



ENVIRONMENTAL CONSULTATION & REMEDIATION

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**KPRG and Associates, Inc.**

**FEDERAL CCR COMPLIANCE  
ANNUAL GROUNDWATER MONITORING and  
CORRECTIVE ACTION REPORT - 2023**

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

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January 31, 2024

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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 4<sup>th</sup> 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. Two additional monitoring wells were installed in 2023, wells T12S and T13S, as part of the ongoing nature and extent of impacts evaluation. 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 2023 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 (2<sup>nd</sup> and 3<sup>rd</sup> quarters)
- T03S – boron (1<sup>st</sup> and 2<sup>nd</sup> quarters), calcium (3<sup>rd</sup> quarter), sulfate (1<sup>st</sup> quarter)
- R08S – boron, calcium, pH and sulfate (1<sup>st</sup> through 4<sup>th</sup> quarters)
- G20S –boron and fluoride (1<sup>st</sup> through 4<sup>th</sup> quarters), and pH (1<sup>st</sup> quarter)

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

#### Expanded Assessment Wells

- G31S – boron, calcium, sulfate, TDS (1<sup>st</sup> through 4<sup>th</sup> quarters)
- G33S – fluoride (1<sup>st</sup> through 4<sup>th</sup> quarters) and pH (3<sup>rd</sup> quarter)
- T01S – boron, fluoride and sulfate (1<sup>st</sup> through 4<sup>th</sup> quarters), pH (1<sup>st</sup> through 3<sup>rd</sup> quarters) and TDS (1<sup>st</sup> quarter)
- T02S – boron and pH (1<sup>st</sup> through 4<sup>th</sup> quarters), fluoride (1<sup>st</sup> quarter), sulfate (1<sup>st</sup> quarter) and TDS (1<sup>st</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters)
- T05S – boron, fluoride, pH, sulfate and TDS (1<sup>st</sup> through 4<sup>th</sup> quarters)
- T06S – fluoride (1<sup>st</sup> through 4<sup>th</sup> quarters) and pH (1<sup>st</sup> and 2<sup>nd</sup> quarters)
- T08S – boron, fluoride, sulfate and pH (1<sup>st</sup> through 4<sup>th</sup> quarters) and TDS (1<sup>st</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters)
- T09S – boron and sulfate (1<sup>st</sup> through 4<sup>th</sup> quarters), calcium (1<sup>st</sup> and 2<sup>nd</sup> quarters), fluoride (1<sup>st</sup> quarter) and TDS (1<sup>st</sup> and 2<sup>nd</sup> quarters)
- T12S – boron (2<sup>nd</sup> through 4<sup>th</sup> quarters), calcium (2<sup>nd</sup> quarter), pH (2<sup>nd</sup> and 4<sup>th</sup> quarter) and sulfate (2<sup>nd</sup> quarter)
- T13S – pH (2<sup>nd</sup> quarter)

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, R08S, G44S, G46S, G47S and G48S (1<sup>st</sup> through 4<sup>th</sup> quarters), R32S (1<sup>st</sup> and 3<sup>rd</sup> quarters), and expanded network wells G31S, T01S, T02S, T05S, T08S and T09S (1<sup>st</sup> through 4<sup>th</sup> quarters) and T12S (2<sup>nd</sup> through 4<sup>th</sup> quarters)
- Lithium – CCR wells R08S, and G46S (1<sup>st</sup> through 4<sup>th</sup> quarters), R32S (1<sup>st</sup> and 3<sup>rd</sup> quarters) G47S (1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarters) and expanded network wells G31S and T09S (1<sup>st</sup> through 4<sup>th</sup> quarters), T08S (4<sup>th</sup> quarter) and T12S (2<sup>nd</sup> through 4<sup>th</sup> quarters)
- Arsenic – CCR wells G46S and G47S (1<sup>st</sup> through 4<sup>th</sup> quarters), G48S (1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarters) and expanded network wells T01S (1<sup>st</sup> and 4<sup>th</sup> quarters), T05S and T08S (1<sup>st</sup> through 4<sup>th</sup> quarters) and T12S (4<sup>th</sup> quarter)
- Cobalt - Expanded network well T01S (1<sup>st</sup> quarter)
- Antimony – Expanded network well T08S (1<sup>st</sup> 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 from IEPA, remedial activities pursuant to Section 257.98 were not initiated during this reporting period.

## 1.0 INTRODUCTION

The groundwater sampling for the 2023 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 4<sup>th</sup> quarter 2018 to assist in defining the nature and extent of impacts as required under 257.95(g)(1). In addition, two additional monitoring wells were installed in 2023, wells T12S and T13S, as part of the ongoing nature and extent of impacts evaluation. The current expanded assessment network includes wells G31S, G33S, T01S, T02S, T05S, T06S, T08S, T09S, T12S and T13S. 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 2023. 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, T09S, T12S and T13S 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 in Attachment 1. 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 being 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 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 2023 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 Attachment 2.

It is noted that, under separate cover, a Federal CCR Compliance Nature and Extent of Impacts Evaluation for the Lincoln Stone Quarry dated November 8, 2023 was placed into the facility's operating record.

#### 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 Spring of 2024 to further refine the nature and extent of impacts.

#### 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:

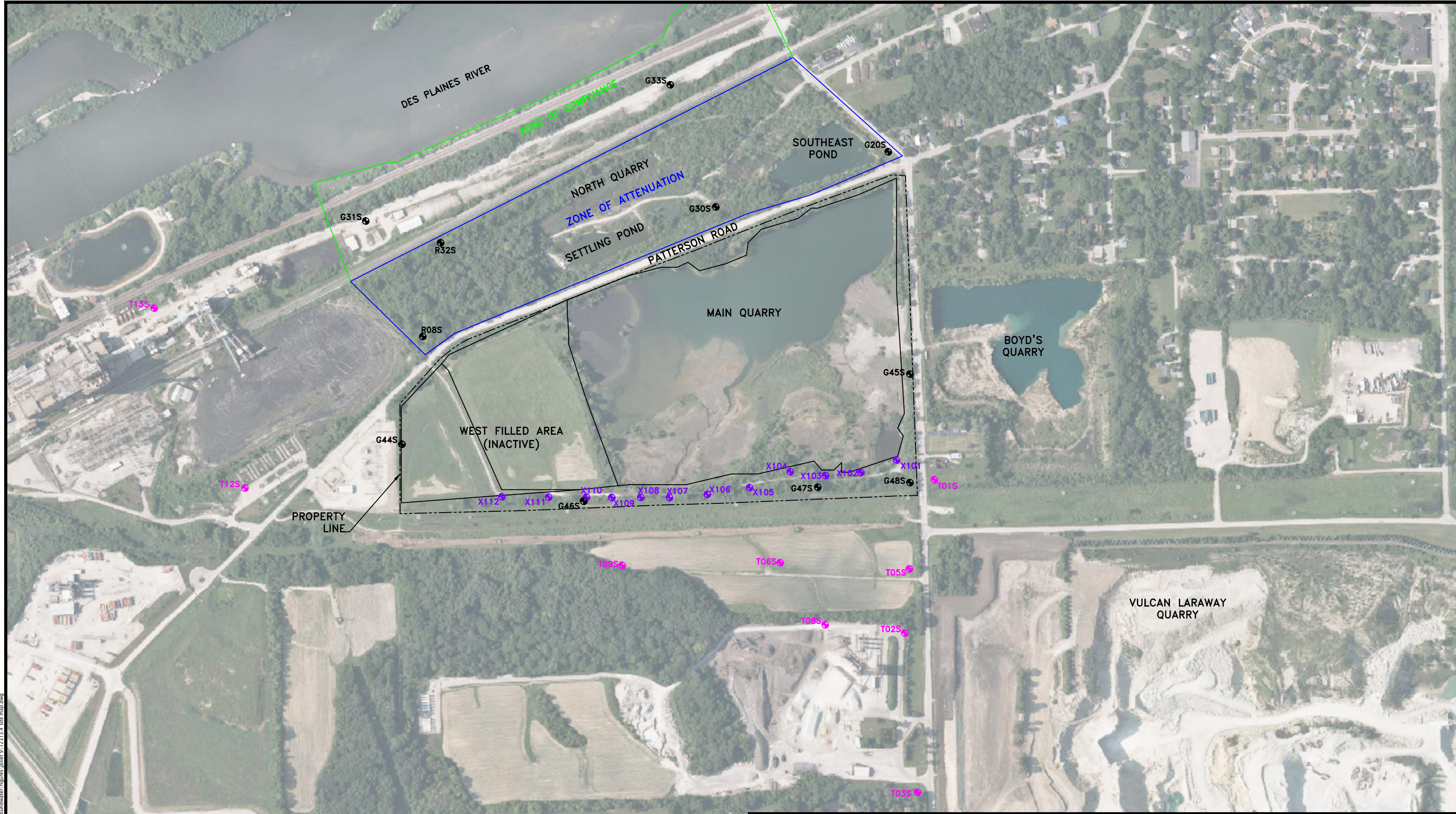
- Molybdenum – CCR wells T03S, R08S, G44S, G46S, G47S and G48S (1<sup>st</sup> through 4<sup>th</sup> quarters), R32S (1<sup>st</sup> and 3<sup>rd</sup> quarters), and expanded network wells G31S, T01S, T02S, T05S, T08S and T09S (1<sup>st</sup> through 4<sup>th</sup> quarters) and T12S (2<sup>nd</sup> through 4<sup>th</sup> quarters)
- Lithium – CCR wells R08S, and G46S (1<sup>st</sup> through 4<sup>th</sup> quarters), R32S (1<sup>st</sup> and 3<sup>rd</sup> quarters) G47S (1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarters) and expanded network wells G31S and T09S (1<sup>st</sup> through 4<sup>th</sup> quarters), T08S (4<sup>th</sup> quarter) and T12S (2<sup>nd</sup> through 4<sup>th</sup> quarters)
- Arsenic – CCR wells G46S and G47S (1<sup>st</sup> through 4<sup>th</sup> quarters), G48S (1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarters) and expanded network wells T01S (1<sup>st</sup> and 4<sup>th</sup> quarters), T05S and T08S (1<sup>st</sup> through 4<sup>th</sup> quarters) and T12S (4<sup>th</sup> quarter)
- Cobalt - Expanded network well T01S (1<sup>st</sup> quarter)
- Antimony – Expanded network well T08S (1<sup>st</sup> 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 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.
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- 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, 2021 and 2022.
- KPRG and Associates, Inc., Application for Initial Construction Permit, Joliet #9 Generating Station, Midwest Generation, LLC, January 28, 2022.
- KPRG and Associates, Inc., Federal CCR Compliance Nature and Extent of impacts Evaluation, Midwest Generation, LLC Joliet #9 Generating Station. November 8, 2023.

**FIGURE**



w:\Projects\Midwest\Generation 12313.ash pond groundwater figures\joliet 9\12313.4 site map.dwg

**LEGEND**

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



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**FEDERAL CCR MONITORING WELLS LOCATIONS**

LINCOLN STONE QUARRY  
 JOLIET, ILLINOIS

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

KPRG Project No. 12313.4      FIGURE 1

## **TABLES**

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

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
R08S	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-2021	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
	Jan-2023	578.62	66.52	512.10
	Feb-2023	578.62	66.37	512.25
	Mar-2023	578.62	70.08	508.54
	Apr-2023	578.62	69.77	508.85
	May-2023	578.62	70.38	508.24
	Jun-2023	578.62	70.29	508.33
	Jul-2023	578.62	69.93	508.69
	Aug-2023	578.62	71.18	507.44
	Sep-2023	578.62	69.85	508.77
	Oct-2023	578.62	73.29	505.33
Nov-2023	578.62	73.78	504.84	
Dec-2023	578.62	70.99	507.63	
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
	Jan-2023	580.91	69.70	511.21
	Feb-2023	580.91	66.19	514.72
	Mar-2023	580.91	55.27	525.64
	Apr-2023	580.91	55.07	525.84
	May-2023	580.91	50.69	530.22
	Jun-2023	580.91	53.60	527.31
	Jul-2023	580.91	60.64	520.27
	Aug-2023	580.91	57.12	523.79
	Sep-2023	580.91	58.38	522.53
	Oct-2023	580.91	55.38	525.53
Nov-2023	580.91	53.54	527.37	
Dec-2023	580.91	54.10	526.81	

MSL - Mean Sea Level  
 TOC - Top of Casing  
<sup>1</sup> - 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 <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G308	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
	Jan-2023	524.70	2.42	522.28
	Feb-2023	524.70	2.26	522.44
	Mar-2023	524.70	2.09	522.61
	Apr-2023	524.70	2.21	522.49
	May-2023	524.70	2.82	521.88
	Jun-2023	524.70	2.44	522.26
	Jul-2023	524.70	2.29	522.41
	Aug-2023	524.70	2.30	522.40
	Sep-2023	524.70	2.06	522.64
	Oct-2023	524.70	2.10	522.60
Nov-2023	524.70	2.65	522.05	
Dec-2023	524.70	2.10	522.60	
R328	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
	Jan-2023	536.99	19.31	517.68
	Feb-2023	536.99	19.36	517.63
	Mar-2023	536.99	22.18	514.81
	Apr-2023	536.99	21.92	515.07
	May-2023	536.99	22.41	514.58
	Jun-2023	536.99	22.35	514.64
	Jul-2023	536.99	22.15	514.84
	Aug-2023	536.99	22.95	514.04
	Sep-2023	536.99	22.34	514.65
	Oct-2023	536.99	24.92	512.07
Nov-2023	536.99	25.28	511.71	
Dec-2023	536.99	22.74	514.25	

MSL - Mean Sea Level  
 TOC - Top of Casing  
<sup>1</sup> - 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 <sup>1</sup>	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	507.38
	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	505.66
	Mar-2022	586.53	79.64	506.99
	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
	Jan-2023	586.53	80.04	506.49
	Feb-2023	586.53	80.59	505.94
	Mar-2023	586.53	78.52	508.01
	Apr-2023	586.53	82.13	504.40
	May-2023	586.53	83.05	503.48
	Jun-2023	586.53	83.12	503.41
	Jul-2023	586.53	32.61	553.92
	Aug-2023	586.53	52.75	533.78
	Sep-2023	586.53	82.75	503.78
	Oct-2023	586.53	85.46	501.07
Nov-2023	586.53	86.11	500.42	
Dec-2023	586.53	83.45	503.08	
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
	Jan-2023	603.90	67.34	536.56
	Feb-2023	603.90	67.42	536.48
	Mar-2023	603.90	66.41	537.49
	Apr-2023	603.90	66.11	537.79
	May-2023	603.90	66.12	537.78
	Jun-2023	603.90	66.33	537.57
	Jul-2023	603.90	66.21	537.69
	Aug-2023	603.90	66.20	537.70
	Sep-2023	603.90	65.12	538.78
	Oct-2023	603.90	65.89	538.01
Nov-2023	603.90	66.51	537.39	
Dec-2023	603.90	66.45	537.45	

MSL - Mean Sea Level  
 TOC - Top of Casing  
<sup>1</sup> - Date of water levels collected at bottom of quarter, actual sample date may vary.  
 NM - Not Measured

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

Well ID	Date <sup>1</sup>	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	97.80	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
	Jan-2023	601.43	94.61	506.82
	Feb-2023	601.43	95.79	505.64
	Mar-2023	601.43	91.99	509.44
	Apr-2023	601.43	106.56	494.87
	May-2023	601.43	108.96	492.47
	Jun-2023	601.43	104.26	497.17
	Jul-2023	601.43	105.51	495.92
	Aug-2023	601.43	105.75	495.68
	Sep-2023	601.43	106.12	495.31
	Oct-2023	601.43	107.45	493.98
Nov-2023	601.43	112.32	489.11	
Dec-2023	601.43	109.48	491.95	
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	93.30	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
	Jan-2023	612.10	96.16	515.94
	Feb-2023	612.10	96.20	515.90
	Mar-2023	612.10	95.75	516.35
	Apr-2023	612.10	94.75	517.35
	May-2023	612.10	95.10	517.00
	Jun-2023	612.10	95.05	517.05
	Jul-2023	612.10	94.38	517.72
	Aug-2023	612.10	95.11	516.99
	Sep-2023	612.10	95.26	516.84
	Oct-2023	612.10	95.74	516.36
Nov-2023	612.10	95.95	516.15	
Dec-2023	612.10	95.82	516.28	

MSL - Mean Sea Level  
 TOC - Top of Casing  
<sup>1</sup> - Date of water levels collected at beginning of quarter, actual sample date may vary.  
 N/A - Not Measured

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

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
GH8	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	102.51	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
	Jan-2023	620.78	104.83	515.95
	Feb-2023	620.78	104.72	516.06
	Mar-2023	620.78	103.82	516.96
	Apr-2023	620.78	103.35	517.43
	May-2023	620.78	104.10	516.68
	Jun-2023	620.78	104.53	516.25
	Jul-2023	620.78	103.51	517.27
	Aug-2023	620.78	103.54	517.24
	Sep-2023	620.78	103.25	517.53
	Oct-2023	620.78	103.04	517.74
Nov-2023	620.78	103.26	517.52	
Dec-2023	620.78	104.71	516.07	
TU8	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
	Jan-2023	629.89	140.43	489.46
	Feb-2023	629.89	141.27	488.62
	Mar-2023	629.89	140.25	489.64
	Apr-2023	629.89	139.07	490.82
	May-2023	629.89	138.25	491.64
	Jun-2023	629.89	140.27	489.62
	Jul-2023	629.89	139.44	490.45
	Aug-2023	629.89	140.48	489.41
	Sep-2023	629.89	138.6	491.29
	Oct-2023	629.89	141.45	488.44
Nov-2023	629.89	141.38	488.51	
Dec-2023	629.89	142.03	487.86	

MSL - Mean Sea Level  
 TOC - Top of Casing  
<sup>1</sup> - Date of water levels collected at bottom of casing; actual sample date may vary.  
 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)
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
March-23	Northerly and Westerly	1.38E-05	0.0685	0.05	1.63
July-23	Northerly and Westerly	1.38E-05	0.0590	0.05	1.41
September-23	Northerly and Westerly	1.38E-05	0.0645	0.05	1.54
December-23	Northerly and Westerly	1.38E-05	0.0465	0.05	1.11

\* 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 2023 - 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	3/23/2023	A
		6/30/2023	A
		9/14/2023	A
		12/20/2023	A
T03S (Upgradient)	4	3/20/2023	A
		6/30/2023	A
		9/13/2023	A
		12/12/2023	A
R08S (Downgradient)	4	3/22/2023	A
		6/28/2023	A
		9/7/2023	A
		12/20/2023	A
G20S (Downgradient)	4	3/14/2023	A
		6/28/2023	A
		9/6/2023	A
		12/11/2023	A
G30S (Downgradient)	4	3/17/2023	A
		6/29/2023	A
		9/12/2023	A
		12/19/2023	A
R32S (Downgradient)	4	3/23/2023	A
		6/29/2023	A
		9/12/2023	A
		12/19/2023	A
G44S (Downgradient)	4	3/15/2023	A
		6/29/2023	A
		9/13/2023	A
		12/19/2023	A
G46S (Downgradient)	4	3/22/2023	A
		6/29/2023	A
		9/13/2023	A
		12/20/2023	A
G47S (Downgradient)	4	3/23/2023	A
		6/30/2023	A
		9/7/2023	A
		12/18/2023	A
G48S (Downgradient)	4	3/23/2023	A
		6/30/2023	A
		9/7/2023	A
		12/18/2023	A
G31S (Downgradient)	4	3/15/2023	N&E
		6/28/2023	N&E
		9/6/2023	N&E
		12/11/2023	N&E
G33S (Downgradient)	4	3/15/2023	N&E
		6/28/2023	N&E
		9/12/2023	N&E
		12/15/2023	N&E
T01S (Downgradient)	4	3/21/2023	N&E
		7/3/2023	N&E
		9/28/2023	N&E
		12/13/2023	N&E
T02S (Downgradient)	4	3/20/2023	N&E
		6/30/2023	N&E
		9/27/2023	N&E
		12/12/2023	N&E
T05S (Downgradient)	4	3/22/2023	N&E
		7/3/2023	N&E
		9/27/2023	N&E
		12/14/2023	N&E
T06S (Downgradient)	4	3/21/2023	N&E
		6/27/2023	N&E
		9/19/2023	N&E
		12/14/2023	N&E
T08S (Downgradient)	4	3/20/2023	N&E
		7/3/2023	N&E
		9/27/2023	N&E
		12/14/2023	N&E
T09S (Downgradient)	4	3/21/2023	N&E
		6/27/2023	N&E
		9/19/2023	N&E
		12/12/2023	N&E
T12S (Downgradient)	3	6/27/2023	N&E
		9/12/2023	N&E
		12/18/2023	N&E
T13S (Downgradient)	3	6/27/2023	N&E
		9/26/2023	N&E
		12/19/2023	N&E

Table 4. Initial Monitoring Well Network Appendix III Groundwater Analytical Results through 4Q2023- Midwest Generation, LLC, Joliet Station #9 Lincoln Stone Quarry, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
G45S up-gradient	11/20/2015	0.81	120	180	0.35	7.20	360	810
	5/12/2016	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	0.42	94	120	< 0.1	7.21	150	600
	<b>Pred. Limit*</b>	<b>1.031</b>	<b>133.2</b>	<b>206.7</b>	<b>0.35</b>	<b>7.61-7.03</b>	<b>360</b>	<b>1,007</b>
	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	700
	3/9/2018	0.38	97	110	0.32	7.18	180	710
	5/21/2018	0.76	110	150	0.33	<b>7.00</b>	230	970
	12/7/2018	0.46	91	120	0.33	<b>7.02</b>	100	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
	6/26/2020	0.62	130	<b>220</b>	0.33	7.21	240	970
	12/11/2020	0.70	120	180	<b>0.38</b>	7.16	220	760
	6/28/2021	0.44	91	110	0.35	7.20	150	680
	12/16/2021	0.34	84	87	<b>0.36</b>	7.35	130	510
	3/16/2022	< 0.5	130	86	<b>0.36</b>	7.35	130	700
	6/10/2022	0.34	84	110	0.35	7.28	130	630
	9/26/2022	0.48	97	150	0.35	7.14	180	830
	12/21/2022	0.39	110	190	<b>0.72</b>	7.06	190	920
3/23/2023	0.44	91	130	0.35	7.30	160	740	
6/30/2023	0.44	89	120	<b>0.36</b>	7.23	150	610	
9/14/2023	0.46	67	120	<b>0.36</b>	7.35	F1 150	600	
12/20/2023	0.50	81	130	0.35	7.48	160	680	
T03S up-gradient	11/19/2015	0.5	110	75	0.22	7.07	250	710
	5/5/2016	0.84	100	100	0.21	7.16	190	820
	6/28/2016	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	F1 71	< 0.1	7.32	180	710
	<b>Pred. Limit*</b>	<b>1.85</b>	<b>129</b>	<b>134</b>	<b>0.26</b>	<b>7.55-6.93</b>	<b>292</b>	<b>1,030</b>
	9/26/2017	1.3	110	80	0.21	7.19	240	790
	11/20/2017	1.7	98	90	0.24	7.13	230	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	<b>140</b>	0.23	6.96	160	890
	6/24/2019	<b>2.7</b>	100	89	<b>0.27</b>	7.17	260	830
	10/28/2019	1.5	100	73	0.25	7.19	< 500	780
	6/23/2020	<b>2.3</b>	97	74	<b>0.33</b>	7.29	240	770
	12/15/2020	1.4	<b>140</b>	F1 <b>170</b>	<b>0.27</b>	7.01	280	960
	6/22/2021	0.92	120	130	0.23	6.94	220	980
	12/9/2021	<b>2.4</b>	<b>130</b>	110	0.23	7.48	F1 280	870
	3/14/2022	<b>3.6</b>	31	110	0.22	7.37	280	1000
	6/13/2022	1.7	<b>130</b>	<b>160</b>	0.21	7.44	260	980
	9/26/2022	<b>2.2</b>	110	110	0.21	7.00	260	810
	12/21/2022	<b>2.9</b>	110	91	<b>0.52</b>	7.44	<b>300</b>	960
3/20/2023	<b>3</b>	110	100	0.21	7.22	<b>320</b>	890	
6/30/2023	<b>2.1</b>	120	120	0.20	7.4	230	850	
9/13/2023	1.7	<b>130</b>	130	0.20	7.56	220	910	
12/12/2023	1.7	120	120	0.18	7.42	220	940	
R08S down-gradient	11/23/2015	6.9	130	77	0.19	7.80	520	740
	5/6/2016	6.1	120	80	0.19	7.70	380	820
	6/28/2016	6.8	130	89	0.18	7.49	320	960
	8/25/2016	6.3	120	84	0.19	7.54	350	890
	11/21/2016	6.4	120	86	0.17	7.53	280	790
	2/14/2017	5.4	150	220	0.17	7.60	280	1,000
	5/25/2017	12	250	90	0.17	7.56	340	830
	7/6/2017	6.3	140	87	0.17	7.62	350	830
	<b>Pred. Limit</b>	<b>1.01</b>	<b>126**</b>	<b>203</b>	<b>0.35</b>	<b>7.52-7.04**</b>	<b>360**</b>	<b>955</b>
	9/25/2017	<b>7.3</b>	<b>140</b>	81	0.15	<b>7.57</b>	<b>390</b>	840
	11/21/2017	<b>7.3</b>	<b>130</b>	89	0.15	<b>8.05</b>	<b>380</b>	800
	3/8/2018	<b>7.4</b>	<b>150</b>	83	0.14	<b>8.62</b>	<b>420</b>	850
	5/18/2018	<b>7.7</b>	<b>140</b>	82	0.14	<b>8.25</b>	320	920
	12/13/2018	<b>7.7</b>	<b>140</b>	79	0.15	<b>8.11</b>	240	800
	6/19/2019	<b>8.5</b>	<b>140</b>	83	0.14	<b>8.10</b>	360	820
	11/11/2019	<b>6.4</b>	<b>140</b>	84	0.15	<b>7.91</b>	360	730
	6/26/2020	<b>7.9</b>	<b>140</b>	83	0.15	<b>8.32</b>	<b>370</b>	750
	12/14/2020	<b>8.0</b>	<b>130</b>	88	0.18	<b>8.15</b>	<b>400</b>	700
	6/23/2021	<b>7.6</b>	<b>140</b>	79	0.16	<b>8.07</b>	<b>430</b>	810
	12/14/2021	<b>7.8</b>	<b>150</b>	77	0.15	<b>8.37</b>	<b>410</b>	830
	3/11/2022	<b>7.7</b>	<b>130</b>	75	0.16	<b>8.21</b>	<b>420</b>	840
	6/7/2022	<b>8.7</b>	<b>150</b>	72	0.14	<b>7.94</b>	<b>420</b>	800
	9/19/2022	<b>8.4</b>	<b>140</b>	79	0.14	<b>8.47</b>	<b>430</b>	780
	12/19/2022	<b>8.2</b>	<b>140</b>	81	0.35	<b>8.91</b>	<b>370</b>	750
3/22/2023	<b>7.6</b>	<b>150</b>	77	0.15	<b>8.39</b>	<b>450</b>	880	
6/28/2023	<b>8.9</b>	<b>150</b>	77	0.13	<b>7.87</b>	<b>400</b>	750	
9/7/2023	<b>7.0</b>	<b>130</b>	81	0.13	<b>8.05</b>	<b>410</b>	760	
12/20/2023	<b>8.5</b>	<b>130</b>	75	0.11	<b>7.79</b>	<b>390</b>	800	

Notes: All units are in mg/l except pH is in standard units.  
 Pred. Limit - Prediction Limit  
 Italic Date - Detection Monitoring and resample after statistical background establishment.  
 \* - Intrawell Prediction Limit. All others are interwell comparisons.  
 \*\* - Based on pooled background from G45S/T03S, all others based on G45S as background.  
 B - Compound was found in the blank and sample.  
 F1 - MS and/or MSD Recovery outside of limits.  
 Bold - Potential statistically significant increase.

Table 4. Initial Monitoring Well Network Appendix III Groundwater Analytical Results through 4Q2023- Midwest Generation, LLC, Joliet Station #9 Lincoln Stone Quarry, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
G20S down-gradient	11/19/2015	1.2	59	12	0.82	7.73	110	410
	5/11/2016	1.2	53	12	0.81	7.52	77	410
	6/29/2016	1.2	54	12	0.82	7.38	69	460
	8/23/2016	1.3	56	13	0.81	7.41	67	420
	11/17/2016	1.3	59	11	0.74	7.44	55	420
	2/13/2017	1.2	54	13	0.69	7.30	93	400
	5/24/2017	1.3	55	12	0.81	7.45	66	430
	7/5/2017	1.3	61	12	0.76	7.37	70	400
	<b>Pred. Limit</b>	<b>1.01</b>	<b>126**</b>	<b>203</b>	<b>0.35</b>	<b>7.52-7.04**</b>	<b>360**</b>	<b>955</b>
	9/25/2017	<u>1.3</u>	60	12	<b>0.78</b>	7.30	76	440
	11/20/2017	<u>1.3</u>	59	13	<b>0.78</b>	7.06	85	390
	3/6/2018	<u>1.4</u>	63	12	<b>0.76</b>	7.32	88	460
	5/16/2018	<u>1.2</u>	61	12	<b>0.75</b>	7.06	87	410
	12/7/2018	<u>1.2</u>	58	12	<b>0.76</b>	7.41	65	480
	6/18/2019	<u>1.3</u>	62	13	<b>0.75</b>	7.18	65	440
	11/5/2019	<u>1.2</u>	58	13	<b>0.74</b>	<b>7.88</b>	71	410
	6/24/2020	<u>1.3</u>	58	13	<b>0.79</b>	<b>7.81</b>	63	360
	12/11/2020	<u>1.4</u>	61	14	<b>0.89</b>	7.41	69	390
	6/23/2021	<u>1.3</u>	60	14	<b>0.77</b>	7.46	70	390
	12/10/2021	<u>1.4</u>	60	14	<b>0.77</b>	<b>8.33</b>	69	360
3/15/2022	<u>1.4</u>	110	15	<b>0.75</b>	7.49	74	500	
6/7/2022	<u>1.3</u>	60	15	<b>0.76</b>	7.07	71	400	
9/19/2022	<u>1.4</u>	58	17	<b>0.78</b>	<b>7.58</b>	55 F1	410	
12/19/2022	<u>1.3</u>	59	15	<b>0.95</b>	7.06	57	410	
3/14/2023	<u>1.3</u>	62	16	<b>0.75</b>	<b>7.53</b>	64	410	
6/28/2023	<u>1.4</u>	65	16	<b>0.78</b>	7.20	57	380	
9/6/2023	<u>1.2</u>	57	18	<b>0.77</b>	7.47	62	400	
12/11/2023	<u>1.3</u>	54	16	<b>0.72</b>	7.36	67	420	
G30S down-gradient	11/20/2015	5.80	63	190	1.3	7.46	580	1,000
	5/10/2016	5.4	53	190	1.30	7.68	390	1,100
	6/30/2016	5.2	60	F1 180	1.30	7.73	410	990
	8/25/2016	5.7	59	F1 180	1.30	7.70	390	1,100
	11/18/2016	6.4	57	170	1.2	8.04	320	1,100
	2/14/2017	5.4	62	190	1.2	7.70	450	1,000
	5/25/2017	11	110	180	1.4	7.67	430	1,100
	7/7/2017	6.6	54	190	1.3	7.48	410	1,100
	<b>Pred. Limit</b>	<b>1.01</b>	<b>126**</b>	<b>203</b>	<b>0.35</b>	<b>7.52-7.04**</b>	<b>360**</b>	<b>955</b>
	9/26/2017	<u>6.7</u>	62	190	<b>1.3</b>	<b>8.07</b>	<b>460</b>	<b>1,100</b>
	11/20/2017	<u>6.1</u>	52	<b>210</b>	<b>1.3</b>	<b>7.77</b>	<b>440</b>	<b>1,100</b>
	3/7/2018	<u>5.1</u>	56	200	<b>1.3</b>	<b>7.97</b>	<b>470</b>	<b>1,100</b>
	5/17/2018	<u>5.7</u>	55	<b>210</b>	<b>1.2</b>	<b>7.77</b>	<b>540</b>	<b>1,100</b>
	12/15/2018	<u>5.8</u>	57	200	<b>1.2</b>	<b>7.99</b>	200	<b>1,100</b>
	6/26/2019	<u>5.4</u>	57	<b>220</b>	<b>1.1</b>	<b>7.98</b>	350	<b>1,100</b>
	11/6/2019	<u>4.5</u>	58	<b>210</b>	<b>1.1</b>	<b>7.99</b>	350	<b>1,100</b>
	6/25/2020	<u>4.9</u>	57	<b>220</b>	<b>1.1</b>	<b>8.33</b>	<b>410</b>	<b>1,100</b>
	12/7/2020	<u>5.3</u>	57	<b>220</b>	<b>1.2</b>	<b>7.83</b>	<b>450</b>	<b>1,100</b>
	6/30/2021	<u>5.9 B</u>	61	200	<b>1.1</b>	<b>7.88</b>	<b>470</b>	<b>1,100</b>
	12/15/2021	<u>5.1</u>	63	200	<b>1.0</b>	<b>7.95</b>	<b>450</b>	<b>1,200</b>
3/15/2022	<u>4.9</u>	57	200	<b>1.0</b>	<b>7.91</b>	<b>480</b>	<b>1,300</b>	
6/10/2022	<u>5.1</u>	60	200	<b>0.99</b>	7.29	<b>450</b>	<b>1,200</b>	
9/28/2022	<u>4.9</u>	60	200	<b>0.98</b>	<b>7.72</b>	<b>470</b>	<b>1,100</b>	
12/19/2022	<u>5.1</u>	61	<b>210</b>	<b>1.2</b>	<b>7.8</b>	<b>440</b>	<b>1,200</b>	
3/17/2023	<u>5.2</u>	63	200	<b>0.93</b>	<b>7.82</b>	<b>470</b>	<b>1,200</b>	
6/29/2023	<u>5.4</u>	65	200	<b>0.95</b>	<b>7.55</b>	<b>480</b>	<b>1,200</b>	
9/12/2023	<u>4.5</u>	48	<b>220</b>	<b>0.93</b>	<b>7.67</b>	<b>480</b>	<b>1,300</b>	
12/19/2023	<u>5.1</u>	64	<b>210</b>	<b>0.88</b>	<b>7.88</b>	<b>480</b>	<b>1,200</b>	
R32S down-gradient	11/19/2015	1.3	99	88	0.28	7.32	210	640
	5/5/2016	1.9	100	140	0.32	7.38	210	810
	6/29/2016	2.5	110	110	0.35	7.53	280	860
	8/26/2016	3.0	120	100	0.4	7.30	330	850
	11/18/2016	3.3	120	99	0.34	7.38	270	830
	2/16/2017	F1 4.0	120	99	0.34	7.39	340	830
	5/25/2017	8.3	240	88	0.42	7.54	320	850
	7/7/2017	6.2	120	96	0.42	7.61	360	830
	<b>Pred. Limit</b>	<b>1.01</b>	<b>126**</b>	<b>203</b>	<b>0.35</b>	<b>7.52-7.04**</b>	<b>360**</b>	<b>955</b>
	9/28/2017	<u>4.8</u>	<b>140</b>	78	<b>0.36</b>	7.29	290	870
	11/21/2017	<u>5.7</u>	120	97	<b>0.38</b>	7.50	<b>390</b>	900
	3/7/2018	<u>5.8</u>	<b>130</b>	86	0.32	<b>7.57</b>	350	880
	5/21/2018	<u>4.4</u>	120	77	0.29	7.13	310	<b>1,000</b>
	12/13/2018	<u>3.5</u>	120	F1 72	0.26	7.43	280	880
	6/27/2019	<u>6.3</u>	<b>140</b>	74	0.27	7.33	<b>380</b>	880
	11/6/2019	<u>4.8</u>	<b>150</b>	69	0.27	7.45	360	820
	6/29/2020	<u>6.0</u>	<b>130</b>	71	0.28	7.47	<b>400</b>	790
	12/16/2020	<u>6.1</u>	<b>150</b>	F1 66	0.34	7.43	<b>430</b>	840
	6/28/2021	<u>4.0 B</u>	<b>130</b>	56	0.3	7.16	<b>430</b>	790
	12/15/2021	<u>4.9</u>	<b>150</b>	59	0.32	7.42	<b>490</b>	930
3/16/2022	<u>4</u>	9.6	50	0.31	<b>7.56</b>	<b>430</b>	<b>1,100</b>	
6/10/2022	<u>5.5</u>	120	54	0.31	7.23	<b>460</b>	880	
9/26/2022	<u>5.1</u>	<b>130</b>	57	0.3	7.23	<b>450</b>	870	
12/16/2022	<u>4.7</u>	<b>130</b>	61	<b>0.51</b>	7.41	<b>400</b>	860	
3/23/2023	<u>4.6</u>	<b>130</b>	56	0.29	7.57	<b>390</b>	940	
6/29/2023	<u>1.4</u>	100	47	0.29	7.07	<b>815</b>	770	
9/12/2023	<u>2.8</u>	88	50	0.29	<b>7.60</b>	<b>380</b>	790	
12/19/2023	0.48	88	43	0.28	7.43	350	780	

Notes: All units are in mg/l except pH is in standard units.  
 Pred. Limit - Prediction Limit  
*Italics Date* - Detection Monitoring and resample after statistical background establishment.  
 \* - Intrawell Prediction Limit. All others are interwell comparisons.  
 \*\* - Based on pooled background from G45S/T03S, all others based on G45S as background.  
 B - Compound was found in the blank and sample.  
 F1 - MS and/or MSD Recovery outside of limits.  
**Bold** - Potential statistically significant increase.

Table 4. Initial Monitoring Well Network Appendix III Groundwater Analytical Results through 4Q2023- Midwest Generation, LLC, Joliet Station #9 Lincoln Stone Quarry, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
G44S down-gradient	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	0.9	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	30	0.15	7.38	120	620
	5/24/2017	0.83	120	31	0.19	7.08	95	600
	7/10/2017	0.83	110	30	< 0.1	7.00	110	700
	Pred. Limit	1.01	126**	203	0.35	7.52-7.04**	360**	955
	9/28/2017	0.99	130	30	0.19	7.13	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
	5/17/2018	0.98	120	35	0.18	7.02	96	780
	12/10/2018	1.1	120	43	0.19	7.41	78	630
	6/19/2019	1.3	130	59	0.19	7.02	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	52	0.25	7.17	180	650
	6/30/2021	1.9 B	120	65	0.21	7.00	170	730
	12/16/2021	1.9	140	62	0.2	7.21	170	690
	3/15/2022	2.1	58	63	0.21	7.24	180	860
6/9/2022	1.6	130	75	0.2	7.02	160	730	
9/26/2022	1.8	130	69	0.21	7.01	180	810	
12/21/2022	1.9	130	67	0.49	7.07	180	870	
3/15/2023	1.9	130	66	0.20	7.10	190	720	
6/29/2023	1.8	140	64	0.21	7.00	160	680	
9/13/2023	1.7	100	68	0.21	7.01	160	720	
12/19/2023	1.6	130	63	0.20	7.24	170	750	
G46S down-gradient	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	7.9	100	99	0.29	8.26	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	7.94	410	1,000
	5/22/2017	6.8	100	130	0.44	7.37	350	970
	7/6/2017	4.9	100	150	0.41	7.33	290	880
	Pred. 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	7.73	270	800
	3/8/2018	5.9	110	140	0.41	7.75	350	940
	5/18/2018	5.9	110	120	0.4	7.66	260	1,100
	12/11/2018	7.60	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	73	0.35	7.74	540	1,000
	6/30/2021	15 B	120	67	0.3	7.40	590	1,000
	12/15/2021	11	140	66	0.27	7.53	500	990
	3/11/2022	12	130	54	0.34	7.38	600	1,200
6/9/2022	11	110	68	0.26	7.36	460	930	
9/26/2022	11	120	63	0.31	7.31	580	1,000	
12/20/2022	13	140	51	F1 0.58	7.68	670	1,200	
3/22/2023	10	130	72	0.31	7.70	500	1,100	
6/29/2023	8.6	140	69	0.23	7.50	440	890	
9/13/2023	7.5	100	72	0.24	7.48	460	920	
12/20/2023	10	120	69	0.23	7.48	490	980	
G47S down-gradient	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	F1 150	1.8	10.08	620	1,700
	2/15/2017	7.6	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	18	1.2	150	2.1	10.06	780	1,800
	Pred. 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
	11/22/2017	21	1.1	150	2.1	10.56	710	1,800
	3/8/2018	18	1.1	170	2.1	10.67	780	1,900
	5/18/2018	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	2.9	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
	3/16/2022	6.9	40	96	0.66	8.94	450	1,200
6/9/2022	7.3	9.2	96	0.63	8.39	460	1,000	
9/22/2022	10	5.8	100	0.9	9.85	510	1,100	
12/21/2022	7	7.9	100	F1 1.1	9.5	450	1,100	
3/23/2023	6.7	11	100	0.65	9.22	440	1,100	
6/30/2023	7.7	12	96	0.64	8.30	470	970	
9/7/2023	6.1	9.4	F1 100	0.64	7.77	450	1,000	
12/18/2023	7.1	11	110	0.59	8.52	470	980	

Notes: All units are in mg/l except pH is in standard units.

Pred. Limit - Prediction Limit

Italic Date - Detection Monitoring and resample after statistical background establishment.

\* - Intrawell Prediction Limit. All others are interwell comparisons.

\*\* - Based on pooled background from G45S/T03S, all others based on G45S as background.

B - Compound was found in the blank and sample.

F1 - MS and/or MSD Recovery outside of limits.

**Bold** - Potential statistically significant increase.



Table 4. Initial Monitoring Well Network Appendix III Groundwater Analytical Results through 4Q2023- Midwest Generation, LLC, Joliet Station #9 Lincoln Stone Quarry, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
G48S down-gradient	11/20/2015	11.00	6.9	120	1.5	9.08	760	1,100
	5/5/2016	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	7.80	11	110	1.2	8.77	460	1,000
	<b>Pred. Limit</b>	<b>1.01</b>	<b>126**</b>	<b>203</b>	<b>0.35</b>	<b>7.52-7.04**</b>	<b>360**</b>	<b>955</b>
	9/27/2017	<b>7.60</b>	18	100	<b>1.1</b>	<b>8.94</b>	<b>480</b>	<b>1,100</b>
	11/22/2017	<b>8.60</b>	12	120	<b>1.2</b>	<b>9.42</b>	<b>450</b>	<b>1,000</b>
	3/8/2018	<b>5.30</b>	62	100	<b>0.85</b>	<b>8.13</b>	<b>450</b>	<b>1,000</b>
	5/18/2018	<b>5.90</b>	53	100	<b>0.92</b>	<b>7.79</b>	<b>370</b>	<b>1,100</b>
	12/11/2018	<b>7.30</b>	23	110	<b>1.1</b>	<b>8.42</b>	310	<b>1,000</b>
	6/25/2019	<b>7.10</b>	28	110	<b>1.0</b>	<b>8.07</b>	<b>390</b>	<b>1,000</b>
	11/7/2019	<b>5.80</b>	18	100	<b>0.89</b>	<b>7.83</b>	<b>380</b>	<b>1,000</b>
	6/26/2020	<b>7.10</b>	16	110	<b>1.0</b>	<b>9.20</b>	<b>400</b>	940
	12/7/2020	<b>6.0</b>	29	110	<b>1.1</b>	<b>8.4</b>	<b>410</b>	890
	6/24/2021	<b>4.3 B</b>	96	96	<b>0.71</b>	7.27	<b>480</b>	<b>1,100</b>
	12/16/2021	<b>6.0</b>	46	99	<b>0.91</b>	<b>7.02</b>	<b>430</b>	880
	3/16/2022	<b>5.8</b>	<b>130</b>	99	<b>0.96</b>	<b>7.87</b>	<b>430</b>	<b>1,100</b>
	6/9/2022	<b>5.6</b>	58	98	<b>0.87</b>	7.47	<b>440</b>	<b>1,000</b>
	9/22/2022	<b>6.8</b>	34	98	<b>0.97</b>	<b>8.14</b>	<b>430</b>	950
	12/21/2022	<b>6.4</b>	28	100	<b>1.3</b>	<b>8.66</b>	<b>410</b>	<b>1,100</b>
	3/23/2023	<b>6.0</b>	24	100	<b>0.96</b>	<b>8.68</b>	<b>370</b>	<b>1,000</b>
	6/30/2023	<b>6.4</b>	39	91	<b>0.89</b>	<b>8.03</b>	<b>380</b>	850
	9/7/2023	<b>5.1</b>	25	100	<b>0.93</b>	<b>7.75</b>	<b>390</b>	940
	12/18/2023	<b>5.8</b>	27	110	<b>0.88</b>	<b>8.11</b>	<b>390</b>	910

Notes: All units are in mg/l except pH is in standard units.  
 Pred. Limit - Prediction Limit.  
*Italics Date* - Detection Monitoring and resample after statistical background establishment.  
 \* - Intra-well Prediction Limit. All others are interwell comparisons.  
 \*\* - Based on pooled background from G45S/T03S, all others based on G45S as background.

B - Compound was found in the blank and sample.  
 F1 - MS and/or MSD Recovery outside of limits.  
**Bold** - Potential statistically significant increase.

Table 5. Appendix IV Initial Monitoring Well Network Groundwater Analytical Results through 4Q2023 - 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	
G455 sp-granite	11/20/2015	< 0.003	0.0081	0.044	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.056	< 0.0002	0.0120	1.76	< 0.0025	< 0.002	
	5/12/2016	< 0.003	0.0076	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	0.056	< 0.0002	0.0100	3.01	< 0.0025	< 0.002	
	6/30/2016	< 0.003	0.0075	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	0.054	< 0.0002	0.008	2.05	< 0.0025	< 0.002	
	8/25/2016	< 0.003	0.0076	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.031	< 0.0002	0.0086	1.91	< 0.0025	< 0.002	
	11/16/2016	< 0.003	0.0079	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.028	< 0.0002	0.0094	2.04	< 0.0025	< 0.002	
	2/14/2017	< 0.003	0.0093	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	0.029	< 0.0002	0.0083	1.85	< 0.0025	< 0.002	
	5/23/2017	< 0.003	0.0082	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.027	< 0.0002	0.0093	1.40	< 0.0025	< 0.002	
	7/7/2017	< 0.003	0.0086	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.1	< 0.0005	0.030	< 0.0002	0.007	1.88	< 0.0025	< 0.002	
	9/26/2017	< 0.003	0.0096	0.042	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.029	< 0.0002	0.0079	2.14	< 0.0025	< 0.002	
	11/21/2017	< 0.003	0.0094	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.028	< 0.0002	0.0072	8.45	< 0.0025	< 0.002	
	3/9/2018	< 0.003	0.0093	0.036	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	0.028	^ < 0.0002	0.008	1.89	< 0.0025	< 0.002	
	GWPS	NC	0.01	2.0	NC	NC	NC	NC	0.006	4.0	0.015	0.041	NC	0.10	5	0.05	NC
	5/21/2018	NA	0.0072	0.047	NA	NA	NA	NA	< 0.001	0.33	< 0.0005	0.033	NA	0.013	2.37	< 0.0025	NA
	12/7/2018	NA	0.0090	0.054	NA	NA	NA	NA	< 0.001	0.33	< 0.0005	0.031	NA	0.0100	1.910	< 0.0025	NA
	6/29/2019	NA	0.0100	0.059	NA	NA	NA	NA	< 0.001	0.30	< 0.0005	0.032	NA	0.0087	1.99	< 0.0025	NA
	11/14/2019	NA	< 0.0100	0.042	NA	NA	NA	NA	< 0.001	0.33	< 0.0005	0.034	NA	0.0100	2.89	< 0.010	NA
	6/26/2020	NA	0.011	0.049	NA	NA	NA	NA	< 0.001	0.33	< 0.0005	0.039	NA	0.0088	3.1	< 0.0025	NA
	12/11/2020	NA	0.011	0.042	NA	NA	NA	NA	< 0.001	0.38	^ < 0.0005	0.038	NA	0.012	1.88	< 0.0025	NA
	6/28/2021	< 3	0.01	0.034	< 1.00	< 0.50	< 5.00	< 0.001	0.35	< 0.0005	0.031	< 0.0002	0.0083	2.14	< 0.0025	< 2.00	
	12/16/2021	< 0.003	0.0092	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	0.36	< 0.0005	0.028	< 0.0002	0.0073	1.74	< 0.0025	< 0.002	
	3/16/2022	< 0.003	0.0018	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	0.36	< 0.0005	0.025	< 0.0002	0.0092	2.92	< 0.0025	< 0.002	
	6/10/2022	< 0.003	0.0082	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.028	< 0.0002	0.0072	2.17	< 0.0025	< 0.002	
	9/26/2022	< 0.003	0.0086	0.042	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.025	< 0.0002	0.011	2.63	< 0.0025	< 0.002	
	12/21/2022	< 0.003	0.0095	0.05	< 0.001	< 0.0005	< 0.005	< 0.001	0.72	< 0.0005	0.029	< 0.0002	0.0089	2.91	< 0.0025	< 0.002	
	3/23/2023	< 0.0030	0.0096	0.040	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.35	< 0.00050	0.030	< 0.00020	0.011	2.28	< 0.0025	< 0.0020	
	6/30/2023	< 0.0030	0.009	0.038	^1+ < 0.001	< 0.00050	< 0.0050	< 0.0010	0.36	< 0.00050	0.031	< 0.00020	0.012	1.88	< 0.0025	< 0.0020	
	9/14/2023	< 0.0020	0.0098	0.033	< 0.0010	< 0.00050	< 0.0050	< 0.00050	0.36	< 0.00050	0.026	< 0.00020	0.013	1.95	< 0.0050	< 0.0010	
	12/20/2023	^1+ < 0.0030	0.010	0.036	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	0.35	< 0.00050	0.028	< 0.00020	0.012	2.16	< 0.0025	< 0.0020	
	11/19/2015	< 0.003	0.0109	0.063	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	0.029	< 0.0002	0.006	0.0260	1.01	< 0.0025	< 0.002
	5/5/2016	< 0.003	0.0013	0.081	< 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	0.018	< 0.0002	0.03	0.03	< 0.0025	< 0.002	
	6/28/2016	< 0.003	0.0011	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.017	< 0.0002	0.037	1.18	< 0.0025	< 0.002	
	8/25/2016	< 0.003	< 0.001	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.2	< 0.0005	0.016	< 0.0002	0.043	1.54	< 0.0025	< 0.002	
	11/17/2016	< 0.003	0.0012	0.096	< 0.001	< 0.0005	< 0.005	0.0012	0.19	< 0.0005	0.022	< 0.0002	0.14	1.61	< 0.0025	< 0.002	
	2/15/2017	< 0.003	0.0011	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	< 0.05	< 0.0002	0.12	0.938	< 0.0025	< 0.002	
	5/22/2017	< 0.003	0.0017	0.088	^ < 0.001	< 0.0005	< 0.005	0.0015	0.23	< 0.0005	0.019	< 0.0002	0.13	1.21	< 0.0025	< 0.002	
	7/7/2017	< 0.003	0.001	0.078	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.1	< 0.0005	0.019	< 0.0002	0.099	1.11	< 0.0025	< 0.002	
	9/26/2017	< 0.003	0.0011	0.086	< 0.001	< 0.0005	< 0.005	0.0013	0.21	< 0.0005	0.018	< 0.0002	0.14	1.33	< 0.0025	< 0.002	
	11/20/2017	< 0.003	0.0014	0.087	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	< 0.0005	0.02	< 0.0002	0.2	1.59	< 0.0025	< 0.002	
	3/7/2018	< 0.003	0.0023	0.093	< 0.001	< 0.0005	< 0.005	0.0013	0.23	< 0.0005	0.022	< 0.0002	0.26	1.30	< 0.0025	< 0.002	
	GWPS	NC	0.01	2.0	NC	NC	NC	NC	0.006	4.0	0.015	0.041	NC	0.10	5	0.05	NC
	5/17/2018	NA	0.001	0.087	NA	NA	NA	NA	0.0013	0.24	< 0.0005	0.021	NA	0.240	1.25	< 0.0025	NA
	12/11/2018	NA	0.0014	0.095	NA	NA	NA	NA	0.0012	0.20	< 0.0005	0.021	NA	0.270	1.31	< 0.0025	NA
	6/24/2019	NA	0.0020	0.090	NA	NA	NA	NA	0.0010	0.270	< 0.0005	0.027	NA	0.370	1.33	< 0.0025	NA
	10/28/2019	NA	< 0.0100	0.088	NA	NA	NA	NA	0.0011	0.25	< 0.0005	0.026	NA	0.210	1.38	< 0.0100	NA
	6/23/2020	NA	0.0024	0.093	NA	NA	NA	NA	< 0.001	0.33	< 0.0005	0.025	NA	0.23	1.65	< 0.0025	NA
	12/15/2020	NA	0.0013	0.11	NA	NA	NA	NA	0.0015	0.27	< 0.0005	0.031	NA	0.14	1.74	< 0.0025	NA
	6/22/2021	< 0.003	0.0016	0.085	< 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	0.029	H < 0.0002	0.071	1.34	< 0.0025	< 0.002	
	12/9/2021	< 0.003	0.0011	0.085	< 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	0.026	< 0.0002	0.22	1.44	< 0.0025	< 0.002	
3/14/2022	< 0.003	0.0018	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	0.22	< 0.0005	0.032	< 0.0002	0.03	1.44	< 0.0025	< 0.002		
6/13/2022	< 0.003	0.0015	0.11	< 0.001	< 0.0005	< 0.005	0.0014	0.21	< 0.0005	0.025	< 0.0002	0.17	1.46	< 0.0025	< 0.002		
9/29/2022	< 0.003	0.0014	0.084	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	0.023	< 0.0002	0.22	2.12	< 0.0025	< 0.002		
12/21/2022	< 0.003	0.0011	0.081	< 0.001	< 0.0005	< 0.005	0.0012	0.52	< 0.0005	0.028	< 0.0002	0.34	1.16	< 0.0025	< 0.002		
3/20/2023	< 0.0030	0.0011	0.079	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.21	< 0.00050	0.033	< 0.00020	0.32	1.06	< 0.0025	< 0.0020		
6/30/2023	< 0.0030	0.002	0.077	^1+ < 0.001	< 0.0005	< 0.0050	< 0.0010	0.2	< 0.050	0.031	< 0.00020	0.16	2.17	< 0.0025	< 0.0020		
9/13/2023	< 0.0020	< 0.0020	0.080	< 0.0010	< 0.00050	< 0.0050	0.0010	0.20	< 0.00050	0.026	< 0.00020	0.14	1.07	< 0.0050	< 0.0010		
12/12/2023	< 0.0030	< 0.0010	0.075	< 0.0010	< 0.00050	< 0.0050	0.0011	0.18	< 0.00050	0.024	< 0.00020	0.14	1.54	< 0.0025	< 0.0020		
RO8S diam-granite	11/23/2015	< 0.003	0.0019	0.052	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.14	< 0.0002	0.410	1.608	0.0061	< 0.002	
	5/6/2016	< 0.003	0.0013	0.052	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.14	< 0.0002	0.390	1.08	0		

