End Purge: 1434
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.63

MEASUREMENTS

Well Diameter	<u>2.0</u>	(inches)	1st	2nd	Final																					
Stick Up	<u>2.55</u>	(ft)	pH	<u>8.90</u>	<u>8.91</u>	<u>8.91</u> (std.)																				
Ref. Measuring Pt.	<u>TIC</u>		SC	<u>991</u>	<u>997</u>	<u>997</u> (umhos/cm)																				
Well Elevation	<u>*578.66</u>	(ft./msl)	Temp.	<u>11.36</u>	<u>11.33</u>	<u>11.33</u> (°C)																				
Water Level	<u>66.33</u>	(ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev.	<u>512.33</u>	(ft./msl)	<table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																							
Well Bottom Elevation	<u>*453.08</u>	(ft./msl)																								

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 27°F, Mostly Cloudy, Calm winds
Turbidity: 1.01 NTU
Other: *Reference Measurement (Well ID updated 11-25-15)
Depth To Water from L.S. = 66.33 - 2.55 = 63.78
Levels were taken on 12/19/22 @ 1410

(Updated: 07/14/2022)

Sampler Name (Print): Nbc Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T02S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-11

Type Sample: (circle one) Ground Water Surface Water Leachate Other: _____
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 12/20/22 Start Purge: 0905 End Purge: 0930
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.81

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.33 (ft) pH 7.53 7.49 7.49 (std.)
Ref. Measuring Pt. TIC SC 1230 1232 1232 (umhos/cm)
Well Elevation * 626.12 (ft./msl) Temp. 6.62 6.49 6.49 (°C)
Water Level 136.79 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 489.33 (ft./msl)
Well Bottom Elevation * 453.40 (ft./msl)

COMMENTS

Sample Appearance/Odor: Gray, Moderate Turbidity, No Odor
Weather Conditions: 28°F, Mostly Cloudy, S winds e 0-5 mph
Turbidity: 40.60 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 136.79 - 2.33 = 134.46 (ft.)
Levels were taken on 12/20/22 @ 0850
* Total Depth = 172.75

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T08S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-12

Type Sample: (circle one) Ground Water Surface Water Leachate Other: _____
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N) (N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N) (N)

PURGING INFORMATION

Purge Date: 12/20/22 Start Purge: 1050 End Purge: 1106
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.41

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.38 (ft) pH 7.84 7.85 7.85 (std.)
Ref. Measuring Pt. TIC SC 1411 1413 1413 (umhos/cm)
Well Elevation * 627.55 (ft./msl) Temp. 8.36 8.37 8.37 (°C)
Water Level 131.47 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 496.08 (ft./msl)
Well Bottom Elevation * 447.38 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, Strong Odor
Weather Conditions: 34°F, Cloudy, W winds @ 5-10 mph
Turbidity: 5.97 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 131.47 - 2.38 = 129.09 (ft.)
Levels were taken on 12/20/22 @ 1035.
* Total Deth = 180.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T01S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-13

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump Dedicated (Y/N)
Sampling _____ Bladder Pump Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/20/22 Start Purge: 1235 End Purge: 1252
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.22

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.48 (ft) pH 7.47 7.46 7.46 (std.)
Ref. Measuring Pt. TIC SC 1306 1301 1301 (umhos/cm)
Well Elevation * 621.84 (ft./msl) Temp. 7.99 7.97 7.97 (°C)
Water Level 126.62 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 495.22 (ft./msl)
Well Bottom Elevation * 451.46 (ft./msl)

COMMENTS

Sample Appearance/Odor: Tan, High Turbidity, Slight Odor
Weather Conditions: 32°F, Cloudy, NW winds @ 0-5 mph
Turbidity: 671 AU
Other: *Reference Measurement
Depth To Water from L.S. = 126.62 - 2.48 = 124.14 (ft.)
Levels were taken on 12/20/22 @ 1220
* Total Depth = 170.00

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G46S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-221905-14

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/20/22 Start Purge: 1410 End Purge: 1424
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.63

MEASUREMENTS

Well Diameter 4.0 (inches) 1st 2nd Final
Stick Up 2.70 (ft) pH 7.66 7.68 7.68 (std.)
Ref. Measuring Pt. TIC SC 1530 1530 1530 (umhos/cm)
Well Elevation *601.41 (ft./msl) Temp. 11.58 11.72 11.72 (°C)
Water Level 93.90 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 507.51 (ft./msl)
Well Bottom Elevation *453.62 (ft./msl)

COMMENTS

Sample Appearance/Odor: Tan, Moderate Turbidity, No Odor
Weather Conditions: 33°F, Cloudy, NW winds @ 0-5 mph
Turbidity: 77.90 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 93.90 - 2.70 = 91.20 (ft)
Levels were taken on 12/20/22 @ 1405

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T03S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-220905-15

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (N)
Sampling _____ Bladder Pump _____ Dedicated (N)

PURGING INFORMATION

Purge Date: 12/21/22 Start Purge: 0850 End Purge: 0904
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.36

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 3.08 (ft) pH 7.42 7.44 7.44 (std.)
Ref. Measuring Pt. TIC SC 1172 1175 1175 (umhos/cm)
Well Elevation * 629.85 (ft./msl) Temp. 10.59 10.55 10.55 (°C)
Water Level 140.69 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 489.16 (ft./msl)
Well Bottom Elevation * 456.70 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Slight Turbidity, No Odor
Weather Conditions: 22°F, Cloudy, N winds @ 0-5 mph
Turbidity: 2.03 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 140.69 - 3.08 = 137.61 (ft.)
Levels were taken on 12/21/22 @ 0845
* Total Depth = 172.95

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G44S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-16

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/21/22 Start Purge: 0938 End Purge: 0954
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.52

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd Final
Stick Up 2.18 (ft) pH 7.08 7.07 7.07 (std.)
Ref. Measuring Pt. TIC SC 1037 1040 1040 (umhos/cm)
Well Elevation *586.68 (ft./msl) Temp. 9.84 9.83 9.83 (°C)
Water Level 80.09 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 506.59 (ft./msl)
Well Bottom Elevation *455.11 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 23°F, Cloudy, Calm winds
Turbidity: 11.70 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 80.09 - 2.18 = 77.91 (ft)
Levels were taken on 12/21/22 @ 0930

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



Eurofins Chicago

2417 Bond St
 University Park, IL 60484-3182
 Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G45S
 Facility: Midwest Generation-Joliet #9 CCR
 Job #: 500-226905-17

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
 Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
 Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/21/22 Start Purge: 1038 End Purge: 1054
(2400 Hr. Clock)
 Water Volume in Casing (gallons): N/A Volume Purged (gallons): 1.03

MEASUREMENTS

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																					
Stick Up <u>2.97</u> (ft)	pH <u>7.11</u>	<u>7.12</u>	<u>7.12</u>	(std.)																				
Ref. Measuring Pt. <u>TIC</u>	SC <u>1230</u>	<u>1232</u>	<u>1232</u>	(umhos/cm)																				
Well Elevation <u>*603.80</u> (ft./msl)	Temp. <u>12.00</u>	<u>12.02</u>	<u>12.02</u>	(°C)																				
Water Level <u>67.78</u> (ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev. <u>536.02</u> (ft./msl)	<table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																							
Well Bottom Elevation <u>*471.05</u> (ft./msl)																								

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
 Weather Conditions: 25°F, Cloudy, Calm winds
 Turbidity: 2.04 NTU
 Other: *Reference Measurement
 Depth To Water from L.S. = 67.78 - 2.97 = 64.81 (ft)
 Levels were taken on 12/21/22 @ 1030

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G48S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-226905-18

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/21/22 Start Purge: 1132 End Purge: 1155
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 1.19

MEASUREMENTS

Well Diameter	<u>4.0</u>	(inches)	1st	2nd	Final																									
Stick Up	<u>2.45</u>	(ft)	pH <u>8.64</u>	<u>8.66</u>	<u>8.66</u>	(std.)																								
Ref. Measuring Pt.	<u>TIC</u>		SC <u>1344</u>	<u>1343</u>	<u>1343</u>	(umhos/cm)																								
Well Elevation	<u>*620.77</u>	(ft./msl)	Temp. <u>9.22</u>	<u>9.21</u>	<u>9.21</u>	(°C)																								
Water Level	<u>105.61</u>	(ft.)	Well Stabilization / Recharge Grid																											
Ground Water Elev.	<u>515.16</u>	(ft./msl)	<table border="1" style="width: 100%; height: 40px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																											
Well Bottom Elevation	<u>*468.32</u>	(ft./msl)																												

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 27°F, Cloudy, SE winds @ 0-5 mph
Turbidity: 3.73 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 105.61 - 2.45 = 103.16 (ft.)
Levels were taken on 12/21/22 @ 1125

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]





Environment Testing

Eurofins Chicago

2417 Bond St
University Park, IL 60484-3182
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G47S
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-220905-19

Type Sample: Ground Water Surface Water Leachate Other: _____
(circle one)
Equipment Used: Purging _____ Bladder Pump _____ Dedicated (Y/N)
Sampling _____ Bladder Pump _____ Dedicated (Y/N)

PURGING INFORMATION

Purge Date: 12/21/22 Start Purge: 1326 End Purge: 1346
(2400 Hr. Clock)
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

MEASUREMENTS

Well Diameter 4.0 (inches) 1st 2nd Final
Stick Up 2.50 (ft) pH 9.50 9.50 9.50 (std.)
Ref. Measuring Pt. TIC SC 1403 1404 1404 (umhos/cm)
Well Elevation *612.23 (ft./msl) Temp. 9.71 9.63 9.63 (°C)
Water Level 96.57 (ft.) Well Stabilization / Recharge Grid
Ground Water Elev. 515.66 (ft./msl)
Well Bottom Elevation *459.84 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, clear, slight odor
Weather Conditions: 30°F, cloudy, E winds @ 0-5 mph
Turbidity: 0.76 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 96.57 - 2.50 = 94.07 (ft)
Levels were taken on 12/21/22 @ 1320

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez Signature: [Signature]



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: John Niedzwiecki
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 1/20/2023 8:04:50 AM

JOB DESCRIPTION

Joliet #9 (Quarry) CCR

JOB NUMBER

500-226905-2

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
1/20/2023 8:04:50 AM

Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570



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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Job ID: 500-226905-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-226905-2

Comments

No additional comments.

Receipt

The samples were received on 12/15/2022 2:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.0° C, 0.4° C, 1.4° C, 1.5° C, 3.0° C and 4.8° C.

RAD

Methods 903.0, RA-06-RC: Radium-226 batch 594431

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

T09S (500-226905-1), T06S (500-226905-2), T05S (500-226905-3), G33S (500-226905-4), R32S (500-226905-5), G31S (500-226905-6), DUP (500-226905-7), (LCS 160-594431/2-A), (MB 160-594431/1-A) and (500-226905-E-1-A DU)

Method 903.0: Radium-226 prep batch 160-594824:

The following sample had Ba carrier recovery below the 30% QC limit: T01S (500-226905-13). The detection limit was achieved, so the laboratory does not believe this excursion adversely affects the data. Therefore, the data have been reported with this narrative.

Method 903.0: Radium-226 prep batch 160-594824:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. G30S (500-226905-8), G20S (500-226905-9), R08S (500-226905-10), T02S (500-226905-11), T08S (500-226905-12), T01S (500-226905-13), G46S (500-226905-14), T03S (500-226905-15), G44S (500-226905-16), G45S (500-226905-17), G48S (500-226905-18), G47S (500-226905-19), (LCS 160-594824/2-A), (MB 160-594824/1-A) and (500-226905-C-8-A DU)

Method 904.0: Radium-228 batch 594438

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: G33S (500-226905-4). Analytical results are reported with the detection limit achieved.

Methods 904.0, RA-06-RC: Radium-228 batch 594438

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

T09S (500-226905-1), T06S (500-226905-2), T05S (500-226905-3), G33S (500-226905-4), R32S (500-226905-5), G31S (500-226905-6), DUP (500-226905-7), (LCS 160-594438/2-A), (MB 160-594438/1-A) and (500-226905-E-1-B DU)

Method 904.0: Radium-228 batch 594830

The detection goal was not met for the following sample(s). Samples were prepped at a reduced volume due to the presence of matrix interferences: T02S (500-226905-11) and T01S (500-226905-13). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 batch 594830

The Ba Carrier recovery is outside the lower control limit (40%) for the following sample: T01S (500-226905-13). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 904.0: Radium-228 batch 594830

Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Job ID: 500-226905-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