Table 5. Appendix IV Initial Monitoring Well Network Groundwater Analytical Results through 4Q2023 - 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	
G305 down-gradient	11/19/2015	< 0.003	< 0.001	0.049	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.82	< 0.0005	0.036	< 0.0002	0.0068	2.078	< 0.0025	< 0.002	
	5/11/2016	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	0.0011	0.81	< 0.0005	0.037	0.00027	0.011	2.52	< 0.0025	< 0.002	
	6/29/2016	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	0.0011	0.82	< 0.0005	0.04	< 0.0002	0.014	2.79	< 0.0025	< 0.002	
	8/23/2016	< 0.003	< 0.001	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	0.81	< 0.0005	0.039	< 0.0002	0.017	3.67	< 0.0025	< 0.002	
	11/17/2016	< 0.003	< 0.001	0.056	< 0.001	< 0.0005	< 0.005	0.0018	0.74	< 0.0005	0.042	< 0.0002	0.019	1.98	< 0.0025	< 0.002	
	2/13/2017	< 0.003	< 0.001	0.046	< 0.001	< 0.0005	< 0.005	< 0.0010	0.69	< 0.0005	0.04	< 0.0002	0.018	2.44	< 0.0025	< 0.002	
	5/24/2017	< 0.003	< 0.001	0.046	^ < 0.001	< 0.0005	< 0.005	< 0.0010	0.81	< 0.0005	0.038	< 0.0002	0.017	2.15	< 0.0025	< 0.002	
	7/5/2017	< 0.003	< 0.001	0.054	< 0.001	< 0.0005	< 0.005	0.0021	0.76	^ < 0.0005	0.038	< 0.0002	0.019	1.83	< 0.0025	^ < 0.002	
	9/25/2017	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	0.0015	0.78	< 0.0005	0.036	< 0.0002	0.023	2.19	< 0.0025	< 0.002	
	11/20/2017	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	0.0022	0.78	< 0.0005	0.041	< 0.0002	0.021	2.50	< 0.0025	< 0.002	
	3/6/2018	< 0.003	< 0.001	0.049	^ < 0.001	< 0.0005	< 0.005	< 0.0010	0.76	< 0.0005	0.042	< 0.0002	0.021	2.83	< 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	
	5/16/2018	NA	< 0.001	0.049	NA	NA	NA	0.0024	0.75	^ < 0.0005	0.04	NA	0.019	2.12	< 0.0025	NA	
	12/7/2018	NA	< 0.001	0.048	NA	NA	NA	0.0010	0.760	0.0048	0.042	NA	0.0230	2.26	< 0.0025	NA	
	6/18/2019	NA	< 0.001	0.051	NA	NA	NA	0.0018	0.750	< 0.0005	0.041	NA	0.017	2.11	< 0.0025	NA	
	11/5/2019	NA	< 0.010	0.050	NA	NA	NA	0.0023	0.740	< 0.0005	0.044	NA	0.021	1.74	< 0.0100	NA	
	6/24/2020	NA	< 0.010	0.045	NA	NA	NA	< 0.001	0.79	< 0.0005	0.038	NA	0.019	2.07	< 0.0025	NA	
	12/14/2020	NA	< 0.001	0.043	NA	NA	NA	< 0.001	0.89	^ < 0.0005	0.042	NA	0.022	2.160	< 0.0025	NA	
	6/23/2021	< 0.003	< 0.001	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	0.77	^ < 0.0005	0.047	H< 0.0002	0.022	2.06	< 0.0025	< 0.002	
	12/10/2021	< 0.003	0.0019	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	0.77	< 0.0005	0.041	< 0.0002	0.025	2.26	< 0.0025	< 0.002	
	3/15/2022	< 0.003	0.001	0.083	< 0.001	< 0.0005	< 0.005	0.001	0.75	< 0.0005	0.025	< 0.0002	0.28	2.34	< 0.0025	< 0.002	
	6/7/2022	< 0.003	< 0.001	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	0.76	< 0.0005	0.04	< 0.0002	0.016	3.55	< 0.0025	< 0.002	
	9/19/2022	< 0.003	0.0017	0.09	< 0.001	< 0.0005	< 0.005	0.014	0.78	< 0.0005	0.039	< 0.0002	0.012	7.79	< 0.0025	< 0.002	
	11/8/2022 (R)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.09	NA	NA	
	12/19/2022	< 0.003	< 0.001	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.95	< 0.0005	0.038	< 0.0002	0.0091	3.08	< 0.0025	< 0.002	
	3/14/2023	< 0.0030	< 0.0010	0.050	< 0.0010	< 0.00050	< 0.0050	< 0.0015	0.75	< 0.00050	0.042	< 0.00020	0.010	3.06	< 0.0025	< 0.0020	
	6/28/2023	< 0.0030	< 0.0010	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.001	0.78	< 0.00050	0.042	< 0.00020	0.012	3.40	< 0.0025	< 0.0020	
	9/6/2023	< 0.0020	< 0.0020	0.043	< 0.0010	< 0.00020	< 0.00050	< 0.00050	0.77	< 0.00050	0.033	< 0.00020	0.012	2.26	< 0.0050	< 0.0010	
	12/11/2023	< 0.0030	< 0.0010	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.72	< 0.00050	0.040	< 0.00020	0.014	2.76	< 0.0025	< 0.0020	
	G305 down-gradient	11/20/2015	< 0.003	0.014	0.041	^ < 0.001	< 0.0005	< 0.005	< 0.001	1.3	< 0.0005	0.022	< 0.0002	0.33	1.484	< 0.0025	< 0.002
		5/10/2016	< 0.003	0.017	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	1.3	< 0.0005	0.021	< 0.0002	0.3	1.41	< 0.0025	< 0.002
		6/30/2016	< 0.003	0.013	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	1.3	< 0.0005	0.023	< 0.0002	0.3	1.17	< 0.0025	< 0.002
		8/25/2016	< 0.003	0.015	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	1.3	< 0.0005	0.02	< 0.0002	0.31	1.87	< 0.0025	< 0.002
		11/18/2016	< 0.003	0.016	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	1.2	< 0.0005	0.023	< 0.0002	0.33	2.36	< 0.0025	< 0.002
		2/14/2017	< 0.003	0.011	0.042	< 0.001	< 0.0005	< 0.005	< 0.001	1.2	< 0.0005	0.021	< 0.0002	0.24	1.84	< 0.0025	< 0.002
		5/25/2017	< 0.006	0.019	0.078	^ 0.002	< 0.001	< 0.01	< 0.002	1.4	< 0.001	0.04	< 0.0002	0.45	1.76	< 0.005	< 0.004
		7/7/2017	< 0.003	0.011	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	1.3	< 0.0005	0.021	< 0.0002	0.26	1.59	< 0.0025	< 0.002
		9/26/2017	< 0.003	0.011	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	1.3	< 0.0005	0.021	< 0.0002	0.2	1.41	< 0.0025	< 0.002
		11/20/2017	< 0.003	0.01	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	1.3	< 0.0005	0.019	< 0.0002	0.19	1.73	< 0.0025	< 0.002
		3/7/2018	< 0.003	0.011	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	1.3	< 0.0005	0.019	< 0.0002	0.14	1.94	< 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	0.011	0.043	NA	NA	NA	< 0.001	1.2	< 0.0005	0.021	NA	0.13	1.57	FI < 0.0025	NA	
12/14/2018		NA	0.0069	0.041	NA	NA	NA	< 0.001	1.2	< 0.0005	0.022	NA	0.065	2.04	< 0.0025	NA	
6/26/2019		NA	0.0074	0.041	NA	NA	NA	< 0.001	1.1	< 0.0005	0.018	NA	0.065	1.18	FI < 0.0025	NA	
11/6/2019		NA	0.01	0.041	NA	NA	NA	< 0.001	1.1	< 0.0005	0.019	NA	0.013	1.620	0.01	NA	
6/25/2020		NA	0.0053	0.042	NA	NA	NA	< 0.001	1.1	< 0.0005	0.019	NA	0.02	2.19	< 0.0025	NA	
12/7/2020		NA	0.0044	0.043	NA	NA	NA	< 0.001	1.2	< 0.0005	0.024	NA	0.018	2.16	< 0.0025	NA	
6/30/2021		3	< 0.017	0.049	U^+1	U^+1	< 0.005	< 0.01	1.1	< 0.0005	0.024	< 0.0002	0.017	2.57	< 0.0025	< 2	
12/15/2021		< 0.003	0.0028	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	1.1	< 0.0005	0.022	< 0.0002	0.01	2.45	< 0.0025	< 0.002	
3/15/2022		< 0.003	< 0.001	0.047	< 0.001	< 0.0005	< 0.005	0.0012	1	< 0.0005	0.039	< 0.0002	0.017	1.34	< 0.0025	< 0.002	
6/10/2022		< 0.003	0.0024	0.046	< 0.001	< 0.0005	< 0.005	< 0.001	0.99	< 0.0005	0.023	< 0.0002	0.0095	2.32	< 0.0025	< 0.002	
9/28/2022		< 0.003	0.0023	0.044	^+1 < 0.001	< 0.0005	< 0.005	< 0.001	0.98	< 0.0005	0.021	< 0.0002	0.014	2.43	< 0.0025	< 0.002	
12/19/2022		< 0.003	0.002	0.046	< 0.001	< 0.0005	< 0.005	< 0.001	1.2	< 0.0005	0.021	< 0.0002	0.0098	1.83	< 0.0025	< 0.002	
3/17/2023		< 0.0030	0.0022	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.93	< 0.00051	0.022	< 0.00020	0.010	1.22	< 0.0025	< 0.0020	
6/29/2023		< 0.0030	0.002	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.95	< 0.00050	0.022	< 0.00020	0.009	2.45	< 0.0025	< 0.0020	
9/12/2023		< 0.0020	< 0.0020	0.042	< 0.0010	< 0.00020	< 0.00050	< 0.00050	0.93	< 0.00050	0.021	< 0.00020	0.0058	1.60	< 0.0050	0.0021	
12/19/2023		< 0.0030	0.0069	0.047	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.88	0.00072	0.021	< 0.00020	0.015	2.04	< 0.0025	< 0.0020	
R325 down-gradient		11/19/2015	< 0.003	0.0018	0.043	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.28	< 0.0005	0.04	< 0.0002	0.16	1.928	< 0.0025	< 0.002
		5/5/2016	< 0.003	0.0034	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	0.069	< 0.0002	0.29	2.26	&lt	

Table 5. Appendix IV Initial Monitoring Well Network Groundwater Analytical Results through 4Q2023 - 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
G445 down-grant	11/20/2015	< 0.003	0.0012	0.053	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	0.017	< 0.0002	0.1000	1.161	< 0.0025	< 0.002
	5/20/2016	< 0.003	0.0012	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	0.045	< 0.0002	0.046	< 0.415	< 0.0025	< 0.002
	6/30/2016	< 0.003	0.0044	0.001	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	0.014	< 0.0002	0.025	0.009	< 0.0025	< 0.002
	8/26/2016	< 0.003	< 0.001	0.053	^ < 0.001	< 0.0005	< 0.005	< 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	< 0.005	< 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	< 0.005	< 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	< 0.005	< 0.001	0.19	< 0.0005	0.011	< 0.0002	0.031	1.02	< 0.0025	< 0.002
	7/10/2017	< 0.003	< 0.001	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.012	< 0.0002	0.061	0.667	< 0.0025	< 0.002
	9/28/2017	< 0.003	0.0043	0.001	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.014	< 0.0002	0.081	0.614	< 0.0025	< 0.002
	11/21/2017	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 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	< 0.005	< 0.001	0.18	< 0.0005	0.017	< 0.0002	0.049	1.31	< 0.0025	< 0.002
	<b>GWPS</b>	<b>NC</b>	<b>0.01</b>	<b>2.0</b>	<b>NC</b>	<b>NC</b>	<b>NC</b>	<b>0.006</b>	<b>4.0</b>	<b>0.015</b>	<b>0.041</b>	<b>NC</b>	<b>0.10</b>	<b>5</b>	<b>0.65</b>	<b>NC</b>
	5/17/2018	NA	< 0.001	0.054	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	< 0.001	0.19	< 0.0005	0.019	NA	<b>0.14</b>	0.454	< 0.0025	NA
	6/19/2019	NA	< 0.001	0.062	NA	NA	NA	< 0.001	0.19	< 0.0005	0.023	NA	<b>0.13</b>	0.841	< 0.0025	NA
	11/12/2019	NA	< 0.001	0.065	NA	NA	NA	< 0.001	0.21	< 0.0005	0.026	NA	<b>0.20</b>	1.01	< 0.0025	NA
	6/29/2020	NA	< 0.001	0.06	NA	NA	NA	< 0.001	0.21	< 0.0005	0.024	NA	<b>0.15</b>	1.860	< 0.0025	NA
	12/15/2020	NA	< 0.001	0.062	NA	NA	NA	< 0.001	0.25	< 0.0005	0.03	NA	<b>0.28</b>	1.18	< 0.0025	NA
	6/20/2021	< 3	< 0.001	0.058	U <sup>1+</sup> < 1	< 0.5	< 5	< 0.001	0.21	< 0.0005	0.026	< 0.0002	<b>0.22</b>	1.29	< 0.0025	> 2
	12/16/2021	< 0.003	< 0.001	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	0.2	< 0.0005	0.027	< 0.0002	<b>0.29</b>	1.12	< 0.0025	< 0.002
	3/15/2022	< 0.003	0.0025	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	0.022	< 0.0002	0.093	0.98	< 0.0025	< 0.002
	6/9/2022	< 0.003	< 0.001	0.067	< 0.001	< 0.0005	< 0.005	< 0.001	0.2	< 0.0005	0.023	< 0.0002	<b>0.17</b>	1.36	< 0.0025	NA
	9/26/2022	< 0.003	0.002	0.065	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	0.027	< 0.0002	<b>0.24</b>	1.6	< 0.0025	< 0.002
	12/21/2022	< 0.003	< 0.001	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	0.49	< 0.0005	0.023	< 0.0002	<b>0.29</b>	1.84	< 0.0025	< 0.002
	3/15/2023	< 0.003	< 0.001	0.067	< 0.001	< 0.0005	< 0.005	< 0.001	0.2	< 0.0005	0.026	< 0.0002	<b>0.26</b>	0.783	< 0.0025	< 0.002
	6/29/2023	< 0.003	< 0.001	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	0.026	< 0.00020	<b>0.24</b>	1.36	< 0.0025	< 0.002
9/13/2023	< 0.0020	0.002	0.062	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.21	< 0.00050	0.024	< 0.00020	<b>0.21</b>	1.54	< 0.0050	< 0.0010	
12/19/2023	< 0.0030	0.0011	0.067	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.20	< 0.00050	0.023	< 0.00020	<b>0.17</b>	1.50	< 0.0025	< 0.0020	
G465 down-grant	11/23/2015	< 0.003	0.0033	0.064	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.27	< 0.0005	0.073	< 0.0002	0.5	1.468	< 0.0025	< 0.002
	5/9/2016	< 0.003	0.0018	0.099	< 0.001	< 0.0005	< 0.005	< 0.001	0.28	0.0005	0.11	< 0.0002	0.7	1.85	< 0.0025	< 0.002
	6/30/2016	< 0.003	0.0014	0.098	< 0.001	< 0.0005	< 0.005	< 0.001	0.29	< 0.0005	0.13	< 0.0002	0.71	1.94	< 0.0025	< 0.002
	8/26/2016	< 0.003	0.0027	0.054	^ < 0.001	< 0.0005	< 0.005	< 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	< 0.005	< 0.001	0.39	< 0.0005	0.124	< 0.0002	1.8	< 0.401	< 0.0025	< 0.002
	2/16/2017	< 0.003	0.0024	0.053	< 0.001	< 0.0005	< 0.005	< 0.0010	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	< 0.005	< 0.0010	0.44	< 0.0005	0.11	< 0.0002	1.4	0.683	< 0.0025	< 0.002
	7/6/2017	< 0.003	0.0034	0.044	< 0.001	< 0.0005	< 0.005	< 0.0010	0.41	^ < 0.0005	0.076	< 0.0002	0.92	0.709	< 0.0025	^ < 0.002
	9/27/2017	< 0.003	0.0043	0.031	< 0.001	< 0.0005	< 0.005	< 0.0010	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	< 0.005	< 0.0010	0.43	< 0.0005	0.11	< 0.0002	0.68	0.776	< 0.0025	< 0.002
	3/8/2018	< 0.003	0.0039	0.049	< 0.001	< 0.0005	< 0.005	< 0.0010	0.41	< 0.0005	0.093	< 0.0002	0.82	0.729	< 0.0025	< 0.002
	<b>GWPS</b>	<b>NC</b>	<b>0.01</b>	<b>2.0</b>	<b>NC</b>	<b>NC</b>	<b>NC</b>	<b>0.006</b>	<b>4.0</b>	<b>0.015</b>	<b>0.041</b>	<b>NC</b>	<b>0.10</b>	<b>5</b>	<b>0.65</b>	<b>NC</b>
	5/18/2018	NA	0.0028	0.048	NA	NA	NA	< 0.0010	0.4	< 0.0005	<b>0.073</b>	NA	<b>0.84</b>	1.07	< 0.0025	NA
	12/11/2018	NA	0.0023	0.055	NA	NA	NA	< 0.001	0.380	< 0.0005	<b>0.096</b>	NA	<b>1.20</b>	1.22	< 0.0025	NA
	6/19/2019	NA	<b>0.014</b>	0.040	NA	NA	NA	< 0.001	0.330	< 0.0005	<b>0.22</b>	NA	<b>1.80</b>	1.37	< 0.0025	NA
	11/13/2019	NA	< 0.050	0.041	NA	NA	NA	< 0.001	0.310	< 0.0050	<b>0.11</b>	NA	<b>1.60</b>	1.3	< 0.0100	NA
	6/29/2020	NA	<b>0.075</b>	0.05	NA	NA	NA	< 0.001	0.34	< 0.0050	<b>0.23</b>	NA	<b>1.7</b>	2.780	< 0.0025	NA
	12/15/2020	NA	<b>0.27</b>	0.075	NA	NA	NA	< 0.001	0.35	< 0.00085	<b>0.21</b>	NA	<b>1.5</b>	2.16	< 0.0025	NA
	6/30/2021	< 3	<b>0.044</b>	0.057	U <sup>1+</sup> < 0.001	< 0.0005	< 0.0050	< 0.0010	0.23	< 0.0005	<b>0.18</b>	< 0.0002	<b>1.8</b>	2.67	< 0.0025	< 0.0020
	12/15/2021	< 0.003	<b>0.18</b>	0.067	U <sup>1+</sup> < 0.001	< 0.0005	< 0.005	< 0.001	0.27	< 0.0005	<b>0.16</b>	< 0.0002	<b>1.4</b>	2.61	< 0.0025	< 0.002
	3/11/2022	< 0.003	<b>0.17</b>	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	<b>0.13</b>	< 0.0002	<b>1.6</b>	3.65	< 0.0025	< 0.002
	6/9/2022	< 0.003	<b>0.017</b>	0.042	< 0.001	< 0.0005	< 0.005	< 0.001	0.26	< 0.0005	<b>0.18</b>	< 0.0002	<b>1.3</b>	1.72	< 0.0025	< 0.002
	9/26/2022	< 0.003	<b>0.11</b>	0.057	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	<b>0.19</b>	< 0.0002	<b>1.7</b>	2.59	< 0.0025	< 0.002
	12/20/2022	< 0.003	<b>0.12</b>	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	FI 0.58	< 0.0005	<b>0.17</b>	< 0.0002	<b>1.9</b>	4.78	< 0.0025	< 0.002
	3/22/2023	< 0.0030	<b>0.056</b>	0.053	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.31	< 0.00050	<b>0.20</b>	< 0.00020	<b>1.5</b>	2.57	< 0.0025	< 0.0020
	6/29/2023	< 0.0030	<b>0.044</b>	0.056	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.23	< 0.00050	<b>0.17</b>	< 0.00020	<b>1.0</b>	2.55	< 0.0025	< 0.0020
	9/13/2023	< 0.0020	<b>0.11</b>	0.059	< 0.0010	< 0.00020	< 0.0050	0.0012	0.24	< 0.00050	<b>0.17</b>	< 0.00020	<b>1.1</b>	3.85	< 0.0050	< 0.0010
	12/30/2023	< 0.0030	<b>0.051</b>	0.057	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	0.23	< 0.00050	<b>0.18</b>	< 0.00020	<b>1.1</b>	2.67	< 0.0025	< 0.0020
	11/23/2015	< 0.003	0.018	0.018	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.45	< 0.0005	0.036	< 0.0002	0.32			

Table 5. Appendix IV Initial Monitoring Well Network Groundwater Analytical Results through 4Q2023 - 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
G48S down-pipes	11/20/2015	< 0.003	0.03	0.015	^ < 0.001	< 0.0005	< 0.005	< 0.001	1.5	< 0.0005	0.015	< 0.0002	1.4	0.8512	< 0.0025	< 0.002
	5/5/2016	< 0.003	0.046	0.014	< 0.001	< 0.0005	< 0.005	< 0.001	1.5	< 0.0005	0.016	< 0.0002	1.2	0.800	< 0.0025	< 0.002
	7/1/2016	< 0.003	0.038	0.011	< 0.001	^ < 0.0005	< 0.005	< 0.001	1.4	< 0.0005	0.013	< 0.0002	1.2	1.01	< 0.0025	< 0.002
	8/24/2016	< 0.003	0.032	0.014	< 0.001	< 0.0005	< 0.005	< 0.001	1.4	< 0.0005	0.012	< 0.0002	1.1	1.16	< 0.0025	< 0.002
	11/16/2016	< 0.003	0.03	0.018	< 0.001	< 0.0005	< 0.005	< 0.001	1.4	< 0.0005	0.016	< 0.0002	1.1	1.65	< 0.0025	< 0.002
	2/15/2017	< 0.003	0.038	0.015	< 0.001	< 0.0005	< 0.005	< 0.001	1.2	< 0.0005	0.014	< 0.0002	0.79	0.824	< 0.0025	< 0.002
	5/23/2017	< 0.003	0.03	0.014	^ < 0.001	< 0.0005	< 0.005	< 0.001	1.3	< 0.0005	0.016	< 0.0002	0.95	0.661	< 0.0025	< 0.002
	7/10/2017	< 0.003	0.022	0.017	< 0.001	< 0.0005	< 0.005	< 0.001	1.2	< 0.0005	0.018	< 0.0002	0.84	1.39	< 0.0025	< 0.002
	9/27/2017	< 0.003	0.024	0.019	< 0.001	< 0.0005	< 0.005	< 0.001	1.1	< 0.0005	0.019	< 0.0002	0.72	1.32	< 0.0025	< 0.002
	11/22/2017	< 0.003	0.027	0.015	< 0.001	< 0.0005	< 0.005	< 0.001	1.2	< 0.0005	0.016	< 0.0002	0.77	1.27	< 0.0025	< 0.002
	3/8/2018	< 0.003	0.017	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	0.85	< 0.0005	0.023	< 0.0002	0.51	2.30	< 0.0025	< 0.002
	GWPS	NC	<b>0.01</b>	<b>2.0</b>	NC	NC	NC	<b>0.006</b>	<b>4.0</b>	<b>0.015</b>	<b>0.041</b>	NC	<b>0.10</b>	<b>5</b>	<b>0.05</b>	NC
	5/18/2018	NA	<b>0.022</b>	0.023	NA	NA	NA	< 0.001	0.92	< 0.0005	0.023	NA	<b>0.49</b>	0.962	< 0.0025	NA
	12/11/2018	NA	<b>0.023</b>	0.016	NA	NA	NA	< 0.001	1.1	0.0049	0.019	NA	<b>0.79</b>	0.921	< 0.0025	NA
	6/25/2019	NA	<b>0.022</b>	0.018	NA	NA	NA	< 0.001	0.95	< 0.0005	0.022	NA	<b>0.73</b>	1.33	< 0.0025	NA
	11/7/2019	NA	<b>0.012</b>	0.027	NA	NA	NA	< 0.001	0.89	< 0.005	0.019	NA	<b>0.59</b>	1.24	< 0.01	NA
	6/26/2020	NA	<b>0.022</b>	0.017	NA	NA	NA	< 0.001	1.0	< 0.005	0.021	NA	<b>0.54</b>	0.971	< 0.0025	NA
	12/7/2020	NA	<b>0.016</b>	0.02	NA	NA	NA	< 0.001	1.1	< 0.0005	0.026	NA	<b>0.41</b>	2.0	< 0.0025	NA
	6/24/2021	< 0.003	0.0026	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	0.71	< 0.0005	0.032	U H 0.0002	<b>0.26</b>	3.89	< 0.0025	< 0.002
	12/16/2021	< 0.003	0.0076	0.023	< 0.001	< 0.0005	< 0.005	< 0.001	0.91	< 0.0005	0.024	< 0.0002	<b>0.52</b>	1.87	< 0.0025	< 0.002
	3/16/2022	< 0.003	< 0.001	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	0.96	< 0.0005	0.024	< 0.0002	<b>0.27</b>	2.56	< 0.0025	< 0.002
	6/9/2022	< 0.003	0.0084	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	0.87	< 0.0005	0.027	< 0.0002	<b>0.38</b>	1.36	< 0.0025	< 0.002
	9/22/2022	< 0.003	<b>0.011</b>	0.019	^1+ ^2 < 0.001	< 0.0005	< 0.005	< 0.001	0.97	< 0.0005	0.023	< 0.0002	<b>0.43</b>	2.51	< 0.0025	< 0.002
	12/21/2022	< 0.003	<b>0.014</b>	0.018	< 0.001	< 0.0005	< 0.005	< 0.001	1.3	< 0.0005	0.022	< 0.0002	<b>0.43</b>	1.12	< 0.0025	< 0.002
	3/23/2023	< 0.0030	<b>0.016</b>	0.017	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.96	< 0.00050	0.021	< 0.00020	<b>0.37</b>	1.25	< 0.0025	< 0.0020
	6/30/2023	< 0.0030	<b>0.011</b>	0.021	^1+ < 0.001	< 0.00050	< 0.0050	< 0.0010	0.89	< 0.00050	0.028	< 0.00020	<b>0.32</b>	< 0.711	< 0.0025	< 0.0020
	9/7/2023	< 0.0020	0.0097	0.016	0.0010	< 0.00020	< 0.00050	< 0.00050	0.93	< 0.00050	0.019	< 0.00020	<b>0.32</b>	0.839	< 0.0050	< 0.0040
	12/18/2023	< 0.0030	<b>0.012</b>	0.019	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.88	< 0.00050	0.024	< 0.00020	<b>0.35</b>	1.42	< 0.0025	< 0.0020

Notes:  
 All units are in mg/l except Radium is in pCi/L as noted.  
 NC - Not Calculated since not detected compound.  
 F1 - MS and/or MSD Recovery outside of limits.  
 R - Compound was found in the blank and sample.  
 NA - Not Analyzed  
 DNYA - Data Not Yet Available.  
 ^ - Detects instrument related QC exceeds the control limits.  
 GWPS - Groundwater Protection Standard.  
**ROL** - Above GWPS.  
 H - Sample prep or analyzed past holding time.  
 ^2 - Continuing calibration verification outside limits, High bias.  
 ^1 - Initial verification calibration outside of limits, biased high.

Table 6. Appendix III Expanded Assessment Network Groundwater Analytical Results through 4Q2023.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
	Prediction Limit	1.006	126*	203.2	0.35	7.52-7.04*	360*	955
G31S down-gradient	12/10/2018	<b>4.4</b>	<b>130</b>	170	0.26	7.17	290	<b>1000</b>
	6/24/2019	<b>5.9</b>	<b>160</b>	190	0.27	7.16	<b>370</b>	<b>1100</b>
	12/18/2019	<b>5.1</b>	<b>140</b>	190 F1	0.28	7.48	<b>380</b>	<b>1100</b>
	6/30/2020	<b>4.5</b>	<b>140</b>	<b>230</b>	0.26	7.26	<b>390</b>	<b>1100</b>
	12/9/2020	<b>4.5</b>	120	180	0.29	7.29	<b>400</b>	890
	6/30/2021	B <b>4.6</b>	<b>150</b>	180	0.25	7.29	<b>460</b>	<b>1000</b>
	12/13/2021	<b>4.9</b>	<b>150</b>	160	0.24	7.29	<b>450</b>	<b>1100</b>
	3/11/2022	<b>5.1</b>	<b>150</b>	140	0.26	7.06	<b>490</b>	<b>1000</b>
	6/10/2022	<b>4.8</b>	<b>150</b>	140	0.24	7.29	<b>480</b>	<b>1100</b>
	9/27/2022	<b>4.5</b>	<b>160</b>	160	0.24	<b>7.60</b>	<b>480</b>	<b>1100</b>
	12/16/2022	<b>5</b>	<b>140</b>	130	0.57	7.40	<b>450</b>	<b>1100</b>
	3/15/2023	<b>4.6</b>	<b>150</b>	150	0.25	7.39	<b>420</b>	<b>1100</b>
	6/28/2023	<b>3.2</b>	<b>150</b>	160	0.25	7.27	<b>420</b>	<b>1000</b>
9/6/2023	<b>2.8</b>	<b>140</b>	F1 190	0.25	7.42	<b>410</b>	<b>1200</b>	
12/11/2023	<b>3.4</b>	<b>140</b>	180	0.23	7.46	<b>400</b>	<b>1200</b>	
G33S down-gradient	12/10/2018	0.6	36	6.3	<b>0.98</b>	7.41	50	410
	6/24/2019	<b>1.4</b>	45	4.8	<b>1.1</b>	7.37	61	420
	12/13/2019	<b>1.6</b>	44	4.8	<b>1.4</b>	<b>7.59</b>	66	440
	6/24/2020	0.97	42	4.2	<b>0.97</b>	<b>7.59</b>	51	370
	12/10/2020	1.00	51	12	<b>1.1</b>	7.41	74	360
	6/24/2021	B <b>1.3</b>	55	10	<b>0.89</b>	7.5	69	430
	12/13/2021	0.71	52	13	<b>0.56</b>	7.52	66	380
	3/11/2022	<b>1.1</b>	55	14	<b>0.71</b>	7.44	79	470
	6/6/2022	0.78	53	12	<b>0.62</b>	7.34	F1 69	380
	9/28/2022	0.91	61	12	<b>0.52</b>	7.32	63	360
	12/16/2022	0.96	56	12	<b>0.89</b>	7.48	69	410
	3/15/2023	0.72	54	13	<b>0.56</b>	7.42	68	510
	6/28/2023	0.97	64	13	<b>0.59</b>	7.45	F1 73	420
9/12/2023	0.88	53	15	<b>0.61</b>	<b>7.61</b>	77	430	
12/15/2023	0.93	57	13	<b>0.48</b>	7.16	73	430	
T01S down-gradient	12/13/2018	<b>3.3</b>	56	110	<b>1.1</b>	7.37	240	900
	6/26/2019	<b>4.3</b>	58	110	<b>1.1</b>	7.43	<b>450</b>	930
	12/26/2019	<b>4.4</b>	57	100	<b>1.2</b>	<b>7.86</b>	340	940
	6/25/2020	<b>4.0</b>	52	100	<b>1.1</b>	<b>7.75</b>	<b>390</b>	900
	12/14/2020	<b>3.8</b>	48	120	<b>1.3</b>	7.44	<b>400</b>	870
	6/28/2021	B <b>4.6</b>	51	100	<b>1.2</b>	<b>7.63</b>	<b>430</b>	910
	12/13/2021	<b>4.8</b>	62	97	<b>1.1</b>	<b>7.67</b>	<b>410</b>	910
	3/14/2022	<b>4.5</b>	62	97	<b>1.2</b>	<b>7.53</b>	<b>420</b>	<b>1000</b>
	6/14/2022	<b>4.6</b>	54	100	<b>1.2</b>	<b>7.81</b>	<b>420</b>	<b>990</b>
	9/28/2022	<b>4.2</b>	51	100	<b>1.1</b>	<b>7.71</b>	<b>410</b>	900
	12/20/2022	<b>4.3</b>	47	100	<b>1.3</b>	<b>7.46</b>	<b>380</b>	<b>980</b>
	3/21/2023	<b>4.3</b>	50	100	<b>1.1</b>	<b>8.04</b>	<b>430</b>	<b>1000</b>
	7/3/2023	<b>4.7</b>	49	98	<b>1.1</b>	<b>7.90</b>	<b>410</b>	890
9/28/2023	<b>3.9</b>	51	98	<b>0.99</b>	<b>7.86</b>	<b>420</b>	950	
12/13/2023	<b>4.8</b>	51	100	<b>1.0</b>	7.45	<b>400</b>	940	
T02S down-gradient	12/14/2018	<b>4.90</b>	53	110	<b>0.47</b>	<b>7.55</b>	210	870
	6/25/2019	<b>3.5</b>	57 V	110	<b>0.4</b>	7.4	230	750
	12/27/2019	<b>5.2</b>	76	96	<b>0.67</b>	<b>8.03</b>	340	<b>1000</b>
	6/23/2020	<b>4.5</b>	74	F1 88	<b>0.59</b>	7.78	<b>370</b>	920
	12/9/2020	<b>4.9</b>	64	97	<b>0.55</b>	<b>7.7</b>	<b>370</b>	740
	6/21/2021	<b>5.9</b>	49	95	<b>0.53</b>	<b>7.69</b>	<b>380</b>	920
	12/9/2021	<b>5.1</b>	69	99	<b>0.41</b>	<b>7.77</b>	360	F1 890
	3/10/2022	<b>5.2</b>	61	95	<b>0.46</b>	<b>8.08</b>	<b>380</b>	<b>970</b>
	6/14/2022	<b>5.3</b>	53	90	<b>0.46</b>	<b>8.08</b>	360	830
	9/29/2022	<b>4.1</b>	71	110	<b>0.36</b>	7.26	320	810
	12/20/2022	<b>4.6</b>	71	100	<b>0.59</b>	7.49	360	920
	3/20/2023	<b>5.8</b>	82	110	<b>0.36</b>	<b>7.66</b>	<b>370</b>	<b>970</b>
	6/30/2023	<b>4.8</b>	88	120	0.34	<b>8.01</b>	320	870
9/27/2023	<b>3.9</b>	85	120	0.29	<b>7.70</b>	320	<b>960</b>	
12/12/2023	<b>4.8</b>	72	120	0.32	<b>7.60</b>	F1 330	<b>1100</b>	
T04S down-gradient	12/19/2018	0.24	93	8.7	0.24	<b>7.89</b>	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
	12/20/2022	ABD	ABD	ABD	ABD	ABD	ABD	ABD
	3/15/2023	ABD	ABD	ABD	ABD	ABD	ABD	ABD

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 6 (cont'd). Appendix III Expanded Assessment Network Groundwater Analytical Results through 4Q2023.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
	Prediction Limit	1.006	126*	203.2	0.35	7.52-7.04*	360*	955
T05S down-gradient	12/19/2018	<b>13.0</b>	1.4	150	<b>1.8</b>	<b>10.37</b>	<b>410</b>	<b>1600</b>
	6/20/2019	<b>13 B</b>	2.2	140	<b>1.8</b>	<b>10.13</b>	<b>530</b>	<b>1600</b>
	12/30/2019	<b>14</b>	1.7	140	<b>1.9</b>	<b>10.35</b>	<b>680</b>	<b>1600</b>
	6/22/2020	<b>12</b>	3.5	150	<b>1.8</b>	<b>10.71</b>	<b>560</b>	<b>1600</b>
	12/8/2020	<b>14</b>	1.5	140	<b>2.0</b>	<b>10.35</b>	<b>610</b>	<b>1400</b>
	6/22/2021	<b>14</b>	3.7	120	<b>1.6</b>	<b>9.97</b>	<b>630</b>	<b>1600</b>
	12/10/2021	<b>14</b>	2.7	140	<b>1.8</b>	<b>9.41</b>	<b>630</b>	<b>1500</b>
	3/10/2022	<b>12</b>	3.3	130	<b>1.7</b>	<b>9.17</b>	<b>610</b>	<b>1600</b>
	6/13/2022	<b>14</b>	3.1	140	<b>1.7</b>	<b>9.81</b>	<b>610</b>	<b>1500</b>
	9/27/2022	<b>12</b>	5.9	130	<b>1.7</b>	<b>9.25</b>	<b>630</b>	<b>1500</b>
	12/15/2022	<b>13</b>	3.8	130	<b>1.9</b>	<b>9.75</b>	<b>530</b>	<b>1600</b>
	3/22/2023	<b>11</b>	5.7	130	<b>1.6</b>	<b>9.70</b>	F1 <b>570</b>	<b>1500</b>
	7/3/2023	<b>13</b>	1.5	140	<b>1.7</b>	<b>10.06</b>	<b>610</b>	<b>1500</b>
9/27/2023	<b>12</b>	2.5	130	<b>1.5</b>	<b>9.24</b>	<b>590</b>	<b>1500</b>	
12/14/2023	<b>14</b>	2.5	130	<b>1.7</b>	<b>9.26</b>	<b>610</b>	<b>1500</b>	
T06S down-gradient	12/18/2018	0.7	88	18	<b>0.38</b>	7.36	66	530
	6/20/2019	0.77 B	90	9.2	<b>0.42</b>	7.05	89	460
	12/31/2019	0.8	95	15	<b>0.47</b>	5.01	76	540
	6/22/2020	0.73	88	13	<b>0.45</b>	<b>7.69</b>	95	460
	12/14/2020	0.69	82	13	<b>0.51</b>	7.51	100	450
	6/22/2021	0.8	84	9.9	<b>0.43</b>	7.5	100	530
	12/8/2021	0.81	94	14	<b>0.42</b>	7.44	100	550
	3/8/2022	0.92	85	15	<b>0.43</b>	7.21	99	540
	6/13/2022	<b>1.4</b>	86	14	<b>0.48</b>	<b>6.8</b>	130	530
	9/27/2022	0.85	86	15	<b>0.42</b>	7.24	93	460
	12/15/2022	0.91	84	15	<b>0.61</b>	7.23	97	520
	3/21/2023	0.95	74	13	<b>0.44</b>	<b>7.63</b>	100	490
	6/27/2023	0.89	87	13	<b>0.41</b>	<b>6.88</b>	100	480
9/19/2023	1.0	66	14	<b>0.44</b>	7.29	100	470	
12/14/2023	0.98	79	15	<b>0.39</b>	7.30	100	510	
T08S down-gradient	12/12/2018	<b>7.5</b>	33	120	<b>0.89</b>	<b>8.21</b>	260	950
	6/21/2019	<b>8.8</b>	34	110	<b>0.77</b>	<b>8.15</b>	380	940
	12/27/2019	<b>5.8</b>	43	100	<b>0.65</b>	<b>8.01</b>	280	830
	6/23/2020	<b>6.7</b>	26	94	<b>0.67</b>	<b>9.12</b>	<b>390</b>	880
	12/9/2020	<b>9.1</b>	16	100	<b>0.91</b>	<b>8.35</b>	<b>460</b>	840
	6/21/2021	<b>7.4</b>	33	100	<b>0.7</b>	<b>8.18</b>	<b>450</b>	<b>990</b>
	12/9/2021	<b>9.2</b>	36	90	< 0.1	<b>8.5</b>	<b>550</b>	<b>1100</b>
	3/14/2022	<b>9.4</b>	32	89	<b>0.78</b>	<b>8.67</b>	<b>550</b>	<b>1100</b>
	6/21/2022	<b>7.8</b>	25	87	<b>0.66</b>	7.44	F1 <b>470</b>	<b>970</b>
	9/29/2022	<b>8.4</b>	20	96	<b>0.7</b>	<b>9.17</b>	<b>490</b>	<b>990</b>
	12/20/2022	<b>8.9</b>	23	94	<b>1.1</b>	<b>7.85</b>	<b>490</b>	<b>1100</b>
	3/20/2023	<b>8.7</b>	22	93	<b>0.71</b>	<b>8.22</b>	<b>480</b>	<b>990</b>
	7/3/2023	<b>4.5</b>	23	89	<b>0.68</b>	<b>8.90</b>	<b>480</b>	930
9/27/2023	<b>5.5</b>	24	86	<b>0.57</b>	<b>8.51</b>	<b>470</b>	<b>980</b>	
12/14/2023	<b>9.5</b>	18	96	<b>0.58</b>	<b>7.99</b>	<b>490</b>	<b>1000</b>	
T09S down-gradient	12/18/2018	<b>6.6</b>	120	120	0.35	<b>7.54</b>	270	<b>1000</b>
	6/21/2019	<b>4.1</b>	110	120	0.34	7.29	280	870
	12/30/2019	<b>5.1</b>	120	120	<b>0.39</b>	<b>7.68</b>	350	940
	6/22/2020	<b>3.0</b>	100	82	<b>0.39</b>	7.5	300	790
	12/8/2020	<b>5.7</b>	110	84	<b>0.46</b>	7.51	<b>410</b>	890
	6/23/2021	<b>8.1</b>	120	80	<b>0.4</b>	7.34	<b>510</b>	<b>1000</b>
	12/8/2021	<b>9</b>	<b>130</b>	64	<b>0.38</b>	7.23	<b>570</b>	<b>1100</b>
	3/8/2022	<b>13</b>	<b>130</b>	60	<b>0.39</b>	7.32	<b>590</b>	<b>1200</b>
	6/8/2022	<b>7.4</b>	120	66	0.34	7.28	<b>440</b>	<b>970</b>
	9/27/2022	<b>7.6</b>	<b>130</b>	61	0.33	7.32	<b>530</b>	<b>990</b>
	12/15/2022	<b>10</b>	<b>130</b>	50	<b>0.71</b>	7.51	<b>540</b>	<b>1200</b>
	3/21/2023	<b>9.9</b>	<b>130</b>	60	<b>0.39</b>	<b>7.76</b>	<b>540</b>	<b>1100</b>
	6/27/2023	<b>9.2</b>	<b>130</b>	48	0.33	7.42	<b>480</b>	<b>1000</b>
9/19/2023	<b>5.7</b>	96	62	0.31	<b>7.74</b>	<b>380</b>	880	
12/12/2023	<b>6.9</b>	110	57	0.29	<b>7.57</b>	<b>420</b>	920	
T12S	6/27/2023	<b>6.8</b>	<b>150</b>	83	0.16	<b>7.82</b>	<b>380</b>	860
	9/12/2023	<b>6.4</b>	100	80	0.19	7.46	350	810
	12/18/2023	<b>7.7</b>	120	75	0.14	<b>7.69</b>	330	740
T13S	6/27/2023	0.40	100	42	0.24	<b>7.98</b>	130	620
	9/26/2023	0.38	100	37	F1 0.20	7.43	140	580
	12/19/2023	0.37	96	38	0.22	7.37	160	570

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 Assessment Well Network Groundwater Analytical Results through 4Q2023.

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226+228 Combined	Selenium	Thallium	
<b>GWPS</b>		<b>0.006</b>	<b>0.01</b>	<b>2.0</b>	<b>NC</b>	<b>0.005</b>	<b>0.1</b>	<b>0.006</b>	<b>4.0</b>	<b>0.015</b>	<b>0.041</b>	<b>NC</b>	<b>0.1</b>	<b>5 pCi/L</b>	<b>0.05</b>	<b>NC</b>	
G31S 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	<sup>^1+</sup> < 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	<sup>^1+</sup> < 0.001	< 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	0.27	< 0.0005	0.1	< 0.0002	0.89	4.1	< 0.0025	< 0.002	
	3/15/2023	< 0.0030	0.0036	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.25	< 0.00050	0.093	< 0.00020	0.75	2.99	< 0.0025	< 0.0020	
6/28/2023	< 0.0030	0.0031	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.25	< 0.00050	0.083	< 0.00020	0.61	2.95	< 0.0025	< 0.0020		
9/6/2023	< 0.0020	0.0025	0.043	< 0.0010	< 0.00020	< 0.00050	< 0.00050	0.25	< 0.00050	0.061	< 0.00020	0.49	3.02	< 0.0050	< 0.0010		
12/11/2023	< 0.0030	0.0030	0.046	< 0.0010	< 0.00050	< 0.00050	< 0.0010	0.23	< 0.00050	0.084	< 0.00020	0.58	3.13	< 0.0025	< 0.0020		
G33S down-gradient	12/10/2018	NA	0.003	0.45	NA	NA	NA	< 0.001	0.98	0.038	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	< H 0.0002	< 0.005	1.44	< 0.0025	< 0.002	
	12/13/2021	< 0.003	0.002	0.075	< 0.001	< 0.0005	< 0.005	< 0.001	0.56	0.0014	0.031	< 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	<sup>^1+</sup> < 0.001	< 0.0005	< 0.005	< 0.001	0.52	0.00024	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	
	3/15/2023	< 0.003	0.002	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	0.56	0.0013	0.031	< 0.0002	< 0.005	1.15	< 0.0025	< 0.002	
6/28/2023	< 0.0030	0.0021	0.099	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.59	0.0027	0.038	< 0.00020	< 0.0050	< 1.53	< 0.0025	< 0.0020		
9/12/2023	< 0.0020	0.0020	0.079	< 0.0010	< 0.00020	< 0.00050	< 0.00050	0.61	0.0070	0.033	< 0.00020	< 0.0020	< 1.16	< 0.0050	< 0.0010		
12/15/2023	< 0.0030	0.0011	0.097	< 0.0010	< 0.00050	< 0.00050	< 0.0010	0.48	0.0036	0.032	< 0.00020	< 0.0050	3.02	< 0.0025	< 0.0020		
T01S 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	<sup>^1+</sup> < 0.001	< 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	3.00	< 0.0025	< 0.002	
	3/21/2023	< 0.003	0.016	0.097	< 0.001	< 0.0005	0.018	0.0079	1.1	0.0085	0.022	< 0.0002	0.29	3.08	< 0.0025	< 0.002	
7/3/2023	< 0.0030	0.0086	0.044	<sup>^1+</sup> < 0.0010	< 0.0025	< 0.0050	0.0014	1.1	0.0011	0.012	< 0.00020	0.29	1.76	< 0.0025	< 0.002		
9/28/2023	< 0.0020	0.010	0.042	< 0.0010	< 0.00020	< 0.00050	0.0025	0.99	0.0019	0.011	< 0.00020	0.26	3.55	< 0.0050	< 0.0010		
12/13/2023	< 0.0030	0.011	0.054	< 0.0010	< 0.00050	0.0057	0.0038	1.0	0.0031	0.014	< 0.00020	0.28	1.02	< 0.0025	< 0.0020		
T02S 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	V	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	<b>0.008</b>	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	<b>0.0092</b>	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	2.32	< 0.0025	< 0.002	
	9/29/2022	< 0.003	0.008	0.088	<sup>^1+</sup> < 0.001	< 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	
	3/20/2023	< 0.0030	0.0063	0.12	< 0.0010	< 0.00050	< 0.0050	0.0021	0.36	0.0040	0.035	< 0.00020	0.44	1.61	< 0.0025	< 0.0020	
6/30/2023	< 0.0030	0.0081	0.11	<sup>^1+</sup> < 0.001	< 0.0005	< 0.005	0.0033	0.34	0.0043	0.034	< 0.00020	0.37	1.58	< 0.0025	< 0.002		
9/27/2023	< 0.0020	0.0070	0.069	< 0.0010	< 0.00020	< 0.00050	0.0021	0.29	0.0029	0.034	< 0.00020	0.34	4.86	< 0.0050	0.0011		
12/12/2023	< 0.0030	0.0050	0.088	&lt													





Table 7 (cont'd). Appendix IV Expanded Assessment Well Network Groundwater Analytical Results through 4Q2023.

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
<b>GWPS</b>		<b>0.006</b>	<b>0.01</b>	<b>2.0</b>	<b>NC</b>	<b>0.005</b>	<b>0.1</b>	<b>0.006</b>	<b>4.0</b>	<b>0.015</b>	<b>0.041</b>	<b>NC</b>	<b>0.1</b>	<b>5 pCi/L</b>	<b>0.05</b>	<b>NC</b>
T09S down-gradient	12/18/2018	NA	0.003	0.093	NA	NA	NA	0.0011	0.35	0.0017	<b>0.097</b>	NA	<b>1.0</b>	3.31	< 0.0025	NA
	6/21/2019	NA	0.004	0.093	NA	NA	NA	< 0.001	0.34	0.0008	<b>0.075</b>	NA	<b>0.67</b>	3.08	< 0.0025	NA
	12/30/2019	NA	0.003	0.084	NA	NA	NA	< 0.001	0.39	0.00064	<b>0.082</b>	NA	<b>0.75</b>	2.42	< 0.0025	NA
	6/22/2020	NA	0.003	0.08	NA	NA	NA	< 0.001	0.39	0.0017	<b>0.052</b>	NA	<b>0.52</b>	3.04	< 0.0025	NA
	12/8/2020	NA	0.002	0.08	NA	NA	NA	< 0.001	0.46	0.00061	<b>0.07</b>	NA	<b>0.89</b>	2.760	< 0.0025	NA
	6/23/2021	< 0.003	0.003	0.074	< 0.001	< 0.0005	< 0.005	0.0011	0.4	0.00088	<b>0.095</b>	H < 0.0002	<b>1.2</b>	2.56	< 0.0025	< 0.002
	12/8/2021	< 0.003	0.004	0.067	< 0.001	< 0.0005	< 0.005	0.0011	0.38	0.00084	<b>0.1</b>	< 0.0002	<b>1.3</b>	2.74	< 0.0025	< 0.002
	3/8/2022	< 0.003	0.003	0.064	< 0.001	< 0.0005	< 0.005	0.0012	0.39	0.00058	<b>0.13</b>	< 0.0002	<b>1.5</b>	2.74	< 0.0025	< 0.002
	6/8/2022	< 0.003	0.003	0.061	< 0.001	< 0.0005	< 0.005	0.001	0.34	0.00098	<b>0.079</b>	< 0.0002	<b>0.86</b>	2.63	< 0.0025	< 0.002
	9/27/2022	< 0.003	0.003	0.062	<sup>^</sup> 1+ < 0.001	< 0.0005	< 0.005	0.0012	0.33	0.0007	<b>0.096</b>	< 0.0002	<b>1.3</b>	3.99	< 0.0025	< 0.002
	12/15/2022	< 0.003	0.002	0.067	< 0.001	< 0.0005	< 0.005	0.0012	0.71	0.00086	<b>0.11</b>	< 0.0002	<b>1.2</b>	3.08	< 0.0025	< 0.002
	3/21/2023	< 0.0030	0.0019	0.064	< 0.0010	< 0.00050	< 0.0050	0.0012	0.39	< 0.00050	<b>0.11</b>	< 0.00020	<b>1.3</b>	2.87	< 0.0025	< 0.0020
	6/27/2023	< 0.0030	0.0037	0.065	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.33	0.0010	<b>0.10</b>	< 0.00020	<b>0.99</b>	2.52	< 0.0025	< 0.0020
	9/19/2023	< 0.0020	0.0036	0.053	< 0.0010	< 0.00020	< 0.0050	0.00051	0.31	< 0.00050	<b>0.090</b>	< 0.00020	<b>0.66</b>	3.41	< 0.0050	F1 0.017
12/12/2023	< 0.0030	0.0035	0.054	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.29	0.00059	<b>0.074</b>	< 0.00020	<b>0.69</b>	2.27	< 0.0025	< 0.0020	
T12S down-gradient	6/27/2023	< 0.003	0.0041	0.071	< 0.001	< 0.0005	< 0.005	< 0.001	0.16	0.0022	<b>0.15</b>	< 0.00020	<b>0.59</b>	2.33	< 0.0025	< 0.002
	9/12/2023	< 0.0020	0.0047	0.057	< 0.0010	< 0.00020	< 0.0050	< 0.00050	0.19	< 0.00050	<b>0.15</b>	< 0.00020	<b>0.67</b>	1.38	< 0.0050	< 0.0010
	12/18/2023	< 0.0030	<b>0.034</b>	0.098	< 0.0010	< 0.00050	< 0.0050	0.0023	0.14	0.0025	<b>0.15</b>	< 0.00020	<b>0.53</b>	3.68	< 0.0025	< 0.0020
T13S down-gradient	6/27/2023	< 0.003	0.0047	0.070	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	0.00053	0.021	< 0.00020	0.0057	0.735	< 0.0025	< 0.002
	9/26/2023	< 0.0020	0.0048	0.056	< 0.0010	< 0.00020	< 0.0050	< 0.00050	F1 0.20	< 0.00050	0.021	< 0.00020	0.0095	1.54	< 0.0050	F2 F1 0.012
	12/19/2023	< 0.0030	0.0048	0.067	< 0.0010	< 0.00050	< 0.0050	0.0017	0.22	0.0017	0.027	< 0.00020	0.0065	1.65	< 0.0025	< 0.0020

Notes:

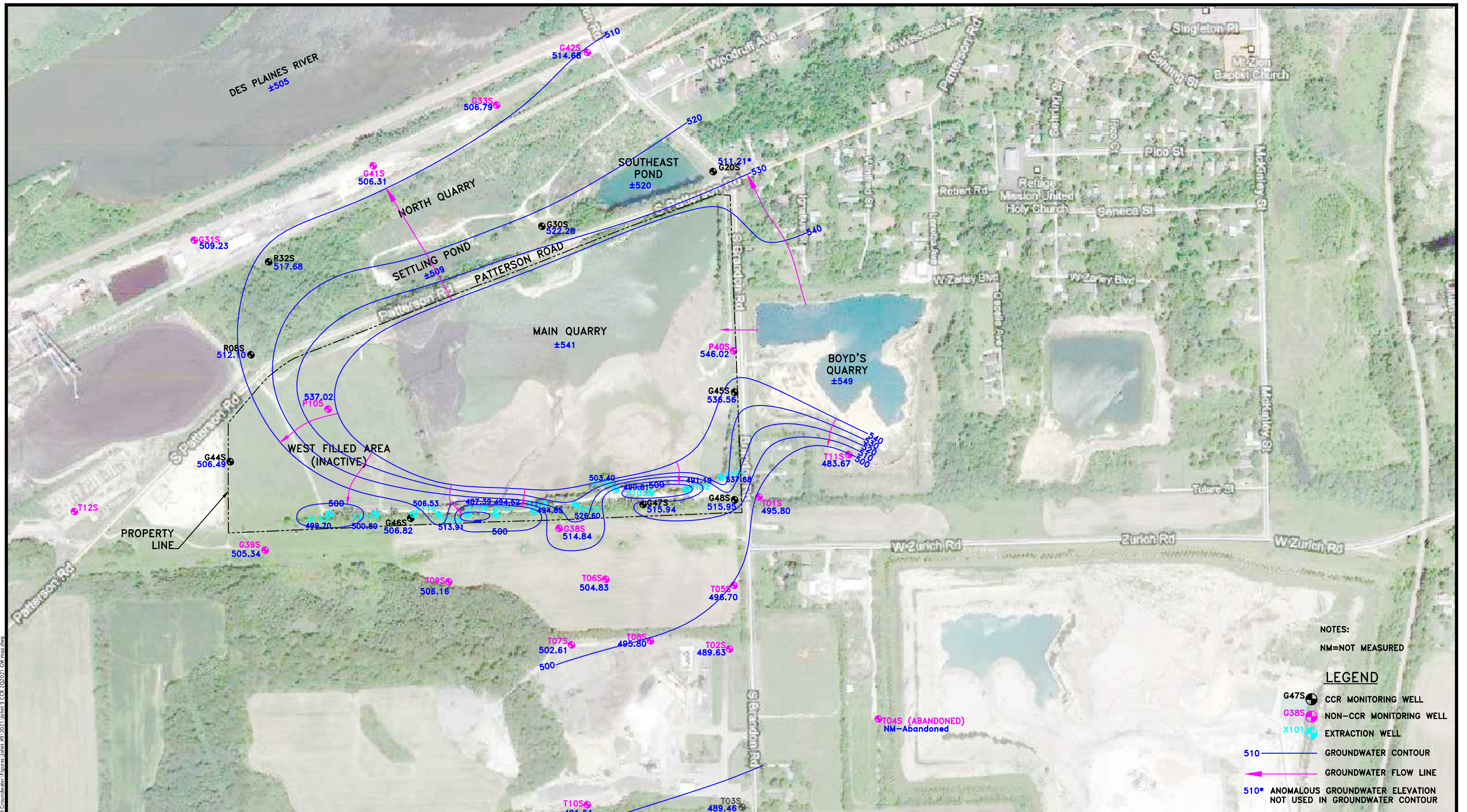
All units are in mg/l except Radium is in pCi/L as noted.  
 NC - Not calculated since not detected compound.

F1 - MS and/or MSD Recovery outside of limits.  
 B - Compound was found in the blank and sample.  
 NA - Not Analyzed

DNVA - Data Not Yet Available.  
 ^ - Denotes instrument related QC exceeds the control limits  
 GWPS - Groundwater Protection Standard.  
**BOLD** - Above GWPS.

H - Sample prep'd or analyzed past holding time.  
 ^+ - Continuing calibration verification outside limits. High bias.  
 ^1+ - Initial verification calibration outside of limits, biased high.  
 ABD - Abandoned. Vulcan property well removed by Vulcan as part of mine expansion.

**ATTACHMENT 1**  
**Groundwater Flow Contour Maps**



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

ENVIRONMENTAL CONSULTATION & REMEDIATION



KPRG and Associates, inc.