G30S (500-226905-8), G20S (500-226905-9), R08S (500-226905-10), T02S (500-226905-11), T08S (500-226905-12), T01S (500-226905-13), G46S (500-226905-14), T03S (500-226905-15), G44S (500-226905-16), G45S (500-226905-17), G48S (500-226905-18), G47S (500-226905-19), (LCS 160-594830/2-A), (MB 160-594830/1-A) and (500-226905-C-8-B DU)

Method PrecSep_0:

Method PrecSep_0:

Method PrecSep_0: Radium 228 prep batch 160-594830

The barium carrier recovery is outside lower control limit (40%) for the following sample: T01S (500-226905-13). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method PrecSep-21:

Method PrecSep-21:

Method PrecSep-21: Radium 226 prep batch 160-59482

The barium carrier recovery is outside lower control limit (40%) for the following sample: T01S (500-226905-13). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-226905-1	T09S	Water	12/15/22 09:10	12/15/22 14:35
500-226905-2	T06S	Water	12/15/22 10:38	12/15/22 14:35
500-226905-3	T05S	Water	12/15/22 12:46	12/15/22 14:35
500-226905-4	G33S	Water	12/16/22 10:02	12/16/22 13:35
500-226905-5	R32S	Water	12/16/22 11:24	12/16/22 13:35
500-226905-6	G31S	Water	12/16/22 12:25	12/16/22 13:35
500-226905-7	DUP	Water	12/16/22 12:25	12/16/22 13:35
500-226905-8	G30S	GW	12/19/22 09:18	12/19/22 15:48
500-226905-9	G20S	GW	12/19/22 11:08	12/19/22 15:48
500-226905-10	R08S	GW	12/19/22 14:34	12/19/22 15:48
500-226905-11	T02S	Water	12/20/22 09:30	12/20/22 15:40
500-226905-12	T08S	Water	12/20/22 11:06	12/20/22 15:40
500-226905-13	T01S	Water	12/20/22 12:52	12/20/22 15:40
500-226905-14	G46S	Water	12/20/22 14:24	12/20/22 15:40
500-226905-15	T03S	Water	12/21/22 09:04	12/21/22 14:58
500-226905-16	G44S	Water	12/21/22 09:54	12/21/22 14:58
500-226905-17	G45S	Water	12/21/22 10:54	12/21/22 14:58
500-226905-18	G48S	Water	12/21/22 11:55	12/21/22 14:58
500-226905-19	G47S	Water	12/21/22 13:46	12/21/22 14:58



Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: T09S

Lab Sample ID: 500-226905-1

Date Collected: 12/15/22 09:10

Matrix: Water

Date Received: 12/15/22 14:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.82		0.283	0.327	1.00	0.185	pCi/L	12/21/22 10:33	01/17/23 21:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					12/21/22 10:33	01/17/23 21:53	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.26		0.488	0.501	1.00	0.641	pCi/L	12/21/22 11:02	01/12/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					12/21/22 11:02	01/12/23 12:14	1
Y Carrier	83.0		40 - 110					12/21/22 11:02	01/12/23 12:14	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.08		0.564	0.598	5.00	0.641	pCi/L		01/19/23 12:15	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: T06S

Lab Sample ID: 500-226905-2

Date Collected: 12/15/22 10:38

Matrix: Water

Date Received: 12/15/22 14:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.930		0.193	0.211	1.00	0.129	pCi/L	12/21/22 10:33	01/17/23 21:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					12/21/22 10:33	01/17/23 21:53	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.839		0.410	0.418	1.00	0.567	pCi/L	12/21/22 11:02	01/12/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					12/21/22 11:02	01/12/23 12:15	1
Y Carrier	85.6		40 - 110					12/21/22 11:02	01/12/23 12:15	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.77		0.453	0.468	5.00	0.567	pCi/L		01/19/23 12:15	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: T05S

Lab Sample ID: 500-226905-3

Date Collected: 12/15/22 12:46

Matrix: Water

Date Received: 12/15/22 14:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.207		0.134	0.135	1.00	0.188	pCi/L	12/21/22 10:33	01/17/23 21:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					12/21/22 10:33	01/17/23 21:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.616	U	0.496	0.499	1.00	0.772	pCi/L	12/21/22 11:02	01/12/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					12/21/22 11:02	01/12/23 12:15	1
Y Carrier	81.1		40 - 110					12/21/22 11:02	01/12/23 12:15	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.823		0.514	0.517	5.00	0.772	pCi/L		01/19/23 12:15	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: G33S

Lab Sample ID: 500-226905-4

Date Collected: 12/16/22 10:02

Matrix: Water

Date Received: 12/16/22 13:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.47		0.409	0.429	1.00	0.368	pCi/L	12/21/22 10:33	01/17/23 21:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.1		40 - 110					12/21/22 10:33	01/17/23 21:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.606	U G	0.939	0.940	1.00	1.60	pCi/L	12/21/22 11:02	01/12/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.1		40 - 110					12/21/22 11:02	01/12/23 12:15	1
Y Carrier	79.6		40 - 110					12/21/22 11:02	01/12/23 12:15	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.07		1.02	1.03	5.00	1.60	pCi/L		01/19/23 12:15	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: R32S

Lab Sample ID: 500-226905-5

Date Collected: 12/16/22 11:24

Matrix: Water

Date Received: 12/16/22 13:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.13		0.262	0.281	1.00	0.193	pCi/L	12/21/22 10:33	01/17/23 21:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					12/21/22 10:33	01/17/23 21:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.929		0.548	0.554	1.00	0.782	pCi/L	12/21/22 11:02	01/12/23 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					12/21/22 11:02	01/12/23 12:16	1
Y Carrier	85.2		40 - 110					12/21/22 11:02	01/12/23 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.06		0.607	0.621	5.00	0.782	pCi/L		01/19/23 12:15	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: G31S

Lab Sample ID: 500-226905-6

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.18		0.288	0.348	1.00	0.147	pCi/L	12/21/22 10:33	01/17/23 21:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		40 - 110					12/21/22 10:33	01/17/23 21:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.91		0.515	0.544	1.00	0.518	pCi/L	12/21/22 11:02	01/12/23 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		40 - 110					12/21/22 11:02	01/12/23 12:16	1
Y Carrier	84.9		40 - 110					12/21/22 11:02	01/12/23 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	4.10		0.590	0.646	5.00	0.518	pCi/L		01/19/23 12:15	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: DUP