14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

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

**POTENTIOMETRIC MAP 1Q2023**

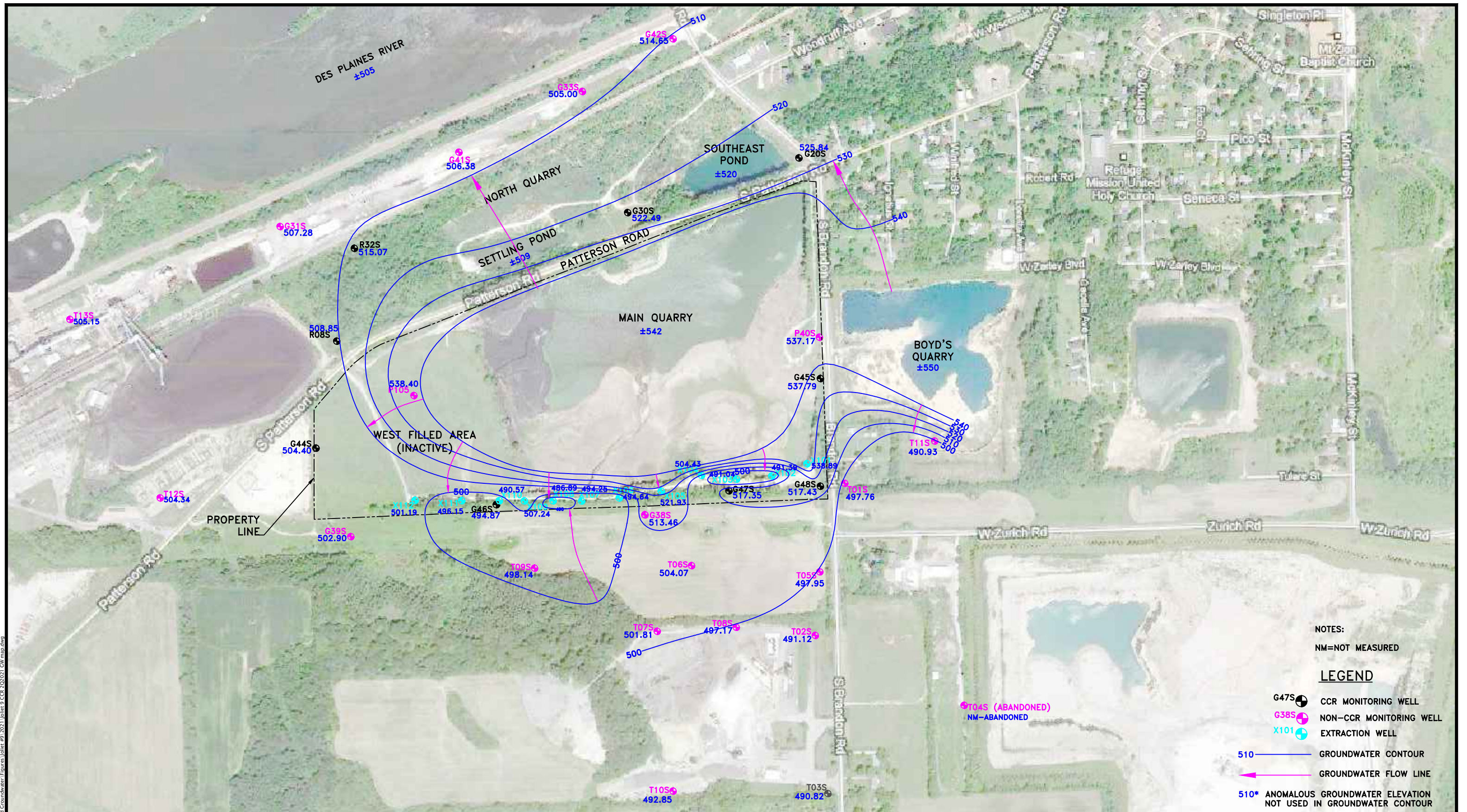
LINCOLN STONE QUARRY  
 JOLIET, ILLINOIS

Scale: 1" = 450' Date: January 17, 2024

KPRG Project No. 11306 ATTACHMENT 1



W:\projects\lincolnstone\environmental\11306\11306\_1A\_Ash\_Pond\_Groundwater\_Elevations\_Joliet\_#9\_2021\Joliet\_9\_CCR\_202021\_GW\_map.dwg



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

W:\projects\lincolnstone\remediation\11313\_Ash\_Pond\_Groundwater\_Emissions\Joliet\_#9\_2021\Joliet\_9\_CGR\_202021\_CW\_map.dwg

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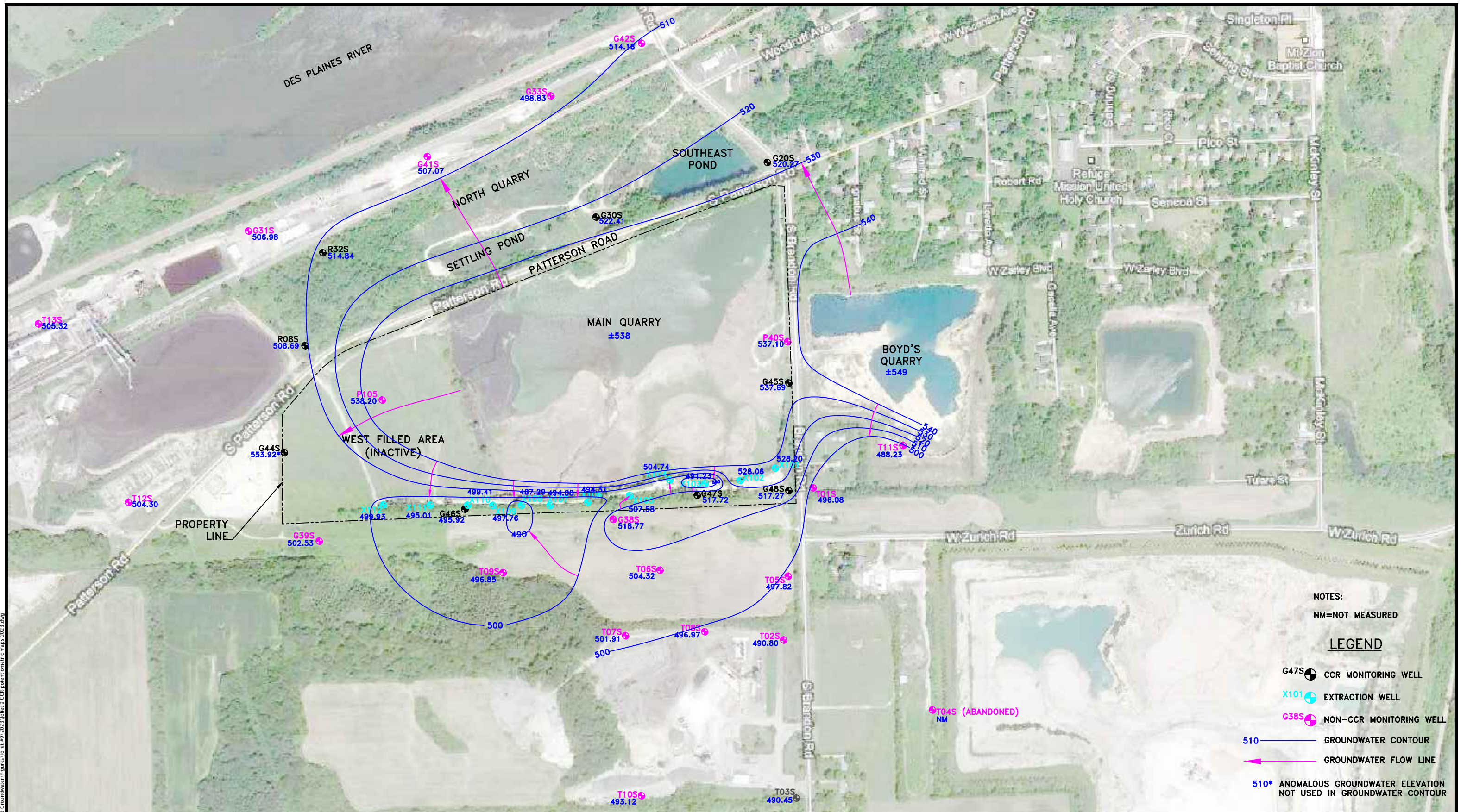


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 414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

<b>POTENTIOMETRIC MAP 2Q2023</b>	
LINCOLN STONE QUARRY JOLIET, ILLINOIS	
Scale: 1" = 450'	Date: January 17, 2024
KPRG Project No. 11306	ATTACHMENT 1



**NOTES:**

NM=NOT MEASURED

**LEGEND**

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

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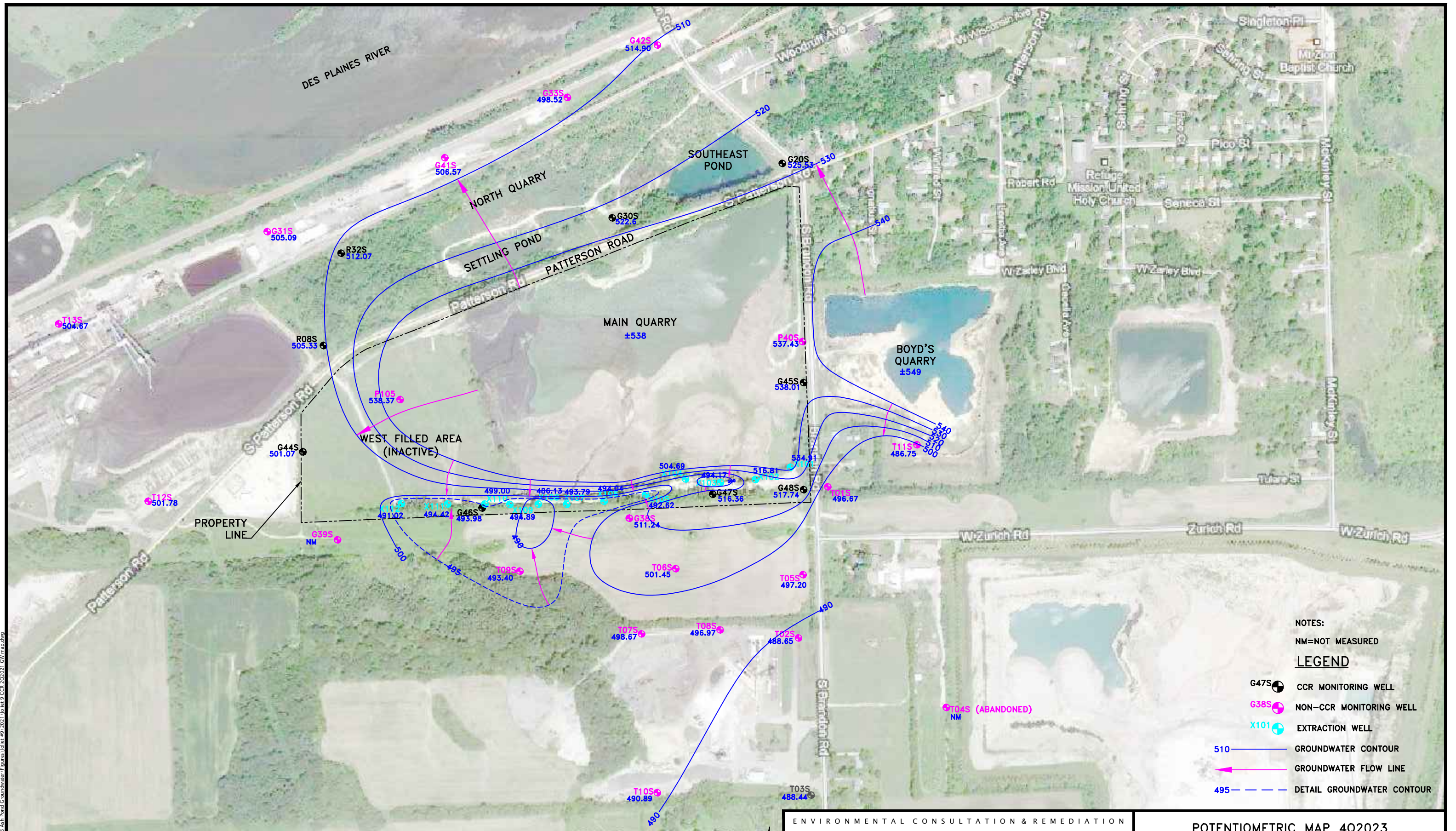


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414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

<b>POTENTIOMETRIC MAP 3Q2023</b>	
LINCOLN STONE QUARRY JOLIET, ILLINOIS	
Scale: 1" = 450'	Date: January 17, 2024
KPRG Project No. 11306	ATTACHMENT 1



NOTES:  
 NM=NOT MEASURED

**LEGEND**

- G47S ● CCR MONITORING WELL
- G38S ● NON-CCR MONITORING WELL
- X101 ● EXTRACTION WELL
- 510 — GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE
- 495 - - - DETAIL GROUNDWATER CONTOUR

W:\projects\lincolnstone\environmental\112313\_Ash\_Pond\_Groundwater\_Engines\Joliet\_#9\_2021\Joliet\_9\_CGR\_202021\_CW\_map.dwg



ENVIRONMENTAL CONSULTATION & REMEDIATION

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

POTENTIOMETRIC MAP 4Q2023	
LINCOLN STONE QUARRY JOLIET, ILLINOIS	
Scale: 1" = 450'	Date: January 17, 2024
KPRG Project No. 11306	ATTACHMENT 1

**ATTACHMENT 2**  
**Analytical Data Packages**





# ANALYTICAL REPORT

## PREPARED FOR

Attn: John Niedzwiecki  
Midwest Generation EME LLC  
1800 Channahon Road  
Joliet, Illinois 60436

Generated 4/4/2023 5:30:07 PM

## JOB DESCRIPTION

Joliet #9 (Quarry) CCR 1Q23

## JOB NUMBER

500-230703-1

# 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



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4/4/2023 5:30:07 PM

Authorized for release by  
Diana Mockler, Project Manager I  
[Diana.Mockler@et.eurofinsus.com](mailto: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 1Q23

Job ID: 500-230703-1

---

## Job ID: 500-230703-1

---

### Laboratory: Eurofins Chicago

#### Narrative

---

#### Job Narrative 500-230703-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/14/2023 3:52 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 2.5° C, 2.9° C, 3.3° C, 3.5° C, 4.2° C, 4.4° C and 5.1° C.

#### Metals

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-703655. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-703899. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-703899. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-704131. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-704817. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

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 500-704148 were outside control limits. 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 1Q23

Job ID: 500-230703-1

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 1Q23

Job ID: 500-230703-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-230703-1	G20S	Water	03/14/23 11:28	03/14/23 15:52
500-230703-2	G33S	Water	03/15/23 09:35	03/15/23 14:00
500-230703-3	G44S	Water	03/15/23 10:50	03/15/23 14:00
500-230703-4	G31S	Water	03/15/23 12:57	03/15/23 14:00
500-230703-5	G30S	GW	03/17/23 09:26	03/17/23 12:00
500-230703-6	T02S	Water	03/20/23 09:32	03/20/23 15:12
500-230703-7	T08S	Water	03/20/23 11:20	03/20/23 15:12
500-230703-8	T03S	Water	03/20/23 13:47	03/20/23 15:12
500-230703-9	T01S	Water	03/21/23 09:52	03/21/23 15:45
500-230703-10	T09S	Water	03/21/23 11:58	03/21/23 15:45
500-230703-11	T06S	Water	03/21/23 13:45	03/21/23 15:45
500-230703-12	T05S	Water	03/22/23 09:27	03/22/23 14:45
500-230703-13	R08S	Water	03/22/23 12:25	03/22/23 14:45
500-230703-14	R08S Dup	Water	03/22/23 12:25	03/22/23 14:45
500-230703-15	G46S	Water	03/22/23 13:30	03/22/23 14:45
500-230703-16	G48S	Water	03/23/23 10:13	03/23/23 14:43
500-230703-17	G47S	Water	03/23/23 11:22	03/23/23 14:43
500-230703-18	G45S	Water	03/23/23 12:16	03/23/23 14:43
500-230703-19	R32S	Water	03/23/23 13:34	03/23/23 14:43

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: G20S**

**Lab Sample ID: 500-230703-1**

Date Collected: 03/14/23 11:28

Matrix: Water

Date Received: 03/14/23 15:52

**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		03/16/23 08:33	03/16/23 18:20	1
Arsenic	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 18:20	1
<b>Barium</b>	<b>0.050</b>		0.0025		mg/L		03/16/23 08:33	03/16/23 18:20	1
Beryllium	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 16:57	1
<b>Boron</b>	<b>1.3</b>		0.050		mg/L		03/16/23 08:33	03/16/23 18:20	1
Cadmium	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 18:20	1
<b>Calcium</b>	<b>62</b>		0.20		mg/L		03/16/23 08:33	03/16/23 18:20	1
Chromium	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 18:20	1
<b>Cobalt</b>	<b>0.0015</b>		0.0010		mg/L		03/16/23 08:33	03/16/23 18:20	1
Lead	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 18:20	1
<b>Lithium</b>	<b>0.042</b>		0.010		mg/L		03/16/23 08:33	03/16/23 18:20	1
<b>Molybdenum</b>	<b>0.010</b>		0.0050		mg/L		03/16/23 08:33	03/16/23 18:20	1
Selenium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/16/23 18:20	1
Thallium	<0.0020		0.0020		mg/L		03/16/23 08:33	03/16/23 18:20	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/23 10:50	03/17/23 09:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>410</b>		10		mg/L			03/15/23 03:07	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>16</b>		2.0		mg/L			03/16/23 09:46	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.75</b>		0.10		mg/L			03/15/23 10:44	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>64</b>		25		mg/L			03/17/23 09:51	5

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>52.49</b>				ft			03/14/23 11:28	1
<b>Depth to Water (ft from MP)</b>	<b>55.27</b>				ft			03/14/23 11:28	1
<b>Elevation of well (ft from MP)</b>	<b>580.87</b>				ft			03/14/23 11:28	1
<b>Field pH</b>	<b>7.53</b>				SU			03/14/23 11:28	1
<b>Field Temperature</b>	<b>49.6</b>				Degrees F			03/14/23 11:28	1
<b>Field Turbidity</b>	<b>0.39</b>				NTU			03/14/23 11:28	1
<b>Ground Water Elevation</b>	<b>525.60</b>				ft			03/14/23 11:28	1
<b>Specific Conductance</b>	<b>659</b>				umhos/cm			03/14/23 11:28	1
<b>Well bottom elevation</b>	<b>442.28</b>				ft			03/14/23 11:28	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: G33S**

**Lab Sample ID: 500-230703-2**

Date Collected: 03/15/23 09:35

Matrix: Water

Date Received: 03/15/23 14:00

**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		03/16/23 08:33	03/16/23 18:23	1
<b>Arsenic</b>	<b>0.0018</b>		0.0010		mg/L		03/16/23 08:33	03/16/23 18:23	1
<b>Barium</b>	<b>0.060</b>		0.0025		mg/L		03/16/23 08:33	03/16/23 18:23	1
Beryllium	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 17:00	1
<b>Boron</b>	<b>0.72</b>		0.050		mg/L		03/16/23 08:33	03/16/23 18:23	1
Cadmium	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 18:23	1
<b>Calcium</b>	<b>54</b>		0.20		mg/L		03/16/23 08:33	03/16/23 18:23	1
Chromium	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 18:23	1
Cobalt	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 18:23	1
<b>Lead</b>	<b>0.0013</b>		0.00050		mg/L		03/16/23 08:33	03/16/23 18:23	1
<b>Lithium</b>	<b>0.031</b>		0.010		mg/L		03/16/23 08:33	03/16/23 18:23	1
Molybdenum	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 18:23	1
Selenium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/16/23 18:23	1
Thallium	<0.0020		0.0020		mg/L		03/16/23 08:33	03/16/23 18:23	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/23 10:50	03/17/23 09:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>510</b>		10		mg/L			03/20/23 05:41	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>13</b>		2.0		mg/L			03/16/23 09:50	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.56</b>		0.10		mg/L			03/21/23 10:54	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>68</b>		25		mg/L			03/17/23 09:52	5

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>28.33</b>				ft			03/15/23 09:35	1
<b>Depth to Water (ft from MP)</b>	<b>30.06</b>				ft			03/15/23 09:35	1
<b>Elevation of well (ft from MP)</b>	<b>535.67</b>				ft			03/15/23 09:35	1
<b>Field pH</b>	<b>7.42</b>				SU			03/15/23 09:35	1
<b>Field Temperature</b>	<b>52.0</b>				Degrees F			03/15/23 09:35	1
<b>Field Turbidity</b>	<b>7.68</b>				NTU			03/15/23 09:35	1
<b>Ground Water Elevation</b>	<b>505.61</b>				ft			03/15/23 09:35	1
<b>Specific Conductance</b>	<b>639</b>				umhos/cm			03/15/23 09:35	1
<b>Well bottom elevation</b>	<b>452.72</b>				ft			03/15/23 09:35	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: G44S**

**Lab Sample ID: 500-230703-3**

Date Collected: 03/15/23 10:50

Matrix: Water

Date Received: 03/15/23 14:00

**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		03/16/23 08:33	03/16/23 18:27	1
Arsenic	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 18:27	1
<b>Barium</b>	<b>0.067</b>		0.0025		mg/L		03/16/23 08:33	03/16/23 18:27	1
Beryllium	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 17:04	1
<b>Boron</b>	<b>1.9</b>		0.050		mg/L		03/16/23 08:33	03/16/23 18:27	1
Cadmium	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 18:27	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		03/16/23 08:33	03/16/23 18:27	1
Chromium	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 18:27	1
Cobalt	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 18:27	1
Lead	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 18:27	1
<b>Lithium</b>	<b>0.026</b>		0.010		mg/L		03/16/23 08:33	03/16/23 18:27	1
<b>Molybdenum</b>	<b>0.26</b>		0.0050		mg/L		03/16/23 08:33	03/16/23 18:27	1
Selenium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/16/23 18:27	1
Thallium	<0.0020		0.0020		mg/L		03/16/23 08:33	03/16/23 18:27	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/23 10:50	03/17/23 09:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>720</b>		10		mg/L			03/22/23 06:05	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>66</b>		10		mg/L			03/16/23 09:51	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.20</b>		0.10		mg/L			03/21/23 10:54	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>190</b>		50		mg/L			03/17/23 09:53	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>76.34</b>				ft			03/15/23 10:50	1
<b>Depth to Water (ft from MP)</b>	<b>78.52</b>				ft			03/15/23 10:50	1
<b>Elevation of well (ft from MP)</b>	<b>586.68</b>				ft			03/15/23 10:50	1
<b>Field pH</b>	<b>7.10</b>				SU			03/15/23 10:50	1
<b>Field Temperature</b>	<b>51.8</b>				Degrees F			03/15/23 10:50	1
<b>Field Turbidity</b>	<b>1.13</b>				NTU			03/15/23 10:50	1
<b>Ground Water Elevation</b>	<b>508.16</b>				ft			03/15/23 10:50	1
<b>Specific Conductance</b>	<b>1053</b>				umhos/cm			03/15/23 10:50	1
<b>Well bottom elevation</b>	<b>455.11</b>				ft			03/15/23 10:50	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: G31S**

**Lab Sample ID: 500-230703-4**

Date Collected: 03/15/23 12:57

Matrix: Water

Date Received: 03/15/23 14:00

**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		03/16/23 08:33	03/17/23 17:07	1
<b>Arsenic</b>	<b>0.0036</b>		0.0010		mg/L		03/16/23 08:33	03/17/23 17:07	1
<b>Barium</b>	<b>0.048</b>		0.0025		mg/L		03/16/23 08:33	03/17/23 17:07	1
Beryllium	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 17:07	1
<b>Boron</b>	<b>4.6</b>		0.50		mg/L		03/16/23 08:33	03/22/23 12:25	10
Cadmium	<0.00050		0.00050		mg/L		03/16/23 08:33	03/17/23 17:07	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		03/16/23 08:33	03/17/23 17:07	1
Chromium	<0.0050		0.0050		mg/L		03/16/23 08:33	03/17/23 17:07	1
Cobalt	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 17:07	1
Lead	<0.00050		0.00050		mg/L		03/16/23 08:33	03/17/23 17:07	1
<b>Lithium</b>	<b>0.093</b>		0.010		mg/L		03/16/23 08:33	03/17/23 17:07	1
<b>Molybdenum</b>	<b>0.75</b>		0.0050		mg/L		03/16/23 08:33	03/17/23 17:07	1
Selenium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/17/23 17:07	1
Thallium	<0.0020		0.0020		mg/L		03/16/23 08:33	03/17/23 17:07	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/23 10:50	03/17/23 09:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1100</b>		10		mg/L			03/22/23 06:12	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>150</b>		20		mg/L			03/16/23 09:51	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.25</b>		0.10		mg/L			03/21/23 10:54	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>420</b>		250		mg/L			03/17/23 09:53	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	23.13				ft			03/15/23 12:57	1
Depth to Water (ft from MP)	25.71				ft			03/15/23 12:57	1
Elevation of well (ft from MP)	535.73				ft			03/15/23 12:57	1
Field pH	7.39				SU			03/15/23 12:57	1
Field Temperature	55.2				Degrees F			03/15/23 12:57	1
Field Turbidity	0.79				NTU			03/15/23 12:57	1
Ground Water Elevation	510.02				ft			03/15/23 12:57	1
Specific Conductance	1492				umhos/cm			03/15/23 12:57	1
Well bottom elevation	453.36				ft			03/15/23 12:57	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: G30S**

**Lab Sample ID: 500-230703-5**

Date Collected: 03/17/23 09:26

Matrix: GW

Date Received: 03/17/23 12:00

**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		03/20/23 08:05	03/22/23 20:22	1
<b>Arsenic</b>	<b>0.0022</b>		0.0010		mg/L		03/20/23 08:05	03/22/23 20:22	1
<b>Barium</b>	<b>0.046</b>		0.0025		mg/L		03/20/23 08:05	03/22/23 20:22	1
Beryllium	<0.0010		0.0010		mg/L		03/20/23 08:05	03/22/23 20:22	1
<b>Boron</b>	<b>5.2</b>		0.50		mg/L		03/20/23 08:05	03/23/23 13:29	10
Cadmium	<0.00050		0.00050		mg/L		03/20/23 08:05	03/22/23 20:22	1
<b>Calcium</b>	<b>63</b>		0.20		mg/L		03/20/23 08:05	03/22/23 20:22	1
Chromium	<0.0050		0.0050		mg/L		03/20/23 08:05	03/22/23 20:22	1
Cobalt	<0.0010		0.0010		mg/L		03/20/23 08:05	03/22/23 20:22	1
<b>Lead</b>	<b>0.00051</b>		0.00050		mg/L		03/20/23 08:05	03/22/23 20:22	1
<b>Lithium</b>	<b>0.022</b>		0.010		mg/L		03/20/23 08:05	03/22/23 20:22	1
<b>Molybdenum</b>	<b>0.010</b>		0.0050		mg/L		03/20/23 08:05	03/22/23 20:22	1
Selenium	<0.0025		0.0025		mg/L		03/20/23 08:05	03/22/23 20:22	1
Thallium	<0.0020		0.0020		mg/L		03/20/23 08:05	03/22/23 20:22	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/20/23 10:40	03/21/23 08:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1200</b>		10		mg/L			03/22/23 06:18	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>200</b>		20		mg/L			03/22/23 10:20	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.93</b>		0.10		mg/L			03/21/23 10:54	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>470</b>		250		mg/L			03/22/23 11:55	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	-0.22				ft			03/17/23 09:26	1
Depth to Water (ft from MP)	2.09				ft			03/17/23 09:26	1
Elevation of well (ft from MP)	524.86				ft			03/17/23 09:26	1
Field pH	7.82				SU			03/17/23 09:26	1
Field Temperature	43.2				Degrees F			03/17/23 09:26	1
Field Turbidity	2.43				NTU			03/17/23 09:26	1
Ground Water Elevation	522.77				ft			03/17/23 09:26	1
Specific Conductance	1760				umhos/cm			03/17/23 09:26	1
Well bottom elevation	462.58				ft			03/17/23 09:26	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: T02S**

**Lab Sample ID: 500-230703-6**

Date Collected: 03/20/23 09:32

Matrix: Water

Date Received: 03/20/23 15:12

**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		03/22/23 08:37	03/22/23 19:20	1
<b>Arsenic</b>	<b>0.0063</b>		0.0010		mg/L		03/22/23 08:37	03/22/23 19:20	1
<b>Barium</b>	<b>0.12</b>		0.0025		mg/L		03/22/23 08:37	03/22/23 19:20	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:20	1
<b>Boron</b>	<b>5.8</b>		1.0		mg/L		03/22/23 08:37	03/23/23 13:46	20
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:20	1
<b>Calcium</b>	<b>82</b>		0.20		mg/L		03/22/23 08:37	03/22/23 19:20	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 19:20	1
<b>Cobalt</b>	<b>0.0021</b>		0.0010		mg/L		03/22/23 08:37	03/22/23 19:20	1
<b>Lead</b>	<b>0.0040</b>		0.00050		mg/L		03/22/23 08:37	03/22/23 19:20	1
<b>Lithium</b>	<b>0.035</b>		0.010		mg/L		03/22/23 08:37	03/22/23 19:20	1
<b>Molybdenum</b>	<b>0.44</b>		0.0050		mg/L		03/22/23 08:37	03/22/23 19:20	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:20	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 19:20	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 07:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>970</b>		10		mg/L			03/22/23 06:20	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>110</b>		20		mg/L			03/22/23 10:20	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.36</b>		0.10		mg/L			03/21/23 10:54	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>370</b>		100		mg/L			03/22/23 11:43	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>134.16</b>				ft			03/20/23 09:32	1
<b>Depth to Water (ft from MP)</b>	<b>136.49</b>				ft			03/20/23 09:32	1
<b>Elevation of well (ft from MP)</b>	<b>626.12</b>				ft			03/20/23 09:32	1
<b>Field pH</b>	<b>7.66</b>				SU			03/20/23 09:32	1
<b>Field Temperature</b>	<b>45.5</b>				Degrees F			03/20/23 09:32	1
<b>Field Turbidity</b>	<b>27.25</b>				NTU			03/20/23 09:32	1
<b>Ground Water Elevation</b>	<b>489.63</b>				ft			03/20/23 09:32	1
<b>Specific Conductance</b>	<b>1317</b>				umhos/cm			03/20/23 09:32	1
<b>Well bottom elevation</b>	<b>453.40</b>				ft			03/20/23 09:32	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: T08S**

**Lab Sample ID: 500-230703-7**

Date Collected: 03/20/23 11:20

Matrix: Water

Date Received: 03/20/23 15:12

**Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0086		0.0030		mg/L		03/22/23 08:37	03/22/23 19:23	1
Arsenic	0.020		0.0010		mg/L		03/22/23 08:37	03/22/23 19:23	1
Barium	0.032		0.0025		mg/L		03/22/23 08:37	03/22/23 19:23	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:23	1
Boron	8.7		1.0		mg/L		03/22/23 08:37	03/23/23 13:50	20
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:23	1
Calcium	22		0.20		mg/L		03/22/23 08:37	03/22/23 19:23	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 19:23	1
Cobalt	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:23	1
Lead	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:23	1
Lithium	0.036		0.010		mg/L		03/22/23 08:37	03/22/23 19:23	1
Molybdenum	0.85		0.0050		mg/L		03/22/23 08:37	03/22/23 19:23	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:23	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 19:23	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 07:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	990		10		mg/L			03/22/23 06:23	1
Chloride (SM 4500 Cl- E)	93		20		mg/L			03/22/23 10:21	10
Fluoride (SM 4500 F C)	0.71		0.10		mg/L			03/21/23 10:54	1
Sulfate (SM 4500 SO4 E)	480		250		mg/L			03/22/23 11:43	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	129.36				ft			03/20/23 11:20	1
Depth to Water (ft from MP)	131.74				ft			03/20/23 11:20	1
Elevation of well (ft from MP)	627.55				ft			03/20/23 11:20	1
Field pH	8.22				SU			03/20/23 11:20	1
Field Temperature	52.3				Degrees F			03/20/23 11:20	1
Field Turbidity	4.00				NTU			03/20/23 11:20	1
Ground Water Elevation	495.81				ft			03/20/23 11:20	1
Specific Conductance	1439				umhos/cm			03/20/23 11:20	1
Well bottom elevation	447.38				ft			03/20/23 11:20	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: T03S**

**Lab Sample ID: 500-230703-8**

Date Collected: 03/20/23 13:47

Matrix: Water

Date Received: 03/20/23 15:12

**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		03/22/23 08:37	03/22/23 19:33	1
<b>Arsenic</b>	<b>0.0011</b>		0.0010		mg/L		03/22/23 08:37	03/22/23 19:33	1
<b>Barium</b>	<b>0.079</b>		0.0025		mg/L		03/22/23 08:37	03/22/23 19:33	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:33	1
<b>Boron</b>	<b>3.0</b>		0.50		mg/L		03/22/23 08:37	03/23/23 13:53	10
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:33	1
<b>Calcium</b>	<b>110</b>		0.20		mg/L		03/22/23 08:37	03/22/23 19:33	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 19:33	1
Cobalt	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:33	1
Lead	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:33	1
<b>Lithium</b>	<b>0.033</b>		0.010		mg/L		03/22/23 08:37	03/22/23 19:33	1
<b>Molybdenum</b>	<b>0.32</b>		0.0050		mg/L		03/22/23 08:37	03/22/23 19:33	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:33	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 19:33	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>890</b>		10		mg/L			03/22/23 06:25	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>100</b>		20		mg/L			03/22/23 10:22	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.21</b>		0.10		mg/L			03/21/23 10:54	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>320</b>		100		mg/L			03/22/23 11:43	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	137.17				ft			03/20/23 13:47	1
Depth to Water (ft from MP)	140.25				ft			03/20/23 13:47	1
Elevation of well (ft from MP)	629.85				ft			03/20/23 13:47	1
Field pH	7.22				SU			03/20/23 13:47	1
Field Temperature	52.7				Degrees F			03/20/23 13:47	1
Field Turbidity	1.19				NTU			03/20/23 13:47	1
Ground Water Elevation	489.60				ft			03/20/23 13:47	1
Specific Conductance	1219				umhos/cm			03/20/23 13:47	1
Well bottom elevation	456.70				ft			03/20/23 13:47	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Client Sample ID: T01S

## Lab Sample ID: 500-230703-9

Date Collected: 03/21/23 09:52

Matrix: Water

Date Received: 03/21/23 15:45

### 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		03/22/23 08:37	03/22/23 19:37	1
<b>Arsenic</b>	<b>0.016</b>		0.0010		mg/L		03/22/23 08:37	03/22/23 19:37	1
<b>Barium</b>	<b>0.097</b>		0.0025		mg/L		03/22/23 08:37	03/22/23 19:37	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:37	1
<b>Boron</b>	<b>4.3</b>		0.50		mg/L		03/22/23 08:37	03/23/23 13:57	10
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:37	1
<b>Calcium</b>	<b>50</b>		0.20		mg/L		03/22/23 08:37	03/22/23 19:37	1
<b>Chromium</b>	<b>0.018</b>		0.0050		mg/L		03/22/23 08:37	03/22/23 19:37	1
<b>Cobalt</b>	<b>0.0079</b>		0.0010		mg/L		03/22/23 08:37	03/22/23 19:37	1
<b>Lead</b>	<b>0.0085</b>		0.00050		mg/L		03/22/23 08:37	03/22/23 19:37	1
<b>Lithium</b>	<b>0.022</b>		0.010		mg/L		03/22/23 08:37	03/22/23 19:37	1
<b>Molybdenum</b>	<b>0.29</b>		0.0050		mg/L		03/22/23 08:37	03/22/23 19:37	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:37	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 19:37	1

### Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:14	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1000</b>		10		mg/L			03/22/23 06:28	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>100</b>		20		mg/L			03/22/23 10:22	10
<b>Fluoride (SM 4500 F C)</b>	<b>1.1</b>		0.10		mg/L			03/22/23 09:58	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>430</b>		100		mg/L			03/22/23 11:45	20

### Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	122.23				ft			03/21/23 09:52	1
Depth to Water (ft from MP)	124.71				ft			03/21/23 09:52	1
Elevation of well (ft from MP)	621.84				ft			03/21/23 09:52	1
Field pH	8.04				SU			03/21/23 09:52	1
Field Temperature	48.9				Degrees F			03/21/23 09:52	1
Field Turbidity	13.74				NTU			03/21/23 09:52	1
Ground Water Elevation	497.13				ft			03/21/23 09:52	1
Specific Conductance	1318				umhos/cm			03/21/23 09:52	1
Well bottom elevation	451.46				ft			03/21/23 09:52	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: T09S**

**Lab Sample ID: 500-230703-10**

Date Collected: 03/21/23 11:58

Matrix: Water

Date Received: 03/21/23 15:45

**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		03/22/23 08:37	03/22/23 19:40	1
<b>Arsenic</b>	<b>0.0019</b>		0.0010		mg/L		03/22/23 08:37	03/22/23 19:40	1
<b>Barium</b>	<b>0.064</b>		0.0025		mg/L		03/22/23 08:37	03/22/23 19:40	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:40	1
<b>Boron</b>	<b>9.9</b>		1.0		mg/L		03/22/23 08:37	03/23/23 14:00	20
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:40	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		03/22/23 08:37	03/22/23 19:40	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 19:40	1
<b>Cobalt</b>	<b>0.0012</b>		0.0010		mg/L		03/22/23 08:37	03/22/23 19:40	1
Lead	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:40	1
<b>Lithium</b>	<b>0.11</b>		0.010		mg/L		03/22/23 08:37	03/22/23 19:40	1
<b>Molybdenum</b>	<b>1.3</b>		0.0050		mg/L		03/22/23 08:37	03/22/23 19:40	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:40	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 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		03/23/23 12:05	03/24/23 08:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1100</b>		10		mg/L			03/22/23 06:31	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>60</b>		20		mg/L			03/22/23 10:22	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.39</b>		0.10		mg/L			03/22/23 09:58	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>540</b>		250		mg/L			03/22/23 11:45	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>105.35</b>				ft			03/21/23 11:58	1
<b>Depth to Water (ft from MP)</b>	<b>107.75</b>				ft			03/21/23 11:58	1
<b>Elevation of well (ft from MP)</b>	<b>603.48</b>				ft			03/21/23 11:58	1
<b>Field pH</b>	<b>7.76</b>				SU			03/21/23 11:58	1
<b>Field Temperature</b>	<b>52.7</b>				Degrees F			03/21/23 11:58	1
<b>Field Turbidity</b>	<b>17.35</b>				NTU			03/21/23 11:58	1
<b>Ground Water Elevation</b>	<b>495.73</b>				ft			03/21/23 11:58	1
<b>Specific Conductance</b>	<b>1417</b>				umhos/cm			03/21/23 11:58	1
<b>Well bottom elevation</b>	<b>444.80</b>				ft			03/21/23 11:58	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: T06S**

**Lab Sample ID: 500-230703-11**

Date Collected: 03/21/23 13:45

Matrix: Water

Date Received: 03/21/23 15:45

**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		03/22/23 08:37	03/22/23 19:44	1
Arsenic	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:44	1
<b>Barium</b>	<b>0.031</b>		0.0025		mg/L		03/22/23 08:37	03/22/23 19:44	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:44	1
<b>Boron</b>	<b>0.95</b>		0.25		mg/L		03/22/23 08:37	03/23/23 14:04	5
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:44	1
<b>Calcium</b>	<b>74</b>		0.20		mg/L		03/22/23 08:37	03/22/23 19:44	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 19:44	1
Cobalt	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 19:44	1
Lead	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 19:44	1
<b>Lithium</b>	<b>0.026</b>		0.010		mg/L		03/22/23 08:37	03/22/23 19:44	1
<b>Molybdenum</b>	<b>0.026</b>		0.0050		mg/L		03/22/23 08:37	03/22/23 19:44	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 19:44	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 19:44	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>490</b>		10		mg/L			03/22/23 06:33	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>13</b>		2.0		mg/L			03/22/23 10:22	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.44</b>		0.10		mg/L			03/22/23 09:58	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>100</b>		50		mg/L			03/22/23 11:45	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>115.75</b>				ft			03/21/23 13:45	1
<b>Depth to Water (ft from MP)</b>	<b>118.05</b>				ft			03/21/23 13:45	1
<b>Elevation of well (ft from MP)</b>	<b>621.05</b>				ft			03/21/23 13:45	1
<b>Field pH</b>	<b>7.63</b>				SU			03/21/23 13:45	1
<b>Field Temperature</b>	<b>65.1</b>				Degrees F			03/21/23 13:45	1
<b>Field Turbidity</b>	<b>3.17</b>				NTU			03/21/23 13:45	1
<b>Ground Water Elevation</b>	<b>503.00</b>				ft			03/21/23 13:45	1
<b>Specific Conductance</b>	<b>701</b>				umhos/cm			03/21/23 13:45	1
<b>Well bottom elevation</b>	<b>447.94</b>				ft			03/21/23 13:45	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: T05S**

**Lab Sample ID: 500-230703-12**

Date Collected: 03/22/23 09:27

Matrix: Water

Date Received: 03/22/23 14:45

**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		03/23/23 08:44	03/23/23 15:53	1
<b>Arsenic</b>	<b>0.11</b>		0.0010		mg/L		03/23/23 08:44	03/23/23 15:53	1
<b>Barium</b>	<b>0.0098</b>		0.0025		mg/L		03/23/23 08:44	03/23/23 15:53	1
Beryllium	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:53	1
<b>Boron</b>	<b>11</b>		2.5		mg/L		03/23/23 08:44	03/28/23 17:29	50
Cadmium	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:53	1
<b>Calcium</b>	<b>5.7</b>		0.20		mg/L		03/23/23 08:44	03/23/23 15:53	1
Chromium	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 15:53	1
Cobalt	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:53	1
Lead	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:53	1
<b>Lithium</b>	<b>0.021</b>		0.010		mg/L		03/23/23 08:44	03/23/23 15:53	1
<b>Molybdenum</b>	<b>0.96</b>		0.0050		mg/L		03/23/23 08:44	03/23/23 15:53	1
<b>Selenium</b>	<b>0.0028</b>		0.0025		mg/L		03/23/23 08:44	03/28/23 19:51	1
Thallium	<0.0020		0.0020		mg/L		03/23/23 08:44	03/23/23 15:53	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1500</b>		10		mg/L			03/23/23 05:22	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		20		mg/L			03/24/23 10:59	10
<b>Fluoride (SM 4500 F C)</b>	<b>1.6</b>		0.10		mg/L			03/24/23 13:50	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>570</b>	<b>F1</b>	250		mg/L			03/24/23 12:27	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>123.86</b>				ft			03/22/23 09:27	1
<b>Depth to Water (ft from MP)</b>	<b>126.26</b>				ft			03/22/23 09:27	1
<b>Elevation of well (ft from MP)</b>	<b>623.50</b>				ft			03/22/23 09:27	1
<b>Field pH</b>	<b>9.70</b>				SU			03/22/23 09:27	1
<b>Field Temperature</b>	<b>46.6</b>				Degrees F			03/22/23 09:27	1
<b>Field Turbidity</b>	<b>2.15</b>				NTU			03/22/23 09:27	1
<b>Ground Water Elevation</b>	<b>497.24</b>				ft			03/22/23 09:27	1
<b>Specific Conductance</b>	<b>2100</b>				umhos/cm			03/22/23 09:27	1
<b>Well bottom elevation</b>	<b>448.35</b>				ft			03/22/23 09:27	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: R08S**

**Lab Sample ID: 500-230703-13**

Date Collected: 03/22/23 12:25

Matrix: Water

Date Received: 03/22/23 14:45

**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		03/23/23 08:44	03/23/23 15:57	1
<b>Arsenic</b>	<b>0.0012</b>		0.0010		mg/L		03/23/23 08:44	03/23/23 15:57	1
<b>Barium</b>	<b>0.043</b>		0.0025		mg/L		03/23/23 08:44	03/23/23 15:57	1
Beryllium	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:57	1
<b>Boron</b>	<b>7.6</b>		1.0		mg/L		03/23/23 08:44	03/28/23 17:33	20
Cadmium	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:57	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		03/23/23 08:44	03/23/23 15:57	1
Chromium	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 15:57	1
Cobalt	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:57	1
Lead	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:57	1
<b>Lithium</b>	<b>0.16</b>		0.010		mg/L		03/23/23 08:44	03/23/23 15:57	1
<b>Molybdenum</b>	<b>0.40</b>		0.0050		mg/L		03/23/23 08:44	03/23/23 15:57	1
<b>Selenium</b>	<b>0.011</b>		0.0025		mg/L		03/23/23 08:44	03/28/23 19:54	1
Thallium	<0.0020		0.0020		mg/L		03/23/23 08:44	03/23/23 15:57	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>880</b>		10		mg/L			03/23/23 05:29	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>77</b>		10		mg/L			03/24/23 10:40	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.15</b>		0.10		mg/L			03/24/23 13:50	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>450</b>		50		mg/L			03/24/23 12:05	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>67.53</b>				ft			03/22/23 12:25	1
<b>Depth to Water (ft from MP)</b>	<b>70.08</b>				ft			03/22/23 12:25	1
<b>Elevation of well (ft from MP)</b>	<b>578.66</b>				ft			03/22/23 12:25	1
<b>Field pH</b>	<b>8.39</b>				SU			03/22/23 12:25	1
<b>Field Temperature</b>	<b>53.6</b>				Degrees F			03/22/23 12:25	1
<b>Field Turbidity</b>	<b>1.41</b>				NTU			03/22/23 12:25	1
<b>Ground Water Elevation</b>	<b>508.58</b>				ft			03/22/23 12:25	1
<b>Specific Conductance</b>	<b>998</b>				umhos/cm			03/22/23 12:25	1
<b>Well bottom elevation</b>	<b>453.08</b>				ft			03/22/23 12:25	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: R08S Dup**

**Lab Sample ID: 500-230703-14**

Date Collected: 03/22/23 12:25

Matrix: Water

Date Received: 03/22/23 14:45

**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		03/23/23 08:44	03/23/23 16:00	1
<b>Arsenic</b>	<b>0.0012</b>		0.0010		mg/L		03/23/23 08:44	03/23/23 16:00	1
<b>Barium</b>	<b>0.042</b>		0.0025		mg/L		03/23/23 08:44	03/23/23 16:00	1
Beryllium	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 16:00	1
<b>Boron</b>	<b>7.8</b>		1.0		mg/L		03/23/23 08:44	03/28/23 17:37	20
Cadmium	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 16:00	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		03/23/23 08:44	03/23/23 16:00	1
Chromium	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 16:00	1
Cobalt	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 16:00	1
Lead	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 16:00	1
<b>Lithium</b>	<b>0.16</b>		0.010		mg/L		03/23/23 08:44	03/23/23 16:00	1
<b>Molybdenum</b>	<b>0.40</b>		0.0050		mg/L		03/23/23 08:44	03/23/23 16:00	1
<b>Selenium</b>	<b>0.011</b>		0.0025		mg/L		03/23/23 08:44	03/28/23 19:58	1
Thallium	<0.0020		0.0020		mg/L		03/23/23 08:44	03/23/23 16:00	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>890</b>		10		mg/L			03/23/23 05:35	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>77</b>		10		mg/L			03/24/23 10:40	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.15</b>		0.10		mg/L			03/24/23 13:50	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>450</b>		50		mg/L			03/24/23 12:05	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>67.53</b>				ft			03/22/23 12:25	1
<b>Depth to Water (ft from MP)</b>	<b>70.08</b>				ft			03/22/23 12:25	1
<b>Elevation of well (ft from MP)</b>	<b>578.66</b>				ft			03/22/23 12:25	1
<b>Field pH</b>	<b>8.39</b>				SU			03/22/23 12:25	1
<b>Field Temperature</b>	<b>53.6</b>				Degrees F			03/22/23 12:25	1
<b>Field Turbidity</b>	<b>1.41</b>				NTU			03/22/23 12:25	1
<b>Ground Water Elevation</b>	<b>508.58</b>				ft			03/22/23 12:25	1
<b>Specific Conductance</b>	<b>998</b>				umhos/cm			03/22/23 12:25	1
<b>Well bottom elevation</b>	<b>453.08</b>				ft			03/22/23 12:25	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: G46S**

**Lab Sample ID: 500-230703-15**

Date Collected: 03/22/23 13:30

Matrix: Water

Date Received: 03/22/23 14:45

**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		03/23/23 08:44	03/23/23 16:04	1
<b>Arsenic</b>	<b>0.056</b>		0.0010		mg/L		03/23/23 08:44	03/23/23 16:04	1
<b>Barium</b>	<b>0.053</b>		0.0025		mg/L		03/23/23 08:44	03/23/23 16:04	1
Beryllium	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 16:04	1
<b>Boron</b>	<b>10</b>		2.5		mg/L		03/23/23 08:44	03/28/23 17:41	50
Cadmium	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 16:04	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		03/23/23 08:44	03/23/23 16:04	1
Chromium	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 16:04	1
Cobalt	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 16:04	1
Lead	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 16:04	1
<b>Lithium</b>	<b>0.20</b>		0.010		mg/L		03/23/23 08:44	03/23/23 16:04	1
<b>Molybdenum</b>	<b>1.5</b>		0.0050		mg/L		03/23/23 08:44	03/23/23 16:04	1
Selenium	<0.0025		0.0025		mg/L		03/23/23 08:44	03/28/23 20:01	1
Thallium	<0.0020		0.0020		mg/L		03/23/23 08:44	03/23/23 16:04	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 08:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1100</b>		10		mg/L			03/23/23 05:37	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>72</b>		20		mg/L			03/24/23 10:40	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.31</b>		0.10		mg/L			03/24/23 13:50	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>500</b>		250		mg/L			03/24/23 12:05	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>89.29</b>				ft			03/22/23 13:30	1
<b>Depth to Water (ft from MP)</b>	<b>91.99</b>				ft			03/22/23 13:30	1
<b>Elevation of well (ft from MP)</b>	<b>601.41</b>				ft			03/22/23 13:30	1
<b>Field pH</b>	<b>7.70</b>				SU			03/22/23 13:30	1
<b>Field Temperature</b>	<b>53.6</b>				Degrees F			03/22/23 13:30	1
<b>Field Turbidity</b>	<b>88.61</b>				NTU			03/22/23 13:30	1
<b>Ground Water Elevation</b>	<b>509.42</b>				ft			03/22/23 13:30	1
<b>Specific Conductance</b>	<b>1307</b>				umhos/cm			03/22/23 13:30	1
<b>Well bottom elevation</b>	<b>453.62</b>				ft			03/22/23 13:30	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: G48S**

**Lab Sample ID: 500-230703-16**

Date Collected: 03/23/23 10:13

Matrix: Water

Date Received: 03/23/23 14:43

**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		03/24/23 08:57	03/28/23 18:07	1
<b>Arsenic</b>	<b>0.016</b>		0.0010		mg/L		03/24/23 08:57	03/28/23 18:07	1
<b>Barium</b>	<b>0.017</b>		0.0025		mg/L		03/24/23 08:57	03/28/23 18:07	1
Beryllium	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:07	1
<b>Boron</b>	<b>6.0</b>		1.0		mg/L		03/24/23 08:57	03/29/23 16:13	20
Cadmium	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:07	1
<b>Calcium</b>	<b>24</b>		0.20		mg/L		03/24/23 08:57	03/28/23 18:07	1
Chromium	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:07	1
Cobalt	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:07	1
Lead	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:07	1
<b>Lithium</b>	<b>0.021</b>		0.010		mg/L		03/24/23 08:57	03/29/23 16:41	1
<b>Molybdenum</b>	<b>0.37</b>		0.0050		mg/L		03/24/23 08:57	03/28/23 18:07	1
Selenium	<0.0025		0.0025		mg/L		03/24/23 08:57	03/28/23 18:07	1
Thallium	<0.0020		0.0020		mg/L		03/24/23 08:57	03/28/23 18:07	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/24/23 13:55	03/27/23 08:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1000</b>		10		mg/L			03/29/23 03:12	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>100</b>		20		mg/L			03/24/23 10:41	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.96</b>		0.10		mg/L			03/24/23 13:50	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>370</b>		250		mg/L			03/24/23 12:05	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>101.37</b>				ft			03/23/23 10:13	1
<b>Depth to Water (ft from MP)</b>	<b>103.82</b>				ft			03/23/23 10:13	1
<b>Elevation of well (ft from MP)</b>	<b>620.77</b>				ft			03/23/23 10:13	1
<b>Field pH</b>	<b>8.68</b>				SU			03/23/23 10:13	1
<b>Field Temperature</b>	<b>50.0</b>				Degrees F			03/23/23 10:13	1
<b>Field Turbidity</b>	<b>3.13</b>				NTU			03/23/23 10:13	1
<b>Ground Water Elevation</b>	<b>516.95</b>				ft			03/23/23 10:13	1
<b>Specific Conductance</b>	<b>1352</b>				umhos/cm			03/23/23 10:13	1
<b>Well bottom elevation</b>	<b>468.32</b>				ft			03/23/23 10:13	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: G47S**

**Lab Sample ID: 500-230703-17**

Date Collected: 03/23/23 11:22

Matrix: Water

Date Received: 03/23/23 14:43

**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		03/24/23 08:57	03/28/23 18:11	1
<b>Arsenic</b>	<b>0.039</b>		0.0010		mg/L		03/24/23 08:57	03/28/23 18:11	1
<b>Barium</b>	<b>0.013</b>		0.0025		mg/L		03/24/23 08:57	03/28/23 18:11	1
Beryllium	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:11	1
<b>Boron</b>	<b>6.7</b>		1.0		mg/L		03/24/23 08:57	03/29/23 16:17	20
Cadmium	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:11	1
<b>Calcium</b>	<b>11</b>		0.20		mg/L		03/24/23 08:57	03/28/23 18:11	1
Chromium	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:11	1
Cobalt	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:11	1
Lead	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:11	1
<b>Lithium</b>	<b>0.049</b>		0.010		mg/L		03/24/23 08:57	03/29/23 16:45	1
<b>Molybdenum</b>	<b>0.52</b>		0.0050		mg/L		03/24/23 08:57	03/28/23 18:11	1
<b>Selenium</b>	<b>0.0025</b>		0.0025		mg/L		03/24/23 08:57	03/28/23 18:11	1
Thallium	<0.0020		0.0020		mg/L		03/24/23 08:57	03/28/23 18:11	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/24/23 13:55	03/27/23 08:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1100</b>		10		mg/L			03/29/23 03:20	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>100</b>		20		mg/L			03/24/23 10:41	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.65</b>		0.10		mg/L			03/24/23 13:50	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>440</b>		250		mg/L			03/24/23 12:06	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	93.25				ft			03/23/23 11:22	1
Depth to Water (ft from MP)	95.75				ft			03/23/23 11:22	1
Elevation of well (ft from MP)	612.23				ft			03/23/23 11:22	1
Field pH	9.22				SU			03/23/23 11:22	1
Field Temperature	51.4				Degrees F			03/23/23 11:22	1
Field Turbidity	1.12				NTU			03/23/23 11:22	1
Ground Water Elevation	516.48				ft			03/23/23 11:22	1
Specific Conductance	1485				umhos/cm			03/23/23 11:22	1
Well bottom elevation	459.84				ft			03/23/23 11:22	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: G45S**

**Lab Sample ID: 500-230703-18**

Date Collected: 03/23/23 12:16

Matrix: Water

Date Received: 03/23/23 14:43

**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		03/24/23 08:57	03/28/23 18:14	1
<b>Arsenic</b>	<b>0.0096</b>		0.0010		mg/L		03/24/23 08:57	03/28/23 18:14	1
<b>Barium</b>	<b>0.040</b>		0.0025		mg/L		03/24/23 08:57	03/28/23 18:14	1
Beryllium	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:14	1
<b>Boron</b>	<b>0.44</b>		0.050		mg/L		03/24/23 08:57	03/29/23 16:21	1
Cadmium	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:14	1
<b>Calcium</b>	<b>91</b>		0.20		mg/L		03/24/23 08:57	03/28/23 18:14	1
Chromium	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:14	1
Cobalt	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:14	1
Lead	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:14	1
<b>Lithium</b>	<b>0.030</b>		0.010		mg/L		03/24/23 08:57	03/29/23 16:21	1
<b>Molybdenum</b>	<b>0.011</b>		0.0050		mg/L		03/24/23 08:57	03/28/23 18:14	1
Selenium	<0.0025		0.0025		mg/L		03/24/23 08:57	03/28/23 18:14	1
Thallium	<0.0020		0.0020		mg/L		03/24/23 08:57	03/28/23 18:14	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/24/23 13:55	03/27/23 08:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>740</b>		10		mg/L			03/29/23 03:25	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		20		mg/L			03/24/23 10:42	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.35</b>		0.10		mg/L			03/24/23 13:50	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>160</b>		50		mg/L			03/24/23 12:28	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>63.44</b>				ft			03/23/23 12:16	1
<b>Depth to Water (ft from MP)</b>	<b>66.41</b>				ft			03/23/23 12:16	1
<b>Elevation of well (ft from MP)</b>	<b>603.80</b>				ft			03/23/23 12:16	1
<b>Field pH</b>	<b>7.30</b>				SU			03/23/23 12:16	1
<b>Field Temperature</b>	<b>53.8</b>				Degrees F			03/23/23 12:16	1
<b>Field Turbidity</b>	<b>1.13</b>				NTU			03/23/23 12:16	1
<b>Ground Water Elevation</b>	<b>537.39</b>				ft			03/23/23 12:16	1
<b>Specific Conductance</b>	<b>1024</b>				umhos/cm			03/23/23 12:16	1
<b>Well bottom elevation</b>	<b>471.05</b>				ft			03/23/23 12:16	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: R32S**

**Lab Sample ID: 500-230703-19**

Date Collected: 03/23/23 13:34

Matrix: Water

Date Received: 03/23/23 14:43

**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		03/24/23 08:57	03/28/23 18:18	1
<b>Arsenic</b>	<b>0.0026</b>		0.0010		mg/L		03/24/23 08:57	03/28/23 18:18	1
<b>Barium</b>	<b>0.034</b>		0.0025		mg/L		03/24/23 08:57	03/28/23 18:18	1
Beryllium	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:18	1
<b>Boron</b>	<b>4.6</b>		1.0		mg/L		03/24/23 08:57	03/29/23 16:25	20
Cadmium	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:18	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		03/24/23 08:57	03/28/23 18:18	1
Chromium	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:18	1
Cobalt	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:18	1
Lead	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:18	1
<b>Lithium</b>	<b>0.10</b>		0.010		mg/L		03/24/23 08:57	03/29/23 16:49	1
<b>Molybdenum</b>	<b>0.62</b>		0.0050		mg/L		03/24/23 08:57	03/28/23 18:18	1
Selenium	<0.0025		0.0025		mg/L		03/24/23 08:57	03/28/23 18:18	1
Thallium	<0.0020		0.0020		mg/L		03/24/23 08:57	03/28/23 18:18	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/24/23 13:55	03/27/23 08:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>940</b>		10		mg/L			03/29/23 03:27	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>56</b>		10		mg/L			03/24/23 10:42	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.29</b>		0.10		mg/L			03/24/23 13:50	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>390</b>		250		mg/L			03/24/23 12:28	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>20.15</b>				ft			03/23/23 13:34	1
<b>Depth to Water (ft from MP)</b>	<b>22.18</b>				ft			03/23/23 13:34	1
<b>Elevation of well (ft from MP)</b>	<b>536.97</b>				ft			03/23/23 13:34	1
<b>Field pH</b>	<b>7.57</b>				SU			03/23/23 13:34	1
<b>Field Temperature</b>	<b>51.6</b>				Degrees F			03/23/23 13:34	1
<b>Field Turbidity</b>	<b>1.59</b>				NTU			03/23/23 13:34	1
<b>Ground Water Elevation</b>	<b>514.79</b>				ft			03/23/23 13:34	1
<b>Specific Conductance</b>	<b>935</b>				umhos/cm			03/23/23 13:34	1
<b>Well bottom elevation</b>	<b>457.84</b>				ft			03/23/23 13:34	1

# Definitions/Glossary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Qualifiers

### 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 1Q23

Job ID: 500-230703-1

## Metals

### Prep Batch: 702832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total Recoverable	Water	3005A	
500-230703-2	G33S	Total Recoverable	Water	3005A	
500-230703-3	G44S	Total Recoverable	Water	3005A	
500-230703-4	G31S	Total Recoverable	Water	3005A	
MB 500-702832/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-702832/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 702887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	7470A	
500-230703-2	G33S	Total/NA	Water	7470A	
500-230703-3	G44S	Total/NA	Water	7470A	
500-230703-4	G31S	Total/NA	Water	7470A	
MB 500-702887/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-702887/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 703072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total Recoverable	Water	6020A	702832
500-230703-2	G33S	Total Recoverable	Water	6020A	702832
500-230703-3	G44S	Total Recoverable	Water	6020A	702832
MB 500-702832/1-A	Method Blank	Total Recoverable	Water	6020A	702832
LCS 500-702832/2-A	Lab Control Sample	Total Recoverable	Water	6020A	702832

### Analysis Batch: 703090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	7470A	702887
500-230703-2	G33S	Total/NA	Water	7470A	702887
500-230703-3	G44S	Total/NA	Water	7470A	702887
500-230703-4	G31S	Total/NA	Water	7470A	702887
MB 500-702887/12-A	Method Blank	Total/NA	Water	7470A	702887
LCS 500-702887/13-A	Lab Control Sample	Total/NA	Water	7470A	702887

### Prep Batch: 703199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total Recoverable	GW	3005A	
MB 500-703199/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-703199/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 703272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total/NA	GW	7470A	
MB 500-703272/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-703272/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 703492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total/NA	GW	7470A	703272
MB 500-703272/12-A	Method Blank	Total/NA	Water	7470A	703272
LCS 500-703272/13-A	Lab Control Sample	Total/NA	Water	7470A	703272

# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Metals

### Prep Batch: 703613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-6	T02S	Total Recoverable	Water	3005A	
500-230703-7	T08S	Total Recoverable	Water	3005A	
500-230703-8	T03S	Total Recoverable	Water	3005A	
500-230703-9	T01S	Total Recoverable	Water	3005A	
500-230703-10	T09S	Total Recoverable	Water	3005A	
500-230703-11	T06S	Total Recoverable	Water	3005A	
MB 500-703613/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-703613/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 703655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total Recoverable	Water	6020A	702832
500-230703-2	G33S	Total Recoverable	Water	6020A	702832
500-230703-3	G44S	Total Recoverable	Water	6020A	702832
500-230703-4	G31S	Total Recoverable	Water	6020A	702832
MB 500-702832/1-A	Method Blank	Total Recoverable	Water	6020A	702832
LCS 500-702832/2-A	Lab Control Sample	Total Recoverable	Water	6020A	702832

### Analysis Batch: 703766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-4	G31S	Total Recoverable	Water	6020A	702832

### Prep Batch: 703856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total Recoverable	Water	3005A	
500-230703-13	R08S	Total Recoverable	Water	3005A	
500-230703-14	R08S Dup	Total Recoverable	Water	3005A	
500-230703-15	G46S	Total Recoverable	Water	3005A	
MB 500-703856/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-703856/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 703899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total Recoverable	GW	6020A	703199
500-230703-6	T02S	Total Recoverable	Water	6020A	703613
500-230703-7	T08S	Total Recoverable	Water	6020A	703613
500-230703-8	T03S	Total Recoverable	Water	6020A	703613
500-230703-9	T01S	Total Recoverable	Water	6020A	703613
500-230703-10	T09S	Total Recoverable	Water	6020A	703613
500-230703-11	T06S	Total Recoverable	Water	6020A	703613
MB 500-703199/1-A	Method Blank	Total Recoverable	Water	6020A	703199
MB 500-703613/1-A	Method Blank	Total Recoverable	Water	6020A	703613
LCS 500-703199/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703199
LCS 500-703613/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703613

### Prep Batch: 703940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-6	T02S	Total/NA	Water	7470A	
500-230703-7	T08S	Total/NA	Water	7470A	
500-230703-8	T03S	Total/NA	Water	7470A	
500-230703-9	T01S	Total/NA	Water	7470A	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Metals (Continued)

### Prep Batch: 703940 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-10	T09S	Total/NA	Water	7470A	
500-230703-11	T06S	Total/NA	Water	7470A	
500-230703-12	T05S	Total/NA	Water	7470A	
500-230703-13	R08S	Total/NA	Water	7470A	
500-230703-14	R08S Dup	Total/NA	Water	7470A	
500-230703-15	G46S	Total/NA	Water	7470A	
MB 500-703940/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-703940/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 703969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total Recoverable	GW	6020A	703199
500-230703-6	T02S	Total Recoverable	Water	6020A	703613
500-230703-7	T08S	Total Recoverable	Water	6020A	703613
500-230703-8	T03S	Total Recoverable	Water	6020A	703613
500-230703-9	T01S	Total Recoverable	Water	6020A	703613
500-230703-10	T09S	Total Recoverable	Water	6020A	703613
500-230703-11	T06S	Total Recoverable	Water	6020A	703613
MB 500-703199/1-A	Method Blank	Total Recoverable	Water	6020A	703199
MB 500-703613/1-A	Method Blank	Total Recoverable	Water	6020A	703613
LCS 500-703199/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703199
LCS 500-703613/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703613

### Prep Batch: 704076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-16	G48S	Total Recoverable	Water	3005A	
500-230703-17	G47S	Total Recoverable	Water	3005A	
500-230703-18	G45S	Total Recoverable	Water	3005A	
500-230703-19	R32S	Total Recoverable	Water	3005A	
MB 500-704076/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-704076/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 704131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total Recoverable	Water	6020A	703856
500-230703-13	R08S	Total Recoverable	Water	6020A	703856
500-230703-14	R08S Dup	Total Recoverable	Water	6020A	703856
500-230703-15	G46S	Total Recoverable	Water	6020A	703856
MB 500-703856/1-A	Method Blank	Total Recoverable	Water	6020A	703856
LCS 500-703856/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703856

### Analysis Batch: 704153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-6	T02S	Total/NA	Water	7470A	703940
500-230703-7	T08S	Total/NA	Water	7470A	703940
500-230703-8	T03S	Total/NA	Water	7470A	703940
500-230703-9	T01S	Total/NA	Water	7470A	703940
500-230703-10	T09S	Total/NA	Water	7470A	703940
500-230703-11	T06S	Total/NA	Water	7470A	703940
500-230703-12	T05S	Total/NA	Water	7470A	703940
500-230703-13	R08S	Total/NA	Water	7470A	703940

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Metals (Continued)

### Analysis Batch: 704153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-14	R08S Dup	Total/NA	Water	7470A	703940
500-230703-15	G46S	Total/NA	Water	7470A	703940
MB 500-703940/12-A	Method Blank	Total/NA	Water	7470A	703940
LCS 500-703940/13-A	Lab Control Sample	Total/NA	Water	7470A	703940

### Prep Batch: 704166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-16	G48S	Total/NA	Water	7470A	
500-230703-17	G47S	Total/NA	Water	7470A	
500-230703-18	G45S	Total/NA	Water	7470A	
500-230703-19	R32S	Total/NA	Water	7470A	
MB 500-704166/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-704166/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 704415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-16	G48S	Total/NA	Water	7470A	704166
500-230703-17	G47S	Total/NA	Water	7470A	704166
500-230703-18	G45S	Total/NA	Water	7470A	704166
500-230703-19	R32S	Total/NA	Water	7470A	704166
MB 500-704166/12-A	Method Blank	Total/NA	Water	7470A	704166
LCS 500-704166/13-A	Lab Control Sample	Total/NA	Water	7470A	704166

### Analysis Batch: 704817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total Recoverable	Water	6020A	703856
500-230703-13	R08S	Total Recoverable	Water	6020A	703856
500-230703-14	R08S Dup	Total Recoverable	Water	6020A	703856
500-230703-15	G46S	Total Recoverable	Water	6020A	703856
500-230703-16	G48S	Total Recoverable	Water	6020A	704076
500-230703-17	G47S	Total Recoverable	Water	6020A	704076
500-230703-18	G45S	Total Recoverable	Water	6020A	704076
500-230703-19	R32S	Total Recoverable	Water	6020A	704076
MB 500-703856/1-A	Method Blank	Total Recoverable	Water	6020A	703856
MB 500-704076/1-A	Method Blank	Total Recoverable	Water	6020A	704076
LCS 500-703856/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703856
LCS 500-704076/2-A	Lab Control Sample	Total Recoverable	Water	6020A	704076

### Analysis Batch: 704828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total Recoverable	Water	6020A	703856
500-230703-13	R08S	Total Recoverable	Water	6020A	703856
500-230703-14	R08S Dup	Total Recoverable	Water	6020A	703856
500-230703-15	G46S	Total Recoverable	Water	6020A	703856
MB 500-703856/1-A	Method Blank	Total Recoverable	Water	6020A	703856
LCS 500-703856/2-A	Lab Control Sample	Total Recoverable	Water	6020A	703856

### Analysis Batch: 705004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-16	G48S	Total Recoverable	Water	6020A	704076
500-230703-16	G48S	Total Recoverable	Water	6020A	704076

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Metals (Continued)

### Analysis Batch: 705004 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-17	G47S	Total Recoverable	Water	6020A	704076
500-230703-17	G47S	Total Recoverable	Water	6020A	704076
500-230703-18	G45S	Total Recoverable	Water	6020A	704076
500-230703-19	R32S	Total Recoverable	Water	6020A	704076
500-230703-19	R32S	Total Recoverable	Water	6020A	704076
MB 500-704076/1-A	Method Blank	Total Recoverable	Water	6020A	704076
LCS 500-704076/2-A	Lab Control Sample	Total Recoverable	Water	6020A	704076

## General Chemistry

### Analysis Batch: 702554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	SM 2540C	
MB 500-702554/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-702554/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 702719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	SM 4500 F C	
MB 500-702719/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-702719/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 702875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	SM 4500 Cl- E	
500-230703-2	G33S	Total/NA	Water	SM 4500 Cl- E	
500-230703-3	G44S	Total/NA	Water	SM 4500 Cl- E	
500-230703-4	G31S	Total/NA	Water	SM 4500 Cl- E	
MB 500-702875/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-702875/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-230703-1 MS	G20S	Total/NA	Water	SM 4500 Cl- E	
500-230703-1 MSD	G20S	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 703068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	SM 4500 SO4 E	
500-230703-2	G33S	Total/NA	Water	SM 4500 SO4 E	
500-230703-3	G44S	Total/NA	Water	SM 4500 SO4 E	
500-230703-4	G31S	Total/NA	Water	SM 4500 SO4 E	
MB 500-703068/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-703068/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-230703-1 MS	G20S	Total/NA	Water	SM 4500 SO4 E	
500-230703-1 MSD	G20S	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 703184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-2	G33S	Total/NA	Water	SM 2540C	
MB 500-703184/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-703184/2	Lab Control Sample	Total/NA	Water	SM 2540C	

# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## General Chemistry

### Analysis Batch: 703509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-2	G33S	Total/NA	Water	SM 4500 F C	
500-230703-3	G44S	Total/NA	Water	SM 4500 F C	
500-230703-4	G31S	Total/NA	Water	SM 4500 F C	
500-230703-5	G30S	Total/NA	GW	SM 4500 F C	
500-230703-6	T02S	Total/NA	Water	SM 4500 F C	
500-230703-7	T08S	Total/NA	Water	SM 4500 F C	
500-230703-8	T03S	Total/NA	Water	SM 4500 F C	
MB 500-703509/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-703509/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-230703-2 MS	G33S	Total/NA	Water	SM 4500 F C	
500-230703-2 MSD	G33S	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 703678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total/NA	GW	SM 4500 Cl- E	
500-230703-6	T02S	Total/NA	Water	SM 4500 Cl- E	
500-230703-7	T08S	Total/NA	Water	SM 4500 Cl- E	
500-230703-8	T03S	Total/NA	Water	SM 4500 Cl- E	
500-230703-9	T01S	Total/NA	Water	SM 4500 Cl- E	
500-230703-10	T09S	Total/NA	Water	SM 4500 Cl- E	
500-230703-11	T06S	Total/NA	Water	SM 4500 Cl- E	
MB 500-703678/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-703678/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 703684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-3	G44S	Total/NA	Water	SM 2540C	
500-230703-4	G31S	Total/NA	Water	SM 2540C	
500-230703-5	G30S	Total/NA	GW	SM 2540C	
500-230703-6	T02S	Total/NA	Water	SM 2540C	
500-230703-7	T08S	Total/NA	Water	SM 2540C	
500-230703-8	T03S	Total/NA	Water	SM 2540C	
500-230703-9	T01S	Total/NA	Water	SM 2540C	
500-230703-10	T09S	Total/NA	Water	SM 2540C	
500-230703-11	T06S	Total/NA	Water	SM 2540C	
MB 500-703684/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-703684/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-230703-3 MS	G44S	Total/NA	Water	SM 2540C	
500-230703-3 DU	G44S	Total/NA	Water	SM 2540C	
500-230703-4 DU	G31S	Total/NA	Water	SM 2540C	

### Analysis Batch: 703694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-5	G30S	Total/NA	GW	SM 4500 SO4 E	
500-230703-6	T02S	Total/NA	Water	SM 4500 SO4 E	
500-230703-7	T08S	Total/NA	Water	SM 4500 SO4 E	
500-230703-8	T03S	Total/NA	Water	SM 4500 SO4 E	
500-230703-9	T01S	Total/NA	Water	SM 4500 SO4 E	
500-230703-10	T09S	Total/NA	Water	SM 4500 SO4 E	
500-230703-11	T06S	Total/NA	Water	SM 4500 SO4 E	
MB 500-703694/16	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 1Q23

Job ID: 500-230703-1

## General Chemistry (Continued)

### Analysis Batch: 703694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-703694/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 703726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-9	T01S	Total/NA	Water	SM 4500 F C	
500-230703-10	T09S	Total/NA	Water	SM 4500 F C	
500-230703-11	T06S	Total/NA	Water	SM 4500 F C	
MB 500-703726/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-703726/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-230703-11 MS	T06S	Total/NA	Water	SM 4500 F C	
500-230703-11 MSD	T06S	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 703901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	SM 2540C	
500-230703-13	R08S	Total/NA	Water	SM 2540C	
500-230703-14	R08S Dup	Total/NA	Water	SM 2540C	
500-230703-15	G46S	Total/NA	Water	SM 2540C	
MB 500-703901/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-703901/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-230703-12 MS	T05S	Total/NA	Water	SM 2540C	
500-230703-12 DU	T05S	Total/NA	Water	SM 2540C	
500-230703-13 DU	R08S	Total/NA	Water	SM 2540C	

### Analysis Batch: 704133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	SM 4500 Cl- E	
500-230703-13	R08S	Total/NA	Water	SM 4500 Cl- E	
500-230703-14	R08S Dup	Total/NA	Water	SM 4500 Cl- E	
500-230703-15	G46S	Total/NA	Water	SM 4500 Cl- E	
500-230703-16	G48S	Total/NA	Water	SM 4500 Cl- E	
500-230703-17	G47S	Total/NA	Water	SM 4500 Cl- E	
500-230703-18	G45S	Total/NA	Water	SM 4500 Cl- E	
500-230703-19	R32S	Total/NA	Water	SM 4500 Cl- E	
MB 500-704133/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-704133/44	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-704133/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-704133/45	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 704148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	SM 4500 SO4 E	
500-230703-13	R08S	Total/NA	Water	SM 4500 SO4 E	
500-230703-14	R08S Dup	Total/NA	Water	SM 4500 SO4 E	
500-230703-15	G46S	Total/NA	Water	SM 4500 SO4 E	
500-230703-16	G48S	Total/NA	Water	SM 4500 SO4 E	
500-230703-17	G47S	Total/NA	Water	SM 4500 SO4 E	
500-230703-18	G45S	Total/NA	Water	SM 4500 SO4 E	
500-230703-19	R32S	Total/NA	Water	SM 4500 SO4 E	
MB 500-704148/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-704148/17	Lab Control Sample	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 1Q23

Job ID: 500-230703-1

## General Chemistry (Continued)

### Analysis Batch: 704148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12 MS	T05S	Total/NA	Water	SM 4500 SO4 E	
500-230703-12 MSD	T05S	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 704163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	SM 4500 F C	
500-230703-13	R08S	Total/NA	Water	SM 4500 F C	
500-230703-14	R08S Dup	Total/NA	Water	SM 4500 F C	
500-230703-15	G46S	Total/NA	Water	SM 4500 F C	
500-230703-16	G48S	Total/NA	Water	SM 4500 F C	
500-230703-17	G47S	Total/NA	Water	SM 4500 F C	
500-230703-18	G45S	Total/NA	Water	SM 4500 F C	
500-230703-19	R32S	Total/NA	Water	SM 4500 F C	
MB 500-704163/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-704163/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-230703-12 MS	T05S	Total/NA	Water	SM 4500 F C	
500-230703-12 MSD	T05S	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 704689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-16	G48S	Total/NA	Water	SM 2540C	
500-230703-17	G47S	Total/NA	Water	SM 2540C	
500-230703-18	G45S	Total/NA	Water	SM 2540C	
500-230703-19	R32S	Total/NA	Water	SM 2540C	
MB 500-704689/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-704689/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-230703-16 MS	G48S	Total/NA	Water	SM 2540C	
500-230703-16 DU	G48S	Total/NA	Water	SM 2540C	
500-230703-17 DU	G47S	Total/NA	Water	SM 2540C	

## Field Service / Mobile Lab

### Analysis Batch: 702599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	Field Sampling	
500-230703-2	G33S	Total/NA	Water	Field Sampling	
500-230703-3	G44S	Total/NA	Water	Field Sampling	
500-230703-4	G31S	Total/NA	Water	Field Sampling	
500-230703-5	G30S	Total/NA	GW	Field Sampling	
500-230703-6	T02S	Total/NA	Water	Field Sampling	
500-230703-7	T08S	Total/NA	Water	Field Sampling	
500-230703-8	T03S	Total/NA	Water	Field Sampling	
500-230703-9	T01S	Total/NA	Water	Field Sampling	
500-230703-10	T09S	Total/NA	Water	Field Sampling	
500-230703-11	T06S	Total/NA	Water	Field Sampling	
500-230703-12	T05S	Total/NA	Water	Field Sampling	
500-230703-13	R08S	Total/NA	Water	Field Sampling	
500-230703-14	R08S Dup	Total/NA	Water	Field Sampling	
500-230703-15	G46S	Total/NA	Water	Field Sampling	
500-230703-16	G48S	Total/NA	Water	Field Sampling	
500-230703-17	G47S	Total/NA	Water	Field Sampling	

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# QC Association Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Field Service / Mobile Lab (Continued)

### Analysis Batch: 702599 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-18	G45S	Total/NA	Water	Field Sampling	
500-230703-19	R32S	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 1Q23

Job ID: 500-230703-1

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

**Lab Sample ID: MB 500-702832/1-A**  
**Matrix: Water**  
**Analysis Batch: 703072**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 702832**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		03/16/23 08:33	03/16/23 17:42	1
Arsenic	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 17:42	1
Barium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/16/23 17:42	1
Boron	<0.050		0.050		mg/L		03/16/23 08:33	03/16/23 17:42	1
Cadmium	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 17:42	1
Calcium	<0.20		0.20		mg/L		03/16/23 08:33	03/16/23 17:42	1
Chromium	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 17:42	1
Cobalt	<0.0010		0.0010		mg/L		03/16/23 08:33	03/16/23 17:42	1
Lead	<0.00050		0.00050		mg/L		03/16/23 08:33	03/16/23 17:42	1
Lithium	<0.010		0.010		mg/L		03/16/23 08:33	03/16/23 17:42	1
Molybdenum	<0.0050		0.0050		mg/L		03/16/23 08:33	03/16/23 17:42	1
Selenium	<0.0025		0.0025		mg/L		03/16/23 08:33	03/16/23 17:42	1
Thallium	<0.0020		0.0020		mg/L		03/16/23 08:33	03/16/23 17:42	1

**Lab Sample ID: MB 500-702832/1-A**  
**Matrix: Water**  
**Analysis Batch: 703655**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 702832**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010		0.0010		mg/L		03/16/23 08:33	03/17/23 16:50	1

**Lab Sample ID: LCS 500-702832/2-A**  
**Matrix: Water**  
**Analysis Batch: 703072**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 702832**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0969		mg/L		97	80 - 120
Barium	2.00	2.06		mg/L		103	80 - 120
Boron	1.00	1.01		mg/L		101	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.514		mg/L		103	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Lithium	0.500	0.513		mg/L		103	80 - 120
Molybdenum	1.00	0.974		mg/L		97	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

**Lab Sample ID: LCS 500-702832/2-A**  
**Matrix: Water**  
**Analysis Batch: 703655**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 702832**

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 1Q23

Job ID: 500-230703-1

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

**Lab Sample ID: MB 500-703199/1-A**  
**Matrix: Water**  
**Analysis Batch: 703899**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703199**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		03/20/23 08:05	03/22/23 20:15	1
Arsenic	<0.0010		0.0010		mg/L		03/20/23 08:05	03/22/23 20:15	1
Barium	<0.0025		0.0025		mg/L		03/20/23 08:05	03/22/23 20:15	1
Beryllium	<0.0010		0.0010		mg/L		03/20/23 08:05	03/22/23 20:15	1
Cadmium	<0.00050		0.00050		mg/L		03/20/23 08:05	03/22/23 20:15	1
Calcium	<0.20		0.20		mg/L		03/20/23 08:05	03/22/23 20:15	1
Chromium	<0.0050		0.0050		mg/L		03/20/23 08:05	03/22/23 20:15	1
Cobalt	<0.0010		0.0010		mg/L		03/20/23 08:05	03/22/23 20:15	1
Lead	<0.00050		0.00050		mg/L		03/20/23 08:05	03/22/23 20:15	1
Lithium	<0.010		0.010		mg/L		03/20/23 08:05	03/22/23 20:15	1
Molybdenum	<0.0050		0.0050		mg/L		03/20/23 08:05	03/22/23 20:15	1
Selenium	<0.0025		0.0025		mg/L		03/20/23 08:05	03/22/23 20:15	1
Thallium	<0.0020		0.0020		mg/L		03/20/23 08:05	03/22/23 20:15	1

**Lab Sample ID: MB 500-703199/1-A**  
**Matrix: Water**  
**Analysis Batch: 703969**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703199**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		03/20/23 08:05	03/23/23 13:22	1

**Lab Sample ID: LCS 500-703199/2-A**  
**Matrix: Water**  
**Analysis Batch: 703899**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703199**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	2.00	2.05		mg/L		103	80 - 120
Beryllium	0.0500	0.0486		mg/L		97	80 - 120
Cadmium	0.0500	0.0490		mg/L		98	80 - 120
Calcium	10.0	9.70		mg/L		97	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.504		mg/L		101	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Lithium	0.500	0.497		mg/L		99	80 - 120
Molybdenum	1.00	0.971		mg/L		97	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

**Lab Sample ID: LCS 500-703199/2-A**  
**Matrix: Water**  
**Analysis Batch: 703969**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703199**

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 1Q23

Job ID: 500-230703-1

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

**Lab Sample ID: MB 500-703613/1-A**  
**Matrix: Water**  
**Analysis Batch: 703899**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703613**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		03/22/23 08:37	03/22/23 18:47	1
Arsenic	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 18:47	1
Barium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 18:47	1
Beryllium	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 18:47	1
Cadmium	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 18:47	1
Calcium	<0.20		0.20		mg/L		03/22/23 08:37	03/22/23 18:47	1
Chromium	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 18:47	1
Cobalt	<0.0010		0.0010		mg/L		03/22/23 08:37	03/22/23 18:47	1
Lead	<0.00050		0.00050		mg/L		03/22/23 08:37	03/22/23 18:47	1
Lithium	<0.010		0.010		mg/L		03/22/23 08:37	03/22/23 18:47	1
Molybdenum	<0.0050		0.0050		mg/L		03/22/23 08:37	03/22/23 18:47	1
Selenium	<0.0025		0.0025		mg/L		03/22/23 08:37	03/22/23 18:47	1
Thallium	<0.0020		0.0020		mg/L		03/22/23 08:37	03/22/23 18:47	1

**Lab Sample ID: MB 500-703613/1-A**  
**Matrix: Water**  
**Analysis Batch: 703969**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703613**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		03/22/23 08:37	03/23/23 13:40	1

**Lab Sample ID: LCS 500-703613/2-A**  
**Matrix: Water**  
**Analysis Batch: 703899**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703613**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0951		mg/L		95	80 - 120
Barium	2.00	2.07		mg/L		104	80 - 120
Beryllium	0.0500	0.0501		mg/L		100	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Calcium	10.0	9.95		mg/L		100	80 - 120
Chromium	0.200	0.207		mg/L		104	80 - 120
Cobalt	0.500	0.518		mg/L		104	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Lithium	0.500	0.514		mg/L		103	80 - 120
Molybdenum	1.00	0.997		mg/L		100	80 - 120
Selenium	0.100	0.0999		mg/L		100	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

**Lab Sample ID: LCS 500-703613/2-A**  
**Matrix: Water**  
**Analysis Batch: 703969**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703613**

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 1Q23

Job ID: 500-230703-1

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

**Lab Sample ID: MB 500-703856/1-A**  
**Matrix: Water**  
**Analysis Batch: 704131**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703856**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		03/23/23 08:44	03/23/23 15:32	1
Arsenic	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:32	1
Barium	<0.0025		0.0025		mg/L		03/23/23 08:44	03/23/23 15:32	1
Beryllium	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:32	1
Cadmium	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:32	1
Calcium	<0.20		0.20		mg/L		03/23/23 08:44	03/23/23 15:32	1
Chromium	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 15:32	1
Cobalt	<0.0010		0.0010		mg/L		03/23/23 08:44	03/23/23 15:32	1
Lead	<0.00050		0.00050		mg/L		03/23/23 08:44	03/23/23 15:32	1
Lithium	<0.010		0.010		mg/L		03/23/23 08:44	03/23/23 15:32	1
Molybdenum	<0.0050		0.0050		mg/L		03/23/23 08:44	03/23/23 15:32	1
Thallium	<0.0020		0.0020		mg/L		03/23/23 08:44	03/23/23 15:32	1

**Lab Sample ID: MB 500-703856/1-A**  
**Matrix: Water**  
**Analysis Batch: 704828**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703856**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		03/23/23 08:44	03/28/23 16:45	1

**Lab Sample ID: MB 500-703856/1-A**  
**Matrix: Water**  
**Analysis Batch: 704817**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703856**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Selenium	<0.0025		0.0025		mg/L		03/23/23 08:44	03/28/23 19:10	1

**Lab Sample ID: LCS 500-703856/2-A**  
**Matrix: Water**  
**Analysis Batch: 704131**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703856**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.500	0.531		mg/L		106	80 - 120
Arsenic	0.100	0.0990		mg/L		99	80 - 120
Barium	2.00	2.06		mg/L		103	80 - 120
Beryllium	0.0500	0.0524		mg/L		105	80 - 120
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Calcium	10.0	9.94		mg/L		99	80 - 120
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.500	0.524		mg/L		105	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Lithium	0.500	0.510		mg/L		102	80 - 120
Molybdenum	1.00	0.989		mg/L		99	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

**Lab Sample ID: LCS 500-703856/2-A**  
**Matrix: Water**  
**Analysis Batch: 704828**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703856**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.965		mg/L		97	80 - 120

**Lab Sample ID: LCS 500-703856/2-A**  
**Matrix: Water**  
**Analysis Batch: 704817**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 703856**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.100	0.103		mg/L		103	80 - 120

**Lab Sample ID: MB 500-704076/1-A**  
**Matrix: Water**  
**Analysis Batch: 704817**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 704076**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/24/23 08:57	03/28/23 18:01	1
Arsenic	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:01	1
Barium	<0.0025		0.0025		mg/L		03/24/23 08:57	03/28/23 18:01	1
Beryllium	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:01	1
Cadmium	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:01	1
Calcium	<0.20		0.20		mg/L		03/24/23 08:57	03/28/23 18:01	1
Chromium	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:01	1
Cobalt	<0.0010		0.0010		mg/L		03/24/23 08:57	03/28/23 18:01	1
Lead	<0.00050		0.00050		mg/L		03/24/23 08:57	03/28/23 18:01	1
Molybdenum	<0.0050		0.0050		mg/L		03/24/23 08:57	03/28/23 18:01	1
Selenium	<0.0025		0.0025		mg/L		03/24/23 08:57	03/28/23 18:01	1
Thallium	<0.0020		0.0020		mg/L		03/24/23 08:57	03/28/23 18:01	1

**Lab Sample ID: MB 500-704076/1-A**  
**Matrix: Water**  
**Analysis Batch: 705004**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 704076**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		03/24/23 08:57	03/29/23 16:05	1
Lithium	<0.010		0.010		mg/L		03/24/23 08:57	03/29/23 16:05	1

**Lab Sample ID: LCS 500-704076/2-A**  
**Matrix: Water**  
**Analysis Batch: 704817**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 704076**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.491		mg/L		98	80 - 120
Arsenic	0.100	0.0981		mg/L		98	80 - 120
Barium	2.00	2.04		mg/L		102	80 - 120
Beryllium	0.0500	0.0447		mg/L		89	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Calcium	10.0	9.58		mg/L		96	80 - 120
Chromium	0.200	0.191		mg/L		95	80 - 120
Cobalt	0.500	0.483		mg/L		97	80 - 120
Lead	0.100	0.0932		mg/L		93	80 - 120

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

Lab Sample ID: LCS 500-704076/2-A  
 Matrix: Water  
 Analysis Batch: 704817

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 704076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1.00	0.903		mg/L		90	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.0881		mg/L		88	80 - 120

Lab Sample ID: LCS 500-704076/2-A  
 Matrix: Water  
 Analysis Batch: 705004

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 704076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.997		mg/L		100	80 - 120
Lithium	0.500	0.503		mg/L		101	80 - 120

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-702887/12-A  
 Matrix: Water  
 Analysis Batch: 703090

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 702887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/23 10:50	03/17/23 09:26	1

Lab Sample ID: LCS 500-702887/13-A  
 Matrix: Water  
 Analysis Batch: 703090

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 702887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00195		mg/L		98	80 - 120

Lab Sample ID: MB 500-703272/12-A  
 Matrix: Water  
 Analysis Batch: 703492

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 703272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/20/23 10:40	03/21/23 08:35	1

Lab Sample ID: LCS 500-703272/13-A  
 Matrix: Water  
 Analysis Batch: 703492

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 703272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00204		mg/L		103	80 - 120

Lab Sample ID: MB 500-703940/12-A  
 Matrix: Water  
 Analysis Batch: 704153

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 703940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/23/23 12:05	03/24/23 07:04	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 500-703940/13-A**  
**Matrix: Water**  
**Analysis Batch: 704153**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 703940**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00196		mg/L		99	80 - 120

**Lab Sample ID: MB 500-704166/12-A**  
**Matrix: Water**  
**Analysis Batch: 704415**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 704166**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/24/23 13:55	03/27/23 07:32	1

**Lab Sample ID: LCS 500-704166/13-A**  
**Matrix: Water**  
**Analysis Batch: 704415**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 704166**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00194		mg/L		98	80 - 120

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

**Lab Sample ID: MB 500-702554/1**  
**Matrix: Water**  
**Analysis Batch: 702554**

**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			03/15/23 02:39	1

**Lab Sample ID: LCS 500-702554/2**  
**Matrix: Water**  
**Analysis Batch: 702554**

**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 500-703184/1**  
**Matrix: Water**  
**Analysis Batch: 703184**

**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			03/20/23 04:42	1

**Lab Sample ID: LCS 500-703184/2**  
**Matrix: Water**  
**Analysis Batch: 703184**

**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

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

**Lab Sample ID: MB 500-703684/1**  
**Matrix: Water**  
**Analysis Batch: 703684**

**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			03/22/23 06:00	1

**Lab Sample ID: LCS 500-703684/2**  
**Matrix: Water**  
**Analysis Batch: 703684**

**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	248		mg/L		99	80 - 120

**Lab Sample ID: 500-230703-3 MS**  
**Matrix: Water**  
**Analysis Batch: 703684**

**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	720		250	990		mg/L		106	75 - 125

**Lab Sample ID: 500-230703-3 DU**  
**Matrix: Water**  
**Analysis Batch: 703684**

**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	720		700		mg/L		3	5

**Lab Sample ID: 500-230703-4 DU**  
**Matrix: Water**  
**Analysis Batch: 703684**

**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	1100		1070		mg/L		2	5

**Lab Sample ID: MB 500-703901/1**  
**Matrix: Water**  
**Analysis Batch: 703901**

**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			03/23/23 05:17	1

**Lab Sample ID: LCS 500-703901/2**  
**Matrix: Water**  
**Analysis Batch: 703901**

**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	238		mg/L		95	80 - 120

**Lab Sample ID: 500-230703-12 MS**  
**Matrix: Water**  
**Analysis Batch: 703901**

**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	1760	4	mg/L		105	75 - 125

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

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

**Lab Sample ID: 500-230703-12 DU**  
**Matrix: Water**  
**Analysis Batch: 703901**

**Client Sample ID: T05S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1500		1450		mg/L		3	5

**Lab Sample ID: 500-230703-13 DU**  
**Matrix: Water**  
**Analysis Batch: 703901**

**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	880		838		mg/L		4	5

**Lab Sample ID: MB 500-704689/1**  
**Matrix: Water**  
**Analysis Batch: 704689**

**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			03/29/23 02:44	1

**Lab Sample ID: LCS 500-704689/2**  
**Matrix: Water**  
**Analysis Batch: 704689**

**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	254		mg/L		102	80 - 120

**Lab Sample ID: 500-230703-16 MS**  
**Matrix: Water**  
**Analysis Batch: 704689**

**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	1000		250	1290	4	mg/L		102	75 - 125

**Lab Sample ID: 500-230703-16 DU**  
**Matrix: Water**  
**Analysis Batch: 704689**

**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	1000		1030		mg/L		0.2	5

**Lab Sample ID: 500-230703-17 DU**  
**Matrix: Water**  
**Analysis Batch: 704689**

**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		1140		mg/L		2	5

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Method: SM 4500 Cl- E - Chloride, Total

**Lab Sample ID: MB 500-702875/16**  
**Matrix: Water**  
**Analysis Batch: 702875**

**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			03/16/23 09:45	1

**Lab Sample ID: LCS 500-702875/17**  
**Matrix: Water**  
**Analysis Batch: 702875**

**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	19.8		mg/L		99	85 - 115

**Lab Sample ID: 500-230703-1 MS**  
**Matrix: Water**  
**Analysis Batch: 702875**

**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	16		20.0	33.3		mg/L		86	75 - 125

**Lab Sample ID: 500-230703-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 702875**

**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	16		20.0	33.2		mg/L		86	75 - 125	0	20

**Lab Sample ID: MB 500-703678/16**  
**Matrix: Water**  
**Analysis Batch: 703678**

**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			03/22/23 10:19	1

**Lab Sample ID: LCS 500-703678/17**  
**Matrix: Water**  
**Analysis Batch: 703678**

**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: MB 500-704133/16**  
**Matrix: Water**  
**Analysis Batch: 704133**

**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			03/24/23 10:39	1

**Lab Sample ID: MB 500-704133/44**  
**Matrix: Water**  
**Analysis Batch: 704133**

**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			03/24/23 10:45	1

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: LCS 500-704133/17  
 Matrix: Water  
 Analysis Batch: 704133

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: LCS 500-704133/45  
 Matrix: Water  
 Analysis Batch: 704133

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	19.6		mg/L		98	85 - 115

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-702719/31  
 Matrix: Water  
 Analysis Batch: 702719

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			03/15/23 10:44	1

Lab Sample ID: LCS 500-702719/32  
 Matrix: Water  
 Analysis Batch: 702719

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	10.0		mg/L		100	90 - 119

Lab Sample ID: MB 500-703509/3  
 Matrix: Water  
 Analysis Batch: 703509

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			03/21/23 10:54	1

Lab Sample ID: LCS 500-703509/4  
 Matrix: Water  
 Analysis Batch: 703509

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: 500-230703-2 MS  
 Matrix: Water  
 Analysis Batch: 703509

Client Sample ID: G33S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.56		5.00	5.58		mg/L		100	75 - 125

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Method: SM 4500 F C - Fluoride (Continued)

**Lab Sample ID: 500-230703-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 703509**

**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
Fluoride	0.56		5.00	5.60		mg/L		101	75 - 125	0	20

**Lab Sample ID: MB 500-703726/3**  
**Matrix: Water**  
**Analysis Batch: 703726**

**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			03/22/23 09:58	1

**Lab Sample ID: LCS 500-703726/4**  
**Matrix: Water**  
**Analysis Batch: 703726**

**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: 500-230703-11 MS**  
**Matrix: Water**  
**Analysis Batch: 703726**

**Client Sample ID: T06S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.44		5.00	5.68		mg/L		105	75 - 125

**Lab Sample ID: 500-230703-11 MSD**  
**Matrix: Water**  
**Analysis Batch: 703726**

**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
Fluoride	0.44		5.00	5.46		mg/L		100	75 - 125	4	20

**Lab Sample ID: MB 500-704163/3**  
**Matrix: Water**  
**Analysis Batch: 704163**

**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			03/24/23 13:50	1

**Lab Sample ID: LCS 500-704163/4**  
**Matrix: Water**  
**Analysis Batch: 704163**

**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: 500-230703-12 MS**  
**Matrix: Water**  
**Analysis Batch: 704163**

**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	1.6		5.00	6.67		mg/L		102	75 - 125

Eurofins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Method: SM 4500 F C - Fluoride

Lab Sample ID: 500-230703-12 MSD  
 Matrix: Water  
 Analysis Batch: 704163

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	1.6		5.00	6.65		mg/L		102	75 - 125	0	20

## Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-703068/16  
 Matrix: Water  
 Analysis Batch: 703068

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			03/17/23 09:50	1

Lab Sample ID: LCS 500-703068/17  
 Matrix: Water  
 Analysis Batch: 703068

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: 500-230703-1 MS  
 Matrix: Water  
 Analysis Batch: 703068

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	64		20.0	83.2		mg/L		97	75 - 125

Lab Sample ID: 500-230703-1 MSD  
 Matrix: Water  
 Analysis Batch: 703068

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	64		20.0	82.9		mg/L		95	75 - 125	0	20

Lab Sample ID: MB 500-703694/16  
 Matrix: Water  
 Analysis Batch: 703694

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			03/22/23 11:41	1

Lab Sample ID: LCS 500-703694/17  
 Matrix: Water  
 Analysis Batch: 703694

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	21.5		mg/L		108	88 - 123



# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Method: SM 4500 SO4 E - Sulfate, Total (Continued)

**Lab Sample ID: MB 500-704148/16**  
**Matrix: Water**  
**Analysis Batch: 704148**

**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			03/24/23 12:03	1

**Lab Sample ID: LCS 500-704148/17**  
**Matrix: Water**  
**Analysis Batch: 704148**

**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	20.2		mg/L		101	88 - 123

**Lab Sample ID: 500-230703-12 MS**  
**Matrix: Water**  
**Analysis Batch: 704148**

**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	570	F1	20.0	552	4	mg/L		-67	75 - 125

**Lab Sample ID: 500-230703-12 MSD**  
**Matrix: Water**  
**Analysis Batch: 704148**

**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	570	F1	20.0	557	4	mg/L		-39	75 - 125	1	20



# Chain of Custody Record

# 522979

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 DME LLC</i>	Tel/Email:			Lab Contact			Carrier		____ of ____ COCs	
Address			Analysis Turnaround Time							Sampler:
City/State/Zip <i>Joliet, IL</i>			<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS							<b>For Lab Use Only</b>
Phone			TAT if different from Below _____							Walk-in Client
Fax			<input type="checkbox"/> 2 weeks							Lab Sampling
Project Name <i>Joliet #9 CCR</i>			<input type="checkbox"/> 1 week							Job / SDG No
Site <i>1023 + Turbidity</i>			<input type="checkbox"/> 2 days						<i>500-230703</i>	
P O #			<input type="checkbox"/> 1 day							
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>G335</i>		<i>03/15/23</i>	<i>0935</i>		<i>W</i>	<i>5</i>		<i>Radium 226</i>		
<i>G440</i>		<i>03/15/23</i>	<i>1050</i>		<i>W</i>	<i>5</i>		<i>Radium 228</i>		
<i>G310</i>		<i>03/15/23</i>	<i>1257</i>		<i>W</i>	<i>5</i>		<i>Combined 226/228</i>		
								<i>Metals 14 elements + Hg</i>		
								<i>TDS, F, Cl, SO4</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					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:										
<i>5.2 + 5.1</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>EETB</i>		Date/Time <i>03/15/23 1400</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 Hernandez</i>		Company <i>EETB</i> Date/Time <i>3/15/23 1400</i>	



Chain of Custody Record

522980



Environment Testing  
TestAmerica

Address \_\_\_\_\_

500 230703 COC

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>		<i>Diana Mackler</i>	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 + Ag</i> <i>TPS, FI, CI, SO4</i>		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____				<b>For Lab Use Only</b> 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 CCR</i>						500-230703	
Site <i>1023 + Turbidity</i>							
PO # _____						Sample Specific Notes	
Sample Identification			Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
5 <i>G30S</i>			<i>03/17/23</i>	<i>0926</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 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>2.6</i> → <i>2.5</i> 48at		Therm ID No _____	
Relinquished by _____		Company <i>EETA</i>		Date/Time <i>03/17/23 01200</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 Hamandyn</i> Company <i>EETA</i> Date/Time <i>3/17/23 1200</i>	



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, Fl, Cl, SO4</i>		 500 230703 COC		Sampler:	
City/State/Zip <i>Soliet, FL</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	
Fax								Lab Sampling	
Project Name <i>Soliet #9 CCR</i>								Job / SDG No	
Site <i>1023 + Turbidity</i>				<i>500-230703</i>					
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>TO25</i>		<i>03/20/23</i>	<i>0932</i>		<i>W</i>	<i>5</i>			
<i>TO85</i>		<i>03/20/23</i>	<i>1120</i>		<i>W</i>	<i>5</i>			
<i>TO35</i>		<i>03/20/23</i>	<i>1347</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>3.6</i> Corr'd <i>3.5</i>		Therm ID No			
Relinquished by <i>[Signature]</i>		Company <i>EETP</i>		Date/Time <i>03/20/23 @ 1512</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>EETP</i>	
								Date/Time <i>3/20/23 1512</i>	

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# Chain of Custody Record

522977




Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager <i>Diana Mackler</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, Fl, Cl, SO4</i>		 500 230703 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	
Fax								Lab Sampling	
Project Name <i>Joliet #9 CCR</i>								Job / SDG No	
Site <i>1Q23 + Turbidity</i>									
P O #									
								500-230703	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>9</i> <i>10</i> <i>11</i> T010		<i>03/21/23</i>	<i>0952</i>		<i>W</i>	<i>5</i>			
T095		<i>03/21/23</i>	<i>1158</i>		<i>W</i>	<i>5</i>			
T065		<i>03/21/23</i>	<i>1345</i>		<i>W</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"/> 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>4.5 + 4.4</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>03/21/23 @ 1545</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>PERM</i> Date/Time: <i>3/21/23 1545</i>	

# Chain of Custody Record

522976




Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager: <i>Diana Mackler</i>		Site Contact:		Date:		COC No	
Company Name <i>Midwest Generation ENE 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>		 500-230703 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>1Q23 + Turbidity</i>								Job / SDG No	
P O #						500-230703 Sample Specific Notes			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.			
<i>T05J</i>		<i>03/24/23</i>	<i>0927</i>		<i>W</i>	<i>5</i>			
<i>R08S</i>		<i>03/24/23</i>	<i>1225</i>		<i>W</i>	<i>5</i>			
<i>DUP of R08S</i>		<i>03/24/23</i>	<i>1225</i>		<i>W</i>	<i>5</i>			
<i>G46J</i>		<i>03/24/23</i>	<i>1330</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>4.2</i>		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>03/24/23 e 1445</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>3/22/23</i> <i>[Signature]</i>	

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# Chain of Custody Record

522981




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 ENE LLC</i>		Tel/Email:		Lab Contact:		Carrier		_____ of _____ COCs	
Address		<b>Analysis Turnaround Time</b>							
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, FI, Cl, SO4</i>		 500-230703 COC		Sampler: For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>			
Site <i>1Q23 + Turbidity</i>						Job / SDG No			
P O #						<i>500-230703</i>			
						Sample Specific Notes			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.			
<i>G48 S</i>		<i>03/23/23</i>	<i>1013</i>		<i>W</i>	<i>5</i>			
<i>G47 S</i>		<i>03/23/23</i>	<i>1122</i>		<i>W</i>	<i>5</i>			
<i>G45 S</i>		<i>03/23/23</i>	<i>1216</i>		<i>W</i>	<i>5</i>			
<i>R32 S</i>		<i>03/23/23</i>	<i>1334</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>34</i> Corr'd <i>33</i>		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>03/23/23 1443</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>3/23/23 1443</i>	

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# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: <b>Lab PM: Mockler, Diana J</b>		COC No: <b>500-171959.1</b>	
Client Contact: <b>Shipping/Receiving</b>		Phone: <b>E-Mail: Diana.Mockler@et.eurofins.com</b>		Page: <b>Page 1 of 1</b>	
Company: <b>TestAmerica Laboratories, Inc.</b>		Accreditations Required (See note): <b>NELAP - Illinois</b>		Job #: <b>500-230703-2</b>	
Address: <b>13715 Rider Trail North,</b>		Due Date Requested: <b>4/11/2023</b>		State of Origin: <b>Illinois</b>	
City: <b>Earth City</b>		TAT Requested (days):		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:	
State, Zip: <b>MO, 63045</b>		PO #:		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)	
Phone: <b>314-298-8566(Tel) 314-298-8757(Fax)</b>		WO #:		Total Number of Containers	
Email:		Project #: <b>50011504</b>		Analysis Requested	
Site: <b>NRG Midwest Generation LSQ Joliet #9 CCR</b>		SSOW#:		Perform MS/MSD (Yes or No)	
Sample Identification - Client ID (Lab ID)		Sample Date		Field Filtered Sample (Yes or No)	
G30S (500-230703-5)		3/17/23		903.0/PreSep_21 Standard Target List	
Sample Time		09:26 Central		904.0/PreSep_0 Standard Target List	
Sample Type (C=comp, G=grab)		09:26 Central		Ra226R228_GFPc	
Matrix (W=water, S=solid, O=wast/woil, B=issue, A=air)		Water		X	
Preservation Code:		Water		X	
Special Instructions/Note:		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume:		3	

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**

Special Instructions/QC Requirements:  Return To Client  Disposal By Lab  Archive For **Months**

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Empty Kit Relinquished by: **Alvin Smith** Date: **3/20/23** Time: **08:00**

Relinquished by: **Alvin Smith** Date: **3/20/23** Time: **08:00** Company: **ETASRC**

Relinquished by: **Alvin Smith** Date: **3/21/23** Time: **09:30** Company: **ETASRC**

Custody Seals Intact: **FEDEX** Custody Seal No.: **3/21/23 0930**

Cooler Temperature(s) °C and Other Remarks:





<b>Client Information (Sub Contract Lab)</b>		Sampler: Mockler, Diana J		Lab PM: Mockler, Diana J		COC No: 500-172048.1				
Company: TestAmerica Laboratories, Inc.		Phone: Diana Mockler@st.eurofinsus.com		E-Mail: Diana Mockler@st.eurofinsus.com		Page: Page 1 of 1				
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 4/4/2023		State of Origin: Illinois		Job #: 500-230703-1				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):		Accreditations Required (See note): NELAP - Illinois		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:				
Project Name: Joliet #9 (Quarry) CCR		Project #: 50011504		Matrix (W=Water, S=solid, O=Organic, B=Issue, A=Air)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2S2O3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)				
Site: NRG Midwest Generation LSQ Joliet #9 CCR		SSOW#:		Sample Type (C=Comp, G=grab)		Other:				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
T05S (500-230703-12)	3/22/23	09:27 Central	Water	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
R08S (500-230703-13)	3/22/23	12:25 Central	Water	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
DUP of R08S (500-230703-14)	3/22/23	12:25 Central	Water	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
G46S (500-230703-15)	3/22/23	13:30 Central	Water	X	X	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 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  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: *[Signature]* Date/Time: 3/22/23 15:20 Company: *[Signature]*  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 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: Midwest Generation EME LLC

Job Number: 500-230703-1

**Login Number: 230703**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	2.9,5.1,2.5,3.5,4.4,4.2,3.3
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 1Q23

Job ID: 500-230703-1

**Client Sample ID: G20S**

**Date Collected: 03/14/23 11:28**

**Date Received: 03/14/23 15:52**

**Lab Sample ID: 500-230703-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703072	FXG	EET CHI	03/16/23 18:20
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703655	FXG	EET CHI	03/17/23 16:57
Total/NA	Prep	7470A			702887	MJG	EET CHI	03/16/23 10:50 - 03/16/23 12:50 <sup>1</sup>
Total/NA	Analysis	7470A		1	703090	MJG	EET CHI	03/17/23 09:39
Total/NA	Analysis	SM 2540C		1	702554	CLB	EET CHI	03/15/23 03:07
Total/NA	Analysis	SM 4500 CI- E		1	702875	LP	EET CHI	03/16/23 09:46
Total/NA	Analysis	SM 4500 F C		1	702719	EH	EET CHI	03/15/23 10:44
Total/NA	Analysis	SM 4500 SO4 E		5	703068	LP	EET CHI	03/17/23 09:51
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/14/23 11:28

**Client Sample ID: G33S**

**Date Collected: 03/15/23 09:35**

**Date Received: 03/15/23 14:00**

**Lab Sample ID: 500-230703-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703072	FXG	EET CHI	03/16/23 18:23
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703655	FXG	EET CHI	03/17/23 17:00
Total/NA	Prep	7470A			702887	MJG	EET CHI	03/16/23 10:50 - 03/16/23 12:50 <sup>1</sup>
Total/NA	Analysis	7470A		1	703090	MJG	EET CHI	03/17/23 09:41
Total/NA	Analysis	SM 2540C		1	703184	CLB	EET CHI	03/20/23 05:41
Total/NA	Analysis	SM 4500 CI- E		1	702875	LP	EET CHI	03/16/23 09:50
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		5	703068	LP	EET CHI	03/17/23 09:52
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/15/23 09:35

**Client Sample ID: G44S**

**Date Collected: 03/15/23 10:50**

**Date Received: 03/15/23 14:00**

**Lab Sample ID: 500-230703-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703072	FXG	EET CHI	03/16/23 18:27
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703655	FXG	EET CHI	03/17/23 17:04
Total/NA	Prep	7470A			702887	MJG	EET CHI	03/16/23 10:50 - 03/16/23 12:50 <sup>1</sup>
Total/NA	Analysis	7470A		1	703090	MJG	EET CHI	03/17/23 09:43
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:05
Total/NA	Analysis	SM 4500 CI- E		5	702875	LP	EET CHI	03/16/23 09:51
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Client Sample ID: G44S

Date Collected: 03/15/23 10:50

Date Received: 03/15/23 14:00

## Lab Sample ID: 500-230703-3

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		10	703068	LP	EET CHI	03/17/23 09:53
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/15/23 10:50

## Client Sample ID: G31S

Date Collected: 03/15/23 12:57

Date Received: 03/15/23 14:00

## Lab Sample ID: 500-230703-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703655	FXG	EET CHI	03/17/23 17:07
Total Recoverable	Prep	3005A			702832	BDE	EET CHI	03/16/23 08:33 - 03/16/23 09:03 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	703766	FXG	EET CHI	03/22/23 12:25
Total/NA	Prep	7470A			702887	MJG	EET CHI	03/16/23 10:50 - 03/16/23 12:50 <sup>1</sup>
Total/NA	Analysis	7470A		1	703090	MJG	EET CHI	03/17/23 09:45
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:12
Total/NA	Analysis	SM 4500 CI- E		10	702875	LP	EET CHI	03/16/23 09:51
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		50	703068	LP	EET CHI	03/17/23 09:53
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/15/23 12:57

## Client Sample ID: G30S

Date Collected: 03/17/23 09:26

Date Received: 03/17/23 12:00

## Lab Sample ID: 500-230703-5

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703199	BDE	EET CHI	03/20/23 08:05 - 03/20/23 08:35 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 20:22
Total Recoverable	Prep	3005A			703199	BDE	EET CHI	03/20/23 08:05 - 03/20/23 08:35 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	703969	FXG	EET CHI	03/23/23 13:29
Total/NA	Prep	7470A			703272	MJG	EET CHI	03/20/23 10:40 - 03/20/23 12:40 <sup>1</sup>
Total/NA	Analysis	7470A		1	703492	MJG	EET CHI	03/21/23 08:45
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:18
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:20
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		50	703694	LP	EET CHI	03/22/23 11:55
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/17/23 09:26

## Client Sample ID: T02S

Date Collected: 03/20/23 09:32

Date Received: 03/20/23 15:12

## Lab Sample ID: 500-230703-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:20

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Client Sample ID: T02S

Date Collected: 03/20/23 09:32

Date Received: 03/20/23 15:12

## Lab Sample ID: 500-230703-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	703969	FXG	EET CHI	03/23/23 13:46
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 07:57
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:20
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:20
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		20	703694	LP	EET CHI	03/22/23 11:43
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/20/23 09:32