Lab Sample ID: 500-226905-7

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.78		0.267	0.311	1.00	0.135	pCi/L	12/21/22 10:33	01/17/23 21:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					12/21/22 10:33	01/17/23 21:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.922		0.445	0.453	1.00	0.614	pCi/L	12/21/22 11:02	01/12/23 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					12/21/22 11:02	01/12/23 12:16	1
Y Carrier	87.5		40 - 110					12/21/22 11:02	01/12/23 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.70		0.519	0.549	5.00	0.614	pCi/L		01/19/23 12:15	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: G30S

Lab Sample ID: 500-226905-8

Date Collected: 12/19/22 09:18

Matrix: GW

Date Received: 12/19/22 15:48

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.898		0.241	0.254	1.00	0.216	pCi/L	12/27/22 11:35	01/19/23 09:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.2		40 - 110					12/27/22 11:35	01/19/23 09:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.937	U	0.635	0.640	1.00	0.955	pCi/L	12/27/22 12:44	01/13/23 11:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.2		40 - 110					12/27/22 12:44	01/13/23 11:34	1
Y Carrier	81.1		40 - 110					12/27/22 12:44	01/13/23 11:34	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.83		0.679	0.689	5.00	0.955	pCi/L		01/19/23 22:41	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: G20S

Lab Sample ID: 500-226905-9

Date Collected: 12/19/22 11:08

Matrix: GW

Date Received: 12/19/22 15:48

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.47		0.233	0.268	1.00	0.136	pCi/L	12/27/22 11:35	01/19/23 09:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					12/27/22 11:35	01/19/23 09:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.61		0.491	0.513	1.00	0.586	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	82.6		40 - 110					12/27/22 12:44	01/13/23 11:36	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.08		0.543	0.579	5.00	0.586	pCi/L		01/19/23 22:41	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: R08S

Lab Sample ID: 500-226905-10

Date Collected: 12/19/22 14:34

Matrix: GW

Date Received: 12/19/22 15:48

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.733		0.165	0.178	1.00	0.112	pCi/L	12/27/22 11:35	01/19/23 09:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					12/27/22 11:35	01/19/23 09:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.17		0.480	0.492	1.00	0.659	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	83.4		40 - 110					12/27/22 12:44	01/13/23 11:36	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.90		0.508	0.523	5.00	0.659	pCi/L		01/19/23 22:41	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: T02S

Lab Sample ID: 500-226905-11

Date Collected: 12/20/22 09:30

Matrix: Water

Date Received: 12/20/22 15:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.41		0.413	0.432	1.00	0.363	pCi/L	12/27/22 11:35	01/19/23 09:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	54.7		40 - 110					12/27/22 11:35	01/19/23 09:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.27	G	1.24	1.25	1.00	1.76	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	54.7		40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	82.2		40 - 110					12/27/22 12:44	01/13/23 11:36	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.68		1.31	1.32	5.00	1.76	pCi/L		01/19/23 22:41	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: T08S

Lab Sample ID: 500-226905-12

Date Collected: 12/20/22 11:06

Matrix: Water

Date Received: 12/20/22 15:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.296		0.128	0.131	1.00	0.149	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					12/27/22 11:35	01/19/23 09:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.249	U	0.343	0.344	1.00	0.577	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	81.1		40 - 110					12/27/22 12:44	01/13/23 11:36	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.546	U	0.366	0.368	5.00	0.577	pCi/L		01/19/23 22:41	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: T01S

Lab Sample ID: 500-226905-13

Date Collected: 12/20/22 12:52

Matrix: Water

Date Received: 12/20/22 15:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.49		0.638	0.676	1.00	0.552	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	37.4	X	40 - 110					12/27/22 11:35	01/19/23 09:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.517	U G	1.48	1.48	1.00	2.62	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	37.4	X	40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	83.0		40 - 110					12/27/22 12:44	01/13/23 11:36	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.00		1.61	1.63	5.00	2.62	pCi/L		01/19/23 22:41	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: G46S

Lab Sample ID: 500-226905-14

Date Collected: 12/20/22 14:24

Matrix: Water

Date Received: 12/20/22 15:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.95		0.284	0.334	1.00	0.161	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.7		40 - 110					12/27/22 11:35	01/19/23 09:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.82		0.605	0.659	1.00	0.582	pCi/L	12/27/22 12:44	01/13/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.7		40 - 110					12/27/22 12:44	01/13/23 11:36	1
Y Carrier	88.2		40 - 110					12/27/22 12:44	01/13/23 11:36	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	4.78		0.668	0.739	5.00	0.582	pCi/L		01/19/23 22:41	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: T03S

Lab Sample ID: 500-226905-15

Date Collected: 12/21/22 09:04

Matrix: Water

Date Received: 12/21/22 14:58

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.706		0.181	0.192	1.00	0.165	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.4		40 - 110					12/27/22 11:35	01/19/23 09:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.452	U	0.393	0.395	1.00	0.618	pCi/L	12/27/22 12:44	01/13/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.4		40 - 110					12/27/22 12:44	01/13/23 11:39	1
Y Carrier	80.4		40 - 110					12/27/22 12:44	01/13/23 11:39	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.16		0.433	0.439	5.00	0.618	pCi/L		01/19/23 22:41	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: G44S

Lab Sample ID: 500-226905-16

Date Collected: 12/21/22 09:54

Matrix: Water

Date Received: 12/21/22 14:58

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.964		0.266	0.280	1.00	0.223	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	44.1		40 - 110					12/27/22 11:35	01/19/23 09:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.881	U	0.658	0.663	1.00	0.998	pCi/L	12/27/22 12:44	01/13/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	44.1		40 - 110					12/27/22 12:44	01/13/23 11:39	1
Y Carrier	81.5		40 - 110					12/27/22 12:44	01/13/23 11:39	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.84		0.710	0.720	5.00	0.998	pCi/L		01/19/23 22:41	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: G45S

Lab Sample ID: 500-226905-17

Date Collected: 12/21/22 10:54

Matrix: Water

Date Received: 12/21/22 14:58

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.66		0.257	0.297	1.00	0.148	pCi/L	12/27/22 11:35	01/19/23 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		40 - 110					12/27/22 11:35	01/19/23 09:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.24		0.489	0.502	1.00	0.620	pCi/L	12/27/22 12:44	01/13/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		40 - 110					12/27/22 12:44	01/13/23 11:39	1
Y Carrier	76.3		40 - 110					12/27/22 12:44	01/13/23 11:39	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.91		0.552	0.583	5.00	0.620	pCi/L		01/19/23 22:41	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: G48S