## Client Sample ID: T08S

Date Collected: 03/20/23 11:20

Date Received: 03/20/23 15:12

## Lab Sample ID: 500-230703-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:23
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	703969	FXG	EET CHI	03/23/23 13:50
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 07:59
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:23
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:21
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		50	703694	LP	EET CHI	03/22/23 11:43
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/20/23 11:20

## Client Sample ID: T03S

Date Collected: 03/20/23 13:47

Date Received: 03/20/23 15:12

## Lab Sample ID: 500-230703-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:33
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	703969	FXG	EET CHI	03/23/23 13:53
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:12
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:25
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:22
Total/NA	Analysis	SM 4500 F C		1	703509	EH	EET CHI	03/21/23 10:54
Total/NA	Analysis	SM 4500 SO4 E		20	703694	LP	EET CHI	03/22/23 11:43
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/20/23 13:47

# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Client Sample ID: T01S

Date Collected: 03/21/23 09:52

Date Received: 03/21/23 15:45

## Lab Sample ID: 500-230703-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:37
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	703969	FXG	EET CHI	03/23/23 13:57
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:14
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:28
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:22
Total/NA	Analysis	SM 4500 F C		1	703726	EH	EET CHI	03/22/23 09:58
Total/NA	Analysis	SM 4500 SO4 E		20	703694	LP	EET CHI	03/22/23 11:45
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/21/23 09:52

## Client Sample ID: T09S

Date Collected: 03/21/23 11:58

Date Received: 03/21/23 15:45

## Lab Sample ID: 500-230703-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:40
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	703969	FXG	EET CHI	03/23/23 14:00
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:16
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:31
Total/NA	Analysis	SM 4500 CI- E		10	703678	LP	EET CHI	03/22/23 10:22
Total/NA	Analysis	SM 4500 F C		1	703726	EH	EET CHI	03/22/23 09:58
Total/NA	Analysis	SM 4500 SO4 E		50	703694	LP	EET CHI	03/22/23 11:45
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/21/23 11:58

## Client Sample ID: T06S

Date Collected: 03/21/23 13:45

Date Received: 03/21/23 15:45

## Lab Sample ID: 500-230703-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	703899	FXG	EET CHI	03/22/23 19:44
Total Recoverable	Prep	3005A			703613	BDE	EET CHI	03/22/23 08:37 - 03/22/23 09:07 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	703969	FXG	EET CHI	03/23/23 14:04
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:18
Total/NA	Analysis	SM 2540C		1	703684	CLB	EET CHI	03/22/23 06:33
Total/NA	Analysis	SM 4500 CI- E		1	703678	LP	EET CHI	03/22/23 10:22
Total/NA	Analysis	SM 4500 F C		1	703726	EH	EET CHI	03/22/23 09:58

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Client Sample ID: T06S

Date Collected: 03/21/23 13:45

Date Received: 03/21/23 15:45

## Lab Sample ID: 500-230703-11

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		10	703694	LP	EET CHI	03/22/23 11:45
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/21/23 13:45

## Client Sample ID: T05S

Date Collected: 03/22/23 09:27

Date Received: 03/22/23 14:45

## Lab Sample ID: 500-230703-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704131	FXG	EET CHI	03/23/23 15:53
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		50	704828	FXG	EET CHI	03/28/23 17:29
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 19:51
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:20
Total/NA	Analysis	SM 2540C		1	703901	CLB	EET CHI	03/23/23 05:22
Total/NA	Analysis	SM 4500 CI- E		10	704133	LP	EET CHI	03/24/23 10:59
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		50	704148	LP	EET CHI	03/24/23 12:27
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/22/23 09:27

## Client Sample ID: R08S

Date Collected: 03/22/23 12:25

Date Received: 03/22/23 14:45

## Lab Sample ID: 500-230703-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704131	FXG	EET CHI	03/23/23 15:57
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	704828	FXG	EET CHI	03/28/23 17:33
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 19:54
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:22
Total/NA	Analysis	SM 2540C		1	703901	CLB	EET CHI	03/23/23 05:29
Total/NA	Analysis	SM 4500 CI- E		5	704133	LP	EET CHI	03/24/23 10:40
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		10	704148	LP	EET CHI	03/24/23 12:05
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/22/23 12:25



# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

## Client Sample ID: R08S Dup

Date Collected: 03/22/23 12:25

Date Received: 03/22/23 14:45

## Lab Sample ID: 500-230703-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704131	FXG	EET CHI	03/23/23 16:00
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	704828	FXG	EET CHI	03/28/23 17:37
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 19:58
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:24
Total/NA	Analysis	SM 2540C		1	703901	CLB	EET CHI	03/23/23 05:35
Total/NA	Analysis	SM 4500 CI- E		5	704133	LP	EET CHI	03/24/23 10:40
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		10	704148	LP	EET CHI	03/24/23 12:05
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/22/23 12:25

## Client Sample ID: G46S

Date Collected: 03/22/23 13:30

Date Received: 03/22/23 14:45

## Lab Sample ID: 500-230703-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704131	FXG	EET CHI	03/23/23 16:04
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		50	704828	FXG	EET CHI	03/28/23 17:41
Total Recoverable	Prep	3005A			703856	BDE	EET CHI	03/23/23 08:44 - 03/23/23 09:14 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 20:01
Total/NA	Prep	7470A			703940	MJG	EET CHI	03/23/23 12:05 - 03/23/23 14:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	704153	MJG	EET CHI	03/24/23 08:26
Total/NA	Analysis	SM 2540C		1	703901	CLB	EET CHI	03/23/23 05:37
Total/NA	Analysis	SM 4500 CI- E		10	704133	LP	EET CHI	03/24/23 10:40
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		50	704148	LP	EET CHI	03/24/23 12:05
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/22/23 13:30

## Client Sample ID: G48S

Date Collected: 03/23/23 10:13

Date Received: 03/23/23 14:43

## Lab Sample ID: 500-230703-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	705004	FXG	EET CHI	03/29/23 16:13
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	705004	FXG	EET CHI	03/29/23 16:41
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 18:07

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: G48S**

**Lab Sample ID: 500-230703-16**

Date Collected: 03/23/23 10:13

Matrix: Water

Date Received: 03/23/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			704166	MJG	EET CHI	03/24/23 13:55 - 03/24/23 15:55 <sup>1</sup>
Total/NA	Analysis	7470A		1	704415	MJG	EET CHI	03/27/23 08:09
Total/NA	Analysis	SM 2540C		1	704689	CLB	EET CHI	03/29/23 03:12
Total/NA	Analysis	SM 4500 CI- E		10	704133	LP	EET CHI	03/24/23 10:41
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		50	704148	LP	EET CHI	03/24/23 12:05
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/23/23 10:13

**Client Sample ID: G47S**

**Lab Sample ID: 500-230703-17**

Date Collected: 03/23/23 11:22

Matrix: Water

Date Received: 03/23/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	705004	FXG	EET CHI	03/29/23 16:17
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	705004	FXG	EET CHI	03/29/23 16:45
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 18:11
Total/NA	Prep	7470A			704166	MJG	EET CHI	03/24/23 13:55 - 03/24/23 15:55 <sup>1</sup>
Total/NA	Analysis	7470A		1	704415	MJG	EET CHI	03/27/23 08:12
Total/NA	Analysis	SM 2540C		1	704689	CLB	EET CHI	03/29/23 03:20
Total/NA	Analysis	SM 4500 CI- E		10	704133	LP	EET CHI	03/24/23 10:41
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		50	704148	LP	EET CHI	03/24/23 12:06
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/23/23 11:22

**Client Sample ID: G45S**

**Lab Sample ID: 500-230703-18**

Date Collected: 03/23/23 12:16

Matrix: Water

Date Received: 03/23/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	705004	FXG	EET CHI	03/29/23 16:21
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 18:14
Total/NA	Prep	7470A			704166	MJG	EET CHI	03/24/23 13:55 - 03/24/23 15:55 <sup>1</sup>
Total/NA	Analysis	7470A		1	704415	MJG	EET CHI	03/27/23 08:14
Total/NA	Analysis	SM 2540C		1	704689	CLB	EET CHI	03/29/23 03:25
Total/NA	Analysis	SM 4500 CI- E		10	704133	LP	EET CHI	03/24/23 10:42
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		10	704148	LP	EET CHI	03/24/23 12:28
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/23/23 12:16

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 1Q23

Job ID: 500-230703-1

**Client Sample ID: R32S**

**Lab Sample ID: 500-230703-19**

**Date Collected: 03/23/23 13:34**

**Matrix: Water**

**Date Received: 03/23/23 14:43**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	705004	FXG	EET CHI	03/29/23 16:25
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	705004	FXG	EET CHI	03/29/23 16:49
Total Recoverable	Prep	3005A			704076	BDE	EET CHI	03/24/23 08:57 - 03/24/23 09:27 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	704817	FXG	EET CHI	03/28/23 18:18
Total/NA	Prep	7470A			704166	MJG	EET CHI	03/24/23 13:55 - 03/24/23 15:55 <sup>1</sup>
Total/NA	Analysis	7470A		1	704415	MJG	EET CHI	03/27/23 08:16
Total/NA	Analysis	SM 2540C		1	704689	CLB	EET CHI	03/29/23 03:27
Total/NA	Analysis	SM 4500 CI- E		5	704133	LP	EET CHI	03/24/23 10:42
Total/NA	Analysis	SM 4500 F C		1	704163	EH	EET CHI	03/24/23 13:50
Total/NA	Analysis	SM 4500 SO4 E		50	704148	LP	EET CHI	03/24/23 12:28
Total/NA	Analysis	Field Sampling		1	702599	JVB	EET CHI	03/23/23 13:34

<sup>1</sup> 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: G20S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-230703-1

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: 03/14/23 Start Purge: 1110 End Purge: 1128  
(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 7.52 7.53 7.53 (std.)  
Ref. Measuring Pt. TIC SC 650 659 659 (umhos/cm)  
Well Elevation \*580.87 (ft./msl) Temp. 9.79 9.82 9.82 (°C)  
Water Level 55.27 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 525.60 (ft./msl)  
Well Bottom Elevation \*442.28 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor  
Weather Conditions: 31°F, Sunny, NW winds e 5-10 mph  
Turbidity: 0.39 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 55.27 - 2.78 = 52.49 (ft.)  
Levels were taken on 03/14/23 @ 1105

(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: G33S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-230703-2

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: 03/15/23 Start Purge: 0920 End Purge: 0935  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.39

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 1.73 (ft) pH 7.40 7.42 7.42 (std.)  
Ref. Measuring Pt. TIC SC 639 639 639 (umhos/cm)  
Well Elevation \*535.67 (ft./msl) Temp. 11.02 11.12 11.12 (°C)  
Water Level 30.06 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 505.61 (ft./msl)  
Well Bottom Elevation \*452.72 (ft./msl)

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**COMMENTS**

Sample Appearance/Odor: Gray, Slight Turbidity, No Odor  
Weather Conditions: 35°F, Sunny, S winds @ 5-10 mph  
Turbidity: 7.68 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 30.06 - 1.73 = 28.33 (ft)  
Levels were taken on 03/15/23 @ 0915

(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 #: 500-230703-3

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: 03/15/23 Start Purge: 1033 End Purge: 1050  
(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 7.09 7.10 7.10 (std.)  
Ref. Measuring Pt. TIC SC 1065 1053 1053 (umhos/cm)  
Well Elevation \*586.68 (ft./msl) Temp. 11.00 10.99 10.99 (°C)  
Water Level 78.52 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 508.16 (ft./msl)  
Well Bottom Elevation \*455.11 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 41°F, Sunny, S winds 10-15 mph  
Turbidity: 1.13 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 78.52 - 2.18 = 76.34 (ft)  
Levels were taken on 03/15/23 @ 1028

(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  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-230703-4

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: 03/15/23 Start Purge: 1237 End Purge: 1257  
(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>7.38</u>	<u>7.39</u>	<u>7.39</u> (std.)										
Ref. Measuring Pt.	<u>TIC</u>		SC	<u>1490</u>	<u>1492</u>	<u>1492</u> (umhos/cm)										
Well Elevation	<u>*535.73</u>	(ft./msl)	Temp.	<u>12.88</u>	<u>12.88</u>	<u>12.88</u> (°C)										
Water Level	<u>25.71</u>	(ft.)	Well Stabilization / Recharge Grid													
Ground Water Elev.	<u>510.02</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>*453.36</u>	(ft./msl)														

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor  
Weather Conditions: 48°F, Sunny, S winds @ 10-15 mph  
Turbidity: 0.79 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 25.71 - 2.58 = 23.13 (ft)  
Levels were taken on 03/15/23 @ 1232

(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: G30S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-20703-5

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: 03/17/23 Start Purge: 0908 End Purge: 0926  
(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 7.83 7.82 7.82 (std.)  
Ref. Measuring Pt. TIC SC 1760 1760 1760 (umhos/cm)  
Well Elevation \*524.86 (ft./msl) Temp. 6.16 6.22 6.22 (°C)  
Water Level 2.09 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 522.77 (ft./msl)  
Well Bottom Elevation \*462.58 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 32°F, Cloudy, W winds @ 15-20 mph  
Turbidity: 2.43 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 2.09 - 2.31 = -0.22 (ft.)  
Levels were taken on 03/17/23 @ 0903

(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: T02S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-230703-16

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: 03/20/23 Start Purge: 0913 End Purge: 0932  
(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 7.69 7.66 7.66 (std.)  
Ref. Measuring Pt. TIC SC 1312 1317 1317 (umhos/cm)  
Well Elevation \* 626.12 (ft./msl) Temp. 7.47 7.46 7.46 (°C)  
Water Level 136.49 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 489.63 (ft./msl)  
Well Bottom Elevation \* 453.40 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 36°F, Fair, SW winds e 5-10 mph  
Turbidity: 27.25 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 136.49 - 2.33 = 134.16 (ft)  
Levels were taken on 03/20/23 @ 0905.  
\* 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 #: 500-230703-7

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: 03/20/23 Start Purge: 1058 End Purge: 1120  
(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 2.38 (ft) pH 8.20 8.22 8.22 (std.)  
Ref. Measuring Pt. TIC SC 1442 1439 1439 (umhos/cm)  
Well Elevation \* 627.55 (ft./msl) Temp. 11.36 11.35 11.35 (°C)  
Water Level 131.74 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 495.81 (ft./msl)  
Well Bottom Elevation \* 447.38 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Slight Turbidity, Strong Odor  
Weather Conditions: 41°F, Sunny, SW winds @ 15-20 mph  
Turbidity: 4.00 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 131.74 - 2.38 = 129.36 ft  
Levels were taken on 03/20/23 @ 1040  
\* 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: T03S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-230703-8

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: 03/20/23 Start Purge: 1326 End Purge: 1347  
(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 3.08 (ft) pH 7.24 7.22 7.22 (std.)  
Ref. Measuring Pt. TIC SC 1208 1219 1219 (umhos/cm)  
Well Elevation \* 629.85 (ft./msl) Temp. 11.62 11.50 11.50 (°C)  
Water Level 140.25 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 489.60 (ft./msl)  
Well Bottom Elevation \* 456.70 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Slight Turbidity, No Odor  
Weather Conditions: 51°F, Sunny/Wind, S winds @ 20-25 mph  
Turbidity: 1.19 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 140.25 - 3.08 = 137.17 (ft)  
Levels were taken on 03/20/23 @ 1320  
\* Total Depth = 172.95

(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 #: 500-230703-9

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: 03/21/23 Start Purge: 0930 End Purge: 0952  
(2400 Hr. Clock)  
 Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.28

**MEASUREMENTS**

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final											
Stick Up <u>2.48</u> (ft)	pH <u>8.01</u>	<u>8.04</u>	<u>8.04</u>	(std.)										
Ref. Measuring Pt. <u>TIC</u>	SC <u>1,325</u>	<u>1,318</u>	<u>1,318</u>	(umhos/cm)										
Well Elevation * <u>621.84</u> (ft./msl)	Temp. <u>9.49</u>	<u>9.45</u>	<u>9.45</u>	(°C)										
Water Level <u>124.71</u> (ft.)	Well Stabilization / Recharge Grid													
Ground Water Elev. <u>497.13</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>451.46</u> (ft./msl)														

**COMMENTS**

Sample Appearance/Odor: Tan, <sup>High</sup> Moderate Turbidity, Slight Odor

Weather Conditions: 44°F, Sunny, S winds @ 10-15 mph

Turbidity: 1374 AU

Other: \*Reference Measurement

Depth To Water from L.S. = 124.71 - 2.48 = 122.23 (ft.)

Levels were taken on 03/21/23 @ 0910

\* Total Depth = 170.00

(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: T09S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-230703-10

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: 03/21/23 Start Purge: 1140 End Purge: 1158  
(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 7.80 7.76 7.76 (std.)  
Ref. Measuring Pt. TIC SC 1418 1417 1417 (umhos/cm)  
Well Elevation \* 603.48 (ft./msl) Temp. 11.53 11.51 11.51 (°C)  
Water Level 107.75 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 495.73 (ft./msl)  
Well Bottom Elevation \* 444.80 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 52°F, Sunny, S winds @ 5-10 mph  
Turbidity: 17.35 NTU  
Other: \*Reference Measurement (updated 02/19/14)  
Depth To Water from L.S. = 107.75 - 2.40 = 105.35 (ft)  
Levels were taken on 03/21/23 @ 1125  
\* 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 #: 500-230703-11

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: 03/21/23 Start Purge: 1330 End Purge: 1345  
(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>7.60</u>	<u>7.63</u>	<u>7.63</u>	(std.)										
Ref. Measuring Pt.	<u>TIC</u>		SC <u>707</u>	<u>701</u>	<u>701</u>	(umhos/cm)										
Well Elevation *	<u>621.05</u>	(ft./msl)	Temp. <u>18.35</u>	<u>18.39</u>	<u>18.39</u>	(°C)										
Water Level	<u>118.05</u>	(ft.)	Well Stabilization / Recharge Grid													
Ground Water Elev.	<u>503.00</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>447.94</u>	(ft./msl)														

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
 Weather Conditions: 55°F, Mostly Cloudy, S winds @ 10-15 mph  
 Turbidity: 3.17 NTU  
 Other: \*Reference Measurement  
 Depth To Water from L.S. = 118.05 - 2.30 = 115.75 (ft)  
 Levels were taken on 03/21/23 @ 1315.  
 \* 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 #: 500-230703-12

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: 03/22/23 Start Purge: 0905 End Purge: 0927  
(2400 Hr. Clock)

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

**MEASUREMENTS**

Well Diameter	<u>2.0</u>	(inches)	1st	2nd	Final																			
Stick Up	<u>2.40</u>	(ft)	pH <u>9.69</u>	<u>9.70</u>	<u>9.70</u>	(std.)																		
Ref. Measuring Pt.	<u>TIC</u>		SC <u>2110</u>	<u>2100</u>	<u>2100</u>	(umhos/cm)																		
Well Elevation *	<u>623.50</u>	(ft./msl)	Temp. <u>8.07</u>	<u>8.09</u>	<u>8.09</u>	(°C)																		
Water Level	<u>126.26</u>	(ft.)	Well Stabilization / Recharge Grid																					
Ground Water Elev.	<u>497.24</u>	(ft./msl)	<table border="1" style="width: 100%; height: 30px;"> <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>448.35</u>	(ft./msl)																						

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 43°F, Cloudy, S winds @ 5-10 mph  
Turbidity: 2.15 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 126.26 - 2.40 = 123.86 (ft.)  
Levels were taken on 03/22/23 @ 0850  
\* 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: R08S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-230703-13

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: 03/22/23 Start Purge: 1210 End Purge: 1225  
(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 8.40 8.39 8.39 (std.)  
Ref. Measuring Pt. TIC SC 1,006 998 998 (umhos/cm)  
Well Elevation \*578.66 (ft./msl) Temp. 12.03 12.02 12.02 (°C)  
Water Level 70.08 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 508.58 (ft./msl)  
Well Bottom Elevation \*453.08 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 49°F, Cloudy, S winds @ 10-15 mph  
Turbidity: 1.41 NTU  
Other: \*Reference Measurement (Well ID updated 11-25-15)  
Depth To Water from L.S. = 70.08 - 2.55 = 67.53 (ft.)  
Levels were taken on 03/22/23 @ 1205

(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 Dup  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-230703-14

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: \_\_\_\_\_ 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 \*578.66 (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~~ Samples taken on 03/22/23 @ 1225

(Updated: 07/14/2022)

Sampler Name (Print): Noe Lopez 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 #: 500-230703-15

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: 03/22/23 Start Purge: 1317 End Purge: 1330  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.59

**MEASUREMENTS**

Well Diameter	<u>4.0</u>	(inches)	1st	2nd	Final											
Stick Up	<u>2.70</u>	(ft)	pH	<u>7.69</u>	<u>7.70</u>	<u>7.70</u> (std.)										
Ref. Measuring Pt.	<u>TIC</u>		SC	<u>1311</u>	<u>1307</u>	<u>1307</u> (umhos/cm)										
Well Elevation	<u>*601.41</u>	(ft./msl)	Temp.	<u>12.05</u>	<u>12.03</u>	<u>12.03</u> (°C)										
Water Level	<u>91.99</u>	(ft.)	Well Stabilization / Recharge Grid													
Ground Water Elev.	<u>509.42</u>	(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></tr> </table>													
Well Bottom Elevation	<u>*453.62</u>	(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></tr> </table>													

**COMMENTS**

Sample Appearance/Odor: Tan, Moderate Turbidity, No Odor  
Weather Conditions: 49°F, Cloudy, S winds @ 5-10 mph  
Turbidity: 88.61 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 91.99 - 2.70 = 89.29 (ft.)  
Levels were taken on 03/22/23 @ 1312

(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 #: 500-230703-116

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: 03/23/23 Start Purge: 0955 End Purge: 1013  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.93

**MEASUREMENTS**

Well Diameter	<u>4.0</u>	(inches)	1st	2nd	Final											
Stick Up	<u>2.45</u>	(ft)	pH <u>8.68</u>	<u>8.68</u>	<u>8.68</u>	(std.)										
Ref. Measuring Pt.	<u>TIC</u>		SC <u>1346</u>	<u>1352</u>	<u>1352</u>	(umhos/cm)										
Well Elevation	<u>*620.77</u>	(ft./msl)	Temp. <u>9.99</u>	<u>9.98</u>	<u>9.98</u>	(°C)										
Water Level	<u>103.82</u>	(ft.)	Well Stabilization / Recharge Grid													
Ground Water Elev.	<u>516.95</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>*468.32</u>	(ft./msl)														

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 41°F, Cloudy, NE winds e 5-10 mph  
Turbidity: 3.13 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 103.82 - 2.45 = 101.37 (ft.)  
Levels were taken on 03/23/23 @ 0950.

(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 #: 500-230703-17

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: 03/23/23 Start Purge: 1102 End Purge: 1122  
(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 9.20 9.22 9.22 (std.)  
Ref. Measuring Pt. TIC SC 1486 1485 1485 (umhos/cm)  
Well Elevation \*612.23 (ft./msl) Temp. 10.80 10.81 10.81 (°C)  
Water Level 95.75 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 516.48 (ft./msl)  
Well Bottom Elevation \*459.84 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor  
Weather Conditions: 41°F, Cloudy, NE winds 5-10 mph  
Turbidity: 1.12 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 95.75 - 2.50 = 93.25 (ft.)  
Levels were taken on 03/23/23 @ 1057.

(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 #: 500-230703-18

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: 03/23/23 Start Purge: 1200 End Purge: 1216  
(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 7.30 7.30 (std.)  
Ref. Measuring Pt. TIC SC 1021 1024 1024 (umhos/cm)  
Well Elevation \*603.80 (ft./msl) Temp. 12.12 12.11 12.11 (°C)  
Water Level 66.41 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 537.39 (ft./msl)  
Well Bottom Elevation \*471.05 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 42°F, Cloudy, N winds @ 5-10 mph  
Turbidity: 1.13 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 66.41 - 2.97 = 63.44 (ft)  
Levels were taken on 03/23/23 @ 1155

(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 #: 500-230703-19

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: 03/23/23 Start Purge: 1315 End Purge: 1334  
(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 7.56 7.57 7.57 (std.)  
Ref. Measuring Pt. TIC      SC 929 935 935 (umhos/cm)  
Well Elevation \*536.97 (ft./msl)      Temp. 10.88 10.87 10.87 (°C)  
Water Level 22.18 (ft.)      Well Stabilization / Recharge Grid  
Ground Water Elev. 514.79 (ft./msl)      


  
Well Bottom Elevation \*457.84 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 43°F, Cloudy, N winds @ 5-10 mph  
Turbidity: 1.59 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 22.18 - 2.03 = 20.15 (ft.)  
Levels were taken on 03/23/23 @ 1310

(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 4/25/2023 12:14:26 PM

**JOB DESCRIPTION**

Joliet #9 (Quarry) CCR (RAD) 1Q23

**JOB NUMBER**

500-230703-2

# 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



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Authorized for release by  
Diana Mockler, Project Manager I  
[Diana.Mockler@et.eurofinsus.com](mailto: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 (RAD) 1Q23

Job ID: 500-230703-2

## Job ID: 500-230703-2

### Laboratory: Eurofins Chicago

#### Narrative

#### Job Narrative 500-230703-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/14/2023 3:52 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 2.5° C, 2.9° C, 3.3° C, 3.5° C, 4.2° C, 4.4° C and 5.1° C.

#### RAD

Methods 903.0, 9315: Radium-226 batch 604780

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 (500-230703-1), G33S (500-230703-2), G44S (500-230703-3), G31S (500-230703-4), G30S (500-230703-5), T02S (500-230703-6), T08S (500-230703-7), T03S (500-230703-8), T01S (500-230703-9), T09S (500-230703-10), T06S (500-230703-11), (LCS 160-604780/2-A), (MB 160-604780/1-A) and (500-230703-E-10-D DU)

Method 903.0: Radium-226 batch 605061

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 (500-230703-12), R08S (500-230703-13), R08S Dup (500-230703-14), G46S (500-230703-15), G48S (500-230703-16), G47S (500-230703-17), G45S (500-230703-18), R32S (500-230703-19), (LCS 160-605061/2-A), (MB 160-605061/1-A), (660-127969-B-7-A) and (660-127969-D-7-A DU)

Method 904.0: Radium-228 prep batch 160-604781:

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. T01S (500-230703-9)

Methods 904.0, 9320: Radium-228 prep batch 160-604781:

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 (500-230703-1), G33S (500-230703-2), G44S (500-230703-3), G31S (500-230703-4), G30S (500-230703-5), T02S (500-230703-6), T08S (500-230703-7), T03S (500-230703-8), T01S (500-230703-9), T09S (500-230703-10), T06S (500-230703-11), (LCS 160-604781/2-A), (MB 160-604781/1-A) and (500-230703-E-10-C DU)

Method 904.0: Radium-228 batch 605065

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 (500-230703-12), R08S (500-230703-13), R08S Dup (500-230703-14), G46S (500-230703-15), G48S (500-230703-16), G47S (500-230703-17), G45S (500-230703-18), R32S (500-230703-19), (LCS 160-605065/2-A), (MB 160-605065/1-A), (660-127969-B-7-B) and (660-127969-D-7-B DU)

Method 904.0: Radium 228 batch 605065

The method blank (MB) has activity above the MDC and RL. The following associated samples are below the reporting limit for the contaminant therefore, re-analysis is not required. The data have been reported. (MB 160-605065/1-A)

# Case Narrative

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

---

## Job ID: 500-230703-2 (Continued)

---

### Laboratory: Eurofins Chicago (Continued)

Method 904.0: Radium-228 batch 608035

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 (500-230703-15), G45S (500-230703-18), (LCS 160-608035/2-A), (LCSD 160-608035/3-A) and (MB 160-608035/1-A)

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.

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# Method Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

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 (RAD) 1Q23

Job ID: 500-230703-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-230703-1	G20S	Water	03/14/23 11:28	03/14/23 15:52
500-230703-2	G33S	Water	03/15/23 09:35	03/15/23 14:00
500-230703-3	G44S	Water	03/15/23 10:50	03/15/23 14:00
500-230703-4	G31S	Water	03/15/23 12:57	03/15/23 14:00
500-230703-5	G30S	GW	03/17/23 09:26	03/17/23 12:00
500-230703-6	T02S	Water	03/20/23 09:32	03/20/23 15:12
500-230703-7	T08S	Water	03/20/23 11:20	03/20/23 15:12
500-230703-8	T03S	Water	03/20/23 13:47	03/20/23 15:12
500-230703-9	T01S	Water	03/21/23 09:52	03/21/23 15:45
500-230703-10	T09S	Water	03/21/23 11:58	03/21/23 15:45
500-230703-11	T06S	Water	03/21/23 13:45	03/21/23 15:45
500-230703-12	T05S	Water	03/22/23 09:27	03/22/23 14:45
500-230703-13	R08S	Water	03/22/23 12:25	03/22/23 14:45
500-230703-14	R08S Dup	Water	03/22/23 12:25	03/22/23 14:45
500-230703-15	G46S	Water	03/22/23 13:30	03/22/23 14:45
500-230703-16	G48S	Water	03/23/23 10:13	03/23/23 14:43
500-230703-17	G47S	Water	03/23/23 11:22	03/23/23 14:43
500-230703-18	G45S	Water	03/23/23 12:16	03/23/23 14:43
500-230703-19	R32S	Water	03/23/23 13:34	03/23/23 14:43

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: G20S**

**Lab Sample ID: 500-230703-1**

Date Collected: 03/14/23 11:28

Matrix: Water

Date Received: 03/14/23 15:52

**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	1.33		0.251	0.279	1.00	0.117	pCi/L	03/23/23 10:44	04/17/23 19:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					03/23/23 10:44	04/17/23 19:38	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	1.73		0.494	0.519	1.00	0.525	pCi/L	03/23/23 11:01	04/14/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					03/23/23 11:01	04/14/23 12:20	1
Y Carrier	83.0		30 - 110					03/23/23 11:01	04/14/23 12:20	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	3.06		0.554	0.589	5.00	0.525	pCi/L		04/18/23 15:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: G33S**

**Lab Sample ID: 500-230703-2**

Date Collected: 03/15/23 09:35

Matrix: Water

Date Received: 03/15/23 14:00

**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	0.601		0.233	0.240	1.00	0.246	pCi/L	03/23/23 10:44	04/17/23 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		30 - 110					03/23/23 10:44	04/17/23 09:48	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	0.548	U	0.554	0.556	1.00	0.893	pCi/L	03/23/23 11:01	04/14/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		30 - 110					03/23/23 11:01	04/14/23 12:20	1
Y Carrier	77.8		30 - 110					03/23/23 11:01	04/14/23 12:20	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	1.15		0.601	0.606	5.00	0.893	pCi/L		04/18/23 15:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: G44S**

**Lab Sample ID: 500-230703-3**

Date Collected: 03/15/23 10:50

Matrix: Water

Date Received: 03/15/23 14:00

**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	0.644		0.191	0.200	1.00	0.177	pCi/L	03/23/23 10:44	04/17/23 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					03/23/23 10:44	04/17/23 09:48	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	0.139	U	0.311	0.311	1.00	0.546	pCi/L	03/23/23 11:01	04/14/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					03/23/23 11:01	04/14/23 12:20	1
Y Carrier	80.4		30 - 110					03/23/23 11:01	04/14/23 12:20	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	0.783		0.365	0.370	5.00	0.546	pCi/L		04/18/23 15:12	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: G31S**

**Lab Sample ID: 500-230703-4**

Date Collected: 03/15/23 12:57

Matrix: Water

Date Received: 03/15/23 14:00

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>1.95</b>		0.312	0.358	1.00	0.172	pCi/L	03/23/23 10:44	04/17/23 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					03/23/23 10:44	04/17/23 09:48	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>1.05</b>		0.423	0.433	1.00	0.519	pCi/L	03/23/23 11:01	04/14/23 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					03/23/23 11:01	04/14/23 12:20	1
Y Carrier	75.5		30 - 110					03/23/23 11:01	04/14/23 12:20	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
<b>Combined Radium 226 + 228</b>	<b>2.99</b>		0.526	0.562	5.00	0.519	pCi/L		04/18/23 15:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: G30S**

**Lab Sample ID: 500-230703-5**

Date Collected: 03/17/23 09:26

Matrix: GW

Date Received: 03/17/23 12:00

**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	0.882		0.269	0.280	1.00	0.258	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.343	U	0.453	0.454	1.00	0.757	pCi/L	03/23/23 11:01	04/14/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					03/23/23 11:01	04/14/23 12:21	1
Y Carrier	76.3		30 - 110					03/23/23 11:01	04/14/23 12:21	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	1.22		0.527	0.533	5.00	0.757	pCi/L		04/18/23 15:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: T02S**

**Lab Sample ID: 500-230703-6**

Date Collected: 03/20/23 09:32

Matrix: Water

Date Received: 03/20/23 15:12

**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	0.968		0.288	0.301	1.00	0.276	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.646	U	0.525	0.529	1.00	0.813	pCi/L	03/23/23 11:01	04/14/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					03/23/23 11:01	04/14/23 12:21	1
Y Carrier	80.0		30 - 110					03/23/23 11:01	04/14/23 12:21	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	1.61		0.599	0.609	5.00	0.813	pCi/L		04/18/23 15:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: T08S**

**Lab Sample ID: 500-230703-7**

Date Collected: 03/20/23 11:20

Matrix: Water

Date Received: 03/20/23 15:12

**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	0.298		0.141	0.144	1.00	0.159	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.271	U	0.434	0.435	1.00	0.740	pCi/L	03/23/23 11:01	04/14/23 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					03/23/23 11:01	04/14/23 14:20	1
Y Carrier	83.0		30 - 110					03/23/23 11:01	04/14/23 14:20	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	0.569	U	0.456	0.458	5.00	0.740	pCi/L		04/18/23 15:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: T03S**

**Lab Sample ID: 500-230703-8**

Date Collected: 03/20/23 13:47

Matrix: Water

Date Received: 03/20/23 15:12

**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	0.588		0.182	0.190	1.00	0.153	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.475	U	0.426	0.428	1.00	0.668	pCi/L	03/23/23 11:01	04/14/23 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					03/23/23 11:01	04/14/23 14:20	1
Y Carrier	81.9		30 - 110					03/23/23 11:01	04/14/23 14:20	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	1.06		0.463	0.468	5.00	0.668	pCi/L		04/18/23 15:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: T01S**

**Lab Sample ID: 500-230703-9**

Date Collected: 03/21/23 09:52

Matrix: Water

Date Received: 03/21/23 15:45

**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	2.67		0.628	0.673	1.00	0.451	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.8		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.401	U G	1.34	1.34	1.00	2.37	pCi/L	03/23/23 11:01	04/14/23 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.8		30 - 110					03/23/23 11:01	04/14/23 14:20	1
Y Carrier	82.6		30 - 110					03/23/23 11:01	04/14/23 14:20	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		1.48	1.50	5.00	2.37	pCi/L		04/18/23 15:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: T09S**

**Lab Sample ID: 500-230703-10**

Date Collected: 03/21/23 11:58

Matrix: Water

Date Received: 03/21/23 15:45

**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	2.14		0.309	0.364	1.00	0.152	pCi/L	03/23/23 10:44	04/17/23 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		30 - 110					03/23/23 10:44	04/17/23 09:49	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	0.723	U	0.482	0.487	1.00	0.728	pCi/L	03/23/23 11:01	04/14/23 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		30 - 110					03/23/23 11:01	04/14/23 14:20	1
Y Carrier	82.2		30 - 110					03/23/23 11:01	04/14/23 14:20	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	2.87		0.573	0.608	5.00	0.728	pCi/L		04/18/23 15:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: T06S**

**Lab Sample ID: 500-230703-11**

Date Collected: 03/21/23 13:45

Matrix: Water

Date Received: 03/21/23 15:45

**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	1.06		0.237	0.255	1.00	0.157	pCi/L	03/23/23 10:44	04/17/23 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					03/23/23 10:44	04/17/23 09:50	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	0.535	U	0.440	0.443	1.00	0.683	pCi/L	03/23/23 11:01	04/14/23 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		30 - 110					03/23/23 11:01	04/14/23 14:20	1
Y Carrier	84.1		30 - 110					03/23/23 11:01	04/14/23 14:20	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		0.500	0.511	5.00	0.683	pCi/L		04/18/23 15:12	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: T05S**

**Lab Sample ID: 500-230703-12**

Date Collected: 03/22/23 09:27

Matrix: Water

Date Received: 03/22/23 14:45

**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	0.359		0.190	0.193	1.00	0.229	pCi/L	03/27/23 09:46	04/19/23 15:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					03/27/23 09:46	04/19/23 15:05	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	0.207	U	0.400	0.400	1.00	0.694	pCi/L	03/27/23 10:15	04/17/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					03/27/23 10:15	04/17/23 12:03	1
Y Carrier	84.1		30 - 110					03/27/23 10:15	04/17/23 12:03	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	0.566	U	0.443	0.444	5.00	0.694	pCi/L		04/20/23 12:21	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: R08S**

**Lab Sample ID: 500-230703-13**

Date Collected: 03/22/23 12:25

Matrix: Water

Date Received: 03/22/23 14:45

**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	0.696		0.205	0.214	1.00	0.175	pCi/L	03/27/23 09:46	04/19/23 15:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					03/27/23 09:46	04/19/23 15:05	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	0.987		0.387	0.397	1.00	0.477	pCi/L	03/27/23 10:15	04/17/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					03/27/23 10:15	04/17/23 12:03	1
Y Carrier	82.6		30 - 110					03/27/23 10:15	04/17/23 12:03	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	1.68		0.438	0.451	5.00	0.477	pCi/L		04/20/23 12:21	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: R08S Dup**

**Lab Sample ID: 500-230703-14**

Date Collected: 03/22/23 12:25

Matrix: Water

Date Received: 03/22/23 14:45

**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	0.684		0.205	0.214	1.00	0.181	pCi/L	03/27/23 09:46	04/19/23 15:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					03/27/23 09:46	04/19/23 15:05	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	0.440	U	0.343	0.345	1.00	0.525	pCi/L	03/27/23 10:15	04/17/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					03/27/23 10:15	04/17/23 12:03	1
Y Carrier	80.4		30 - 110					03/27/23 10:15	04/17/23 12:03	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		0.400	0.406	5.00	0.525	pCi/L		04/20/23 12:21	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: G46S**

**Lab Sample ID: 500-230703-15**

Date Collected: 03/22/23 13:30

Matrix: Water

Date Received: 03/22/23 14:45

**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	1.25		0.258	0.281	1.00	0.149	pCi/L	03/27/23 09:46	04/19/23 15:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					03/27/23 09:46	04/19/23 15:06	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	1.32		0.414	0.432	1.00	0.483	pCi/L	04/19/23 09:46	04/24/23 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					04/19/23 09:46	04/24/23 13:43	1
Y Carrier	89.0		30 - 110					04/19/23 09:46	04/24/23 13:43	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	2.57		0.488	0.515	5.00	0.483	pCi/L		04/25/23 11:50	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: G48S**

**Lab Sample ID: 500-230703-16**

Date Collected: 03/23/23 10:13

Matrix: Water

Date Received: 03/23/23 14:43

**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	0.547		0.180	0.186	1.00	0.158	pCi/L	03/27/23 09:46	04/19/23 15:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110					03/27/23 09:46	04/19/23 15:06	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	0.704		0.403	0.408	1.00	0.589	pCi/L	03/27/23 10:15	04/17/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110					03/27/23 10:15	04/17/23 12:05	1
Y Carrier	79.6		30 - 110					03/27/23 10:15	04/17/23 12:05	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	1.25		0.441	0.448	5.00	0.589	pCi/L		04/20/23 12:21	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: G47S**

**Lab Sample ID: 500-230703-17**

Date Collected: 03/23/23 11:22

Matrix: Water

Date Received: 03/23/23 14:43

**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	0.579		0.212	0.219	1.00	0.229	pCi/L	03/27/23 09:46	04/19/23 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		30 - 110					03/27/23 09:46	04/19/23 15:07	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	0.405	U	0.383	0.385	1.00	0.613	pCi/L	03/27/23 10:15	04/17/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		30 - 110					03/27/23 10:15	04/17/23 12:05	1
Y Carrier	84.5		30 - 110					03/27/23 10:15	04/17/23 12:05	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	0.984		0.438	0.443	5.00	0.613	pCi/L		04/20/23 12:21	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: G45S**

**Lab Sample ID: 500-230703-18**

Date Collected: 03/23/23 12:16

Matrix: Water

Date Received: 03/23/23 14:43

**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	1.40		0.282	0.309	1.00	0.185	pCi/L	03/27/23 09:46	04/19/23 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		30 - 110					03/27/23 09:46	04/19/23 15:07	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	0.886		0.460	0.467	1.00	0.659	pCi/L	04/19/23 09:46	04/24/23 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					04/19/23 09:46	04/24/23 13:43	1
Y Carrier	81.9		30 - 110					04/19/23 09:46	04/24/23 13:43	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	2.28		0.540	0.560	5.00	0.659	pCi/L		04/25/23 11:50	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: R32S**

**Lab Sample ID: 500-230703-19**

Date Collected: 03/23/23 13:34

Matrix: Water

Date Received: 03/23/23 14:43

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>1.26</b>		0.284	0.306	1.00	0.249	pCi/L	03/27/23 09:46	04/19/23 15:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		30 - 110					03/27/23 09:46	04/19/23 15:07	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.596</b>		0.333	0.338	1.00	0.471	pCi/L	03/27/23 10:15	04/17/23 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		30 - 110					03/27/23 10:15	04/17/23 12:06	1
Y Carrier	87.1		30 - 110					03/27/23 10:15	04/17/23 12:06	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
<b>Combined Radium 226 + 228</b>	<b>1.86</b>		0.438	0.456	5.00	0.471	pCi/L		04/20/23 12:21	1



# Definitions/Glossary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

## 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 (RAD) 1Q23

Job ID: 500-230703-2

## Rad

### Prep Batch: 604780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	PrecSep-21	
500-230703-2	G33S	Total/NA	Water	PrecSep-21	
500-230703-3	G44S	Total/NA	Water	PrecSep-21	
500-230703-4	G31S	Total/NA	Water	PrecSep-21	
500-230703-5	G30S	Total/NA	GW	PrecSep-21	
500-230703-6	T02S	Total/NA	Water	PrecSep-21	
500-230703-7	T08S	Total/NA	Water	PrecSep-21	
500-230703-8	T03S	Total/NA	Water	PrecSep-21	
500-230703-9	T01S	Total/NA	Water	PrecSep-21	
500-230703-10	T09S	Total/NA	Water	PrecSep-21	
500-230703-11	T06S	Total/NA	Water	PrecSep-21	
MB 160-604780/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-604780/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-230703-10 DU	T09S	Total/NA	Water	PrecSep-21	

### Prep Batch: 604781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-1	G20S	Total/NA	Water	PrecSep_0	
500-230703-2	G33S	Total/NA	Water	PrecSep_0	
500-230703-3	G44S	Total/NA	Water	PrecSep_0	
500-230703-4	G31S	Total/NA	Water	PrecSep_0	
500-230703-5	G30S	Total/NA	GW	PrecSep_0	
500-230703-6	T02S	Total/NA	Water	PrecSep_0	
500-230703-7	T08S	Total/NA	Water	PrecSep_0	
500-230703-8	T03S	Total/NA	Water	PrecSep_0	
500-230703-9	T01S	Total/NA	Water	PrecSep_0	
500-230703-10	T09S	Total/NA	Water	PrecSep_0	
500-230703-11	T06S	Total/NA	Water	PrecSep_0	
MB 160-604781/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-604781/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-230703-10 DU	T09S	Total/NA	Water	PrecSep_0	

### Prep Batch: 605061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	PrecSep-21	
500-230703-13	R08S	Total/NA	Water	PrecSep-21	
500-230703-14	R08S Dup	Total/NA	Water	PrecSep-21	
500-230703-15	G46S	Total/NA	Water	PrecSep-21	
500-230703-16	G48S	Total/NA	Water	PrecSep-21	
500-230703-17	G47S	Total/NA	Water	PrecSep-21	
500-230703-18	G45S	Total/NA	Water	PrecSep-21	
500-230703-19	R32S	Total/NA	Water	PrecSep-21	
MB 160-605061/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-605061/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 605065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-12	T05S	Total/NA	Water	PrecSep_0	
500-230703-13	R08S	Total/NA	Water	PrecSep_0	
500-230703-14	R08S Dup	Total/NA	Water	PrecSep_0	
500-230703-16	G48S	Total/NA	Water	PrecSep_0	

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# QC Association Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

## Rad (Continued)

### Prep Batch: 605065 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-17	G47S	Total/NA	Water	PrecSep_0	
500-230703-19	R32S	Total/NA	Water	PrecSep_0	
MB 160-605065/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-605065/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

### Prep Batch: 608035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-230703-15	G46S	Total/NA	Water	PrecSep_0	
500-230703-18	G45S	Total/NA	Water	PrecSep_0	
MB 160-608035/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-608035/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-608035/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

## Method: 903.0 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-604780/1-A**  
**Matrix: Water**  
**Analysis Batch: 607842**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 604780**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04951	U	0.110	0.110	1.00	0.196	pCi/L	03/23/23 10:44	04/17/23 09:41	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					03/23/23 10:44	04/17/23 09:41	1
	96.6									

**Lab Sample ID: LCS 160-604780/2-A**  
**Matrix: Water**  
**Analysis Batch: 607842**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 604780**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits		
				Uncert. (2σ+/-)							
Radium-226	11.3	10.55		1.17	1.00	0.172	pCi/L	93	75 - 125		
Carrier	LCS	LCS									
Ba Carrier	%Yield	Qualifier	Limits								
	95.1		30 - 110								

**Lab Sample ID: 500-230703-10 DU**  
**Matrix: Water**  
**Analysis Batch: 607841**

**Client Sample ID: T09S**  
**Prep Type: Total/NA**  
**Prep Batch: 604780**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit	
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Radium-226	2.14		2.409		0.411	1.00	0.171	pCi/L	0.34	1	
Carrier	DU	DU									
Ba Carrier	%Yield	Qualifier	Limits								
	95.9		30 - 110								

**Lab Sample ID: MB 160-605061/1-A**  
**Matrix: Water**  
**Analysis Batch: 608037**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 605061**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02180	U	0.101	0.101	1.00	0.194	pCi/L	03/27/23 09:46	04/19/23 15:04	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					03/27/23 09:46	04/19/23 15:04	1
	95.6									

**Lab Sample ID: LCS 160-605061/2-A**  
**Matrix: Water**  
**Analysis Batch: 608037**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 605061**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.17		1.15	1.00	0.150	pCi/L	90	75 - 125

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

## Method: 903.0 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: LCS 160-605061/2-A**  
**Matrix: Water**  
**Analysis Batch: 608037**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 605061**

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.6	U	30 - 110

## Method: 904.0 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-604781/1-A**  
**Matrix: Water**  
**Analysis Batch: 607421**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 604781**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.06776	U	0.284	0.284	1.00	0.549	pCi/L	03/23/23 11:01	04/14/23 12:15	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		30 - 110					03/23/23 11:01	04/14/23 12:15	1
Y Carrier	81.5		30 - 110					03/23/23 11:01	04/14/23 12:15	1

**Lab Sample ID: LCS 160-604781/2-A**  
**Matrix: Water**  
**Analysis Batch: 607421**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 604781**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.04	9.290		1.26	1.00	0.487	pCi/L	116	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.1		30 - 110						
Y Carrier	85.6		30 - 110						

**Lab Sample ID: 500-230703-10 DU**  
**Matrix: Water**  
**Analysis Batch: 607424**

**Client Sample ID: T09S**  
**Prep Type: Total/NA**  
**Prep Batch: 604781**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.723	U	1.290		0.518	1.00	0.629	pCi/L	0.56	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	95.9		30 - 110							
Y Carrier	83.0		30 - 110							

**Lab Sample ID: MB 160-605065/1-A**  
**Matrix: Water**  
**Analysis Batch: 607842**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 605065**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.386		0.518	0.563	1.00	0.485	pCi/L	03/27/23 10:15	04/17/23 12:02	1

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

## Method: 904.0 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: MB 160-605065/1-A**  
**Matrix: Water**  
**Analysis Batch: 607842**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 605065**

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	95.6		30 - 110	03/27/23 10:15	04/17/23 12:02	1
Y Carrier	82.2		30 - 110	03/27/23 10:15	04/17/23 12:02	1

**Lab Sample ID: LCS 160-605065/2-A**  
**Matrix: Water**  
**Analysis Batch: 607842**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 605065**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	96.6		30 - 110
Y Carrier	88.2		30 - 110

**Lab Sample ID: MB 160-608035/1-A**  
**Matrix: Water**  
**Analysis Batch: 608494**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 608035**

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	87.2		30 - 110	04/19/23 09:46	04/24/23 13:42	1
Y Carrier	83.4		30 - 110	04/19/23 09:46	04/24/23 13:42	1

**Lab Sample ID: LCS 160-608035/2-A**  
**Matrix: Water**  
**Analysis Batch: 608494**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 608035**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	86.2		30 - 110
Y Carrier	86.0		30 - 110

**Lab Sample ID: LCSD 160-608035/3-A**  
**Matrix: Water**  
**Analysis Batch: 608494**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 608035**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit

# QC Sample Results

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

## Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-608035/3-A  
Matrix: Water  
Analysis Batch: 608494

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 608035

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	83.0		30 - 110
Y Carrier	85.2		30 - 110

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Address \_\_\_\_\_ 500-230703 COC

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

<b>Client Contact</b>			<b>Project Manager:</b> <i>Diana Mockler</i>			<b>Site Contact</b>			<b>Date</b>			<b>COC No</b>					
Company Name <i>Midwest Generation EME LLC</i>			Tel/Email			Lab Contact			Carrier			_____ of _____ COCs					
Address			<b>Analysis Turnaround Time</b>						Sampler			<b>For Lab Use Only</b> Walk-in Client _____ Lab Sampling _____  Job / SDG No <i>500-230703</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														
Fax _____			<input type="checkbox"/> 1 week														
Project Name <i>Joliet # 9 CCR</i>			<input type="checkbox"/> 2 days						<input type="checkbox"/> 1 day			Sample Specific Notes					
Site <i>1023</i>			Filtered Sample (Y/N) _____														
P O # _____			Perform MS/MSD (Y/N) <i>Radium 226</i>			<i>Radium 228</i>			<i>Combined 226/228</i>			<i>Meths 14 elements + Hg</i>			<i>TDS, F1, Cl, SO4</i>		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.											
<i>G205</i>		<i>03/14/23</i>	<i>1128</i>		<i>w</i>	<i>5</i>											
<b>Preservation Used:</b> 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other _____												<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>					
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 Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown																	
<b>Special Instructions/QC Requirements &amp; Comments:</b>																	
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>03/14/23 1552</i>			Received by			Company _____					
Relinquished by			Company			Date/Time			Received by			Company _____					
Relinquished by			Company			Date/Time			Received in Laboratory by <i>Stephanie Hemminger</i>			Company <i>EETA</i>					
												Date/Time <i>3/14/23 1552</i>					

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# Chain of Custody Record

522979




Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b>			<b>Project Manager</b>			<b>Site Contact</b>			<b>Date</b>			<b>COC No</b>		
Company Name <i>Midwest Generation DME LLC</i>			Tel/Email:			Lab Contact			Carrier			_____ of _____ COCs		
Address			<b>Analysis Turnaround Time</b>						 500-230703 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						Walk-in Client <input type="checkbox"/>		
Fax			<input type="checkbox"/> 2 days			<input type="checkbox"/> 1 day						Lab Sampling <input type="checkbox"/>		
Project Name <i>Joliet #9 CCR</i>			<input type="checkbox"/>			<input type="checkbox"/>						Job / SDG No		
Site <i>1Q23 + Turbidity</i>			<input type="checkbox"/>			<input type="checkbox"/>			<i>500-230703</i>					
P O #			<input type="checkbox"/>			<input type="checkbox"/>								
<b>Sample Identification</b>			<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b> (C=Comp, G=Grab)	<b>Matrix</b>	<b># of Cont.</b>	<b>Filtered Sample (Y/N)</b>	<b>Perform MS/MSD (Y/N)</b>	<b>Sample Specific Notes</b>				
2 <i>G335</i>			<i>03/15/23</i>	<i>0935</i>		<i>W</i>	<i>5</i>			<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>				
3 <i>G445</i>			<i>03/15/23</i>	<i>1050</i>		<i>W</i>	<i>5</i>							
4 <i>G315</i>			<i>03/15/23</i>	<i>1257</i>		<i>W</i>	<i>5</i>							
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other														
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>								
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														
<b>Special Instructions/QC Requirements &amp; Comments:</b>														
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>03/15/23 @ 1400</i>			Received by _____			Company _____		
Relinquished by			Company			Date/Time			Received by			Company		
Relinquished by			Company			Date/Time			Received in Laboratory by <i>Stephanie Hernandez</i>			Company <i>EETA</i>		
												Date/Time <i>3/15/23 1400</i>		

# Chain of Custody Record

522980



Environment Testing  
TestAmerica

Address \_\_\_\_\_



500 230703 COC

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager <u>Diana Mackler</u>				Site Contact		Date	COC No		
Company Name <u>Midwest Generation EME LLC</u>		Tel/Email				Lab Contact		Carrier	_____ of _____ COCs		
Address		Analysis Turnaround Time				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 + Ag</u> <u>TPS, FI, CI, SO4</u>			Sampler		
City/State/Zip <u>Joliet, IL</u>		<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			Walk-in Client <input type="checkbox"/>						
Fax		<input type="checkbox"/> 1 week			Lab Sampling <input type="checkbox"/>						
Project Name <u>Joliet #9 CCR</u>		<input type="checkbox"/> 2 days			Job / SDG No						
Site <u>1223 + Turbidity</u>		<input type="checkbox"/> 1 day			<u>500-230703</u>						
P O #								Sample Specific Notes			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.					
<u>G305</u>		<u>03/17/23</u>	<u>0926</u>		<u>W</u>	<u>5</u>					

**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 2.6 → 2.5 Therm ID No 48at

Relinquished by <u>[Signature]</u>	Company <u>EETA</u>	Date/Time <u>03/17/23 9:200</u>	Received by _____	Company _____	Date/Time _____
Relinquished by _____	Company _____	Date/Time _____	Received by _____	Company _____	Date/Time _____
Relinquished by _____	Company _____	Date/Time _____	Received in Laboratory by <u>Stephanie Hamondly</u>	Company <u>EETA</u>	Date/Time <u>3/17/23 1200</u>

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, Fl, Cl, SO4</i>		 500 230703 COC		Sampler:			
City/State/Zip <i>Soliet, FL</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										<i>500-230703</i>	
Project Name <i>Soliet #9 CCR</i>										Sample Specific Notes	
Site <i>1023 + Turbidity</i>											
P O #											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.					
<i>T025</i>		<i>03/20/23</i>	<i>0932</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>		
<i>T085</i>		<i>03/20/23</i>	<i>1120</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>		
<i>T035</i>		<i>03/20/23</i>	<i>1347</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>3.6</i> Corr'd <i>3.5</i>		Therm ID No					
Relinquished by <i>[Signature]</i>		Company <i>EETP</i>		Date/Time <i>03/20/23 @ 1512</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>EETP</i>			
								Date/Time <i>3/20/23 1512</i>			

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# Chain of Custody Record 522977 eurofins

Environment Testing  
TestAmerica

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager <i>Diana Mackler</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, Fl, Cl, SO4</i>		 500 230703 COC		Sampler: For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-230703</i>	
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>									
Site <i>1Q23 + Turbidity</i>									
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>9</i> <i>10</i> <i>11</i>		<i>03/21/23</i>	<i>0952</i>	<i>W</i>	<i>5</i>	<i>5</i>			
		<i>03/21/23</i>	<i>1158</i>	<i>W</i>	<i>5</i>	<i>5</i>			
		<i>03/21/23</i>	<i>1345</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 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>4.5 + 4.4</i>		Corr'd		Therm ID No	
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>03/21/23 @ 1545</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>[Signature]</i>	
								Date/Time <i>3/21/23 1545</i>	

# Chain of Custody Record

522976




Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager: <u>Diana Mackler</u>		Site Contact:		Date:		COC No			
Company Name <u>Midwest Generation ENE LLC</u>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs			
Address		Analysis Turnaround Time		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, F, Cl, SO4</u>		 500-230703 COC		Sampler			
City/State/Zip <u>Joliet, IL</u>		<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 <u>Joliet #9 CCR</u>								500-230703			
Site <u>1Q23 + Turbidity</u>											
P O #								Sample Specific Notes			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.					
12 13 14 15 T05J		03/24/23	0927		W	5	/	/	/		
RO8S		03/24/23	1225		W	5	/	/	/		
DUP of RO8S		03/24/23	1225		W	5	/	/	/		
646J		03/24/23	1330		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 <u>4.3</u> Corr'd <u>4.2</u>		Therm ID No					
Relinquished by <u>[Signature]</u>		Company <u>EETA</u>		Date/Time <u>03/24/23 e</u>		Received by <u>1445</u>		Company			
Relinquished by		Company		Date/Time		Received by		Company			
Relinquished by		Company		Date/Time		Received in Laboratory by <u>[Signature]</u>		Company <u>RPTA</u> Date/Time <u>3/22/23</u> <u>NRB</u>			

# Chain of Custody Record 522981

Environment Testing  
TestAmerica

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact:		*Date		COC No	
Company Name <i>Midwest Generation ENE LLC</i>		Tel/Email:		Lab Contact:		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time				 500-230703 COC		Sampler: For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>  Job / SDG No <i>500-230703</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 CCR</i>									
Site <i>1Q23 + Turbidity</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, FI, Cl, SO4</i>		Matrix # of Cont.				Sample Specific Notes	
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.			
<i>G48 S</i>		<i>03/23/23</i>	<i>1013</i>		<i>W</i>	<i>5</i>			
<i>G47 S</i>		<i>03/23/23</i>	<i>1122</i>		<i>W</i>	<i>5</i>			
<i>G45 S</i>		<i>03/23/23</i>	<i>1216</i>		<i>W</i>	<i>5</i>			
<i>R32 S</i>		<i>03/23/23</i>	<i>1334</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>34</i> Corr'd <i>33</i>		Therm ID No			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>03/23/23 1443</i>		Received by <i>1443</i>		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>3/23/23 1443</i>	

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# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: Mockler, Diana J		Lab PM: Mockler, Diana J		COC No: 500-171885.1	
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	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Carrier Tracking No(s):		Job #: 500-230703-2	
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 4/11/2023		TAT Requested (days):		Preservation Codes:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		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 - 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 (RAD)		Project #: 50011504		SSOW#:		Other:	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
G20S (500-230703-1)		3/14/23		11:28 Central		Water	
Matrix (Water, Solid, On-water, Oil, BT-tissue, A+AP)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		903.0/PreSep_21 Standard Target List		904.0/PreSep_0 Standard Target List	
Ra226Ra228_GFPc		X		X		X	
Total Number of Containers		3		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume:		Special Instructions/Note:	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte &amp; 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>							
<p><b>Possible Hazard Identification</b>  <input type="checkbox"/> Unconfirmed                  Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2                  Empty Kit Relinquished by: _____ Date: _____                  Relinquished by: <i>Stephanie Humondus</i> Date/Time: 3/15/23 1500                  Relinquished by: _____ Date/Time: _____                  Relinquished by: _____ Date/Time: _____                  Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____                  Cooler Temperature(s) °C and Other Remarks: _____</p>							
<p><b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>  <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months                  Special Instructions/QC Requirements: _____                  Received by: _____ Date/Time: _____                  Received by: <i>Sana Wodhington</i> Date/Time: MAR 16 2023 0925                  Received by: _____ Date/Time: _____                  Method of Shipment: _____                  Received by: _____ Date/Time: _____                  Received by: _____ Date/Time: _____                  Received by: _____ Date/Time: _____                  Received by: _____ Date/Time: _____</p>							



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: Mockler, Diana J	Lab PM: Mockler, Diana J	Lab No: 500-171885.1	Carrier Tracking No(s):
Shipping/Receiving		Phone: Diana.Mockler@et.eurofinsus.com	E-Mail: Diana.Mockler@et.eurofinsus.com	Page: Page 1 of 1	State of Origin: Illinois
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-230703-1	Preservation Codes:
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 4/4/2023		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)	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):		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:	
Email:		PO #:		Total Number of containers	
Project Name: Joliet #9 (Quarry) CCR		WO #:		3	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Project #: 50011504		3	
SSOW#:		SSOW#:		3	
Sample Identification - Client ID (Lab ID)		Sample Date		Special Instructions/Note:	
G33S (500-230703-2)	Sample Time: 09:35 Central	Sample Date: 3/15/23	Sample Type (C=Comp, G=grab): Water	Field Filtered Sample (Yes or No):	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume:
G44S (500-230703-3)	Sample Time: 10:50 Central	Sample Date: 3/15/23	Sample Type (C=Comp, G=grab): Water	Perform MS/MSD (Yes or No):	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume:
G31S (500-230703-4)	Sample Time: 12:57 Central	Sample Date: 3/15/23	Sample Type (C=Comp, G=grab): Water	903.0/PreSep_21 Standard Target List	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume:
				904.0/PreSep_0 Standard Target List	
				905.0/PreSep_0 Standard Target List	
				906.0/PreSep_0 Standard Target List	
				907.0/PreSep_0 Standard Target List	
				908.0/PreSep_0 Standard Target List	
				909.0/PreSep_0 Standard Target List	
				910.0/PreSep_0 Standard Target List	
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				912.0/PreSep_0 Standard Target List	
				913.0/PreSep_0 Standard Target List	
				914.0/PreSep_0 Standard Target List	
				915.0/PreSep_0 Standard Target List	
				916.0/PreSep_0 Standard Target List	
				917.0/PreSep_0 Standard Target List	
				918.0/PreSep_0 Standard Target List	
				919.0/PreSep_0 Standard Target List	
				920.0/PreSep_0 Standard Target List	
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				930.0/PreSep_0 Standard Target List	
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				935.0/PreSep_0 Standard Target List	
				936.0/PreSep_0 Standard Target List	
				937.0/PreSep_0 Standard Target List	
				938.0/PreSep_0 Standard Target List	
				939.0/PreSep_0 Standard Target List	
				940.0/PreSep_0 Standard Target List	
				941.0/PreSep_0 Standard Target List	
				942.0/PreSep_0 Standard Target List	
				943.0/PreSep_0 Standard Target List	
				944.0/PreSep_0 Standard Target List	
				945.0/PreSep_0 Standard Target List	
				946.0/PreSep_0 Standard Target List	
				947.0/PreSep_0 Standard Target List	
				948.0/PreSep_0 Standard Target List	
				949.0/PreSep_0 Standard Target List	
				950.0/PreSep_0 Standard Target List	
				951.0/PreSep_0 Standard Target List	
				952.0/PreSep_0 Standard Target List	
				953.0/PreSep_0 Standard Target List	
				954.0/PreSep_0 Standard Target List	
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				962.0/PreSep_0 Standard Target List	
				963.0/PreSep_0 Standard Target List	
				964.0/PreSep_0 Standard Target List	
				965.0/PreSep_0 Standard Target List	
				966.0/PreSep_0 Standard Target List	
				967.0/PreSep_0 Standard Target List	
				968.0/PreSep_0 Standard Target List	
				969.0/PreSep_0 Standard Target List	
				970.0/PreSep_0 Standard Target List	
				971.0/PreSep_0 Standard Target List	
				972.0/PreSep_0 Standard Target List	
				973.0/PreSep_0 Standard Target List	
				974.0/PreSep_0 Standard Target List	
				975.0/PreSep_0 Standard Target List	
				976.0/PreSep_0 Standard Target List	
				977.0/PreSep_0 Standard Target List	
				978.0/PreSep_0 Standard Target List	
				979.0/PreSep_0 Standard Target List	
				980.0/PreSep_0 Standard Target List	
				981.0/PreSep_0 Standard Target List	
				982.0/PreSep_0 Standard Target List	
				983.0/PreSep_0 Standard Target List	
				984.0/PreSep_0 Standard Target List	
				985.0/PreSep_0 Standard Target List	
				986.0/PreSep_0 Standard Target List	
				987.0/PreSep_0 Standard Target List	
				988.0/PreSep_0 Standard Target List	
				989.0/PreSep_0 Standard Target List	
				990.0/PreSep_0 Standard Target List	
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				994.0/PreSep_0 Standard Target List	
				995.0/PreSep_0 Standard Target List	
				996.0/PreSep_0 Standard Target List	
				997.0/PreSep_0 Standard Target List	
				998.0/PreSep_0 Standard Target List	
				999.0/PreSep_0 Standard Target List	
				1000.0/PreSep_0 Standard Target List	

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/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  
 Special Instructions/QC Requirements:  Return To Client  Disposal By Lab  Archive For Months

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_  
 Relinquished by: *Stephanie Hummon* Date/Time: 3/15/23 1500 Company: *EEA*  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished 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



<b>Client Information (Sub Contract Lab)</b>		Sampler: Lab PM: Mockler, Diana J		COC No: 500-171959.1													
Shipping/Receiving		Phone: E-Mail: Diana.Mockler@et.eurofinsus.com		Page: 1 of 1													
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-230703-2													
Address: 13715 Rider Trail North,		Due Date Requested: 4/11/2023		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 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)													
City: Earth City		TAT Requested (days):		<b>Analysis Requested</b>													
State, Zip: MO, 63045		PO #:															
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>903.0/PreSep_21 Standard Target List</th> <th>904.0/PreSep_0 Standard Target List</th> <th>Ra226Ra228_GFPc</th> <th>Total Number of Containers</th> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> </tr> </table>		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	X	X	X	X	X	3
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List			Ra226Ra228_GFPc	Total Number of Containers										
X	X	X	X	X	3												
Project Name: Joliet #9 (Quarry) CCR (RAD)		Project #: 50011504		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Preservation Code:</th> <th>Matrix (W=water, S=solid, O=wast/soil, B=tissue, A=air)</th> </tr> <tr> <td>3/17/23</td> <td>09:26 Central</td> <td></td> <td>Water</td> <td></td> </tr> </table>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code:	Matrix (W=water, S=solid, O=wast/soil, B=tissue, A=air)	3/17/23	09:26 Central		Water			
Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code:			Matrix (W=water, S=solid, O=wast/soil, B=tissue, A=air)											
3/17/23	09:26 Central		Water														
Email:		SSOW#:		Special Instructions/Note: Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume:													
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Sample Identification - Client ID (Lab ID): G30S (500-230703-5)															

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.

**Possible Hazard Identification**  
Unconfirmed

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

Special Instructions/QC Requirements:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_

Relinquished by: *[Signature]* Date/Time: 3/20/23 0800 Company: *[Signature]* Company: \_\_\_\_\_  
 Relinquished by: *[Signature]* Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: *[Signature]* Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No  Δ  No  Δ  No  
Cooler Temperature(s) °C and Other Remarks:



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>			Sampler: Mockler, Diana J		Lab PM: Mockler, Diana J		COC No: 500-172048.1		
Company: TestAmerica Laboratories, Inc.			E-Mail: Diana.Mockler@st.eurofinsus.com		Phone: Diana.Mockler@st.eurofinsus.com		Page: Page 1 of 1		
Address: 13715 Rider Trail North, Earth City, MO, 63045			PO #: 314-298-8566(Tel) 314-298-8757(Fax)		State of Origin: Illinois		Job #: 500-230703-1		
Project Name: Joliet #9 (Quarry) CCR			Project #: 50011504		Accreditations Required (See note): NELAP - Illinois		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: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2S2O3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Site: NRG Midwest Generation LSQ Joliet #9 CCR			SSOW#: 50011504		Analysis Requested		Total Number of Containers		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Organic/Inorganic, B=Issue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Special Instructions/Note:
T05S (500-230703-12)	3/22/23	09:27 Central	Water	Water	X	X	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
R08S (500-230703-13)	3/22/23	12:25 Central	Water	Water	X	X	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
DUP of R08S (500-230703-14)	3/22/23	12:25 Central	Water	Water	X	X	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
G46S (500-230703-15)	3/22/23	13:30 Central	Water	Water	X	X	X	X	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: *Mr. Roberts* Date/Time: 3/22/23 1520 Company: *RTA*  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_  
 Δ Yes Δ No  
 Cooler Temperature(s) °C and Other Remarks:





<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-172018.1
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 #: 500-230703-1
Address: 13715 Rider Trail North,		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)	
City: Earth City	Due Date Requested: 4/4/2023	Analysis Requested	
State, Zip: MO, 63045	TAT Requested (days):	Total Number of Containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Field Filtered Sample (Yes or No)	
Email:	WO #:	Perform MS/MSD (Yes or No)	
Project Name: Joliet #9 (Quarry) CCR	Project #: 50011504	903.0/PreSep_21 Standard Target List	
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:	904.0/PreSep_0 Standard Target List	
		Raz26Ra228_GFPc	
		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;	

**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: \_\_\_\_\_ Date/Time: 3/21/23 1555 Company: FEDEx  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks:



# Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:						
Shipping/Receiving Company: TestAmerica Laboratories, Inc.		Mockler, Diana J	Mockler, Diana J	Illinois	500-172017.1						
Address: 13715 Rider Trail North, Earth City, MO, 63045		E-Mail: Diana.Mockler@et.eurofins.com	E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1						
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Accreditations Required (See note): NELAP - Illinois		Job #: 500-230703-2	Job #: 500-230703-2						
Email:		Due Date Requested: 4/4/2023		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: 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)							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=tissue, A=air)	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	Raz26Ra228 GPC	Total Number of Containers	Special Instructions/Note:
T02S (500-230703-6)	3/20/23	09:32 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
T08S (500-230703-7)	3/20/23	11:20 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
T03S (500-230703-8)	3/20/23	13:47 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
<p><b>Possible Hazard Identification</b>                  Unconfirmed                  Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2                  Empty Kit Relinquished by: _____ Date: _____                  Relinquished by: <i>Stephanie Hemminger</i> Date/Time: 3/21/23 1500 Company: <i>EEIA</i>                  Relinquished by: <i>FEDEx</i> Date/Time: _____ Company: _____                  Relinquished by: _____ Date/Time: _____ Company: _____                  Custody Seals Intact: _____ Custody Seal No.: _____                  Cooler Temperature(s) °C and Other Remarks:</p>											



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):	
Client Contact: Mockler, Diana J		E-Mail: Diana.Mockler@et.eurofins.com		State of Origin: Illinois	
Shipping/Receiving		Phone: Diana.Mockler@et.eurofins.com		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-230703-2	
Address: 13715 Rider Trail North,		Due Date Requested: 4/4/2023		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:	
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 #:		903.0/PreSep_21 Standard Target List	
Email:		Project #: 50011504		904.0/PreSep_0 Standard Target List	
Project Name: Joliet #9 (Quarry) CCR (RAD)		SSOW#:		Raz26Ra228_GFPc	
Site: NRG Midwest, Generation LSQ Joliet #9 CCR		Sample Date		Perform MS/MSD (Yes or No)	
Sample Identification - Client ID (Lab ID)		Sample Time		Field Filtered Sample (Yes or No)	
G48S (500-230703-16)		10:13 Central		X	
G47S (500-230703-17)		11:22 Central		X	
G45S (500-230703-18)		12:16 Central		X	
R32S (500-230703-19)		13:34 Central		X	
Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
3/23/23		10:13 Central		Water	
3/23/23		11:22 Central		Water	
3/23/23		12:16 Central		Water	
3/23/23		13:34 Central		Water	
Sample Date		Sample Time		Matrix (W=water, S=solid, O=water, B1=tissue, A=Air)	
3/23/23		10:13 Central		Water	
3/23/23		11:22 Central		Water	
3/23/23		12:16 Central		Water	
3/23/23		13:34 Central		Water	
Sample Date		Sample Time		Preservation Code:	
3/23/23		10:13 Central		Water	
3/23/23		11:22 Central		Water	
3/23/23		12:16 Central		Water	
3/23/23		13:34 Central		Water	
Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume:		3		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:		3		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:		3		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:		3		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume:	
Special Instructions/Note:					

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: \_\_\_\_\_ Method of Shipment:

Relinquished by: *Shirley Smith* Date/Time: 3/23/23 16:15 Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_  
 Δ Yes Δ No

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Received by: *Jenna Worthington* Date/Time: MAR 24 2023 09:10 Company: *CH2M*  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks:



# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-230703-2

**Login Number: 230703**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

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	2.9,5.1,2.5,3.5,4.4,4.2,3.3
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 <6mm (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: 500-230703-2

**Login Number: 230703**

**List Number: 2**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 03/16/23 11:14 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: 500-230703-2

**Login Number: 230703**

**List Number: 3**

**Creator: Sharkey-Gonzalez, Briana L**

**List Source: Eurofins St. Louis**

**List Creation: 03/21/23 02:11 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: 500-230703-2

**Login Number: 230703**

**List Number: 4**

**Creator: Sharkey-Gonzalez, Briana L**

**List Source: Eurofins St. Louis**

**List Creation: 03/22/23 02:59 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: 500-230703-2

**Login Number: 230703**

**List Number: 5**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 03/23/23 10:44 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: 500-230703-2

**Login Number: 230703**

**List Number: 6**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 03/24/23 01:24 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 (RAD) 1Q23

Job ID: 500-230703-2

## Client Sample ID: G20S

Date Collected: 03/14/23 11:28

Date Received: 03/14/23 15:52

## Lab Sample ID: 500-230703-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607842	FLC	EET SL	04/17/23 19:38
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

## Client Sample ID: G33S

Date Collected: 03/15/23 09:35

Date Received: 03/15/23 14:00

## Lab Sample ID: 500-230703-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:48
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

## Client Sample ID: G44S

Date Collected: 03/15/23 10:50

Date Received: 03/15/23 14:00

## Lab Sample ID: 500-230703-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:48
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

## Client Sample ID: G31S

Date Collected: 03/15/23 12:57

Date Received: 03/15/23 14:00

## Lab Sample ID: 500-230703-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:48
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: G30S**

**Lab Sample ID: 500-230703-5**

Date Collected: 03/17/23 09:26

Matrix: GW

Date Received: 03/17/23 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:21
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

**Client Sample ID: T02S**

**Lab Sample ID: 500-230703-6**

Date Collected: 03/20/23 09:32

Matrix: Water

Date Received: 03/20/23 15:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607421	SCB	EET SL	04/14/23 12:21
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

**Client Sample ID: T08S**

**Lab Sample ID: 500-230703-7**

Date Collected: 03/20/23 11:20

Matrix: Water

Date Received: 03/20/23 15:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607424	SCB	EET SL	04/14/23 14:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

**Client Sample ID: T03S**

**Lab Sample ID: 500-230703-8**

Date Collected: 03/20/23 13:47

Matrix: Water

Date Received: 03/20/23 15:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607424	SCB	EET SL	04/14/23 14:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: T01S**  
**Date Collected: 03/21/23 09:52**  
**Date Received: 03/21/23 15:45**

**Lab Sample ID: 500-230703-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607424	SCB	EET SL	04/14/23 14:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

**Client Sample ID: T09S**  
**Date Collected: 03/21/23 11:58**  
**Date Received: 03/21/23 15:45**

**Lab Sample ID: 500-230703-10**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:49
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607424	SCB	EET SL	04/14/23 14:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

**Client Sample ID: T06S**  
**Date Collected: 03/21/23 13:45**  
**Date Received: 03/21/23 15:45**

**Lab Sample ID: 500-230703-11**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			604780	DJP	EET SL	03/23/23 10:44
Total/NA	Analysis	903.0		1	607841	FLC	EET SL	04/17/23 09:50
Total/NA	Prep	PrecSep_0			604781	DJP	EET SL	03/23/23 11:01
Total/NA	Analysis	904.0		1	607424	SCB	EET SL	04/14/23 14:20
Total/NA	Analysis	Ra226_Ra228		1	608012	EMH	EET SL	04/18/23 15:12

**Client Sample ID: T05S**  
**Date Collected: 03/22/23 09:27**  
**Date Received: 03/22/23 14:45**

**Lab Sample ID: 500-230703-12**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608037	FLC	EET SL	04/19/23 15:05
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607842	FLC	EET SL	04/17/23 12:03
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: R08S**

Date Collected: 03/22/23 12:25

Date Received: 03/22/23 14:45

**Lab Sample ID: 500-230703-13**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608037	FLC	EET SL	04/19/23 15:05
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607842	FLC	EET SL	04/17/23 12:03
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

**Client Sample ID: R08S Dup**

Date Collected: 03/22/23 12:25

Date Received: 03/22/23 14:45

**Lab Sample ID: 500-230703-14**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608037	FLC	EET SL	04/19/23 15:05
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607842	FLC	EET SL	04/17/23 12:03
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

**Client Sample ID: G46S**

Date Collected: 03/22/23 13:30

Date Received: 03/22/23 14:45

**Lab Sample ID: 500-230703-15**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608037	FLC	EET SL	04/19/23 15:06
Total/NA	Prep	PrecSep_0			608035	KAC	EET SL	04/19/23 09:46
Total/NA	Analysis	904.0		1	608494	FLC	EET SL	04/24/23 13:43
Total/NA	Analysis	Ra226_Ra228		1	608692	SCB	EET SL	04/25/23 11:50

**Client Sample ID: G48S**

Date Collected: 03/23/23 10:13

Date Received: 03/23/23 14:43

**Lab Sample ID: 500-230703-16**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608037	FLC	EET SL	04/19/23 15:06
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607841	FLC	EET SL	04/17/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Client Sample ID: G47S**

**Lab Sample ID: 500-230703-17**

Date Collected: 03/23/23 11:22

Matrix: Water

Date Received: 03/23/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608038	FLC	EET SL	04/19/23 15:07
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607841	FLC	EET SL	04/17/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

**Client Sample ID: G45S**

**Lab Sample ID: 500-230703-18**

Date Collected: 03/23/23 12:16

Matrix: Water

Date Received: 03/23/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608038	FLC	EET SL	04/19/23 15:07
Total/NA	Prep	PrecSep_0			608035	KAC	EET SL	04/19/23 09:46
Total/NA	Analysis	904.0		1	608494	FLC	EET SL	04/24/23 13:43
Total/NA	Analysis	Ra226_Ra228		1	608692	SCB	EET SL	04/25/23 11:50

**Client Sample ID: R32S**

**Lab Sample ID: 500-230703-19**

Date Collected: 03/23/23 13:34

Matrix: Water

Date Received: 03/23/23 14:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			605061	DJP	EET SL	03/27/23 09:46
Total/NA	Analysis	903.0		1	608038	FLC	EET SL	04/19/23 15:07
Total/NA	Prep	PrecSep_0			605065	DJP	EET SL	03/27/23 10:15
Total/NA	Analysis	904.0		1	607841	FLC	EET SL	04/17/23 12:06
Total/NA	Analysis	Ra226_Ra228		1	608214	SCB	EET SL	04/20/23 12:21

**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 (RAD) 1Q23

Job ID: 500-230703-2

## Method: 903.0 - Radium-226 (GFPC)

Matrix: GW

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-230703-5	G30S	86.1

#### 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 (30-110)
500-230703-1	G20S	86.3
500-230703-2	G33S	80.9
500-230703-3	G44S	92.8
500-230703-4	G31S	91.0
500-230703-6	T02S	83.5
500-230703-7	T08S	91.0
500-230703-8	T03S	84.8
500-230703-9	T01S	59.8
500-230703-10	T09S	96.9
500-230703-10 DU	T09S	95.9
500-230703-11	T06S	86.3
500-230703-12	T05S	90.2
500-230703-13	R08S	92.3
500-230703-14	R08S Dup	93.0
500-230703-15	G46S	93.3
500-230703-16	G48S	97.7
500-230703-17	G47S	87.4
500-230703-18	G45S	88.9
500-230703-19	R32S	93.6
LCS 160-604780/2-A	Lab Control Sample	95.1
LCS 160-605061/2-A	Lab Control Sample	96.6
MB 160-604780/1-A	Method Blank	96.6
MB 160-605061/1-A	Method Blank	95.6

#### 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 (30-110)	Y (30-110)
500-230703-5	G30S	86.1	76.3

#### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

# Tracer/Carrier Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 1Q23

Job ID: 500-230703-2

**Method: 904.0 - Radium-228 (GFPC)**

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
500-230703-1	G20S	86.3	83.0
500-230703-2	G33S	80.9	77.8
500-230703-3	G44S	92.8	80.4
500-230703-4	G31S	91.0	75.5
500-230703-6	T02S	83.5	80.0
500-230703-7	T08S	91.0	83.0
500-230703-8	T03S	84.8	81.9
500-230703-9	T01S	59.8	82.6
500-230703-10	T09S	96.9	82.2
500-230703-10 DU	T09S	95.9	83.0
500-230703-11	T06S	86.3	84.1
500-230703-12	T05S	90.2	84.1
500-230703-13	R08S	92.3	82.6
500-230703-14	R08S Dup	93.0	80.4
500-230703-15	G46S	90.2	89.0
500-230703-16	G48S	97.7	79.6
500-230703-17	G47S	87.4	84.5
500-230703-18	G45S	83.5	81.9
500-230703-19	R32S	93.6	87.1
LCS 160-604781/2-A	Lab Control Sample	95.1	85.6
LCS 160-605065/2-A	Lab Control Sample	96.6	88.2
LCS 160-608035/2-A	Lab Control Sample	86.2	86.0
LCSD 160-608035/3-A	Lab Control Sample Dup	83.0	85.2
MB 160-604781/1-A	Method Blank	96.6	81.5
MB 160-605065/1-A	Method Blank	95.6	82.2
MB 160-608035/1-A	Method Blank	87.2	83.4

**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 7/20/2023 11:53:59 AM

## JOB DESCRIPTION

Joliet #9 (Quarry) CCR 2Q23

## JOB NUMBER

500-235842-1

# Eurofins Chicago

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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# Case Narrative

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Job ID: 500-235842-1**

**Laboratory: Eurofins Chicago**

## Narrative

### Job Narrative 500-235842-1

#### Receipt

The samples were received on 6/27/2023 3:00 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 1.0° C, 1.4° C, 3.2° C, 3.7° C, 3.9° C and 4.4° C.

#### Metals

Methods 6020A, 6020B: The initial low level continuing calibration verification (ICVL) associated with batch 500-722538 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 closing low level continuing calibration verification (CCVL) was not run for samples 500-235842-A-1-A to A-12-A. The samples associated with batch 500-721484 were calibrated using the updated 6020A method (6020B), which does not required a closing CCVL. The initial low level calibration verification (ICVL) is within 80-120% recovery for Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Lead, Molybdenum, Selenium and Thallium; 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 500-721056 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.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-721686 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. When the gallery performs auto dilutions on MS/MSD, it can dilute out the spike and lower the recovery.

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 2Q23

Job ID: 500-235842-1

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 2Q23

Job ID: 500-235842-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-235842-1	T13S	Water	06/27/23 09:31	06/27/23 15:00
500-235842-2	T12S	Water	06/27/23 11:17	06/27/23 15:00
500-235842-3	T09S	Water	06/27/23 12:12	06/27/23 15:00
500-235842-4	T06S	Water	06/27/23 13:33	06/27/23 15:00
500-235842-5	G20S	GW	06/28/23 09:03	06/28/23 15:37
500-235842-6	R08S	GW	06/28/23 12:22	06/28/23 15:37
500-235842-7	G33S	Water	06/28/23 13:43	06/28/23 15:37
500-235842-8	G31S	Water	06/28/23 14:39	06/28/23 15:37
500-235842-9	G30S	Water	06/29/23 08:41	06/29/23 14:15
500-235842-10	R32S	Water	06/29/23 10:39	06/29/23 14:15
500-235842-11	G44S	Water	06/29/23 11:37	06/29/23 14:15
500-235842-12	G46S	Water	06/29/23 13:09	06/29/23 14:15
500-235842-13	G45S	Water	06/30/23 08:50	06/30/23 14:53
500-235842-14	G48S	Water	06/30/23 09:39	06/30/23 14:53
500-235842-15	G47S	Water	06/30/23 10:48	06/30/23 14:53
500-235842-16	T03S	Water	06/30/23 11:54	06/30/23 14:53
500-235842-17	DUP	Water	06/30/23 11:54	06/30/23 14:53
500-235842-18	T02S	Water	06/30/23 13:21	06/30/23 14:53
500-235842-19	T08S	Water	07/03/23 09:08	07/03/23 14:15
500-235842-20	T01S	Water	07/03/23 10:39	07/03/23 14:15
500-235842-21	T05S	Water	07/03/23 12:31	07/03/23 14:15



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T13S**

**Lab Sample ID: 500-235842-1**

Date Collected: 06/27/23 09:31

Matrix: Water

Date Received: 06/27/23 15:00

**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		06/30/23 09:01	06/30/23 19:23	1
<b>Arsenic</b>	<b>0.0047</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:23	1
<b>Barium</b>	<b>0.070</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:23	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:23	1
<b>Boron</b>	<b>0.40</b>		0.050		mg/L		06/30/23 09:01	07/19/23 15:18	1
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:23	1
<b>Calcium</b>	<b>100</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:23	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:23	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:23	1
<b>Lead</b>	<b>0.00053</b>		0.00050		mg/L		06/30/23 09:01	06/30/23 19:23	1
<b>Lithium</b>	<b>0.021</b>		0.010		mg/L		06/30/23 09:01	07/19/23 15:18	1
<b>Molybdenum</b>	<b>0.0057</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:23	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:23	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:23	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>620</b>		10		mg/L			06/28/23 21:30	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>42</b>		2.0		mg/L			06/28/23 13:52	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.24</b>		0.10		mg/L			06/28/23 17:33	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>130</b>		50		mg/L			06/29/23 09:27	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	18.33				ft			06/27/23 09:31	1
Depth to Water (ft from MP)	21.09				ft			06/27/23 09:31	1
Elevation of well (ft from MP)	525.33				ft			06/27/23 09:31	1
Field pH	7.98				SU			06/27/23 09:31	1
Field Temperature	59.0				Degrees F			06/27/23 09:31	1
Ground Water Elevation	504.24				ft			06/27/23 09:31	1
Specific Conductance	961				umhos/cm			06/27/23 09:31	1
Well bottom elevation	452.21				ft			06/27/23 09:31	1
Field Turbidity	15.90				NTU			06/27/23 09:31	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T12S**

**Lab Sample ID: 500-235842-2**

Date Collected: 06/27/23 11:17

Matrix: Water

Date Received: 06/27/23 15:00

**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		06/30/23 09:01	06/30/23 19:27	1
<b>Arsenic</b>	<b>0.0041</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:27	1
<b>Barium</b>	<b>0.071</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:27	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:27	1
<b>Boron</b>	<b>6.8</b>		1.0		mg/L		06/30/23 09:01	07/19/23 15:21	20
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:27	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:27	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:27	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:27	1
<b>Lead</b>	<b>0.0022</b>		0.00050		mg/L		06/30/23 09:01	06/30/23 19:27	1
<b>Lithium</b>	<b>0.15</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:25	1
<b>Molybdenum</b>	<b>0.59</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:27	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:27	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:27	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>860</b>		10		mg/L			06/28/23 21:33	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>83</b>		10		mg/L			06/28/23 14:19	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.16</b>		0.10		mg/L			06/28/23 17:47	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>380</b>		50		mg/L			06/29/23 09:28	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	72.07				ft			06/27/23 11:17	1
Depth to Water (ft from MP)	74.81				ft			06/27/23 11:17	1
Elevation of well (ft from MP)	578.74				ft			06/27/23 11:17	1
Field pH	7.82				SU			06/27/23 11:17	1
Field Temperature	57.0				Degrees F			06/27/23 11:17	1
Ground Water Elevation	503.93				ft			06/27/23 11:17	1
Specific Conductance	1224				umhos/cm			06/27/23 11:17	1
Well bottom elevation	452.24				ft			06/27/23 11:17	1
Field Turbidity	12.50				NTU			06/27/23 11:17	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T09S**

**Lab Sample ID: 500-235842-3**

Date Collected: 06/27/23 12:12

Matrix: Water

Date Received: 06/27/23 15:00

**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		06/30/23 09:01	06/30/23 19:30	1
<b>Arsenic</b>	<b>0.0037</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:30	1
<b>Barium</b>	<b>0.065</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:30	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:30	1
<b>Boron</b>	<b>9.2</b>		1.0		mg/L		06/30/23 09:01	07/19/23 15:25	20
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:30	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:30	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:30	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:30	1
<b>Lead</b>	<b>0.00097</b>		0.00050		mg/L		06/30/23 09:01	06/30/23 19:30	1
<b>Lithium</b>	<b>0.10</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:29	1
<b>Molybdenum</b>	<b>0.99</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:30	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:30	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:30	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1000</b>		10		mg/L			06/28/23 21:35	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>48</b>		4.0		mg/L			06/28/23 13:53	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.33</b>		0.10		mg/L			06/28/23 18:02	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>480</b>		100		mg/L			06/29/23 09:07	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>105.69</b>				ft			06/27/23 12:12	1
<b>Depth to Water (ft from MP)</b>	<b>108.09</b>				ft			06/27/23 12:12	1
<b>Elevation of well (ft from MP)</b>	<b>603.48</b>				ft			06/27/23 12:12	1
<b>Field pH</b>	<b>7.42</b>				SU			06/27/23 12:12	1
<b>Field Temperature</b>	<b>577</b>				Degrees F			06/27/23 12:12	1
<b>Ground Water Elevation</b>	<b>495.39</b>				ft			06/27/23 12:12	1
<b>Specific Conductance</b>	<b>1408</b>				umhos/cm			06/27/23 12:12	1
<b>Well bottom elevation</b>	<b>444.80</b>				ft			06/27/23 12:12	1
<b>Field Turbidity</b>	<b>32.10</b>				NTU			06/27/23 12:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T06S**

**Lab Sample ID: 500-235842-4**

Date Collected: 06/27/23 13:33

Matrix: Water

Date Received: 06/27/23 15:00

**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		06/30/23 09:01	06/30/23 19:34	1
<b>Arsenic</b>	<b>0.0010</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:34	1
<b>Barium</b>	<b>0.032</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:34	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:34	1
<b>Boron</b>	<b>0.89</b>		0.050		mg/L		06/30/23 09:01	07/19/23 15:28	1
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:34	1
<b>Calcium</b>	<b>87</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:34	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:34	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:34	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:34	1
<b>Lithium</b>	<b>0.026</b>		0.010		mg/L		06/30/23 09:01	07/19/23 15:28	1
<b>Molybdenum</b>	<b>0.016</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:34	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:34	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:34	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>480</b>		10		mg/L			06/28/23 21:38	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>13</b>		2.0		mg/L			06/28/23 13:53	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.41</b>		0.10		mg/L			06/28/23 18:07	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>100</b>		25		mg/L			06/29/23 09:08	5

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>114.78</b>				ft			06/27/23 13:33	1
<b>Depth to Water (ft from MP)</b>	<b>117.08</b>				ft			06/27/23 13:33	1
<b>Elevation of well (ft from MP)</b>	<b>621.05</b>				ft			06/27/23 13:33	1
<b>Field pH</b>	<b>6.88</b>				SU			06/27/23 13:33	1
<b>Field Temperature</b>	<b>67.6</b>				Degrees F			06/27/23 13:33	1
<b>Ground Water Elevation</b>	<b>503.97</b>				ft			06/27/23 13:33	1
<b>Specific Conductance</b>	<b>800</b>				umhos/cm			06/27/23 13:33	1
<b>Well bottom elevation</b>	<b>447.94</b>				ft			06/27/23 13:33	1
<b>Field Turbidity</b>	<b>0.44</b>				NTU			06/27/23 13:33	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G20S**

**Lab Sample ID: 500-235842-5**

Date Collected: 06/28/23 09:03

Matrix: GW

Date Received: 06/28/23 15:37

**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		06/30/23 09:01	06/30/23 19:44	1
Arsenic	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:44	1
<b>Barium</b>	<b>0.048</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:44	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:44	1
<b>Boron</b>	<b>1.4</b>		0.25		mg/L		06/30/23 09:01	07/19/23 15:32	5
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:44	1
<b>Calcium</b>	<b>65</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:44	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:44	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:44	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:44	1
<b>Lithium</b>	<b>0.042</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:32	1
<b>Molybdenum</b>	<b>0.012</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:44	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:44	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:44	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>380</b>		10		mg/L			06/28/23 22:34	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>16</b>		4.0		mg/L			06/29/23 12:26	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.78</b>		0.10		mg/L			06/30/23 14:31	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>57</b>		50		mg/L			06/29/23 09:09	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>50.82</b>				ft			06/28/23 09:03	1
<b>Depth to Water (ft from MP)</b>	<b>53.60</b>				ft			06/28/23 09:03	1
<b>Elevation of well (ft from MP)</b>	<b>580.87</b>				ft			06/28/23 09:03	1
<b>Field pH</b>	<b>7.20</b>				SU			06/28/23 09:03	1
<b>Field Temperature</b>	<b>65.5</b>				Degrees F			06/28/23 09:03	1
<b>Ground Water Elevation</b>	<b>527.27</b>				ft			06/28/23 09:03	1
<b>Specific Conductance</b>	<b>711</b>				umhos/cm			06/28/23 09:03	1
<b>Well bottom elevation</b>	<b>442.28</b>				ft			06/28/23 09:03	1
<b>Field Turbidity</b>	<b>0.25</b>				NTU			06/28/23 09:03	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: R08S**

**Lab Sample ID: 500-235842-6**

Date Collected: 06/28/23 12:22

Matrix: GW

Date Received: 06/28/23 15:37

**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		06/30/23 09:01	06/30/23 19:47	1
<b>Arsenic</b>	<b>0.0013</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:47	1
<b>Barium</b>	<b>0.041</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:47	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:47	1
<b>Boron</b>	<b>8.9</b>		1.0		mg/L		06/30/23 09:01	07/19/23 15:35	20
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:47	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:47	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:47	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:47	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:47	1
<b>Lithium</b>	<b>0.16</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:36	1
<b>Molybdenum</b>	<b>0.38</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:47	1
<b>Selenium</b>	<b>0.013</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:47	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 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		07/14/23 14:35	07/17/23 11:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>750</b>		10		mg/L			06/28/23 22:37	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>77</b>		10		mg/L			06/29/23 12:26	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.13</b>		0.10		mg/L			06/30/23 14:44	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>400</b>		100		mg/L			06/29/23 09:09	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>67.74</b>				ft			06/28/23 12:22	1
<b>Depth to Water (ft from MP)</b>	<b>70.29</b>				ft			06/28/23 12:22	1
<b>Elevation of well (ft from MP)</b>	<b>578.66</b>				ft			06/28/23 12:22	1
<b>Field pH</b>	<b>7.87</b>				SU			06/28/23 12:22	1
<b>Field Temperature</b>	<b>59.4</b>				Degrees F			06/28/23 12:22	1
<b>Ground Water Elevation</b>	<b>508.37</b>				ft			06/28/23 12:22	1
<b>Specific Conductance</b>	<b>1069</b>				umhos/cm			06/28/23 12:22	1
<b>Well bottom elevation</b>	<b>453.08</b>				ft			06/28/23 12:22	1
<b>Field Turbidity</b>	<b>0.34</b>				NTU			06/28/23 12:22	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G33S**

**Lab Sample ID: 500-235842-7**

Date Collected: 06/28/23 13:43

Matrix: Water

Date Received: 06/28/23 15:37

**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		06/30/23 09:01	06/30/23 19:51	1
<b>Arsenic</b>	<b>0.0021</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:51	1
<b>Barium</b>	<b>0.099</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:51	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:51	1
<b>Boron</b>	<b>0.97</b>		0.25		mg/L		06/30/23 09:01	07/19/23 15:46	5
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:51	1
<b>Calcium</b>	<b>64</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:51	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:51	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:51	1
<b>Lead</b>	<b>0.0027</b>		0.00050		mg/L		06/30/23 09:01	06/30/23 19:51	1
<b>Lithium</b>	<b>0.038</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:39	1
Molybdenum	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:51	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:51	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:51	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>420</b>		10		mg/L			06/28/23 22:39	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>13</b>		2.0		mg/L			06/29/23 12:26	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.59</b>		0.10		mg/L			06/30/23 14:49	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>73</b>	<b>F1</b>	10		mg/L			06/29/23 09:28	2

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>32.06</b>				ft			06/28/23 13:43	1
<b>Depth to Water (ft from MP)</b>	<b>33.79</b>				ft			06/28/23 13:43	1
<b>Elevation of well (ft from MP)</b>	<b>535.67</b>				ft			06/28/23 13:43	1
<b>Field pH</b>	<b>7.45</b>				SU			06/28/23 13:43	1
<b>Field Temperature</b>	<b>66.6</b>				Degrees F			06/28/23 13:43	1
<b>Ground Water Elevation</b>	<b>501.88</b>				ft			06/28/23 13:43	1
<b>Specific Conductance</b>	<b>742</b>				umhos/cm			06/28/23 13:43	1
<b>Well bottom elevation</b>	<b>452.72</b>				ft			06/28/23 13:43	1
<b>Field Turbidity</b>	<b>17.40</b>				NTU			06/28/23 13:43	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G31S**

**Lab Sample ID: 500-235842-8**

Date Collected: 06/28/23 14:39

Matrix: Water

Date Received: 06/28/23 15:37

**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		06/30/23 09:01	06/30/23 19:54	1
<b>Arsenic</b>	<b>0.0031</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:54	1
<b>Barium</b>	<b>0.046</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:54	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:54	1
<b>Boron</b>	<b>3.2</b>		0.25		mg/L		06/30/23 09:01	07/19/23 15:49	5
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:54	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:54	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:54	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:54	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:54	1
<b>Lithium</b>	<b>0.083</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:43	1
<b>Molybdenum</b>	<b>0.61</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:54	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:54	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:54	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1000</b>		10		mg/L			06/28/23 22:42	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>160</b>		20		mg/L			06/29/23 12:26	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.25</b>		0.10		mg/L			06/30/23 14:54	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>420</b>		100		mg/L			06/29/23 09:28	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	26.72				ft			06/28/23 14:39	1
Depth to Water (ft from MP)	29.30				ft			06/28/23 14:39	1
Elevation of well (ft from MP)	535.73				ft			06/28/23 14:39	1
Field pH	7.27				SU			06/28/23 14:39	1
Field Temperature	60.8				Degrees F			06/28/23 14:39	1
Ground Water Elevation	506.43				ft			06/28/23 14:39	1
Specific Conductance	1700				umhos/cm			06/28/23 14:39	1
Well bottom elevation	453.36				ft			06/28/23 14:39	1
Field Turbidity	1.00				NTU			06/28/23 14:39	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G30S**

**Lab Sample ID: 500-235842-9**

Date Collected: 06/29/23 08:41

Matrix: Water

Date Received: 06/29/23 14:15

**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		06/30/23 09:01	06/30/23 19:58	1
<b>Arsenic</b>	<b>0.0023</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:58	1
<b>Barium</b>	<b>0.045</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:58	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:58	1
<b>Boron</b>	<b>5.4</b>		0.50		mg/L		06/30/23 09:01	07/19/23 15:53	10
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:58	1
<b>Calcium</b>	<b>65</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:58	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:58	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:58	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:58	1
<b>Lithium</b>	<b>0.022</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:46	1
<b>Molybdenum</b>	<b>0.0088</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:58	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:58	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:58	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1200</b>		10		mg/L			06/30/23 12:19	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>200</b>		20		mg/L			07/05/23 13:06	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.95</b>		0.10		mg/L			06/30/23 14:59	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>480</b>		100		mg/L			07/05/23 10:07	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>0.13</b>				ft			06/29/23 08:41	1
<b>Depth to Water (ft from MP)</b>	<b>2.44</b>				ft			06/29/23 08:41	1
<b>Elevation of well (ft from MP)</b>	<b>524.86</b>				ft			06/29/23 08:41	1
<b>Field pH</b>	<b>7.55</b>				SU			06/29/23 08:41	1
<b>Field Temperature</b>	<b>62.1</b>				Degrees F			06/29/23 08:41	1
<b>Ground Water Elevation</b>	<b>522.42</b>				ft			06/29/23 08:41	1
<b>Specific Conductance</b>	<b>1930</b>				umhos/cm			06/29/23 08:41	1
<b>Well bottom elevation</b>	<b>462.58</b>				ft			06/29/23 08:41	1
<b>Field Turbidity</b>	<b>0.74</b>				NTU			06/29/23 08:41	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: R32S**

**Lab Sample ID: 500-235842-10**

Date Collected: 06/29/23 10:39

Matrix: Water

Date Received: 06/29/23 14:15

**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		06/30/23 09:01	06/30/23 20:01	1
<b>Arsenic</b>	<b>0.0016</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 20:01	1
<b>Barium</b>	<b>0.028</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 20:01	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:01	1
<b>Boron</b>	<b>1.4</b>		0.25		mg/L		06/30/23 09:01	07/19/23 15:56	5
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:01	1
<b>Calcium</b>	<b>100</b>		0.20		mg/L		06/30/23 09:01	06/30/23 20:01	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 20:01	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:01	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:01	1
<b>Lithium</b>	<b>0.035</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:50	1
<b>Molybdenum</b>	<b>0.092</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 20:01	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 20:01	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 20:01	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>770</b>		10		mg/L			06/30/23 12:22	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>47</b>		4.0		mg/L			07/05/23 13:07	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.29</b>		0.10		mg/L			06/30/23 15:03	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>380</b>		100		mg/L			07/05/23 10:08	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>20.32</b>				ft			06/29/23 10:39	1
<b>Depth to Water (ft from MP)</b>	<b>22.35</b>				ft			06/29/23 10:39	1
<b>Elevation of well (ft from MP)</b>	<b>536.97</b>				ft			06/29/23 10:39	1
<b>Field pH</b>	<b>7.07</b>				SU			06/29/23 10:39	1
<b>Field Temperature</b>	<b>55.4</b>				Degrees F			06/29/23 10:39	1
<b>Ground Water Elevation</b>	<b>514.62</b>				ft			06/29/23 10:39	1
<b>Specific Conductance</b>	<b>815</b>				umhos/cm			06/29/23 10:39	1
<b>Well bottom elevation</b>	<b>457.84</b>				ft			06/29/23 10:39	1
<b>Field Turbidity</b>	<b>0.74</b>				NTU			06/29/23 10:39	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G44S**

**Lab Sample ID: 500-235842-11**

Date Collected: 06/29/23 11:37

Matrix: Water

Date Received: 06/29/23 14:15

**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		06/30/23 09:01	06/30/23 20:05	1
Arsenic	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:05	1
<b>Barium</b>	<b>0.069</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 20:05	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:05	1
<b>Boron</b>	<b>1.8</b>		0.25		mg/L		06/30/23 09:01	07/19/23 16:00	5
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:05	1
<b>Calcium</b>	<b>140</b>		0.20		mg/L		06/30/23 09:01	06/30/23 20:05	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 20:05	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:05	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:05	1
<b>Lithium</b>	<b>0.026</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:53	1
<b>Molybdenum</b>	<b>0.24</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 20:05	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 20:05	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 20:05	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>680</b>		10		mg/L			06/30/23 12:26	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>64</b>		4.0		mg/L			07/05/23 13:07	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.21</b>		0.10		mg/L			06/30/23 15:18	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>160</b>		50		mg/L			07/05/23 09:33	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>80.94</b>				ft			06/29/23 11:37	1
<b>Depth to Water (ft from MP)</b>	<b>83.12</b>				ft			06/29/23 11:37	1
<b>Elevation of well (ft from MP)</b>	<b>586.68</b>				ft			06/29/23 11:37	1
<b>Field pH</b>	<b>7.00</b>				SU			06/29/23 11:37	1
<b>Field Temperature</b>	<b>61.2</b>				Degrees F			06/29/23 11:37	1
<b>Ground Water Elevation</b>	<b>503.56</b>				ft			06/29/23 11:37	1
<b>Specific Conductance</b>	<b>1165</b>				umhos/cm			06/29/23 11:37	1
<b>Well bottom elevation</b>	<b>455.11</b>				ft			06/29/23 11:37	1
<b>Field Turbidity</b>	<b>3.04</b>				NTU			06/29/23 11:37	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G46S**

**Lab Sample ID: 500-235842-12**

Date Collected: 06/29/23 13:09

Matrix: Water

Date Received: 06/29/23 14:15

**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		06/30/23 09:01	06/30/23 20:08	1
<b>Arsenic</b>	<b>0.044</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 20:08	1
<b>Barium</b>	<b>0.056</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 20:08	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:08	1
<b>Boron</b>	<b>8.6</b>		1.0		mg/L		06/30/23 09:01	07/19/23 16:04	20
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:08	1
<b>Calcium</b>	<b>140</b>		0.20		mg/L		06/30/23 09:01	06/30/23 20:08	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 20:08	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:08	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:08	1
<b>Lithium</b>	<b>0.17</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:57	1
<b>Molybdenum</b>	<b>1.0</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 20:08	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 20:08	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 20:08	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>890</b>		10		mg/L			06/30/23 12:29	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>69</b>		4.0		mg/L			07/05/23 13:07	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.23</b>		0.10		mg/L			06/30/23 15:23	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>440</b>		100		mg/L			07/05/23 09:34	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	101.56				ft			06/29/23 13:09	1
Depth to Water (ft from MP)	104.26				ft			06/29/23 13:09	1
Elevation of well (ft from MP)	601.41				ft			06/29/23 13:09	1
Field pH	7.50				SU			06/29/23 13:09	1
Field Temperature	59.4				Degrees F			06/29/23 13:09	1
Ground Water Elevation	497.15				ft			06/29/23 13:09	1
Specific Conductance	1342				umhos/cm			06/29/23 13:09	1
Well bottom elevation	453.62				ft			06/29/23 13:09	1
Field Turbidity	32.30				NTU			06/29/23 13:09	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G45S**

**Lab Sample ID: 500-235842-13**

Date Collected: 06/30/23 08:50

Matrix: Water

Date Received: 06/30/23 14:53

**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		07/06/23 08:24	07/10/23 22:37	1
<b>Arsenic</b>	<b>0.0094</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:37	1
<b>Barium</b>	<b>0.038</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:37	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:37	1
<b>Boron</b>	<b>0.44</b>		0.050		mg/L		07/06/23 08:24	07/13/23 18:04	1
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:37	1
<b>Calcium</b>	<b>89</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:37	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:37	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 22:37	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:37	1
<b>Lithium</b>	<b>0.031</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:37	1
<b>Molybdenum</b>	<b>0.012</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:37	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 22:37	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:37	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>610</b>		10		mg/L			07/06/23 10:59	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		20		mg/L			07/05/23 13:08	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.36</b>		0.10		mg/L			07/06/23 15:53	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>150</b>		50		mg/L			07/05/23 09:34	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>63.36</b>				ft			06/30/23 08:50	1
<b>Depth to Water (ft from MP)</b>	<b>66.33</b>				ft			06/30/23 08:50	1
<b>Elevation of well (ft from MP)</b>	<b>603.80</b>				ft			06/30/23 08:50	1
<b>Field pH</b>	<b>7.23</b>				SU			06/30/23 08:50	1
<b>Field Temperature</b>	<b>58.5</b>				Degrees F			06/30/23 08:50	1
<b>Ground Water Elevation</b>	<b>537.47</b>				ft			06/30/23 08:50	1
<b>Specific Conductance</b>	<b>930</b>				umhos/cm			06/30/23 08:50	1
<b>Well bottom elevation</b>	<b>471.05</b>				ft			06/30/23 08:50	1
<b>Field Turbidity</b>	<b>0.42</b>				NTU			06/30/23 08:50	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G48S**

**Lab Sample ID: 500-235842-14**

Date Collected: 06/30/23 09:39

Matrix: Water

Date Received: 06/30/23 14:53

**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		07/06/23 08:24	07/10/23 22:40	1
<b>Arsenic</b>	<b>0.011</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:40	1
<b>Barium</b>	<b>0.021</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:40	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:40	1
<b>Boron</b>	<b>6.4</b>		1.0		mg/L		07/06/23 08:24	07/13/23 18:07	20
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:40	1
<b>Calcium</b>	<b>39</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:40	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:40	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 22:40	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:40	1
<b>Lithium</b>	<b>0.028</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:40	1
<b>Molybdenum</b>	<b>0.32</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:40	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 22:40	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:40	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>850</b>		10		mg/L			07/06/23 11:20	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>91</b>		10		mg/L			07/05/23 13:08	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.89</b>		0.10		mg/L			07/06/23 16:17	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>380</b>		100		mg/L			07/05/23 09:34	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>102.08</b>				ft			06/30/23 09:39	1
<b>Depth to Water (ft from MP)</b>	<b>104.53</b>				ft			06/30/23 09:39	1
<b>Elevation of well (ft from MP)</b>	<b>620.77</b>				ft			06/30/23 09:39	1
<b>Field pH</b>	<b>8.03</b>				SU			06/30/23 09:39	1
<b>Field Temperature</b>	<b>62.6</b>				Degrees F			06/30/23 09:39	1
<b>Ground Water Elevation</b>	<b>516.24</b>				ft			06/30/23 09:39	1
<b>Specific Conductance</b>	<b>1455</b>				umhos/cm			06/30/23 09:39	1
<b>Well bottom elevation</b>	<b>468.32</b>				ft			06/30/23 09:39	1
<b>Field Turbidity</b>	<b>1.87</b>				NTU			06/30/23 09:39	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G47S**

**Lab Sample ID: 500-235842-15**

Date Collected: 06/30/23 10:48

Matrix: Water

Date Received: 06/30/23 14:53

**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		07/06/23 08:24	07/10/23 22:44	1
<b>Arsenic</b>	<b>0.038</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Barium</b>	<b>0.012</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:44	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Boron</b>	<b>7.7</b>		1.0		mg/L		07/06/23 08:24	07/13/23 18:11	20
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Calcium</b>	<b>12</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:44	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:44	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 22:44	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Lithium</b>	<b>0.052</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Molybdenum</b>	<b>0.55</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Selenium</b>	<b>0.0033</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:44	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:44	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00058</b>		0.00020		mg/L		07/14/23 14:35	07/17/23 12:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>970</b>		10		mg/L			07/06/23 11:23	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>96</b>		10		mg/L			07/05/23 13:08	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.64</b>		0.10		mg/L			07/06/23 16:21	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>470</b>		100		mg/L			07/05/23 09:35	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>92.55</b>				ft			06/30/23 10:48	1
<b>Depth to Water (ft from MP)</b>	<b>95.05</b>				ft			06/30/23 10:48	1
<b>Elevation of well (ft from MP)</b>	<b>612.23</b>				ft			06/30/23 10:48	1
<b>Field pH</b>	<b>8.30</b>				SU			06/30/23 10:48	1
<b>Field Temperature</b>	<b>56.8</b>				Degrees F			06/30/23 10:48	1
<b>Ground Water Elevation</b>	<b>517.18</b>				ft			06/30/23 10:48	1
<b>Specific Conductance</b>	<b>1630</b>				umhos/cm			06/30/23 10:48	1
<b>Well bottom elevation</b>	<b>459.84</b>				ft			06/30/23 10:48	1
<b>Field Turbidity</b>	<b>0.76</b>				NTU			06/30/23 10:48	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T03S**

**Lab Sample ID: 500-235842-16**

Date Collected: 06/30/23 11:54

Matrix: Water

Date Received: 06/30/23 14:53

**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		07/06/23 08:24	07/10/23 22:47	1
<b>Arsenic</b>	<b>0.0021</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:47	1
<b>Barium</b>	<b>0.077</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:47	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:47	1
<b>Boron</b>	<b>2.1</b>		0.25		mg/L		07/06/23 08:24	07/13/23 18:14	5
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:47	1
<b>Calcium</b>	<b>120</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:47	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:47	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 22:47	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:47	1
<b>Lithium</b>	<b>0.031</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:47	1
<b>Molybdenum</b>	<b>0.16</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:47	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 22:47	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:47	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>850</b>		10		mg/L			07/06/23 11:26	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		10		mg/L			07/05/23 13:09	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.20</b>		0.10		mg/L			07/06/23 16:26	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>230</b>		50		mg/L			07/05/23 09:35	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	137.19				ft			06/30/23 11:54	1
Depth to Water (ft from MP)	140.27				ft			06/30/23 11:54	1
Elevation of well (ft from MP)	629.85				ft			06/30/23 11:54	1
Field pH	7.40				SU			06/30/23 11:54	1
Field Temperature	58.3				Degrees F			06/30/23 11:54	1
Ground Water Elevation	489.58				ft			06/30/23 11:54	1
Specific Conductance	1331				umhos/cm			06/30/23 11:54	1
Well bottom elevation	456.70				ft			06/30/23 11:54	1
Field Turbidity	0.39				NTU			06/30/23 11:54	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: DUP**