Lab Sample ID: 500-226905-18

Date Collected: 12/21/22 11:55

Matrix: Water

Date Received: 12/21/22 14:58

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.628		0.166	0.175	1.00	0.148	pCi/L	12/27/22 11:35	01/19/23 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					12/27/22 11:35	01/19/23 15:39	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.489	U	0.359	0.362	1.00	0.544	pCi/L	12/27/22 12:44	01/13/23 11:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					12/27/22 12:44	01/13/23 11:39	1
Y Carrier	81.1		40 - 110					12/27/22 12:44	01/13/23 11:39	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.12		0.396	0.402	5.00	0.544	pCi/L		01/19/23 22:41	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: G47S

Lab Sample ID: 500-226905-19

Date Collected: 12/21/22 13:46

Matrix: Water

Date Received: 12/21/22 14:58

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.469		0.149	0.155	1.00	0.149	pCi/L	12/27/22 11:35	01/19/23 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					12/27/22 11:35	01/19/23 15:39	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.395	U	0.400	0.402	1.00	0.644	pCi/L	12/27/22 12:44	01/13/23 11:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					12/27/22 12:44	01/13/23 11:40	1
Y Carrier	72.1		40 - 110					12/27/22 12:44	01/13/23 11:40	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.864		0.427	0.431	5.00	0.644	pCi/L		01/19/23 22:41	1

Definitions/Glossary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Rad

Prep Batch: 594431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	PrecSep-21	
500-226905-2	T06S	Total/NA	Water	PrecSep-21	
500-226905-3	T05S	Total/NA	Water	PrecSep-21	
500-226905-4	G33S	Total/NA	Water	PrecSep-21	
500-226905-5	R32S	Total/NA	Water	PrecSep-21	
500-226905-6	G31S	Total/NA	Water	PrecSep-21	
500-226905-7	DUP	Total/NA	Water	PrecSep-21	
MB 160-594431/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-594431/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-226905-1 DU	T09S	Total/NA	Water	PrecSep-21	

Prep Batch: 594438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-1	T09S	Total/NA	Water	PrecSep_0	
500-226905-2	T06S	Total/NA	Water	PrecSep_0	
500-226905-3	T05S	Total/NA	Water	PrecSep_0	
500-226905-4	G33S	Total/NA	Water	PrecSep_0	
500-226905-5	R32S	Total/NA	Water	PrecSep_0	
500-226905-6	G31S	Total/NA	Water	PrecSep_0	
500-226905-7	DUP	Total/NA	Water	PrecSep_0	
MB 160-594438/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-594438/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-226905-1 DU	T09S	Total/NA	Water	PrecSep_0	

Prep Batch: 594824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-8	G30S	Total/NA	GW	PrecSep-21	
500-226905-9	G20S	Total/NA	GW	PrecSep-21	
500-226905-10	R08S	Total/NA	GW	PrecSep-21	
500-226905-11	T02S	Total/NA	Water	PrecSep-21	
500-226905-12	T08S	Total/NA	Water	PrecSep-21	
500-226905-13	T01S	Total/NA	Water	PrecSep-21	
500-226905-14	G46S	Total/NA	Water	PrecSep-21	
500-226905-15	T03S	Total/NA	Water	PrecSep-21	
500-226905-16	G44S	Total/NA	Water	PrecSep-21	
500-226905-17	G45S	Total/NA	Water	PrecSep-21	
500-226905-18	G48S	Total/NA	Water	PrecSep-21	
500-226905-19	G47S	Total/NA	Water	PrecSep-21	
MB 160-594824/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-594824/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-226905-8 DU	G30S	Total/NA	GW	PrecSep-21	

Prep Batch: 594830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-8	G30S	Total/NA	GW	PrecSep_0	
500-226905-9	G20S	Total/NA	GW	PrecSep_0	
500-226905-10	R08S	Total/NA	GW	PrecSep_0	
500-226905-11	T02S	Total/NA	Water	PrecSep_0	
500-226905-12	T08S	Total/NA	Water	PrecSep_0	
500-226905-13	T01S	Total/NA	Water	PrecSep_0	
500-226905-14	G46S	Total/NA	Water	PrecSep_0	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Rad (Continued)

Prep Batch: 594830 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-226905-15	T03S	Total/NA	Water	PrecSep_0	
500-226905-16	G44S	Total/NA	Water	PrecSep_0	
500-226905-17	G45S	Total/NA	Water	PrecSep_0	
500-226905-18	G48S	Total/NA	Water	PrecSep_0	
500-226905-19	G47S	Total/NA	Water	PrecSep_0	
MB 160-594830/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-594830/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-226905-8 DU	G30S	Total/NA	GW	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-594431/1-A
Matrix: Water
Analysis Batch: 597152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594431

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.05159	U	0.0741	0.0742	1.00	0.126	pCi/L	12/21/22 10:33	01/17/23 21:53	1
Carrier	MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	MB Qualifier		40 - 110						
	93.9					12/21/22 10:33	01/17/23 21:53	1		

Lab Sample ID: LCS 160-594431/2-A
Matrix: Water
Analysis Batch: 597152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594431

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.70		1.15	1.00	0.142	pCi/L	94	75 - 125
Carrier	LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	LCS Qualifier		40 - 110					
	86.6					12/21/22 10:33	01/17/23 21:53	1	

Lab Sample ID: 500-226905-1 DU
Matrix: Water
Analysis Batch: 597152

Client Sample ID: T09S
Prep Type: Total/NA
Prep Batch: 594431

Analyte	Sample		DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Uncert. (2σ+/-)					
Radium-226	1.82		1.966	0.339	1.00	0.157	pCi/L	0.22	1
Carrier	DU		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	DU Qualifier		40 - 110					
	87.4					12/21/22 10:33	01/17/23 21:53	1	

Lab Sample ID: MB 160-594824/1-A
Matrix: Water
Analysis Batch: 597550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594824

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01567	U	0.0640	0.0640	1.00	0.135	pCi/L	12/27/22 11:35	01/19/23 09:54	1
Carrier	MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	MB Qualifier		40 - 110						
	94.4					12/27/22 11:35	01/19/23 09:54	1		

Lab Sample ID: LCS 160-594824/2-A
Matrix: Water
Analysis Batch: 597550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594824

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.08		1.17	1.00	0.140	pCi/L	98	75 - 125

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-594824/2-A
Matrix: Water
Analysis Batch: 597550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594824