**Lab Sample ID: 500-235842-17**

Date Collected: 06/30/23 11:54

Matrix: Water

Date Received: 06/30/23 14:53

**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		07/06/23 08:24	07/10/23 22:50	1
<b>Arsenic</b>	<b>0.0018</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:50	1
<b>Barium</b>	<b>0.086</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:50	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:50	1
<b>Boron</b>	<b>2.0</b>		0.25		mg/L		07/06/23 08:24	07/13/23 18:18	5
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:50	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:50	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:50	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 22:50	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:50	1
<b>Lithium</b>	<b>0.030</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:50	1
<b>Molybdenum</b>	<b>0.17</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:50	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 22:50	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:50	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>860</b>		10		mg/L			07/06/23 11:28	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		10		mg/L			07/05/23 13:09	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.20</b>		0.10		mg/L			07/06/23 16:31	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>210</b>		100		mg/L			07/05/23 09:35	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	137.19				ft			06/30/23 11:54	1
Depth to Water (ft from MP)	140.27				ft			06/30/23 11:54	1
Elevation of well (ft from MP)	629.85				ft			06/30/23 11:54	1
Field pH	7.40				SU			06/30/23 11:54	1
Field Temperature	58.3				Degrees F			06/30/23 11:54	1
Ground Water Elevation	489.58				ft			06/30/23 11:54	1
Specific Conductance	1331				umhos/cm			06/30/23 11:54	1
Well bottom elevation	456.70				ft			06/30/23 11:54	1
Field Turbidity	0.39				NTU			06/30/23 11:54	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T02S**

**Lab Sample ID: 500-235842-18**

Date Collected: 06/30/23 13:21

Matrix: Water

Date Received: 06/30/23 14:53

**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		07/06/23 08:24	07/10/23 22:54	1
<b>Arsenic</b>	<b>0.0081</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Barium</b>	<b>0.11</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:54	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Boron</b>	<b>4.8</b>		0.50		mg/L		07/06/23 08:24	07/13/23 18:21	10
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Calcium</b>	<b>88</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:54	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Cobalt</b>	<b>0.0033</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Lead</b>	<b>0.0043</b>		0.00050		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Lithium</b>	<b>0.034</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Molybdenum</b>	<b>0.37</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:54	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 22:54	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:54	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>870</b>		10		mg/L			07/06/23 11:31	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		10		mg/L			07/05/23 13:10	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.34</b>		0.10		mg/L			07/06/23 16:36	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>320</b>		50		mg/L			07/05/23 09:36	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	134.12				ft			06/30/23 13:21	1
Depth to Water (ft from MP)	136.45				ft			06/30/23 13:21	1
Elevation of well (ft from MP)	626.12				ft			06/30/23 13:21	1
Field pH	8.01				SU			06/30/23 13:21	1
Field Temperature	72.3				Degrees F			06/30/23 13:21	1
Ground Water Elevation	489.67				ft			06/30/23 13:21	1
Specific Conductance	1418				umhos/cm			06/30/23 13:21	1
Well bottom elevation	453.40				ft			06/30/23 13:21	1
Field Turbidity	32.70				NTU			06/30/23 13:21	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T08S**

**Lab Sample ID: 500-235842-19**

Date Collected: 07/03/23 09:08

Matrix: Water

Date Received: 07/03/23 14:15

**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		07/06/23 08:24	07/10/23 23:04	1
<b>Arsenic</b>	<b>0.020</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 23:04	1
<b>Barium</b>	<b>0.029</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 23:04	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 23:04	1
<b>Boron</b>	<b>4.5</b>		1.0		mg/L		07/06/23 08:24	07/13/23 18:25	20
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 23:04	1
<b>Calcium</b>	<b>23</b>		0.20		mg/L		07/06/23 08:24	07/10/23 23:04	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 23:04	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 23:04	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 23:04	1
<b>Lithium</b>	<b>0.040</b>		0.010		mg/L		07/06/23 08:24	07/10/23 23:04	1
<b>Molybdenum</b>	<b>0.80</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 23:04	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 23:04	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 23:04	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>930</b>		10		mg/L			07/06/23 11:34	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>89</b>		10		mg/L			07/05/23 13:10	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.68</b>		0.10		mg/L			07/06/23 16:41	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>480</b>		100		mg/L			07/05/23 09:36	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	128.52				ft			07/03/23 09:08	1
Depth to Water (ft from MP)	130.90				ft			07/03/23 09:08	1
Elevation of well (ft from MP)	627.55				ft			07/03/23 09:08	1
Field pH	8.90				SU			07/03/23 09:08	1
Field Temperature	60.1				Degrees F			07/03/23 09:08	1
Ground Water Elevation	496.65				ft			07/03/23 09:08	1
Specific Conductance	1520				umhos/cm			07/03/23 09:08	1
Well bottom elevation	447.38				ft			07/03/23 09:08	1
Field Turbidity	1.21				NTU			07/03/23 09:08	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T01S**

**Lab Sample ID: 500-235842-20**

Date Collected: 07/03/23 10:39

Matrix: Water

Date Received: 07/03/23 14:15

**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		07/06/23 08:24	07/10/23 23:08	1
<b>Arsenic</b>	<b>0.0086</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Barium</b>	<b>0.044</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 23:08	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Boron</b>	<b>4.7</b>		0.50		mg/L		07/06/23 08:24	07/13/23 18:28	10
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Calcium</b>	<b>49</b>		0.20		mg/L		07/06/23 08:24	07/10/23 23:08	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Cobalt</b>	<b>0.0014</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Lead</b>	<b>0.0011</b>		0.00050		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Lithium</b>	<b>0.012</b>		0.010		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Molybdenum</b>	<b>0.29</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 23:08	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 23:08	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 23:08	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>890</b>		10		mg/L			07/06/23 11:36	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>98</b>		10		mg/L			07/05/23 13:10	5
<b>Fluoride (SM 4500 F C)</b>	<b>1.1</b>		0.10		mg/L			07/06/23 16:45	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>410</b>		100		mg/L			07/05/23 09:36	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	123.54				ft			07/03/23 10:39	1
Depth to Water (ft from MP)	126.02				ft			07/03/23 10:39	1
Elevation of well (ft from MP)	621.84				ft			07/03/23 10:39	1
Field pH	7.90				SU			07/03/23 10:39	1
Field Temperature	67.8				Degrees F			07/03/23 10:39	1
Ground Water Elevation	495.82				ft			07/03/23 10:39	1
Specific Conductance	1435				umhos/cm			07/03/23 10:39	1
Well bottom elevation	451.46				ft			07/03/23 10:39	1
Field Turbidity	46.70				NTU			07/03/23 10:39	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T05S**

**Lab Sample ID: 500-235842-21**

Date Collected: 07/03/23 12:31

Matrix: Water

Date Received: 07/03/23 14:15

**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		07/06/23 08:24	07/10/23 23:11	1
<b>Arsenic</b>	<b>0.12</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Barium</b>	<b>0.0095</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 23:11	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Boron</b>	<b>13</b>		2.5		mg/L		07/06/23 08:24	07/13/23 18:32	50
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Calcium</b>	<b>1.5</b>		0.20		mg/L		07/06/23 08:24	07/10/23 23:11	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 23:11	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 23:11	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Lithium</b>	<b>0.024</b>		0.010		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Molybdenum</b>	<b>0.98</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Selenium</b>	<b>0.0058</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 23:11	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 23:11	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/17/23 10:15	07/18/23 07:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1500</b>		10		mg/L			07/06/23 11:39	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>140</b>		20		mg/L			07/05/23 13:27	10
<b>Fluoride (SM 4500 F C)</b>	<b>1.7</b>		0.10		mg/L			07/06/23 16:49	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>610</b>		100		mg/L			07/05/23 11:08	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	123.89				ft			07/03/23 12:31	1
Depth to Water (ft from MP)	126.29				ft			07/03/23 12:31	1
Elevation of well (ft from MP)	623.50				ft			07/03/23 12:31	1
Field pH	10.06				SU			07/03/23 12:31	1
Field Temperature	77.5				Degrees F			07/03/23 12:31	1
Ground Water Elevation	497.21				ft			07/03/23 12:31	1
Specific Conductance	2420				umhos/cm			07/03/23 12:31	1
Well bottom elevation	448.35				ft			07/03/23 12:31	1
Field Turbidity	1.69				NTU			07/03/23 12:31	1

# Definitions/Glossary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
^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 2Q23

Job ID: 500-235842-1

## Metals

### Prep Batch: 721251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total Recoverable	Water	3005A	
500-235842-2	T12S	Total Recoverable	Water	3005A	
500-235842-3	T09S	Total Recoverable	Water	3005A	
500-235842-4	T06S	Total Recoverable	Water	3005A	
500-235842-5	G20S	Total Recoverable	GW	3005A	
500-235842-6	R08S	Total Recoverable	GW	3005A	
500-235842-7	G33S	Total Recoverable	Water	3005A	
500-235842-8	G31S	Total Recoverable	Water	3005A	
500-235842-9	G30S	Total Recoverable	Water	3005A	
500-235842-10	R32S	Total Recoverable	Water	3005A	
500-235842-11	G44S	Total Recoverable	Water	3005A	
500-235842-12	G46S	Total Recoverable	Water	3005A	
MB 500-721251/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-721251/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 721484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total Recoverable	Water	6020A	721251
500-235842-2	T12S	Total Recoverable	Water	6020A	721251
500-235842-3	T09S	Total Recoverable	Water	6020A	721251
500-235842-4	T06S	Total Recoverable	Water	6020A	721251
500-235842-5	G20S	Total Recoverable	GW	6020A	721251
500-235842-6	R08S	Total Recoverable	GW	6020A	721251
500-235842-7	G33S	Total Recoverable	Water	6020A	721251
500-235842-8	G31S	Total Recoverable	Water	6020A	721251
500-235842-9	G30S	Total Recoverable	Water	6020A	721251
500-235842-10	R32S	Total Recoverable	Water	6020A	721251
500-235842-11	G44S	Total Recoverable	Water	6020A	721251
500-235842-12	G46S	Total Recoverable	Water	6020A	721251
MB 500-721251/1-A	Method Blank	Total Recoverable	Water	6020A	721251
LCS 500-721251/2-A	Lab Control Sample	Total Recoverable	Water	6020A	721251

### Prep Batch: 721843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-13	G45S	Total Recoverable	Water	3005A	
500-235842-14	G48S	Total Recoverable	Water	3005A	
500-235842-15	G47S	Total Recoverable	Water	3005A	
500-235842-16	T03S	Total Recoverable	Water	3005A	
500-235842-17	DUP	Total Recoverable	Water	3005A	
500-235842-18	T02S	Total Recoverable	Water	3005A	
500-235842-19	T08S	Total Recoverable	Water	3005A	
500-235842-20	T01S	Total Recoverable	Water	3005A	
500-235842-21	T05S	Total Recoverable	Water	3005A	
MB 500-721843/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-721843/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 722538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-13	G45S	Total Recoverable	Water	6020A	721843
500-235842-14	G48S	Total Recoverable	Water	6020A	721843
500-235842-15	G47S	Total Recoverable	Water	6020A	721843

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Metals (Continued)

### Analysis Batch: 722538 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-16	T03S	Total Recoverable	Water	6020A	721843
500-235842-17	DUP	Total Recoverable	Water	6020A	721843
500-235842-18	T02S	Total Recoverable	Water	6020A	721843
500-235842-19	T08S	Total Recoverable	Water	6020A	721843
500-235842-20	T01S	Total Recoverable	Water	6020A	721843
500-235842-21	T05S	Total Recoverable	Water	6020A	721843
MB 500-721843/1-A	Method Blank	Total Recoverable	Water	6020A	721843
LCS 500-721843/2-A	Lab Control Sample	Total Recoverable	Water	6020A	721843

### Analysis Batch: 723138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-13	G45S	Total Recoverable	Water	6020A	721843
500-235842-14	G48S	Total Recoverable	Water	6020A	721843
500-235842-15	G47S	Total Recoverable	Water	6020A	721843
500-235842-16	T03S	Total Recoverable	Water	6020A	721843
500-235842-17	DUP	Total Recoverable	Water	6020A	721843
500-235842-18	T02S	Total Recoverable	Water	6020A	721843
500-235842-19	T08S	Total Recoverable	Water	6020A	721843
500-235842-20	T01S	Total Recoverable	Water	6020A	721843
500-235842-21	T05S	Total Recoverable	Water	6020A	721843

### Prep Batch: 723161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	7470A	
500-235842-2	T12S	Total/NA	Water	7470A	
500-235842-3	T09S	Total/NA	Water	7470A	
500-235842-4	T06S	Total/NA	Water	7470A	
500-235842-5	G20S	Total/NA	GW	7470A	
500-235842-6	R08S	Total/NA	GW	7470A	
500-235842-7	G33S	Total/NA	Water	7470A	
500-235842-8	G31S	Total/NA	Water	7470A	
500-235842-9	G30S	Total/NA	Water	7470A	
500-235842-10	R32S	Total/NA	Water	7470A	
500-235842-11	G44S	Total/NA	Water	7470A	
500-235842-12	G46S	Total/NA	Water	7470A	
500-235842-13	G45S	Total/NA	Water	7470A	
500-235842-14	G48S	Total/NA	Water	7470A	
500-235842-15	G47S	Total/NA	Water	7470A	
500-235842-16	T03S	Total/NA	Water	7470A	
500-235842-17	DUP	Total/NA	Water	7470A	
500-235842-18	T02S	Total/NA	Water	7470A	
500-235842-19	T08S	Total/NA	Water	7470A	
500-235842-20	T01S	Total/NA	Water	7470A	
MB 500-723161/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-723161/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-235842-10 MS	R32S	Total/NA	Water	7470A	
500-235842-10 MSD	R32S	Total/NA	Water	7470A	
500-235842-10 DU	R32S	Total/NA	Water	7470A	



# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Metals

### Prep Batch: 723321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-21	T05S	Total/NA	Water	7470A	
MB 500-723321/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-723321/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 723380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	7470A	723161
500-235842-2	T12S	Total/NA	Water	7470A	723161
500-235842-3	T09S	Total/NA	Water	7470A	723161
500-235842-4	T06S	Total/NA	Water	7470A	723161
500-235842-5	G20S	Total/NA	GW	7470A	723161
500-235842-6	R08S	Total/NA	GW	7470A	723161
500-235842-7	G33S	Total/NA	Water	7470A	723161
500-235842-8	G31S	Total/NA	Water	7470A	723161
500-235842-9	G30S	Total/NA	Water	7470A	723161
500-235842-10	R32S	Total/NA	Water	7470A	723161
500-235842-11	G44S	Total/NA	Water	7470A	723161
500-235842-12	G46S	Total/NA	Water	7470A	723161
500-235842-13	G45S	Total/NA	Water	7470A	723161
500-235842-14	G48S	Total/NA	Water	7470A	723161
500-235842-15	G47S	Total/NA	Water	7470A	723161
500-235842-16	T03S	Total/NA	Water	7470A	723161
500-235842-17	DUP	Total/NA	Water	7470A	723161
500-235842-18	T02S	Total/NA	Water	7470A	723161
500-235842-19	T08S	Total/NA	Water	7470A	723161
500-235842-20	T01S	Total/NA	Water	7470A	723161
MB 500-723161/12-A	Method Blank	Total/NA	Water	7470A	723161
LCS 500-723161/13-A	Lab Control Sample	Total/NA	Water	7470A	723161
500-235842-10 MS	R32S	Total/NA	Water	7470A	723161
500-235842-10 MSD	R32S	Total/NA	Water	7470A	723161
500-235842-10 DU	R32S	Total/NA	Water	7470A	723161

### Analysis Batch: 723528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-21	T05S	Total/NA	Water	7470A	723321
MB 500-723321/12-A	Method Blank	Total/NA	Water	7470A	723321
LCS 500-723321/13-A	Lab Control Sample	Total/NA	Water	7470A	723321

### Analysis Batch: 723834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total Recoverable	Water	6020A	721251
500-235842-2	T12S	Total Recoverable	Water	6020A	721251
500-235842-2	T12S	Total Recoverable	Water	6020A	721251
500-235842-3	T09S	Total Recoverable	Water	6020A	721251
500-235842-3	T09S	Total Recoverable	Water	6020A	721251
500-235842-4	T06S	Total Recoverable	Water	6020A	721251
500-235842-5	G20S	Total Recoverable	GW	6020A	721251
500-235842-5	G20S	Total Recoverable	GW	6020A	721251
500-235842-6	R08S	Total Recoverable	GW	6020A	721251
500-235842-6	R08S	Total Recoverable	GW	6020A	721251
500-235842-7	G33S	Total Recoverable	Water	6020A	721251

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Metals (Continued)

### Analysis Batch: 723834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-7	G33S	Total Recoverable	Water	6020A	721251
500-235842-8	G31S	Total Recoverable	Water	6020A	721251
500-235842-8	G31S	Total Recoverable	Water	6020A	721251
500-235842-9	G30S	Total Recoverable	Water	6020A	721251
500-235842-9	G30S	Total Recoverable	Water	6020A	721251
500-235842-10	R32S	Total Recoverable	Water	6020A	721251
500-235842-10	R32S	Total Recoverable	Water	6020A	721251
500-235842-11	G44S	Total Recoverable	Water	6020A	721251
500-235842-11	G44S	Total Recoverable	Water	6020A	721251
500-235842-12	G46S	Total Recoverable	Water	6020A	721251
500-235842-12	G46S	Total Recoverable	Water	6020A	721251
MB 500-721251/1-A	Method Blank	Total Recoverable	Water	6020A	721251
LCS 500-721251/2-A	Lab Control Sample	Total Recoverable	Water	6020A	721251

## General Chemistry

### Analysis Batch: 720896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	SM 4500 CI- E	
500-235842-2	T12S	Total/NA	Water	SM 4500 CI- E	
500-235842-3	T09S	Total/NA	Water	SM 4500 CI- E	
500-235842-4	T06S	Total/NA	Water	SM 4500 CI- E	
MB 500-720896/112	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-720896/113	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-235842-4 MS	T06S	Total/NA	Water	SM 4500 CI- E	
500-235842-4 MSD	T06S	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 720956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	SM 2540C	
500-235842-2	T12S	Total/NA	Water	SM 2540C	
500-235842-3	T09S	Total/NA	Water	SM 2540C	
500-235842-4	T06S	Total/NA	Water	SM 2540C	
MB 500-720956/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-720956/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 720957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-5	G20S	Total/NA	GW	SM 2540C	
500-235842-6	R08S	Total/NA	GW	SM 2540C	
500-235842-7	G33S	Total/NA	Water	SM 2540C	
500-235842-8	G31S	Total/NA	Water	SM 2540C	
MB 500-720957/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-720957/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 720973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	SM 4500 F C	
500-235842-2	T12S	Total/NA	Water	SM 4500 F C	
500-235842-3	T09S	Total/NA	Water	SM 4500 F C	
500-235842-4	T06S	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 2Q23

Job ID: 500-235842-1

## General Chemistry (Continued)

### Analysis Batch: 720973 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-720973/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-720973/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-235842-1 MS	T13S	Total/NA	Water	SM 4500 F C	
500-235842-1 MSD	T13S	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 721056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	SM 4500 SO4 E	
500-235842-2	T12S	Total/NA	Water	SM 4500 SO4 E	
500-235842-3	T09S	Total/NA	Water	SM 4500 SO4 E	
500-235842-4	T06S	Total/NA	Water	SM 4500 SO4 E	
500-235842-5	G20S	Total/NA	GW	SM 4500 SO4 E	
500-235842-6	R08S	Total/NA	GW	SM 4500 SO4 E	
500-235842-7	G33S	Total/NA	Water	SM 4500 SO4 E	
500-235842-8	G31S	Total/NA	Water	SM 4500 SO4 E	
MB 500-721056/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-721056/43	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-721056/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-721056/44	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-235842-7 MS	G33S	Total/NA	Water	SM 4500 SO4 E	
500-235842-7 MSD	G33S	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 721120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-5	G20S	Total/NA	GW	SM 4500 CI- E	
500-235842-6	R08S	Total/NA	GW	SM 4500 CI- E	
500-235842-7	G33S	Total/NA	Water	SM 4500 CI- E	
500-235842-8	G31S	Total/NA	Water	SM 4500 CI- E	
MB 500-721120/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-721120/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 721291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-9	G30S	Total/NA	Water	SM 2540C	
500-235842-10	R32S	Total/NA	Water	SM 2540C	
500-235842-11	G44S	Total/NA	Water	SM 2540C	
500-235842-12	G46S	Total/NA	Water	SM 2540C	
MB 500-721291/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-721291/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 721581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-5	G20S	Total/NA	GW	SM 4500 F C	
500-235842-6	R08S	Total/NA	GW	SM 4500 F C	
500-235842-7	G33S	Total/NA	Water	SM 4500 F C	
500-235842-8	G31S	Total/NA	Water	SM 4500 F C	
500-235842-9	G30S	Total/NA	Water	SM 4500 F C	
500-235842-10	R32S	Total/NA	Water	SM 4500 F C	
500-235842-11	G44S	Total/NA	Water	SM 4500 F C	
500-235842-12	G46S	Total/NA	Water	SM 4500 F C	
MB 500-721581/3	Method Blank	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 2Q23

Job ID: 500-235842-1

## General Chemistry (Continued)

### Analysis Batch: 721581 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-721581/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-235842-5 MS	G20S	Total/NA	GW	SM 4500 F C	
500-235842-5 MSD	G20S	Total/NA	GW	SM 4500 F C	

### Analysis Batch: 721686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-9	G30S	Total/NA	Water	SM 4500 SO4 E	
500-235842-10	R32S	Total/NA	Water	SM 4500 SO4 E	
500-235842-11	G44S	Total/NA	Water	SM 4500 SO4 E	
500-235842-12	G46S	Total/NA	Water	SM 4500 SO4 E	
500-235842-13	G45S	Total/NA	Water	SM 4500 SO4 E	
500-235842-14	G48S	Total/NA	Water	SM 4500 SO4 E	
500-235842-15	G47S	Total/NA	Water	SM 4500 SO4 E	
500-235842-16	T03S	Total/NA	Water	SM 4500 SO4 E	
500-235842-17	DUP	Total/NA	Water	SM 4500 SO4 E	
500-235842-18	T02S	Total/NA	Water	SM 4500 SO4 E	
500-235842-19	T08S	Total/NA	Water	SM 4500 SO4 E	
500-235842-20	T01S	Total/NA	Water	SM 4500 SO4 E	
500-235842-21	T05S	Total/NA	Water	SM 4500 SO4 E	
MB 500-721686/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-721686/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-235842-21 MS	T05S	Total/NA	Water	SM 4500 SO4 E	
500-235842-21 MSD	T05S	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 721741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-9	G30S	Total/NA	Water	SM 4500 Cl- E	
500-235842-10	R32S	Total/NA	Water	SM 4500 Cl- E	
500-235842-11	G44S	Total/NA	Water	SM 4500 Cl- E	
500-235842-12	G46S	Total/NA	Water	SM 4500 Cl- E	
500-235842-13	G45S	Total/NA	Water	SM 4500 Cl- E	
500-235842-14	G48S	Total/NA	Water	SM 4500 Cl- E	
500-235842-15	G47S	Total/NA	Water	SM 4500 Cl- E	
500-235842-16	T03S	Total/NA	Water	SM 4500 Cl- E	
500-235842-17	DUP	Total/NA	Water	SM 4500 Cl- E	
500-235842-18	T02S	Total/NA	Water	SM 4500 Cl- E	
500-235842-19	T08S	Total/NA	Water	SM 4500 Cl- E	
500-235842-20	T01S	Total/NA	Water	SM 4500 Cl- E	
500-235842-21	T05S	Total/NA	Water	SM 4500 Cl- E	
MB 500-721741/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-721741/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-235842-21 MS	T05S	Total/NA	Water	SM 4500 Cl- E	
500-235842-21 MSD	T05S	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 721901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-13	G45S	Total/NA	Water	SM 2540C	
500-235842-14	G48S	Total/NA	Water	SM 2540C	
500-235842-15	G47S	Total/NA	Water	SM 2540C	
500-235842-16	T03S	Total/NA	Water	SM 2540C	
500-235842-17	DUP	Total/NA	Water	SM 2540C	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## General Chemistry (Continued)

### Analysis Batch: 721901 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-18	T02S	Total/NA	Water	SM 2540C	
500-235842-19	T08S	Total/NA	Water	SM 2540C	
500-235842-20	T01S	Total/NA	Water	SM 2540C	
500-235842-21	T05S	Total/NA	Water	SM 2540C	
MB 500-721901/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-721901/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-235842-13 DU	G45S	Total/NA	Water	SM 2540C	

### Analysis Batch: 721992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-13	G45S	Total/NA	Water	SM 4500 F C	
500-235842-14	G48S	Total/NA	Water	SM 4500 F C	
500-235842-15	G47S	Total/NA	Water	SM 4500 F C	
500-235842-16	T03S	Total/NA	Water	SM 4500 F C	
500-235842-17	DUP	Total/NA	Water	SM 4500 F C	
500-235842-18	T02S	Total/NA	Water	SM 4500 F C	
500-235842-19	T08S	Total/NA	Water	SM 4500 F C	
500-235842-20	T01S	Total/NA	Water	SM 4500 F C	
500-235842-21	T05S	Total/NA	Water	SM 4500 F C	
MB 500-721992/8	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-721992/9	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-235842-13 MS	G45S	Total/NA	Water	SM 4500 F C	
500-235842-13 MSD	G45S	Total/NA	Water	SM 4500 F C	

## Field Service / Mobile Lab

### Analysis Batch: 721522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	Field Sampling	
500-235842-2	T12S	Total/NA	Water	Field Sampling	
500-235842-3	T09S	Total/NA	Water	Field Sampling	
500-235842-4	T06S	Total/NA	Water	Field Sampling	
500-235842-5	G20S	Total/NA	GW	Field Sampling	
500-235842-6	R08S	Total/NA	GW	Field Sampling	
500-235842-7	G33S	Total/NA	Water	Field Sampling	
500-235842-8	G31S	Total/NA	Water	Field Sampling	
500-235842-9	G30S	Total/NA	Water	Field Sampling	
500-235842-10	R32S	Total/NA	Water	Field Sampling	
500-235842-11	G44S	Total/NA	Water	Field Sampling	
500-235842-12	G46S	Total/NA	Water	Field Sampling	
500-235842-13	G45S	Total/NA	Water	Field Sampling	
500-235842-14	G48S	Total/NA	Water	Field Sampling	
500-235842-15	G47S	Total/NA	Water	Field Sampling	
500-235842-16	T03S	Total/NA	Water	Field Sampling	
500-235842-17	DUP	Total/NA	Water	Field Sampling	
500-235842-18	T02S	Total/NA	Water	Field Sampling	
500-235842-19	T08S	Total/NA	Water	Field Sampling	
500-235842-20	T01S	Total/NA	Water	Field Sampling	
500-235842-21	T05S	Total/NA	Water	Field Sampling	

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

**Lab Sample ID: MB 500-721251/1-A**  
**Matrix: Water**  
**Analysis Batch: 721484**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721251**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 18:28	1
Arsenic	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 18:28	1
Barium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 18:28	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 18:28	1
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 18:28	1
Calcium	<0.20		0.20		mg/L		06/30/23 09:01	06/30/23 18:28	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 18:28	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 18:28	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 18:28	1
Molybdenum	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 18:28	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 18:28	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 18:28	1

**Lab Sample ID: MB 500-721251/1-A**  
**Matrix: Water**  
**Analysis Batch: 723834**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721251**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		06/30/23 09:01	07/19/23 15:11	1
Lithium	<0.010		0.010		mg/L		06/30/23 09:01	07/19/23 15:11	1

**Lab Sample ID: LCS 500-721251/2-A**  
**Matrix: Water**  
**Analysis Batch: 721484**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721251**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	2.00	2.03		mg/L		102	80 - 120
Beryllium	0.0500	0.0551		mg/L		110	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Calcium	10.0	10.7		mg/L		107	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.540		mg/L		108	80 - 120
Lead	0.100	0.110		mg/L		110	80 - 120
Molybdenum	1.00	0.997		mg/L		100	80 - 120
Selenium	0.100	0.0982		mg/L		98	80 - 120
Thallium	0.100	0.111		mg/L		111	80 - 120

**Lab Sample ID: LCS 500-721251/2-A**  
**Matrix: Water**  
**Analysis Batch: 723834**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721251**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.530		mg/L		106	80 - 120

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

**Lab Sample ID: MB 500-721843/1-A**  
**Matrix: Water**  
**Analysis Batch: 722538**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721843**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/06/23 08:24	07/10/23 21:48	1
Arsenic	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 21:48	1
Barium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 21:48	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 21:48	1
Boron	<0.050		0.050		mg/L		07/06/23 08:24	07/10/23 21:48	1
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 21:48	1
Calcium	<0.20		0.20		mg/L		07/06/23 08:24	07/10/23 21:48	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 21:48	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 21:48	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 21:48	1
Lithium	<0.010		0.010		mg/L		07/06/23 08:24	07/10/23 21:48	1
Molybdenum	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 21:48	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 21:48	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 21:48	1

**Lab Sample ID: LCS 500-721843/2-A**  
**Matrix: Water**  
**Analysis Batch: 722538**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721843**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.509		mg/L		102	80 - 120
Arsenic	0.100	0.0999		mg/L		100	80 - 120
Barium	2.00	1.96		mg/L		98	80 - 120
Beryllium	0.0500	0.0534	^1+	mg/L		107	80 - 120
Boron	1.00	1.07		mg/L		107	80 - 120
Cadmium	0.0500	0.0509		mg/L		102	80 - 120
Calcium	10.0	10.4		mg/L		104	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Lithium	0.500	0.555		mg/L		111	80 - 120
Molybdenum	1.00	0.982		mg/L		98	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-723161/12-A**  
**Matrix: Water**  
**Analysis Batch: 723380**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 723161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:22	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-723161/13-A  
 Matrix: Water  
 Analysis Batch: 723380

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 723161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00193		mg/L		97	80 - 120

Lab Sample ID: 500-235842-10 MS  
 Matrix: Water  
 Analysis Batch: 723380

Client Sample ID: R32S  
 Prep Type: Total/NA  
 Prep Batch: 723161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00109		mg/L		109	75 - 125

Lab Sample ID: 500-235842-10 MSD  
 Matrix: Water  
 Analysis Batch: 723380

Client Sample ID: R32S  
 Prep Type: Total/NA  
 Prep Batch: 723161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.00103		mg/L		103	75 - 125	6	20

Lab Sample ID: 500-235842-10 DU  
 Matrix: Water  
 Analysis Batch: 723380

Client Sample ID: R32S  
 Prep Type: Total/NA  
 Prep Batch: 723161

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 500-723321/12-A  
 Matrix: Water  
 Analysis Batch: 723528

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 723321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/17/23 10:15	07/18/23 07:48	1

Lab Sample ID: LCS 500-723321/13-A  
 Matrix: Water  
 Analysis Batch: 723528

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 723321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00197		mg/L		99	80 - 120

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

Lab Sample ID: MB 500-720956/1  
 Matrix: Water  
 Analysis Batch: 720956

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			06/28/23 20:39	1



# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

**Lab Sample ID: LCS 500-720956/2**  
**Matrix: Water**  
**Analysis Batch: 720956**

**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	228		mg/L		91	80 - 120

**Lab Sample ID: MB 500-720957/1**  
**Matrix: Water**  
**Analysis Batch: 720957**

**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			06/28/23 21:56	1

**Lab Sample ID: LCS 500-720957/2**  
**Matrix: Water**  
**Analysis Batch: 720957**

**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	236		mg/L		94	80 - 120

**Lab Sample ID: MB 500-721291/1**  
**Matrix: Water**  
**Analysis Batch: 721291**

**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			06/30/23 11:55	1

**Lab Sample ID: LCS 500-721291/2**  
**Matrix: Water**  
**Analysis Batch: 721291**

**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	254		mg/L		102	80 - 120

**Lab Sample ID: MB 500-721901/1**  
**Matrix: Water**  
**Analysis Batch: 721901**

**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			07/06/23 10:44	1

**Lab Sample ID: LCS 500-721901/2**  
**Matrix: Water**  
**Analysis Batch: 721901**

**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	276		mg/L		110	80 - 120

**Lab Sample ID: 500-235842-13 DU**  
**Matrix: Water**  
**Analysis Batch: 721901**

**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	610		608		mg/L		0.7	5

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Method: SM 4500 Cl- E - Chloride, Total

**Lab Sample ID: MB 500-720896/112**  
**Matrix: Water**  
**Analysis Batch: 720896**

**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			06/28/23 13:49	1

**Lab Sample ID: LCS 500-720896/113**  
**Matrix: Water**  
**Analysis Batch: 720896**

**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	19.9		mg/L		100	85 - 115

**Lab Sample ID: 500-235842-4 MS**  
**Matrix: Water**  
**Analysis Batch: 720896**

**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	13		20.0	30.2		mg/L		87	75 - 125

**Lab Sample ID: 500-235842-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 720896**

**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	13		20.0	30.5		mg/L		89	75 - 125	1	20

**Lab Sample ID: MB 500-721120/16**  
**Matrix: Water**  
**Analysis Batch: 721120**

**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			06/29/23 12:25	1

**Lab Sample ID: LCS 500-721120/17**  
**Matrix: Water**  
**Analysis Batch: 721120**

**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	19.2		mg/L		96	85 - 115

**Lab Sample ID: MB 500-721741/16**  
**Matrix: Water**  
**Analysis Batch: 721741**

**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			07/05/23 13:06	1

**Lab Sample ID: LCS 500-721741/17**  
**Matrix: Water**  
**Analysis Batch: 721741**

**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	19.9		mg/L		99	85 - 115

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: 500-235842-21 MS  
 Matrix: Water  
 Analysis Batch: 721741

Client Sample ID: T05S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	140		20.0	155	4	mg/L		83	75 - 125

Lab Sample ID: 500-235842-21 MSD  
 Matrix: Water  
 Analysis Batch: 721741

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
Chloride	140		20.0	154	4	mg/L		76	75 - 125	1	20

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-720973/31  
 Matrix: Water  
 Analysis Batch: 720973

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			06/28/23 17:22	1

Lab Sample ID: LCS 500-720973/32  
 Matrix: Water  
 Analysis Batch: 720973

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: MB 500-721581/3  
 Matrix: Water  
 Analysis Batch: 721581

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			06/30/23 14:22	1

Lab Sample ID: LCS 500-721581/4  
 Matrix: Water  
 Analysis Batch: 721581

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	10.5		mg/L		105	90 - 119

Lab Sample ID: 500-235842-5 MS  
 Matrix: GW  
 Analysis Batch: 721581

Client Sample ID: G20S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.78		5.00	5.83		mg/L		101	75 - 125

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Method: SM 4500 F C - Fluoride (Continued)

**Lab Sample ID: 500-235842-5 MSD**  
**Matrix: GW**  
**Analysis Batch: 721581**

**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
Fluoride	0.78		5.00	5.84		mg/L		101	75 - 125	0	20

**Lab Sample ID: MB 500-721992/8**  
**Matrix: Water**  
**Analysis Batch: 721992**

**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			07/06/23 15:42	1

**Lab Sample ID: LCS 500-721992/9**  
**Matrix: Water**  
**Analysis Batch: 721992**

**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	10.0		mg/L		100	90 - 119

**Lab Sample ID: 500-235842-13 MS**  
**Matrix: Water**  
**Analysis Batch: 721992**

**Client Sample ID: G45S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.36		5.00	5.67		mg/L		106	75 - 125

**Lab Sample ID: 500-235842-13 MSD**  
**Matrix: Water**  
**Analysis Batch: 721992**

**Client Sample ID: G45S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.36		5.00	5.34		mg/L		100	75 - 125	6	20

## Method: SM 4500 SO4 E - Sulfate, Total

**Lab Sample ID: MB 500-721056/16**  
**Matrix: Water**  
**Analysis Batch: 721056**

**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			06/29/23 09:01	1

**Lab Sample ID: MB 500-721056/43**  
**Matrix: Water**  
**Analysis Batch: 721056**

**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			06/29/23 09:09	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Method: SM 4500 SO4 E - Sulfate, Total (Continued)

**Lab Sample ID: LCS 500-721056/17**  
**Matrix: Water**  
**Analysis Batch: 721056**

**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	19.1		mg/L		96	88 - 123

**Lab Sample ID: LCS 500-721056/44**  
**Matrix: Water**  
**Analysis Batch: 721056**

**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	20.3		mg/L		101	88 - 123

**Lab Sample ID: 500-235842-7 MS**  
**Matrix: Water**  
**Analysis Batch: 721056**

**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	73	F1	20.0	91.2		mg/L		89	75 - 125

**Lab Sample ID: 500-235842-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 721056**

**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	Limit
Sulfate	73	F1	20.0	88.1	F1	mg/L		74	75 - 125	4	20

**Lab Sample ID: MB 500-721686/16**  
**Matrix: Water**  
**Analysis Batch: 721686**

**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			07/05/23 09:30	1

**Lab Sample ID: LCS 500-721686/17**  
**Matrix: Water**  
**Analysis Batch: 721686**

**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	20.5		mg/L		103	88 - 123

**Lab Sample ID: 500-235842-21 MS**  
**Matrix: Water**  
**Analysis Batch: 721686**

**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	610		20.0	600	4	mg/L		-37	75 - 125

**Lab Sample ID: 500-235842-21 MSD**  
**Matrix: Water**  
**Analysis Batch: 721686**

**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	Limit
Sulfate	610		20.0	594	4	mg/L		-67	75 - 125	1	20

Eurofins Chicago

# Chain of Custody Record 641387




Environment Testing  
America

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 <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 228</i> <i>Radium 226</i> <i>Combined 226/228</i> <i>TDS, F, Cl, SO4</i> <i>Metals: Hg, Mn, Cr, Pb, Cd</i>			 500-235842 COC		Sampler For Lab Use Only Walk-in Client Lab Sampling		Job / SDG No <i>500-735042</i>	
City/State/Zip <i>Joliet IL</i>													
Phone													
Fax													
Project Name <i>Joliet #9 CCR</i>													
Site <i>2023 GW + Turbidity</i>		Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes				
P O #		1		<i>T130</i>	<i>06/27/23 0931</i>		<i>W</i>	<i>5</i>					
		2		<i>T125</i>	<i>06/27/23 1117</i>		<i>W</i>	<i>5</i>					
		3		<i>T095</i>	<i>06/27/23 1212</i>		<i>W</i>	<i>5</i>					
		4		<i>T065</i>	<i>06/27/23 1333</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-Hazardous <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: <div style="text-align: right; font-size: 1.2em; font-weight: bold;">4874A</div>													
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>06/27/23 1500</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 Hernandez</i>		Company <i>EETA</i>		Date/Time <i>6/27/23 1500</i>		



# Chain of Custody Record 641388



Environment Testing  
America

Address \_\_\_\_\_  
\_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

500-235842 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) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FL, Cl, SO4</i>			_____ 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	
Project Name <i>Joliet #9 CCR</i>								Lab Sampling	
Site <i>2023 GW + Turbidity</i>					Job / SDG No				
P O #					<i>500-235842</i>				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>G205</i>		<i>06/28/23</i>	<i>0903</i>			<i>5</i>			
<i>R085</i>		<i>06/28/23</i>	<i>1222</i>			<i>5</i>			
<i>G335</i>		<i>06/28/23</i>	<i>1343</i>			<i>5</i>			
<i>G315</i>		<i>06/28/23</i>	<i>1439</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>3.0</i> Cor'd <i>3.2</i>		Therm ID No _____		
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>06/28/23</i>	Received by <i>1537</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		Date/Time <i>6/28/23 1537</i>

500-235842

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# Chain of Custody Record 641389



Environment Testing  
America

TAL-8210

Address \_\_\_\_\_  
\_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b>		<b>Project Manager</b>		<b>Site Contact</b>		<b>Date</b>		<b>COC No</b>	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		<b>Analysis Turnaround Time</b>		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>		 500-235842 COC		Sampler: For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-235842</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>Solet #9 CCR</i>									
Site <i>2Q23 GW + Turbidity</i>									
P O #									
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b> (C=Comp, G=Grab)	<b>Matrix</b>	<b># of Cont.</b>			<b>Sample Specific Notes</b>
<i>G305</i>		<i>06/29/23</i>	<i>0841</i>		<i>W</i>	<i>5</i>			
<i>R325</i>		<i>06/29/23</i>	<i>1039</i>		<i>W</i>	<i>5</i>			
<i>G445</i>		<i>06/29/23</i>	<i>1137</i>		<i>W</i>	<i>5</i>			
<i>G465</i>		<i>06/29/23</i>	<i>1309</i>		<i>W</i>	<i>5</i>			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
<b>Possible Hazard Identification:</b> 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					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<b>Special Instructions/QC Requirements &amp; Comments</b> _____									
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>4.1</i> Corr'd <i>3.7</i>		Therm ID No _____			
Relinquished by: <i>GP</i>		Company: <i>EGTA</i>		Date/Time: <i>06/29/23 1415</i>		Received by:		Company: _____	
Relinquished by:		Company:		Date/Time:		Received by:		Company: _____	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>the kids</i>		Company: <i>EGTA</i> Date/Time: <i>06/29/23 1415</i>	

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# Chain of Custody Record 641390



Environment Testing  
America

500-235842 COC

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 Elements + Hg</i> <i>TDS, F, Cl, SO4</i>				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 _____	
Fax								Lab Sampling _____	
Project Name <i>Joliet #9 CCR</i>								Job / SDG No	
Site <i>2Q23 64 + Turbidity</i>				<i>500-235842</i>					
P O #									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes			
<i>G45S</i>	<i>06/30/23</i>	<i>0850</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>G48S</i>	<i>06/30/23</i>	<i>0939</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>G47S</i>	<i>06/30/23</i>	<i>1048</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T03S</i>	<i>06/30/23</i>	<i>1154</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>DUP of T03S</i>	<i>06/30/23</i>	<i>1154</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T02S</i>	<i>06/30/23</i>	<i>1321</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 _____ Cor'd _____		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>06/30/23 1453</i>		Received by <i>1453</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>06/30/23 1453</i>	



# Chain of Custody Record 641391




Environment Testing  
America

Address \_\_\_\_\_  
\_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager:		Site Contact:		Date		COC No	
Company Name <i>Midwest Generation EPE LLC</i>		Tel/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 _____		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>		 500-235842 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>								For Lab Use Only: Walk-in Client _____ Lab Sampling _____	
Phone		Project Name <i>Joliet #9 CCR</i>		Site <i>2023 GW + Turbidity</i>		Job / SDG No <i>500-235842</i>		Sample Specific Notes	
Fax		P O #							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.				
<i>T08S</i>	<i>07/03/23</i>	<i>0908</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T01S</i>	<i>07/03/23</i>	<i>1039</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T05S</i>	<i>07/03/23</i>	<i>1231</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>1.7</i> Corr'd <i>1.4</i>		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>07/03/23 1415</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>7/3/23 1415</i>	

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# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-235842-1

**Login Number: 235842**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	4.4,3.2,3.7,3.9,1.0,1.4
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	

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T13S**

**Lab Sample ID: 500-235842-1**

**Date Collected: 06/27/23 09:31**

**Matrix: Water**

**Date Received: 06/27/23 15:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:23
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 15:18
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:27
Total/NA	Analysis	SM 2540C		1	720956	CLB	EET CHI	06/28/23 21:30
Total/NA	Analysis	SM 4500 Cl- E		1	720896	MM	EET CHI	06/28/23 13:52
Total/NA	Analysis	SM 4500 F C		1	720973	EH	EET CHI	06/28/23 17:33
Total/NA	Analysis	SM 4500 SO4 E		10	721056	MM	EET CHI	06/29/23 09:27
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/27/23 09:31

**Client Sample ID: T12S**

**Lab Sample ID: 500-235842-2**

**Date Collected: 06/27/23 11:17**

**Matrix: Water**

**Date Received: 06/27/23 15:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:27
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723834	FXG	EET CHI	07/19/23 15:21
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:25
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:29
Total/NA	Analysis	SM 2540C		1	720956	CLB	EET CHI	06/28/23 21:33
Total/NA	Analysis	SM 4500 Cl- E		5	720896	MM	EET CHI	06/28/23 14:19
Total/NA	Analysis	SM 4500 F C		1	720973	EH	EET CHI	06/28/23 17:47
Total/NA	Analysis	SM 4500 SO4 E		10	721056	MM	EET CHI	06/29/23 09:28
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/27/23 11:17

**Client Sample ID: T09S**

**Lab Sample ID: 500-235842-3**

**Date Collected: 06/27/23 12:12**

**Matrix: Water**

**Date Received: 06/27/23 15:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:30
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723834	FXG	EET CHI	07/19/23 15:25
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:29
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:31

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: T09S

Lab Sample ID: 500-235842-3

Date Collected: 06/27/23 12:12

Matrix: Water

Date Received: 06/27/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	720956	CLB	EET CHI	06/28/23 21:35
Total/NA	Analysis	SM 4500 CI- E		2	720896	MM	EET CHI	06/28/23 13:53
Total/NA	Analysis	SM 4500 F C		1	720973	EH	EET CHI	06/28/23 18:02
Total/NA	Analysis	SM 4500 SO4 E		20	721056	MM	EET CHI	06/29/23 09:07
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/27/23 12:12

## Client Sample ID: T06S

Lab Sample ID: 500-235842-4

Date Collected: 06/27/23 13:33

Matrix: Water

Date Received: 06/27/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:34
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 15:28
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:33
Total/NA	Analysis	SM 2540C		1	720956	CLB	EET CHI	06/28/23 21:38
Total/NA	Analysis	SM 4500 CI- E		1	720896	MM	EET CHI	06/28/23 13:53
Total/NA	Analysis	SM 4500 F C		1	720973	EH	EET CHI	06/28/23 18:07
Total/NA	Analysis	SM 4500 SO4 E		5	721056	MM	EET CHI	06/29/23 09:08
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/27/23 13:33

## Client Sample ID: G20S

Lab Sample ID: 500-235842-5

Date Collected: 06/28/23 09:03

Matrix: GW

Date Received: 06/28/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:44
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723834	FXG	EET CHI	07/19/23 15:32
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:32
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:35
Total/NA	Analysis	SM 2540C		1	720957	CLB	EET CHI	06/28/23 22:34
Total/NA	Analysis	SM 4500 CI- E		2	721120	MM	EET CHI	06/29/23 12:26
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 14:31
Total/NA	Analysis	SM 4500 SO4 E		10	721056	MM	EET CHI	06/29/23 09:09
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/28/23 09:03

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: R08S**

**Lab Sample ID: 500-235842-6**

**Date Collected: 06/28/23 12:22**

**Matrix: GW**

**Date Received: 06/28/23 15:37**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:47
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723834	FXG	EET CHI	07/19/23 15:35
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:36
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:37
Total/NA	Analysis	SM 2540C		1	720957	CLB	EET CHI	06/28/23 22:37
Total/NA	Analysis	SM 4500 CI- E		5	721120	MM	EET CHI	06/29/23 12:26
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 14:44
Total/NA	Analysis	SM 4500 SO4 E		20	721056	MM	EET CHI	06/29/23 09:09
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/28/23 12:22

**Client Sample ID: G33S**

**Lab Sample ID: 500-235842-7**

**Date Collected: 06/28/23 13:43**

**Matrix: Water**

**Date Received: 06/28/23 15:37**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:51
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723834	FXG	EET CHI	07/19/23 15:46
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:39
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:39
Total/NA	Analysis	SM 2540C		1	720957	CLB	EET CHI	06/28/23 22:39
Total/NA	Analysis	SM 4500 CI- E		1	721120	MM	EET CHI	06/29/23 12:26
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 14:49
Total/NA	Analysis	SM 4500 SO4 E		2	721056	MM	EET CHI	06/29/23 09:28
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/28/23 13:43

**Client Sample ID: G31S**

**Lab Sample ID: 500-235842-8**

**Date Collected: 06/28/23 14:39**

**Matrix: Water**

**Date Received: 06/28/23 15:37**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:54
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723834	FXG	EET CHI	07/19/23 15:49
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:43

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: G31S

## Lab Sample ID: 500-235842-8

Date Collected: 06/28/23 14:39

Matrix: Water

Date Received: 06/28/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:46
Total/NA	Analysis	SM 2540C		1	720957	CLB	EET CHI	06/28/23 22:42
Total/NA	Analysis	SM 4500 CI- E		10	721120	MM	EET CHI	06/29/23 12:26
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 14:54
Total/NA	Analysis	SM 4500 SO4 E		20	721056	MM	EET CHI	06/29/23 09:28
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/28/23 14:39

## Client Sample ID: G30S

## Lab Sample ID: 500-235842-9

Date Collected: 06/29/23 08:41

Matrix: Water

Date Received: 06/29/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:58
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	723834	FXG	EET CHI	07/19/23 15:53
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:46
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:48
Total/NA	Analysis	SM 2540C		1	721291	MB	EET CHI	06/30/23 12:19
Total/NA	Analysis	SM 4500 CI- E		10	721741	MM	EET CHI	07/05/23 13:06
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 14:59
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 10:07
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/29/23 08:41

## Client Sample ID: R32S

## Lab Sample ID: 500-235842-10

Date Collected: 06/29/23 10:39

Matrix: Water

Date Received: 06/29/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 20:01
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723834	FXG	EET CHI	07/19/23 15:56
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:50
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:50
Total/NA	Analysis	SM 2540C		1	721291	MB	EET CHI	06/30/23 12:22
Total/NA	Analysis	SM 4500 CI- E		2	721741	MM	EET CHI	07/05/23 13:07
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 15:03

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: R32S

Date Collected: 06/29/23 10:39

Date Received: 06/29/23 14:15

## Lab Sample ID: 500-235842-10

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	721686	MM	EET CHI	07/05/23 10:08
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/29/23 10:39

## Client Sample ID: G44S

Date Collected: 06/29/23 11:37

Date Received: 06/29/23 14:15

## Lab Sample ID: 500-235842-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 20:05
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723834	FXG	EET CHI	07/19/23 16:00
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:53
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:58
Total/NA	Analysis	SM 2540C		1	721291	MB	EET CHI	06/30/23 12:26
Total/NA	Analysis	SM 4500 CI- E		2	721741	MM	EET CHI	07/05/23 13:07
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 15:18
Total/NA	Analysis	SM 4500 SO4 E		10	721686	MM	EET CHI	07/05/23 09:33
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/29/23 11:37

## Client Sample ID: G46S

Date Collected: 06/29/23 13:09

Date Received: 06/29/23 14:15

## Lab Sample ID: 500-235842-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 20:08
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723834	FXG	EET CHI	07/19/23 16:04
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:57
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:01
Total/NA	Analysis	SM 2540C		1	721291	MB	EET CHI	06/30/23 12:29
Total/NA	Analysis	SM 4500 CI- E		2	721741	MM	EET CHI	07/05/23 13:07
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 15:23
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 09:34
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/29/23 13:09



# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G45S**

**Lab Sample ID: 500-235842-13**

**Date Collected: 06/30/23 08:50**

**Matrix: Water**

**Date Received: 06/30/23 14:53**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:37
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723138	FXG	EET CHI	07/13/23 18:04
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:03
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 10:59
Total/NA	Analysis	SM 4500 Cl- E		10	721741	MM	EET CHI	07/05/23 13:08
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 15:53
Total/NA	Analysis	SM 4500 SO4 E		10	721686	MM	EET CHI	07/05/23 09:34
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 08:50

**Client Sample ID: G48S**

**Lab Sample ID: 500-235842-14**

**Date Collected: 06/30/23 09:39**

**Matrix: Water**

**Date Received: 06/30/23 14:53**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:40
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723138	FXG	EET CHI	07/13/23 18:07
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:05
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:20
Total/NA	Analysis	SM 4500 Cl- E		5	721741	MM	EET CHI	07/05/23 13:08
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:17
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 09:34
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 09:39

**Client Sample ID: G47S**

**Lab Sample ID: 500-235842-15**

**Date Collected: 06/30/23 10:48**

**Matrix: Water**

**Date Received: 06/30/23 14:53**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:44
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723138	FXG	EET CHI	07/13/23 18:11
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:11
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:23
Total/NA	Analysis	SM 4500 Cl- E		5	721741	MM	EET CHI	07/05/23 13:08
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:21

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: G47S

Date Collected: 06/30/23 10:48

Date Received: 06/30/23 14:53

## Lab Sample ID: 500-235842-15

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	721686	MM	EET CHI	07/05/23 09:35
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 10:48

## Client Sample ID: T03S

Date Collected: 06/30/23 11:54

Date Received: 06/30/23 14:53

## Lab Sample ID: 500-235842-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:47
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723138	FXG	EET CHI	07/13/23 18:14
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:13
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:26
Total/NA	Analysis	SM 4500 CI- E		5	721741	MM	EET CHI	07/05/23 13:09
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:26
Total/NA	Analysis	SM 4500 SO4 E		10	721686	MM	EET CHI	07/05/23 09:35
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 11:54

## Client Sample ID: DUP

Date Collected: 06/30/23 11:54

Date Received: 06/30/23 14:53

## Lab Sample ID: 500-235842-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:50
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723138	FXG	EET CHI	07/13/23 18:18
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:15
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:28
Total/NA	Analysis	SM 4500 CI- E		5	721741	MM	EET CHI	07/05/23 13:09
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:31
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 09:35
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 11:54

## Client Sample ID: T02S

Date Collected: 06/30/23 13:21

Date Received: 06/30/23 14:53

## Lab Sample ID: 500-235842-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:54

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: T02S

Date Collected: 06/30/23 13:21

Date Received: 06/30/23 14:53

## Lab Sample ID: 500-235842-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	723138	FXG	EET CHI	07/13/23 18:21
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:18
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:31
Total/NA	Analysis	SM 4500 CI- E		5	721741	MM	EET CHI	07/05/23 13:10
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:36
Total/NA	Analysis	SM 4500 SO4 E		10	721686	MM	EET CHI	07/05/23 09:36
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 13:21

## Client Sample ID: T08S

Date Collected: 07/03/23 09:08

Date Received: 07/03/23 14:15

## Lab Sample ID: 500-235842-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 23:04
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723138	FXG	EET CHI	07/13/23 18:25
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:20
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:34
Total/NA	Analysis	SM 4500 CI- E		5	721741	MM	EET CHI	07/05/23 13:10
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:41
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 09:36
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	07/03/23 09:08

## Client Sample ID: T01S

Date Collected: 07/03/23 10:39

Date Received: 07/03/23 14:15

## Lab Sample ID: 500-235842-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 23:08
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	723138	FXG	EET CHI	07/13/23 18:28
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:22
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:36
Total/NA	Analysis	SM 4500 CI- E		5	721741	MM	EET CHI	07/05/23 13:10
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:45
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 09:36
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	07/03/23 10:39

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T05S**

**Lab Sample ID: 500-235842-21**

**Date Collected: 07/03/23 12:31**

**Matrix: Water**

**Date Received: 07/03/23 14:15**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 23:11
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		50	723138	FXG	EET CHI	07/13/23 18:32
Total/NA	Prep	7470A			723321	MJG	EET CHI	07/17/23 10:15 - 07/17/23 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	723528	MJG	EET CHI	07/18/23 07:58
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:39
Total/NA	Analysis	SM 4500 Cl- E		10	721741	MM	EET CHI	07/05/23 13:27
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:49
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 11:08
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	07/03/23 12:31

<sup>1</sup> This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

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





# ANALYTICAL REPORT

## PREPARED FOR

Attn: John Niedzwiecki  
Midwest Generation EME LLC  
1800 Channahon Road  
Joliet, Illinois 60436

Generated 8/1/2023 2:16:45 PM

## JOB DESCRIPTION

Joliet #9 (Quarry) CCR (RAD) 2Q23

## JOB NUMBER

500-235842-2

# Eurofins Chicago

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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Authorized for release by  
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# Case Narrative

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Job ID: 500-235842-2

### Laboratory: Eurofins Chicago

#### Narrative

#### Job Narrative 500-235842-2

#### Receipt

The samples were received on 6/27/2023 3:00 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 1.0° C, 1.4° C, 3.2° C, 3.7° C, 3.9° C and 4.4° C.

#### RAD

Methods 903.0, 9315: Radium 226 Batch 618200

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.

T13S (500-235842-1), T12S (500-235842-2), T09S (500-235842-3), T06S (500-235842-4), (LCS 160-618200/2-A), (MB 160-618200/1-A) and (500-235842-D-1-A DU)

Method 903.0: Radium-226 batch 618532

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 (500-235842-9), R32S (500-235842-10), G44S (500-235842-11), G46S (500-235842-12), (LCS 160-618532/2-A), (MB 160-618532/1-A), (500-235842-D-12-D DU), (500-235929-O-1-G), (500-235929-O-1-H MS) and (500-235929-P-1-D MSD)

Method 903.0: Radium-226 batch 618898

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 (500-235842-5), R08S (500-235842-6), G33S (500-235842-7), G31S (500-235842-8), G45S (500-235842-13), G48S (500-235842-14), G47S (500-235842-15), T03S (500-235842-16), DUP (500-235842-17), T02S (500-235842-18), (LCS 160-618898/2-A), (MB 160-618898/1-A) and (500-235842-D-5-A DU)

Method 903.0: Radium-226 batch 619283

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 (500-235842-19), T01S (500-235842-20), T05S (500-235842-21), (LCS 160-619283/2-A), (MB 160-619283/1-A) and (500-235842-E-20-C DU)

Method 904.0: Radium-228 prep batch 160-618534:

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 (500-235842-9), R32S (500-235842-10), G44S (500-235842-11), G46S (500-235842-12), (LCS 160-618534/2-A), (MB 160-618534/1-A), (500-235842-D-12-C DU), (500-235929-O-1-E), (500-235929-O-1-F MS) and (500-235929-P-1-C MSD)

Methods 904.0, 9320: Radium-228 batch 618201

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.

T13S (500-235842-1), T12S (500-235842-2), (LCS 160-618201/2-A), (MB 160-618201/1-A) and (500-235842-D-1-B DU)

Method 904.0: Radium 228 batch 618201

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



# Case Narrative

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

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## Job ID: 500-235842-2 (Continued)

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### Laboratory: Eurofins Chicago (Continued)

applied as the Activity Reference Date.

T09S (500-235842-3) and T06S (500-235842-4)

Method 904.0: Radium-228 batch 618899

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 (500-235842-7). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 batch 618899

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 (500-235842-5), R08S (500-235842-6), G33S (500-235842-7), G31S (500-235842-8), G45S (500-235842-13), G48S (500-235842-14), G47S (500-235842-15), T03S (500-235842-16), DUP (500-235842-17), T02S (500-235842-18), (LCS 160-618899/2-A), (MB 160-618899/1-A) and (500-235842-D-5-B DU)

Method 904.0: Radium-228 batch 619284

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 (500-235842-19), T01S (500-235842-20), T05S (500-235842-21), (LCS 160-619284/2-A), (MB 160-619284/1-A) and (500-235842-E-20-D DU)

Method PrecSep\_0:

Method PrecSep\_0:

Method PrecSep\_0:

Method PrecSep-21:

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 (RAD) 2Q23

Job ID: 500-235842-2

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 (RAD) 2Q23

Job ID: 500-235842-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-235842-1	T13S	Water	06/27/23 09:31	06/27/23 15:00
500-235842-2	T12S	Water	06/27/23 11:17	06/27/23 15:00
500-235842-3	T09S	Water	06/27/23 12:12	06/27/23 15:00
500-235842-4	T06S	Water	06/27/23 13:33	06/27/23 15:00
500-235842-5	G20S	GW	06/28/23 09:03	06/28/23 15:37
500-235842-6	R08S	GW	06/28/23 12:22	06/28/23 15:37
500-235842-7	G33S	Water	06/28/23 13:43	06/28/23 15:37
500-235842-8	G31S	Water	06/28/23 14:39	06/28/23 15:37
500-235842-9	G30S	Water	06/29/23 08:41	06/29/23 14:15
500-235842-10	R32S	Water	06/29/23 10:39	06/29/23 14:15
500-235842-11	G44S	Water	06/29/23 11:37	06/29/23 14:15
500-235842-12	G46S	Water	06/29/23 13:09	06/29/23 14:15
500-235842-13	G45S	Water	06/30/23 08:50	06/30/23 14:53
500-235842-14	G48S	Water	06/30/23 09:39	06/30/23 14:53
500-235842-15	G47S	Water	06/30/23 10:48	06/30/23 14:53
500-235842-16	T03S	Water	06/30/23 11:54	06/30/23 14:53
500-235842-17	DUP	Water	06/30/23 11:54	06/30/23 14:53
500-235842-18	T02S	Water	06/30/23 13:21	06/30/23 14:53
500-235842-19	T08S	Water	07/03/23 09:08	07/03/23 14:15
500-235842-20	T01S	Water	07/03/23 10:39	07/03/23 14:15
500-235842-21	T05S	Water	07/03/23 12:31	07/03/23 14:15



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T13S**

**Lab Sample ID: 500-235842-1**

Date Collected: 06/27/23 09:31

Matrix: Water

Date Received: 06/27/23 15:00

**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	0.476		0.194	0.199	1.00	0.211	pCi/L	06/29/23 09:53	07/24/23 15:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					06/29/23 09:53	07/24/23 15:26	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	0.260	U	0.382	0.382	1.00	0.645	pCi/L	06/29/23 10:01	07/21/23 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					06/29/23 10:01	07/21/23 13:18	1
Y Carrier	87.1		30 - 110					06/29/23 10:01	07/21/23 13:18	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	0.735		0.428	0.431	5.00	0.645	pCi/L		07/25/23 15:50	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T12S**

**Lab Sample ID: 500-235842-2**

Date Collected: 06/27/23 11:17

Matrix: Water

Date Received: 06/27/23 15:00

**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	1.07		0.273	0.290	1.00	0.222	pCi/L	06/29/23 09:53	07/24/23 16:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					06/29/23 09:53	07/24/23 16:04	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	1.25		0.502	0.515	1.00	0.634	pCi/L	06/29/23 10:01	07/21/23 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					06/29/23 10:01	07/21/23 13:19	1
Y Carrier	82.2		30 - 110					06/29/23 10:01	07/21/23 13:19	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	2.33		0.571	0.591	5.00	0.634	pCi/L		07/25/23 15:50	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T09S**

**Lab Sample ID: 500-235842-3**

Date Collected: 06/27/23 12:12

Matrix: Water

Date Received: 06/27/23 15:00

**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	1.45		0.323	0.348	1.00	0.257	pCi/L	06/29/23 09:53	07/24/23 16:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					06/29/23 09:53	07/24/23 16:04	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	1.08		0.546	0.555	1.00	0.767	pCi/L	06/29/23 10:01	07/21/23 13:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					06/29/23 10:01	07/21/23 13:21	1
Y Carrier	82.6		30 - 110					06/29/23 10:01	07/21/23 13:21	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	2.52		0.634	0.655	5.00	0.767	pCi/L		07/25/23 15:50	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T06S**

**Lab Sample ID: 500-235842-4**

Date Collected: 06/27/23 13:33

Matrix: Water

Date Received: 06/27/23 15:00

**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	0.856		0.262	0.273	1.00	0.258	pCi/L	06/29/23 09:53	07/24/23 16:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					06/29/23 09:53	07/24/23 16:04	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	0.298	U	0.389	0.390	1.00	0.650	pCi/L	06/29/23 10:01	07/21/23 13:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					06/29/23 10:01	07/21/23 13:21	1
Y Carrier	82.2		30 - 110					06/29/23 10:01	07/21/23 13:21	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	1.15		0.469	0.476	5.00	0.650	pCi/L		07/25/23 15:50	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G20S**

**Lab Sample ID: 500-235842-5**

Date Collected: 06/28/23 09:03

Matrix: GW

Date Received: 06/28/23 15:37

**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	1.38		0.270	0.297	1.00	0.185	pCi/L	07/05/23 09:43	07/27/23 10:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					07/05/23 09:43	07/27/23 10:03	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	2.02		0.536	0.568	1.00	0.553	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	87.5		30 - 110					07/05/23 09:48	07/24/23 13:27	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	3.40		0.600	0.641	5.00	0.553	pCi/L		07/28/23 10:12	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: R08S**

**Lab Sample ID: 500-235842-6**

Date Collected: 06/28/23 12:22

Matrix: GW

Date Received: 06/28/23 15:37

**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	0.528		0.186	0.192	1.00	0.199	pCi/L	07/05/23 09:43	07/27/23 10:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					07/05/23 09:43	07/27/23 10:03	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	0.908		0.441	0.448	1.00	0.607	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	86.0		30 - 110					07/05/23 09:48	07/24/23 13:27	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	1.44		0.479	0.487	5.00	0.607	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G33S**

**Lab Sample ID: 500-235842-7**

Date Collected: 06/28/23 13:43

Matrix: Water

Date Received: 06/28/23 15:37

**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	0.255	U	0.252	0.253	1.00	0.396	pCi/L	07/05/23 09:43	07/27/23 10:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	49.5		30 - 110					07/05/23 09:43	07/27/23 10:03	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	0.404	U G	0.880	0.881	1.00	1.53	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	49.5		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	87.9		30 - 110					07/05/23 09:48	07/24/23 13:27	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	0.659	U	0.915	0.917	5.00	1.53	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G31S**

**Lab Sample ID: 500-235842-8**

Date Collected: 06/28/23 14:39

Matrix: Water

Date Received: 06/28/23 15:37

**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	1.80		0.301	0.342	1.00	0.176	pCi/L	07/05/23 09:43	07/27/23 10:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					07/05/23 09:43	07/27/23 10:04	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		0.476	0.487	1.00	0.629	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	85.6		30 - 110					07/05/23 09:48	07/24/23 13:27	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	2.95		0.563	0.595	5.00	0.629	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G30S**

**Lab Sample ID: 500-235842-9**

Date Collected: 06/29/23 08:41

Matrix: Water

Date Received: 06/29/23 14:15

**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	0.986		0.164	0.186	1.00	0.0773	pCi/L	07/03/23 09:22	07/26/23 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					07/03/23 09:22	07/26/23 09:44	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	1.46		0.435	0.455	1.00	0.484	pCi/L	07/03/23 09:27	07/10/23 12:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					07/03/23 09:27	07/10/23 12:57	1
Y Carrier	83.4		30 - 110					07/03/23 09:27	07/10/23 12:57	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	2.45		0.465	0.492	5.00	0.484	pCi/L		07/26/23 17:13	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: R32S**

**Lab Sample ID: 500-235842-10**

Date Collected: 06/29/23 10:39

Matrix: Water

Date Received: 06/29/23 14:15

**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	1.20		0.184	0.214	1.00	0.0774	pCi/L	07/03/23 09:22	07/26/23 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					07/03/23 09:22	07/26/23 09:44	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	0.826		0.387	0.395	1.00	0.523	pCi/L	07/03/23 09:27	07/10/23 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					07/03/23 09:27	07/10/23 12:58	1
Y Carrier	82.2		30 - 110					07/03/23 09:27	07/10/23 12:58	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	2.02		0.429	0.449	5.00	0.523	pCi/L		07/26/23 17:13	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G44S**

**Lab Sample ID: 500-235842-11**

Date Collected: 06/29/23 11:37

Matrix: Water

Date Received: 06/29/23 14:15

**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	0.530		0.132	0.140	1.00	0.104	pCi/L	07/03/23 09:22	07/26/23 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					07/03/23 09:22	07/26/23 09:44	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	0.831		0.388	0.395	1.00	0.525	pCi/L	07/03/23 09:27	07/10/23 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					07/03/23 09:27	07/10/23 12:58	1
Y Carrier	88.6		30 - 110					07/03/23 09:27	07/10/23 12:58	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	1.36		0.410	0.419	5.00	0.525	pCi/L		07/26/23 17:13	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G46S**

**Lab Sample ID: 500-235842-12**

Date Collected: 06/29/23 13:09

Matrix: Water

Date Received: 06/29/23 14:15

**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	1.12		0.177	0.204	1.00	0.0916	pCi/L	07/03/23 09:22	07/26/23 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					07/03/23 09:22	07/26/23 09:44	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	1.44		0.432	0.452	1.00	0.498	pCi/L	07/03/23 09:27	07/10/23 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					07/03/23 09:27	07/10/23 12:58	1
Y Carrier	87.9		30 - 110					07/03/23 09:27	07/10/23 12:58	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	2.55		0.467	0.496	5.00	0.498	pCi/L		07/26/23 17:13	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G45S**

**Lab Sample ID: 500-235842-13**

Date Collected: 06/30/23 08:50

Matrix: Water

Date Received: 06/30/23 14:53

**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	1.22		0.241	0.265	1.00	0.141	pCi/L	07/05/23 09:43	07/27/23 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					07/05/23 09:43	07/27/23 15:29	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	0.662		0.398	0.403	1.00	0.577	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	86.4		30 - 110					07/05/23 09:48	07/24/23 13:27	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	1.88		0.465	0.482	5.00	0.577	pCi/L		07/28/23 10:12	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G48S**

**Lab Sample ID: 500-235842-14**

Date Collected: 06/30/23 09:39

Matrix: Water

Date Received: 06/30/23 14:53

**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	0.462		0.158	0.163	1.00	0.147	pCi/L	07/05/23 09:43	07/27/23 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					07/05/23 09:43	07/27/23 15:29	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	0.0122	U	0.389	0.389	1.00	0.711	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	86.7		30 - 110					07/05/23 09:48	07/24/23 13:27	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	0.474	U	0.420	0.422	5.00	0.711	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G47S**

**Lab Sample ID: 500-235842-15**

Date Collected: 06/30/23 10:48

Matrix: Water

Date Received: 06/30/23 14:53

**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	0.423		0.168	0.172	1.00	0.197	pCi/L	07/05/23 09:43	07/27/23 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					07/05/23 09:43	07/27/23 15:29	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	0.836		0.393	0.400	1.00	0.529	pCi/L	07/05/23 09:48	07/24/23 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					07/05/23 09:48	07/24/23 13:28	1
Y Carrier	89.7		30 - 110					07/05/23 09:48	07/24/23 13:28	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	1.26		0.427	0.435	5.00	0.529	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T03S**

**Lab Sample ID: 500-235842-16**

Date Collected: 06/30/23 11:54

Matrix: Water

Date Received: 06/30/23 14:53

**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	0.864		0.208	0.222	1.00	0.147	pCi/L	07/05/23 09:43	07/27/23 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					07/05/23 09:43	07/27/23 15:30	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	1.30		0.533	0.547	1.00	0.728	pCi/L	07/05/23 09:48	07/24/23 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					07/05/23 09:48	07/24/23 13:28	1
Y Carrier	88.6		30 - 110					07/05/23 09:48	07/24/23 13:28	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	2.17		0.572	0.590	5.00	0.728	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: DUP**

**Lab Sample ID: 500-235842-17**

Date Collected: 06/30/23 11:54

Matrix: Water

Date Received: 06/30/23 14:53

**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	0.865		0.210	0.224	1.00	0.148	pCi/L	07/05/23 09:43	07/27/23 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					07/05/23 09:43	07/27/23 15:30	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	0.393	U	0.391	0.393	1.00	0.630	pCi/L	07/05/23 09:48	07/24/23 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					07/05/23 09:48	07/24/23 13:28	1
Y Carrier	89.0		30 - 110					07/05/23 09:48	07/24/23 13:28	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	1.26		0.444	0.452	5.00	0.630	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T02S**

**Lab Sample ID: 500-235842-18**

Date Collected: 06/30/23 13:21

Matrix: Water

Date Received: 06/30/23 14:53

**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	0.893		0.247	0.260	1.00	0.188	pCi/L	07/05/23 09:43	07/27/23 15:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		30 - 110					07/05/23 09:43	07/27/23 15:31	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	0.692	U	0.534	0.538	1.00	0.823	pCi/L	07/05/23 09:48	07/24/23 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		30 - 110					07/05/23 09:48	07/24/23 13:28	1
Y Carrier	85.6		30 - 110					07/05/23 09:48	07/24/23 13:28	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	1.58		0.588	0.598	5.00	0.823	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T08S**

**Lab Sample ID: 500-235842-19**

Date Collected: 07/03/23 09:08

Matrix: Water

Date Received: 07/03/23 14:15

**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	0.301		0.135	0.137	1.00	0.162	pCi/L	07/07/23 08:55	07/31/23 14:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					07/07/23 08:55	07/31/23 14:27	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	0.0160	U	0.303	0.303	1.00	0.563	pCi/L	07/07/23 08:58	07/26/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					07/07/23 08:58	07/26/23 12:05	1
Y Carrier	82.6		30 - 110					07/07/23 08:58	07/26/23 12:05	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	0.317	U	0.332	0.333	5.00	0.563	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T01S**

**Lab Sample ID: 500-235842-20**

Date Collected: 07/03/23 10:39

Matrix: Water

Date Received: 07/03/23 14:15

**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	0.611		0.179	0.188	1.00	0.166	pCi/L	07/07/23 08:55	07/31/23 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		30 - 110					07/07/23 08:55	07/31/23 14:28	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		0.483	0.495	1.00	0.629	pCi/L	07/07/23 08:58	07/26/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		30 - 110					07/07/23 08:58	07/26/23 12:05	1
Y Carrier	82.6		30 - 110					07/07/23 08:58	07/26/23 12:05	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		0.515	0.529	5.00	0.629	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T05S**

**Lab Sample ID: 500-235842-21**

Date Collected: 07/03/23 12:31

Matrix: Water

Date Received: 07/03/23 14:15

**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	0.292		0.141	0.144	1.00	0.163	pCi/L	07/07/23 08:55	07/31/23 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		30 - 110					07/07/23 08:55	07/31/23 14:28	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	0.0264	U	0.368	0.368	1.00	0.678	pCi/L	07/07/23 08:58	07/26/23 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		30 - 110					07/07/23 08:58	07/26/23 12:08	1
Y Carrier	90.1		30 - 110					07/07/23 08:58	07/26/23 12:08	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	0.319	U	0.394	0.395	5.00	0.678	pCi/L		07/28/23 10:12	1



# Definitions/Glossary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## 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 (RAD) 2Q23

Job ID: 500-235842-2

## Rad

### Prep Batch: 618200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	PrecSep-21	
500-235842-2	T12S	Total/NA	Water	PrecSep-21	
500-235842-3	T09S	Total/NA	Water	PrecSep-21	
500-235842-4	T06S	Total/NA	Water	PrecSep-21	
MB 160-618200/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-618200/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-235842-1 DU	T13S	Total/NA	Water	PrecSep-21	

### Prep Batch: 618201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	PrecSep_0	
500-235842-2	T12S	Total/NA	Water	PrecSep_0	
500-235842-3	T09S	Total/NA	Water	PrecSep_0	
500-235842-4	T06S	Total/NA	Water	PrecSep_0	
MB 160-618201/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-618201/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-235842-1 DU	T13S	Total/NA	Water	PrecSep_0	

### Prep Batch: 618532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-9	G30S	Total/NA	Water	PrecSep-21	
500-235842-10	R32S	Total/NA	Water	PrecSep-21	
500-235842-11	G44S	Total/NA	Water	PrecSep-21	
500-235842-12	G46S	Total/NA	Water	PrecSep-21	
MB 160-618532/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-618532/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-235842-12 DU	G46S	Total/NA	Water	PrecSep-21	

### Prep Batch: 618534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-9	G30S	Total/NA	Water	PrecSep_0	
500-235842-10	R32S	Total/NA	Water	PrecSep_0	
500-235842-11	G44S	Total/NA	Water	PrecSep_0	
500-235842-12	G46S	Total/NA	Water	PrecSep_0	
MB 160-618534/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-618534/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-235842-12 DU	G46S	Total/NA	Water	PrecSep_0	

### Prep Batch: 618898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-5	G20S	Total/NA	GW	PrecSep-21	
500-235842-6	R08S	Total/NA	GW	PrecSep-21	
500-235842-7	G33S	Total/NA	Water	PrecSep-21	
500-235842-8	G31S	Total/NA	Water	PrecSep-21	
500-235842-13	G45S	Total/NA	Water	PrecSep-21	
500-235842-14	G48S	Total/NA	Water	PrecSep-21	
500-235842-15	G47S	Total/NA	Water	PrecSep-21	
500-235842-16	T03S	Total/NA	Water	PrecSep-21	
500-235842-17	DUP	Total/NA	Water	PrecSep-21	
500-235842-18	T02S	Total/NA	Water	PrecSep-21	
MB 160-618898/1-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 (RAD) 2Q23

Job ID: 500-235842-2

## Rad (Continued)

### Prep Batch: 618898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-618898/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-235842-5 DU	G20S	Total/NA	GW	PrecSep-21	

### Prep Batch: 618899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-5	G20S	Total/NA	GW	PrecSep_0	
500-235842-6	R08S	Total/NA	GW	PrecSep_0	
500-235842-7	G33S	Total/NA	Water	PrecSep_0	
500-235842-8	G31S	Total/NA	Water	PrecSep_0	
500-235842-13	G45S	Total/NA	Water	PrecSep_0	
500-235842-14	G48S	Total/NA	Water	PrecSep_0	
500-235842-15	G47S	Total/NA	Water	PrecSep_0	
500-235842-16	T03S	Total/NA	Water	PrecSep_0	
500-235842-17	DUP	Total/NA	Water	PrecSep_0	
500-235842-18	T02S	Total/NA	Water	PrecSep_0	
MB 160-618899/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-618899/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-235842-5 DU	G20S	Total/NA	GW	PrecSep_0	

### Prep Batch: 619283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-19	T08S	Total/NA	Water	PrecSep-21	
500-235842-20	T01S	Total/NA	Water	PrecSep-21	
500-235842-21	T05S	Total/NA	Water	PrecSep-21	
MB 160-619283/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-619283/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-235842-20 DU	T01S	Total/NA	Water	PrecSep-21	

### Prep Batch: 619284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-19	T08S	Total/NA	Water	PrecSep_0	
500-235842-20	T01S	Total/NA	Water	PrecSep_0	
500-235842-21	T05S	Total/NA	Water	PrecSep_0	
MB 160-619284/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-619284/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-235842-20 DU	T01S	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Method: 903.0 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-618200/1-A**  
**Matrix: Water**  
**Analysis Batch: 621404**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618200**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03613	U	0.0885	0.0886	1.00	0.162	pCi/L	06/29/23 09:53	07/24/23 15:24	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					06/29/23 09:53	07/24/23 15:24	1

**Lab Sample ID: LCS 160-618200/2-A**  
**Matrix: Water**  
**Analysis Batch: 621404**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618200**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.01		1.15	1.00	0.140	pCi/L	88	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield 97.7	Qualifier	30 - 110						

**Lab Sample ID: 500-235842-1 DU**  
**Matrix: Water**  
**Analysis Batch: 621404**

**Client Sample ID: T13S**  
**Prep Type: Total/NA**  
**Prep Batch: 618200**

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.476		0.4224		0.187	1.00	0.201	pCi/L	0.14	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield 93.4	Qualifier	30 - 110							

**Lab Sample ID: MB 160-618532/1-A**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618532**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.02474	U	0.0405	0.0406	1.00	0.0990	pCi/L	07/03/23 09:22	07/26/23 07:33	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					07/03/23 09:22	07/26/23 07:33	1

**Lab Sample ID: LCS 160-618532/2-A**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618532**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.75		1.10	1.00	0.0871	pCi/L	95	75 - 125

Eurofins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Method: 903.0 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: LCS 160-618532/2-A**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618532**

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.2		30 - 110

**Lab Sample ID: 500-235842-12 DU**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: G46S**  
**Prep Type: Total/NA**  
**Prep Batch: 618532**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	1.12		1.078		0.198	1.00	0.0820	pCi/L	0.1	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.4		30 - 110

**Lab Sample ID: MB 160-618898/1-A**  
**Matrix: Water**  
**Analysis Batch: 621941**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618898**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										Limit
Radium-226	-0.06723	U	0.0557	0.0560	1.00	0.157	pCi/L	07/05/23 09:43	07/27/23 10:03	1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	100		30 - 110	07/05/23 09:43	07/27/23 10:03	1

**Lab Sample ID: LCS 160-618898/2-A**  
**Matrix: Water**  
**Analysis Batch: 621941**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618898**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-226	11.3	10.60		1.18	1.00	0.168	pCi/L	94	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	89.7		30 - 110

**Lab Sample ID: 500-235842-5 DU**  
**Matrix: GW**  
**Analysis Batch: 621941**

**Client Sample ID: G20S**  
**Prep Type: Total/NA**  
**Prep Batch: 618898**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	1.38		1.301		0.273	1.00	0.164	pCi/L	0.14	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.0		30 - 110

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Method: 903.0 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: MB 160-619283/1-A**  
**Matrix: Water**  
**Analysis Batch: 622151**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 619283**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01329	U	0.0562	0.0563	1.00	0.115	pCi/L	07/07/23 08:55	07/31/23 14:19	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	97.2		30 - 110			07/07/23 08:55	07/31/23 14:19	1		

**Lab Sample ID: LCS 160-619283/2-A**  
**Matrix: Water**  
**Analysis Batch: 622151**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 619283**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.982		1.08	1.00	0.113	pCi/L	88	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	93.5		30 - 110						

**Lab Sample ID: 500-235842-20 DU**  
**Matrix: Water**  
**Analysis Batch: 622291**

**Client Sample ID: T01S**  
**Prep Type: Total/NA**  
**Prep Batch: 619283**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.611		0.6760		0.184	1.00	0.121	pCi/L	0.17	1
Carrier	DU	DU	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	89.4		30 - 110							

## Method: 904.0 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-618201/1-A**  
**Matrix: Water**  
**Analysis Batch: 621294**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618201**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3766	U	0.299	0.301	1.00	0.463	pCi/L	06/29/23 10:01	07/21/23 13:16	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	100		30 - 110			06/29/23 10:01	07/21/23 13:16	1		
Y Carrier	81.9		30 - 110			06/29/23 10:01	07/21/23 13:16	1		

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Method: 904.0 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-618201/2-A**  
**Matrix: Water**  
**Analysis Batch: 621294**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618201**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.02	8.084		1.13	1.00	0.472	pCi/L	101	75 - 125	
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	97.7		30 - 110							
Y Carrier	78.5		30 - 110							

**Lab Sample ID: 500-235842-1 DU**  
**Matrix: Water**  
**Analysis Batch: 621294**

**Client Sample ID: T13S**  
**Prep Type: Total/NA**  
**Prep Batch: 618201**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.260	U	0.2796	U	0.369	1.00	0.616	pCi/L	0.03	1
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	93.4		30 - 110							
Y Carrier	83.7		30 - 110							

**Lab Sample ID: MB 160-618534/1-A**  
**Matrix: Water**  
**Analysis Batch: 619638**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618534**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.06466	U	0.260	0.260	1.00	0.507	pCi/L	07/03/23 09:27	07/10/23 12:53	1
<b>MB MB</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	91.6		30 - 110							
Y Carrier	86.7		30 - 110							
								<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
								07/03/23 09:27	07/10/23 12:53	1
								07/03/23 09:27	07/10/23 12:53	1

**Lab Sample ID: LCS 160-618534/2-A**  
**Matrix: Water**  
**Analysis Batch: 619638**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618534**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.05	7.841		1.10	1.00	0.547	pCi/L	97	75 - 125	
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	98.2		30 - 110							
Y Carrier	86.4		30 - 110							

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Method: 904.0 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: 500-235842-12 DU**  
**Matrix: Water**  
**Analysis Batch: 619619**

**Client Sample ID: G46S**  
**Prep Type: Total/NA**  
**Prep Batch: 618534**

Analyte	Sample	Sample	DU		Total	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-228	1.44		1.184		0.402	1.00	0.444	pCi/L	0.29	1
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	95.4		30 - 110							
Y Carrier	87.1		30 - 110							

**Lab Sample ID: MB 160-618899/1-A**  
**Matrix: Water**  
**Analysis Batch: 621404**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618899**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1876	U	0.290	0.290	1.00	0.494	pCi/L	07/05/23 09:48	07/24/23 13:24	1
<b>MB MB</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>		<b>Analyzed</b>	
Ba Carrier	100		30 - 110				07/05/23 09:48		07/24/23 13:24	
Y Carrier	86.7		30 - 110				07/05/23 09:48		07/24/23 13:24	

**Lab Sample ID: LCS 160-618899/2-A**  
**Matrix: Water**  
**Analysis Batch: 621448**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618899**

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits	
		Result	Qual	Uncert. (2σ+/-)						
Radium-228	8.01	8.707		1.27	1.00	0.634	pCi/L	109	75 - 125	
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	89.7		30 - 110							
Y Carrier	84.1		30 - 110							

**Lab Sample ID: 500-235842-5 DU**  
**Matrix: GW**  
**Analysis Batch: 621448**

**Client Sample ID: G20S**  
**Prep Type: Total/NA**  
**Prep Batch: 618899**

Analyte	Sample	Sample	DU		Total	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-228	2.02		1.148		0.483	1.00	0.626	pCi/L	0.83	1
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	92.0		30 - 110							
Y Carrier	86.7		30 - 110							



# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Method: 904.0 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: MB 160-619284/1-A**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 619284**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1032	U	0.246	0.246	1.00	0.439	pCi/L	07/07/23 08:58	07/26/23 12:04	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	97.2		30 - 110				07/07/23 08:58		07/26/23 12:04	
Y Carrier	81.1		30 - 110				07/07/23 08:58		07/26/23 12:04	

**Lab Sample ID: LCS 160-619284/2-A**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 619284**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.01	8.297		1.17	1.00	0.534	pCi/L	104	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	93.5		30 - 110						
Y Carrier	85.2		30 - 110						

**Lab Sample ID: 500-235842-20 DU**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: T01S**  
**Prep Type: Total/NA**  
**Prep Batch: 619284**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-228	1.15		0.7447		0.421	1.00	0.598	pCi/L	0.44	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	89.4		30 - 110							
Y Carrier	86.7		30 - 110							

# Chain of Custody Record 641387




Environment Testing  
America

TAL-8210

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b>		<b>Project Manager</b>		<b>Site Contact</b>		<b>Date</b>		<b>COC No</b>	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		____ of ____ COCs	
Address		<b>Analysis Turnaround Time</b>		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 228</i> <i>Radium 226</i> <i>Combined 226/228</i> <i>TDS, F, Cl, SO4</i> <i>Metals: Hg, Mn, Cr, Pb, Cd</i>		 500-235842 COC		Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No <i>500-735042</i>	
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>									
Site <i>2023 GW + Turbidity</i>									
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>T130</i>		<i>06/27/23</i>	<i>0931</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T125</i>		<i>06/27/23</i>	<i>1117</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T095</i>		<i>06/27/23</i>	<i>1212</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T065</i>		<i>06/27/23</i>	<i>1335</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: <div style="text-align: right; font-size: 1.5em; font-weight: bold;"><i>4874A</i></div>									
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>06/27/23 1500</i>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received in Laboratory by <i>Stephanie Hernandez</i>		Company <i>EETA</i> Date/Time <i>6/27/23 1500</i>	

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# Chain of Custody Record 641388



Environment Testing  
America

500-235842 COC

TAL-8210

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager			Site Contact			Date		
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email			Lab Contact			Carrier		
Address		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS			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, FL, Cl, SO4</i>			Sampler For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-235842</i>		
City/State/Zip <i>Joliet, IL</i>										
Phone										
Fax										
Project Name <i>Joliet #9 CCR</i>										
Site <i>2023 GW + Turbidity</i>		TAT if different from Below _____								
P O #		<input type="checkbox"/> 2 weeks								
		<input type="checkbox"/> 1 week								
		<input type="checkbox"/> 2 days								
		<input type="checkbox"/> 1 day								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Sample Specific Notes			
<i>G205</i>		<i>06/28/23</i>	<i>0903</i>		<i>W</i>	<i>5</i>				
<i>R085</i>		<i>06/28/23</i>	<i>1222</i>		<i>W</i>	<i>5</i>				
<i>G335</i>		<i>06/28/23</i>	<i>1343</i>		<i>W</i>	<i>5</i>				
<i>G315</i>		<i>06/28/23</i>	<i>1439</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>3.0</i> Cor'd <i>3.2</i>			Therm ID No _____		
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>06/28/23 1537</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		Date/Time <i>6/28/23 1537</i>

500-235842

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# Chain of Custody Record 641389




Environment Testing  
America

TAL-8210

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b>		<b>Project Manager</b>		<b>Site Contact</b>		<b>Date</b>		<b>COC No</b>	
Company Name <i>M. duvest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		<b>Analysis Turnaround Time</b>		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>		 500-235842 COC		Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No <i>500-235842</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>Solet #9 CCR</i>									
Site <i>2Q23 GW + Turbidity</i>									
P O # _____									
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b> (C=Comp, G=Grab)	<b>Matrix</b>	<b># of Cont.</b>			<b>Sample Specific Notes</b>
<i>G305</i>		<i>06/29/23</i>	<i>0841</i>		<i>W</i>	<i>5</i>			
<i>R325</i>		<i>06/29/23</i>	<i>1039</i>		<i>W</i>	<i>5</i>			
<i>G445</i>		<i>06/29/23</i>	<i>1137</i>		<i>W</i>	<i>5</i>			
<i>G465</i>		<i>06/29/23</i>	<i>1309</i>		<i>W</i>	<i>5</i>			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
<b>Possible Hazard Identification:</b> 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					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<b>Special Instructions/QC Requirements &amp; Comments</b> _____									
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd <i>4.1</i> Corr'd <i>3.7</i>		Therm ID No _____			
Relinquished by: <i>GP</i>		Company: <i>EGTA</i>		Date/Time: <i>06/29/23 1415</i>		Received by: _____		Company: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received by: _____		Company: _____	
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: <i>the lab</i>		Company: <i>EGTA</i> Date/Time: <i>06/29/23 1415</i>	

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# Chain of Custody Record 641390



Environment Testing  
America

Address \_\_\_\_\_  
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 \_\_\_\_\_



500-235842 COC

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

<b>Client Contact</b>		<b>Project Manager:</b>			<b>Site Contact</b>			<b>Date</b>		<b>COC No</b>			
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email			Lab Contact			Carrier:		_____ of _____ COCs			
Address		<b>Analysis Turnaround Time</b> <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 Elements + Hg</i> <i>TDS, F, Cl, SO4</i>						Sampler For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>		
City/State/Zip <i>Joliet, IL</i>											Job / SDG No		
Phone											Job / SDG No <i>500-235842</i>		
Fax													
Project Name <i>Joliet #9 CCR</i>													
Site <i>2Q23 B4 + Turbidity</i>		Sample Identification			Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes			
P O #		3 <i>G45S</i>		<i>06/30/23</i>	<i>0850</i>			<i>W</i>	<i>5</i>				
		4 <i>G48S</i>		<i>06/30/23</i>	<i>0939</i>			<i>W</i>	<i>5</i>				
		5 <i>G47S</i>		<i>06/30/23</i>	<i>1048</i>			<i>W</i>	<i>5</i>				
		6 <i>T03S</i>		<i>06/30/23</i>	<i>1154</i>			<i>W</i>	<i>5</i>				
		7 <i>DUP of T03S</i>		<i>06/30/23</i>	<i>1154</i>			<i>W</i>	<i>5</i>				
		8 <i>T02S</i>		<i>06/30/23</i>	<i>1321</i>			<i>W</i>	<i>5</i>				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other													
<b>Possible Hazard Identification:</b> 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						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
<b>Special Instructions/QC Requirements &amp; Comments</b> <div style="text-align: right; margin-right: 50px;"><i>4.2-73.9, 1.3-1.0</i></div>													
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No			Cooler Temp (°C) Obs'd _____ Cor'd _____			Therm ID No _____				
Relinquished by <i>[Signature]</i>			Company <i>EETA</i>			Date/Time <i>06/30/23 1453</i>			Received by _____				
Relinquished by			Company			Date/Time			Received by _____				
Relinquished by			Company			Date/Time			Received in Laboratory by <i>Stephanie Hernandez</i>				
									Company <i>EETA</i>				
									Date/Time <i>06/30/23 1453</i>				

# Chain of Custody Record 641391




Environment Testing America

Address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager:		Site Contact:		Date		COC No	
Company Name: <i>Midwest Generation EPE LLC</i>		Tel/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 14 elements + Hg</i> <i>TDS, F, Cl, SO4</i>		 500-235842 COC		Sampler For Lab Use Only: Walk-in Client _____ Lab Sampling _____ Job / SDG No <i>500-235842</i>	
City/State/Zip: <i>Joliet, IL</i>									
Phone									
Fax									
Project Name: <i>Joliet #9 CCR</i>									
Site: <i>2023 GW + Turbidity</i>									
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>T08S</i>		<i>07/03/23</i>	<i>0908</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T01S</i>		<i>07/03/23</i>	<i>1039</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T05S</i>		<i>07/03/23</i>	<i>1231</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>1.7</i> Corr'd <i>1.4</i>		Therm ID No _____			
Relinquished by: <i>[Signature]</i>		Company: <i>EETA</i>		Date/Time: <i>07/03/23 1415</i>		Received by:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>[Signature]</i>		Company: <i>EETA</i> Date/Time: <i>7/3/23 1415</i>	

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# Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carmer Tracking No(s):		COC No:	
Client Contact: Shipping/Receiving		Mockler, Diana J		Mockler, Diana J		500-175613.1		500-175613.1	
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@et.eurofins.com		State of Origin: Illinois		Page: 1 of 1		Job #: 500-235842-2	
Address: 13715 Rider Trail North,		Due Date Requested: 7/26/2023		TAT Requested (days):		Analysis Requested		Preservation Codes:	
City: Earth City		State, Zip: MO, 63045		PO #:		903.0/PreSep_21 Standard Target List		A - HCL 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)	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		Project #: 50011504		904.0/PreSep_0 Standard Target List		Other:	
Email:		SSOW#:		Matrix (W=water, S=solid, O=soil, B=BI+Tissue, A=Air)		Perform MS/MSD (Yes or No)		Total Number of Containers	
Project Name: Joliet #9 (Quamy) CCR		Sample Date		Sample Time		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		6/27/23		09:31 Central		X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
Sample Identification - Client ID (Lab ID)		6/27/23		11:17 Central		X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
T13S (500-235842-1)		6/27/23		12:12 Central		X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
T12S (500-235842-2)		6/27/23		13:33 Central		X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
T09S (500-235842-3)									
T06S (500-235842-4)									

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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: *Stephanie Hernandez* Date/Time: 6/27/23 11:10 Company: EETA

Relinquished by: *fidex* Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_

Received by: *fedex* Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Received by: *Monday - Dayana* Date/Time: 6/28/23 08:40 Company: EETA

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_

Special Instructions/QC Requirements: \_\_\_\_\_

Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Delta Yes / No

# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-235842-2

**Login Number: 235842**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	4.4,3.2,3.7,3.9,1.0,1.4
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: 500-235842-2

**Login Number: 235842**

**List Number: 2**

**Creator: Sharkey-Gonzalez, Briana L**

**List Source: Eurofins St. Louis**

**List Creation: 06/28/23 10:52 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: 500-235842-2

**Login Number: 235842**

**List Number: 3**

**Creator: Sharkey-Gonzalez, Briana L**

**List Source: Eurofins St. Louis**

**List Creation: 06/30/23 02:47 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: 500-235842-2

**Login Number: 235842**

**List Number: 4**

**Creator: Sharkey-Gonzalez, Briana L**

**List Source: Eurofins St. Louis**

**List Creation: 07/03/23 04:13 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: 500-235842-2

**Login Number: 235842**

**List Number: 5**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 07/06/23 11:16 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.	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	



# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T13S**  
**Date Collected: 06/27/23 09:31**  
**Date Received: 06/27/23 15:00**

**Lab Sample ID: 500-235842-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618200	KAC	EET SL	06/29/23 09:53
Total/NA	Analysis	903.0		1	621404	FLC	EET SL	07/24/23 15:26
Total/NA	Prep	PrecSep_0			618201	KAC	EET SL	06/29/23 10:01
Total/NA	Analysis	904.0		1	621294	FLC	EET SL	07/21/23 13:18
Total/NA	Analysis	Ra226_Ra228		1	621534	SCB	EET SL	07/25/23 15:50

**Client Sample ID: T12S**  
**Date Collected: 06/27/23 11:17**  
**Date Received: 06/27/23 15:00**

**Lab Sample ID: 500-235842-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618200	KAC	EET SL	06/29/23 09:53
Total/NA	Analysis	903.0		1	621448	FLC	EET SL	07/24/23 16:04
Total/NA	Prep	PrecSep_0			618201	KAC	EET SL	06/29/23 10:01
Total/NA	Analysis	904.0		1	621294	FLC	EET SL	07/21/23 13:19
Total/NA	Analysis	Ra226_Ra228		1	621534	SCB	EET SL	07/25/23 15:50

**Client Sample ID: T09S**  
**Date Collected: 06/27/23 12:12**  
**Date Received: 06/27/23 15:00**

**Lab Sample ID: 500-235842-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618200	KAC	EET SL	06/29/23 09:53
Total/NA	Analysis	903.0		1	621448	FLC	EET SL	07/24/23 16:04
Total/NA	Prep	PrecSep_0			618201	KAC	EET SL	06/29/23 10:01
Total/NA	Analysis	904.0		1	621195	FLC	EET SL	07/21/23 13:21
Total/NA	Analysis	Ra226_Ra228		1	621534	SCB	EET SL	07/25/23 15:50

**Client Sample ID: T06S**  
**Date Collected: 06/27/23 13:33**  
**Date Received: 06/27/23 15:00**

**Lab Sample ID: 500-235842-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618200	KAC	EET SL	06/29/23 09:53
Total/NA	Analysis	903.0		1	621448	FLC	EET SL	07/24/23 16:04
Total/NA	Prep	PrecSep_0			618201	KAC	EET SL	06/29/23 10:01
Total/NA	Analysis	904.0		1	621195	FLC	EET SL	07/21/23 13:21
Total/NA	Analysis	Ra226_Ra228		1	621534	SCB	EET SL	07/25/23 15:50

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G20S**

**Lab Sample ID: 500-235842-5**

Date Collected: 06/28/23 09:03

Matrix: GW

Date Received: 06/28/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621941	FLC	EET SL	07/27/23 10:03
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

**Client Sample ID: R08S**

**Lab Sample ID: 500-235842-6**

Date Collected: 06/28/23 12:22

Matrix: GW

Date Received: 06/28/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621941	FLC	EET SL	07/27/23 10:03
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

**Client Sample ID: G33S**

**Lab Sample ID: 500-235842-7**

Date Collected: 06/28/23 13:43

Matrix: Water

Date Received: 06/28/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621941	FLC	EET SL	07/27/23 10:03
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

**Client Sample ID: G31S**

**Lab Sample ID: 500-235842-8**

Date Collected: 06/28/23 14:39

Matrix: Water

Date Received: 06/28/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621941	FLC	EET SL	07/27/23 10:04
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Client Sample ID: G30S

Date Collected: 06/29/23 08:41

Date Received: 06/29/23 14:15

## Lab Sample ID: 500-235842-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618532	KAC	EET SL	07/03/23 09:22
Total/NA	Analysis	903.0		1	621719	FLC	EET SL	07/26/23 09:44
Total/NA	Prep	PrecSep_0			618534	KAC	EET SL	07/03/23 09:27
Total/NA	Analysis	904.0		1	619619	SCB	EET SL	07/10/23 12:57
Total/NA	Analysis	Ra226_Ra228		1	621796	EMH	EET SL	07/26/23 17:13

## Client Sample ID: R32S

Date Collected: 06/29/23 10:39

Date Received: 06/29/23 14:15

## Lab Sample ID: 500-235842-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618532	KAC	EET SL	07/03/23 09:22
Total/NA	Analysis	903.0		1	621719	FLC	EET SL	07/26/23 09:44
Total/NA	Prep	PrecSep_0			618534	KAC	EET SL	07/03/23 09:27
Total/NA	Analysis	904.0		1	619619	SCB	EET SL	07/10/23 12:58
Total/NA	Analysis	Ra226_Ra228		1	621796	EMH	EET SL	07/26/23 17:13

## Client Sample ID: G44S

Date Collected: 06/29/23 11:37

Date Received: 06/29/23 14:15

## Lab Sample ID: 500-235842-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618532	KAC	EET SL	07/03/23 09:22
Total/NA	Analysis	903.0		1	621719	FLC	EET SL	07/26/23 09:44
Total/NA	Prep	PrecSep_0			618534	KAC	EET SL	07/03/23 09:27
Total/NA	Analysis	904.0		1	619619	SCB	EET SL	07/10/23 12:58
Total/NA	Analysis	Ra226_Ra228		1	621796	EMH	EET SL	07/26/23 17:13

## Client Sample ID: G46S

Date Collected: 06/29/23 13:09

Date Received: 06/29/23 14:15

## Lab Sample ID: 500-235842-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618532	KAC	EET SL	07/03/23 09:22
Total/NA	Analysis	903.0		1	621719	FLC	EET SL	07/26/23 09:44
Total/NA	Prep	PrecSep_0			618534	KAC	EET SL	07/03/23 09:27
Total/NA	Analysis	904.0		1	619619	SCB	EET SL	07/10/23 12:58
Total/NA	Analysis	Ra226_Ra228		1	621796	EMH	EET SL	07/26/23 17:13

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Client Sample ID: G45S

Lab Sample ID: 500-235842-13

Date Collected: 06/30/23 08:50

Matrix: Water

Date Received: 06/30/23 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:29
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: G48S

Lab Sample ID: 500-235842-14

Date Collected: 06/30/23 09:39

Matrix: Water

Date Received: 06/30/23 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:29
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: G47S

Lab Sample ID: 500-235842-15

Date Collected: 06/30/23 10:48

Matrix: Water

Date Received: 06/30/23 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:29
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:28
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: T03S

Lab Sample ID: 500-235842-16

Date Collected: 06/30/23 11:54

Matrix: Water

Date Received: 06/30/23 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:30
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:28
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12



# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Client Sample ID: DUP

Date Collected: 06/30/23 11:54

Date Received: 06/30/23 14:53

Lab Sample ID: 500-235842-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:30
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621450	FLC	EET SL	07/24/23 13:28
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: T02S

Date Collected: 06/30/23 13:21

Date Received: 06/30/23 14:53

Lab Sample ID: 500-235842-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:31
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621450	FLC	EET SL	07/24/23 13:28
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: T08S

Date Collected: 07/03/23 09:08

Date Received: 07/03/23 14:15

Lab Sample ID: 500-235842-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			619283	SRH	EET SL	07/07/23 08:55
Total/NA	Analysis	903.0		1	622291	FLC	EET SL	07/31/23 14:27
Total/NA	Prep	PrecSep_0			619284	SRH	EET SL	07/07/23 08:58
Total/NA	Analysis	904.0		1	621719	FLC	EET SL	07/26/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: T01S

Date Collected: 07/03/23 10:39

Date Received: 07/03/23 14:15

Lab Sample ID: 500-235842-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			619283	SRH	EET SL	07/07/23 08:55
Total/NA	Analysis	903.0		1	622291	FLC	EET SL	07/31/23 14:28
Total/NA	Prep	PrecSep_0			619284	SRH	EET SL	07/07/23 08:58
Total/NA	Analysis	904.0		1	621719	FLC	EET SL	07/26/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T05S**

**Lab Sample ID: 500-235842-21**

**Date Collected: 07/03/23 12:31**

**Matrix: Water**

**Date Received: 07/03/23 14:15**

<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	Prep	PrecSep-21			619283	SRH	EET SL	07/07/23 08:55
Total/NA	Analysis	903.0		1	622291	FLC	EET SL	07/31/23 14:28
Total/NA	Prep	PrecSep_0			619284	SRH	EET SL	07/07/23 08:58
Total/NA	Analysis	904.0		1	621777	FLC	EET SL	07/26/23 12:08
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

**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 (RAD) 2Q23

Job ID: 500-235842-2

## Method: 903.0 - Radium-226 (GFPC)

Matrix: GW

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-235842-5	G20S	90.5
500-235842-5 DU	G20S	92.0
500-235842-6	R08S	96.0

#### 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 (30-110)
500-235842-1	T13S	94.9
500-235842-1 DU	T13S	93.4
500-235842-2	T12S	94.1
500-235842-3	T09S	88.8
500-235842-4	T06S	91.6
500-235842-7	G33S	49.5
500-235842-8	G31S	93.0
500-235842-9	G30S	95.9
500-235842-10	R32S	93.9
500-235842-11	G44S	92.1
500-235842-12	G46S	94.4
500-235842-12 DU	G46S	95.4
500-235842-13	G45S	92.7
500-235842-14	G48S	91.7
500-235842-15	G47S	93.7
500-235842-16	T03S	92.7
500-235842-17	DUP	90.7
500-235842-18	T02S	86.4
500-235842-19	T08S	91.7
500-235842-20	T01S	76.9
500-235842-20 DU	T01S	89.4
500-235842-21	T05S	93.2
LCS 160-618200/2-A	Lab Control Sample	97.7
LCS 160-618532/2-A	Lab Control Sample	98.2
LCS 160-618898/2-A	Lab Control Sample	89.7
LCS 160-619283/2-A	Lab Control Sample	93.5
MB 160-618200/1-A	Method Blank	100
MB 160-618532/1-A	Method Blank	91.6
MB 160-618898/1-A	Method Blank	100
MB 160-619283/1-A	Method Blank	97.2

#### Tracer/Carrier Legend

Ba = Ba Carrier

# Tracer/Carrier Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Method: 904.0 - Radium-228 (GFPC)**

**Matrix: GW**

**Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-235842-5	G20S	90.5	87.5
500-235842-5 DU	G20S	92.0	86.7
500-235842-6	R08S	96.0	86.0
<b>Tracer/Carrier Legend</b>			
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 (30-110)	Y (30-110)
500-235842-1	T13S	94.9	87.1
500-235842-1 DU	T13S	93.4	83.7
500-235842-2	T12S	94.1	82.2
500-235842-3	T09S	88.8	82.6
500-235842-4	T06S	91.6	82.2
500-235842-7	G33S	49.5	87.9
500-235842-8	G31S	93.0	85.6
500-235842-9	G30S	95.9	83.4
500-235842-10	R32S	93.9	82.2
500-235842-11	G44S	92.1	88.6
500-235842-12	G46S	94.4	87.9
500-235842-12 DU	G46S	95.4	87.1
500-235842-13	G45S	92.7	86.4
500-235842-14	G48S	91.7	86.7
500-235842-15	G47S	93.7	89.7
500-235842-16	T03S	92.7	88.6
500-235842-17	DUP	90.7	89.0
500-235842-18	T02S	86.4	85.6
500-235842-19	T08S	91.7	82.6
500-235842-20	T01S	76.9	82.6
500-235842-20 DU	T01S	89.4	86.7
500-235842-21	T05S	93.2	90.1
LCS 160-618201/2-A	Lab Control Sample	97.7	78.5
LCS 160-618534/2-A	Lab Control Sample	98.2	86.4
LCS 160-618899/2-A	Lab Control Sample	89.7	84.1
LCS 160-619284/2-A	Lab Control Sample	93.5	85.2
MB 160-618201/1-A	Method Blank	100	81.9
MB 160-618534/1-A	Method Blank	91.6	86.7
MB 160-618899/1-A	Method Blank	100	86.7
MB 160-619284/1-A	Method Blank	97.2	81.1
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			
Y = Y Carrier			

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: John Niedzwiecki  
Midwest Generation EME LLC  
1800 Channahon Road  
Joliet, Illinois 60436

Generated 11/16/2023 3:53:22 PM Revision 1

**JOB DESCRIPTION**

Joliet #9 (Quarry) CCR 3Q23

**JOB NUMBER**

500-239151-1

# Eurofins Chicago

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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Revision 1

Authorized for release by  
Diana Mockler, Project Manager I  
[Diana.Mockler@et.eurofinsus.com](mailto:Diana.Mockler@et.eurofinsus.com)  
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# Case Narrative

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

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## Job ID: 500-239151-1

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### Laboratory: Eurofins Chicago

#### Narrative

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#### Job Narrative 500-239151-1

#### Receipt

The samples were received on 9/6/2023 3:13 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 1.8° C, 2.1° C, 2.7° C, 3.5° C, 3.7° C, 3.8° C, 4.6° C, 5.2° C and 5.2° C.

#### Metals

Method 6020B: The following samples were diluted due to the nature of the sample matrix: T11S (500-239151-22) and G39S (500-239151-24). Elevated reporting limits (RLs) are provided.

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

#### General Chemistry

Method SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-732370 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.

Method SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-732578 were outside control limits for Chloride. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-733424 were outside control limits for one or more analytes. The associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-733424 were outside control limits for one or more analytes. The associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 F C: The matrix spike (MS) recoveries for analytical batch 500-736942 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method SM 4500 Cl- E: The original reported result for this sample was investigated upon client request. The sample was originally ran and the data was rejected inadvertently by the analyst. It is believed the analyst used a different sample in the reanalysis. The original analysis was within historical range. The data review confirmed the original data which has been reported.

G20S (500-239151-1)

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 3Q23

Job ID: 500-239151-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
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 CF
7470A	Preparation, Mercury	SW846	EET CF

#### 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 CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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 3Q23

Job ID: 500-239151-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-239151-1	G20S	Water	09/06/23 09:48	09/06/23 15:13
500-239151-2	G31S	Water	09/06/23 13:48	09/06/23 15:13
500-239151-3	G48S	Water	09/07/23 09:38	09/07/23 14:29
500-239151-4	G47S	Water	09/07/23 11:03	09/07/23 14:29
500-239151-5	R08S	Water	09/07/23 12:55	09/07/23 14:29
500-239151-6	G30S	Water	09/12/23 10:03	09/12/23 15:37
500-239151-7	R32S	Water	09/12/23 11:37	09/12/23 15:37
500-239151-8	T12S	Water	09/12/23 12:57	09/12/23 15:37
500-239151-9	G33S	Water	09/12/23 13:51	09/12/23 15:37
500-239151-10	G46S	Water	09/13/23 09:44	09/13/23 15:10
500-239151-11	G38S	Water	09/13/23 10:48	09/13/23 15:10
500-239151-12	T03S	Water	09/13/23 11:45	09/13/23 15:10
500-239151-13	G44S	Water	09/13/23 13:52	09/13/23 15:10
500-239151-14	G45S	Water	09/14/23 14:10	09/14/23 15:25
500-239151-15	T09S	Water	09/19/23 11:28	09/19/23 15:38
500-239151-16	T06S	Water	09/19/23 13:28	09/19/23 15:38
500-239151-17	T13S	Water	09/26/23 11:25	09/26/23 14:40
500-239151-18	T13S Dup	Water	09/26/23 11:25	09/26/23 14:40
500-239151-19	T02S	Water	09/27/23 10:47	09/27/23 16:00
500-239151-20	T08S	Water	09/27/23 12:24	09/27/23 16:00
500-239151-21	T05S	Water	09/27/23 14:03	09/27/23 16:00
500-239151-22	T11S	Water	09/28/23 09:38	09/28/23 14:40
500-239151-23	T01S	Water	09/28/23 11:27	09/28/23 14:40
500-239151-24	G39S	Water	09/28/23 13:23	09/28/23 14:40

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G20S**

**Lab Sample ID: 500-239151-1**

Date Collected: 09/06/23 09:48

Matrix: Water

Date Received: 09/06/23 15:13

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/12/23 09:40	09/22/23 13:35	1
Arsenic	<0.0020		0.0020		mg/L		09/12/23 09:40	09/21/23 17:46	1
<b>Barium</b>	<b>0.043</b>		0.0020		mg/L		09/12/23 09:40	09/22/23 13:35	1
Beryllium	<0.0010		0.0010		mg/L		09/12/23 09:40	09/21/23 17:46	1
<b>Boron</b>	<b>1.2</b>		0.10		mg/L		09/12/23 09:40	09/25/23 14:36	1
Cadmium	<0.00020		0.00020		mg/L		09/12/23 09:40	09/21/23 17:46	1
<b>Calcium</b>	<b>57</b>		0.50		mg/L		09/12/23 09:40	09/22/23 13:35	1
Chromium	<0.0050		0.0050		mg/L		09/12/23 09:40	09/21/23 17:46	1
Cobalt	<0.00050		0.00050		mg/L		09/12/23 09:40	09/21/23 17:46	1
Lead	<0.00050		0.00050		mg/L		09/12/23 09:40	09/21/23 17:46	1
<b>Lithium</b>	<b>0.033</b>		0.010		mg/L		09/12/23 09:40	09/21/23 17:46	1
<b>Molybdenum</b>	<b>0.012</b>		0.0020		mg/L		09/12/23 09:40	09/21/23 17:46	1
Selenium	<0.0050		0.0050		mg/L		09/12/23 09:40	09/21/23 17:46	1
Thallium	<0.0010		0.0010		mg/L		09/12/23 09:40	09/25/23 14:36	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 11:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>400</b>		10		mg/L			09/06/23 20:55	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>18</b>		2.0		mg/L			09/14/23 15:34	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.77</b>		0.10		mg/L			09/18/23 13:02	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>62</b>		10		mg/L			09/20/23 15:37	2

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>55.57</b>				ft			09/06/23 09:48	1
<b>Depth to Water (ft from MP)</b>	<b>58.35</b>				ft			09/06/23 09:48	1
<b>Elevation of well (ft from MP)</b>	<b>580.87</b>				ft			09/06/23 09:48	1
<b>Field pH</b>	<b>7.47</b>				SU			09/06/23 09:48	1
<