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.5		40 - 110

Lab Sample ID: 500-226905-8 DU
Matrix: GW
Analysis Batch: 597550

Client Sample ID: G30S
Prep Type: Total/NA
Prep Batch: 594824

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	0.898		0.8654		0.225	1.00	0.173	pCi/L	0.07	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	65.1		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-594438/1-A
Matrix: Water
Analysis Batch: 596764

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594438

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110	12/21/22 11:02	01/12/23 12:14	1
Y Carrier	86.0		40 - 110	12/21/22 11:02	01/12/23 12:14	1

Lab Sample ID: LCS 160-594438/2-A
Matrix: Water
Analysis Batch: 596764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594438

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-228	8.28	8.083		1.17	1.00	0.498	pCi/L	98	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	86.6		40 - 110
Y Carrier	86.0		40 - 110

Lab Sample ID: 500-226905-1 DU
Matrix: Water
Analysis Batch: 596764

Client Sample ID: T09S
Prep Type: Total/NA
Prep Batch: 594438

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-228	1.26		1.554		0.515	1.00	0.590	pCi/L	0.29	1

Euromins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-226905-1 DU
Matrix: Water
Analysis Batch: 596764

Client Sample ID: T09S
Prep Type: Total/NA
Prep Batch: 594438

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.4		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: MB 160-594830/1-A
Matrix: Water
Analysis Batch: 596834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594830

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	-0.05559	U	0.253	0.253	1.00	0.299	pCi/L	12/27/22 12:44	01/13/23 11:34		1	

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	94.4		40 - 110	12/27/22 12:44	01/13/23 11:34	1
Y Carrier	82.2		40 - 110	12/27/22 12:44	01/13/23 11:34	1

Lab Sample ID: LCS 160-594830/2-A
Matrix: Water
Analysis Batch: 596834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594830

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.28	8.574		1.20	1.00	0.297	pCi/L	104	75 - 125	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.5		40 - 110
Y Carrier	82.2		40 - 110

Lab Sample ID: 500-226905-8 DU
Matrix: GW
Analysis Batch: 596834

Client Sample ID: G30S
Prep Type: Total/NA
Prep Batch: 594830

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
	Result	Qual							RER	Limit
Radium-228	0.937	U	1.577		0.580	1.00	0.677	pCi/L	0.53	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	65.1		40 - 110
Y Carrier	82.6		40 - 110

Chain of Custody Record

522970




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager		Site Contact:		Date:		COC No			
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact:		Carrier:		_____ of _____ COCs			
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>TDS, F, Cl, SO4</i> <i>Metals 14 elements + Hg</i> <i>Combined 226/228</i> <i>Radium 228</i> <i>Radium 226</i>		 500-226905 COC		Sampler			
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only.		Walk-in Client	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling		Job / SDG No	
Project Name <i>Joliet #9 CCR</i>								500-226905			
Site <i>4A22 GW + Turbidity</i>											
P O #								Sample Specific Notes			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.						
<i>4</i> <i>5</i> <i>6</i> <i>7</i> G335	<i>12/10/22</i>	<i>1002</i>		<i>W</i>	<i>5</i>						
R325	<i>12/16/22</i>	<i>1124</i>		<i>W</i>	<i>5</i>						
G315	<i>12/16/22</i>	<i>1225</i>		<i>W</i>	<i>5</i>						
DUP of G315	<i>12/16/22</i>	<i>1225</i>		<i>W</i>	<i>5</i>						
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown											
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>4.0-3.0</i> Corr'd _____		Therm ID No _____					
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/16/22 e 1335</i>		Received by:		Company			
Relinquished by		Company		Date/Time		Received by:		Company			
Relinquished by		Company		Date/Time		Received in Laboratory by: <i>[Signature]</i>		Company <i>EETA</i>			
								Date/Time <i>12/16/22 1335</i>			

Chain of Custody Record

522972




Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager		Site Contact		Date		COC No	
Comp ny Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) <i>TDS, FI, CI, SO4 Radium 228 Radium 226 Combined 226/228 Metals 14 elements + Hg</i>		 500-226905 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client	
Project Name <i>Joliet #9 CCR</i>								Lab Sampling	
Site <i>4022 6W + Turbidity</i>								Job / SDG No	
P O #								<i>500-226905</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>11 TO2S</i>		<i>12/20/22</i>	<i>0930</i>		<i>W</i>	<i>5</i>			
<i>12 TO8S</i>		<i>12/20/22</i>	<i>1106</i>		<i>W</i>	<i>5</i>			
<i>13 TO1S</i>		<i>12/20/22</i>	<i>1252</i>		<i>W</i>	<i>5</i>			
<i>14 G46S</i>		<i>12/20/22</i>	<i>1424</i>		<i>W</i>	<i>5</i>			
Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd <i>5.8</i> Corr'd <i>4.8</i>		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/20/22 1540</i>		Received by _____		Company _____	
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____	
Relinquished by _____		Company _____		Date/Time _____		Received by <i>[Signature]</i>		Company <i>EETA</i>	
								Date/Time <i>12/20/22 1540</i>	

Chain of Custody Record

522973



Environment Testing
TestAmerica

TAL-8210

Address _____

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager			Site Contact		Date		COC No	
Company Name <i>Midwest Generation ENEC</i>		Email			Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time			Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>TDS, F, Cl, SO4</i> <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i>		500-226905 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							For Lab Use Only:	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							Walk-in Client	
Project Name <i>Joliet #9 CCR</i>									Lab Sampling	
Site <i>4022 GW + Turbidity</i>									Job / SDG No	
P O #							<i>500-226905</i>		Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.				
<i>15 TOSS</i>		<i>12/21/22</i>	<i>0904</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	
<i>16 G44S</i>		<i>12/21/22</i>	<i>0954</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	
<i>17 G45S</i>		<i>12/21/22</i>	<i>1054</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	
<i>18 G48S</i>		<i>12/21/22</i>	<i>1155</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	
<i>19 G47S</i>		<i>12/21/22</i>	<i>1346</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other										
Possible Hazard Identification. Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>0.2 20.0</i> Corr'd <i>0.6 20.4</i>		Therm ID No				
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/21/22 1458</i>		Received by <i>[Signature]</i>		Company		Date/Time
Relinquished by		Company		Date/Time		Received by		Company		Date/Time
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/21/22 1458</i>

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-168691.1									
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	Page: Page 1 of 1									
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-226905-1									
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 1/8/2023	Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 903.0/PreSep_21 Standard Target List <input checked="" type="checkbox"/> 904.0/PreSep_0 Standard Target List <input checked="" type="checkbox"/> Ra228Ra228_GFPc									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):										
Email:		PO #:										
Project Name: Joliet #9 (Quarry) CCR		WO #:										
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Project #: 50011504	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:									
Sample Date		SSOW#:										
Sample Time		Matrix (Weaver, Sealed, Onmetal, BT, Tissue, A+Air)										
Sample Type (C=comp, G=grab)		Preservation Code:										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Weaver, Sealed, Onmetal, BT, Tissue, A+Air)	Preservation Code:	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>	903.0/PreSep_21 Standard Target List <input checked="" type="checkbox"/>	904.0/PreSep_0 Standard Target List <input checked="" type="checkbox"/>	Ra228Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
G33S (500-226905-4)	12/16/22	10:02 Central		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
R32S (500-226905-5)	12/16/22	11:24 Central		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
G31S (500-226905-6)	12/16/22	12:25 Central		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
G31S DUP (500-226905-7)	12/16/22	12:25 Central		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *[Signature]* Date/Time: 12/16/22 1400 Company
 Relinquished by: **FED EX** Date/Time: 12/19/22 8:25 Company **GRSRL**
 Relinquished by: _____ Date/Time: _____ Company

Custody Seals Intact: Yes No Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	COC No: 500-168820-1	
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	Page: 1 of 1	
Company: TestAmerica Laboratories, Inc.		State of Origin: Illinois	Job #: 500-226905-1	
Address: 13715 Rider Trail North,		Preservation Codes: A - HCL B - NaOH N - None O - AsNaO2 C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water W - pH 4-5 K - EDTA L - EDA Z - other (specify) Other:		
City: Earth City		Analysis Requested		
State, Zip: MO, 63045		Total Number of Containers		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Field Filtered Sample (Yes or No)		
Email:		Perform MS/MSD (Yes or No)		
Project #: 50011504		903.0/PrecSep_21 Standard Target List		
Site: NRG Midwest Generation LSQ Joliet #9 CCR		904.0/PrecSep_0 Standard Target List		
Due Date Requested: 1/8/2023		Ra26Ra228 GFC		
TAT Requested (days):		Special Instructions/Note:		
PO #:		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		
WO #:		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		
Project Name: Joliet #9 (Quarry) CCR		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		
SSOW#:		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		
Sample Identification - Client ID (Lab ID)		Total Number of Containers		
G30S (500-226905-8)	Sample Date: 12/19/22	Sample Time: 09:18 Central	Sample Type (C=Comp, G=grab): Water	3
G20S (500-226905-9)	Sample Date: 12/19/22	Sample Time: 11:08 Central	Sample Type (C=Comp, G=grab): Water	3
R08S (500-226905-10)	Sample Date: 12/19/22	Sample Time: 14:34 Central	Sample Type (C=Comp, G=grab): Water	3
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>				
Possible Hazard Identification				
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:				
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2				
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____ Relinquished by: _____ Date/Time: 12/20/22 1500 Received by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: DEC 22 2022 1010 Company: Eurofins Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Company: _____				
Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks:				



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM:		COC No:	
Shipping/Receiving		Mockler, Diana J		500-168825-1		Page:	
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@et.eurofins.com		Illinois		Page 1 of 1	
Address: 13715 Rider Trail North,		Accreditations Required (See note):		Job #:		500-226905-1	
City: Earth City		NELAP - Illinois		Preservation Codes:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (Specify)	
State, Zip: MO, 63045		Due Date Requested: 1/8/2023		Analysis Requested		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):		Field Filtered Sample (Yes or No)		Other:	
Email:		PO #:		903.0/PrecSep_21 Standard Target List		Total Number of Containers	
Project #: 50011504		WO #:		904.0/PrecSep_0 Standard Target List		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		SSOW#:		Perform MS/MSD (Yes or No)		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
T02S (500-226905-11)		12/20/22		09:30 Central		Water	
T08S (500-226905-12)		12/20/22		11:06 Central		Water	
T01S (500-226905-13)		12/20/22		12:52 Central		Water	
G46S (500-226905-14)		12/20/22		14:24 Central		Water	
Special Instructions/Note:		Matrix (W=water, S=solid, O=water/oil, BT=tissue, A=Air)		Preservation Code:		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
						Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
						Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
						Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: *John Smith* Date/Time: 12/20/22 1600 Company: FEDEX
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____
 Received by: *[Signature]* Date/Time: DEC 22 2022 1010 Company: Eurofins
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-168879.1		
Client Contact: Diana.Mockler@et.eurofins.com		E-Mail: Diana.Mockler@et.eurofins.com		Page: Page 1 of 1		
Shipping/Receiving		State of Origin: Illinois		Job #: 500-226905-1		
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (Specify)		
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 1/8/2023		Analysis Requested		
City: Earth City		TAT Requested (days):		Total Number of Containers		
State, Zip: MO, 63045		PO #:		3		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		3		
Email:		Project #: 50011504		3		
Site: NRG Midwest Generation LSQ Joliet #9 CCR		SSOW#:		3		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wast/oil, BT=tissue, AA=)	Preservation Code:	Special Instructions/Note:
T03S (500-226905-15)	12/21/22	09:04 Central		Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G44S (500-226905-16)	12/21/22	09:54 Central		Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G45S (500-226905-17)	12/21/22	10:54 Central		Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G48S (500-226905-18)	12/21/22	11:55 Central		Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G47S (500-226905-19)	12/21/22	13:46 Central		Water		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>						
<p>Possible Hazard Identification <input type="checkbox"/> Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 Empty Kit Relinquished by: _____ Date: _____ Time: _____ Relinquished by: <i>[Signature]</i> Date/Time: 12/22/22 16:10 Company: FEDEX Relinquished by: _____ Date/Time: _____ Company: FEDEX Relinquished by: _____ Date/Time: _____ Company: _____</p>						
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:</p>						
<p>Cooler Temperature(s) °C and Other Remarks:</p>						



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-226905-2

Login Number: 226905

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4,3.0,1.5,4.8,0.0,0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-226905-2

Login Number: 226905

List Number: 2

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 12/19/22 05:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-226905-2

Login Number: 226905

List Number: 3

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 12/22/22 11:15 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: T09S

Lab Sample ID: 500-226905-1

Date Collected: 12/15/22 09:10

Matrix: Water

Date Received: 12/15/22 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597152	FLC	EET SL	01/17/23 21:53
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:14
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: T06S

Lab Sample ID: 500-226905-2

Date Collected: 12/15/22 10:38

Matrix: Water

Date Received: 12/15/22 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597152	FLC	EET SL	01/17/23 21:53
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:15
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: T05S

Lab Sample ID: 500-226905-3

Date Collected: 12/15/22 12:46

Matrix: Water

Date Received: 12/15/22 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597153	FLC	EET SL	01/17/23 21:55
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:15
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: G33S

Lab Sample ID: 500-226905-4

Date Collected: 12/16/22 10:02

Matrix: Water

Date Received: 12/16/22 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597153	FLC	EET SL	01/17/23 21:56
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:15
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: R32S

Lab Sample ID: 500-226905-5

Date Collected: 12/16/22 11:24

Matrix: Water

Date Received: 12/16/22 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597153	FLC	EET SL	01/17/23 21:56
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:16
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: G31S

Lab Sample ID: 500-226905-6

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597153	FLC	EET SL	01/17/23 21:56
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:16
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: DUP

Lab Sample ID: 500-226905-7

Date Collected: 12/16/22 12:25

Matrix: Water

Date Received: 12/16/22 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594431	DJP	EET SL	12/21/22 10:33
Total/NA	Analysis	903.0		1	597153	FLC	EET SL	01/17/23 21:56
Total/NA	Prep	PrecSep_0			594438	DJP	EET SL	12/21/22 11:02
Total/NA	Analysis	904.0		1	596764	FLC	EET SL	01/12/23 12:16
Total/NA	Analysis	Ra226_Ra228		1	597491	SCB	EET SL	01/19/23 12:15

Client Sample ID: G30S

Lab Sample ID: 500-226905-8

Date Collected: 12/19/22 09:18

Matrix: GW

Date Received: 12/19/22 15:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:55
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:34
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: G20S

Date Collected: 12/19/22 11:08

Date Received: 12/19/22 15:48

Lab Sample ID: 500-226905-9

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:55
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: R08S

Date Collected: 12/19/22 14:34

Date Received: 12/19/22 15:48

Lab Sample ID: 500-226905-10

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:55
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: T02S

Date Collected: 12/20/22 09:30

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:55
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: T08S

Date Collected: 12/20/22 11:06

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: T01S

Date Collected: 12/20/22 12:52

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: G46S

Date Collected: 12/20/22 14:24

Date Received: 12/20/22 15:40

Lab Sample ID: 500-226905-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: T03S

Date Collected: 12/21/22 09:04

Date Received: 12/21/22 14:58

Lab Sample ID: 500-226905-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:39
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: G44S

Date Collected: 12/21/22 09:54

Date Received: 12/21/22 14:58

Lab Sample ID: 500-226905-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:39
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Client Sample ID: G45S

Lab Sample ID: 500-226905-17

Date Collected: 12/21/22 10:54

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 09:56
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:39
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: G48S

Lab Sample ID: 500-226905-18

Date Collected: 12/21/22 11:55

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 15:39
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:39
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Client Sample ID: G47S

Lab Sample ID: 500-226905-19

Date Collected: 12/21/22 13:46

Matrix: Water

Date Received: 12/21/22 14:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			594824	BMP	EET SL	12/27/22 11:35
Total/NA	Analysis	903.0		1	597550	SCB	EET SL	01/19/23 15:39
Total/NA	Prep	PrecSep_0			594830	BMP	EET SL	12/27/22 12:44
Total/NA	Analysis	904.0		1	596834	FLC	EET SL	01/13/23 11:40
Total/NA	Analysis	Ra226_Ra228		1	597575	EMH	EET SL	01/19/23 22:41

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
Project/Site: Joliet #9 (Quarry) CCR

Job ID: 500-226905-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: GW

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-226905-8	G30S	52.2	
500-226905-8 DU	G30S	65.1	
500-226905-9	G20S	87.2	
500-226905-10	R08S	89.1	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-226905-1	T09S	88.0	
500-226905-1 DU	T09S	87.4	
500-226905-2	T06S	88.0	
500-226905-3	T05S	91.9	
500-226905-4	G33S	65.1	
500-226905-5	R32S	76.8	
500-226905-6	G31S	79.9	
500-226905-7	DUP	79.1	
500-226905-11	T02S	54.7	
500-226905-12	T08S	79.1	
500-226905-13	T01S	37.4 X	
500-226905-14	G46S	75.7	
500-226905-15	T03S	80.4	
500-226905-16	G44S	44.1	
500-226905-17	G45S	80.2	
500-226905-18	G48S	82.1	
500-226905-19	G47S	78.8	
LCS 160-594431/2-A	Lab Control Sample	86.6	
LCS 160-594824/2-A	Lab Control Sample	90.5	
MB 160-594431/1-A	Method Blank	93.9	
MB 160-594824/1-A	Method Blank	94.4	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 904.0 - Radium-228 (GFPC)

Matrix: GW

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-226905-8	G30S	52.2	81.1
500-226905-8 DU	G30S	65.1	82.6
500-226905-9	G20S	87.2	82.6
500-226905-10	R08S	89.1	83.4
Tracer/Carrier Legend			
Ba = Ba Carrier			

Euofins Chicago

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
 Project/Site: Joliet #9 (Quarry) CCR
 Y = Y Carrier

Job ID: 500-226905-2

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba	Y
		(40-110)	(40-110)
500-226905-1	T09S	88.0	83.0
500-226905-1 DU	T09S	87.4	84.1
500-226905-2	T06S	88.0	85.6
500-226905-3	T05S	91.9	81.1
500-226905-4	G33S	65.1	79.6
500-226905-5	R32S	76.8	85.2
500-226905-6	G31S	79.9	84.9
500-226905-7	DUP	79.1	87.5
500-226905-11	T02S	54.7	82.2
500-226905-12	T08S	79.1	81.1
500-226905-13	T01S	37.4 X	83.0
500-226905-14	G46S	75.7	88.2
500-226905-15	T03S	80.4	80.4
500-226905-16	G44S	44.1	81.5
500-226905-17	G45S	80.2	76.3
500-226905-18	G48S	82.1	81.1
500-226905-19	G47S	78.8	72.1
LCS 160-594438/2-A	Lab Control Sample	86.6	86.0
LCS 160-594830/2-A	Lab Control Sample	90.5	82.2
MB 160-594438/1-A	Method Blank	93.9	86.0
MB 160-594830/1-A	Method Blank	94.4	82.2

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier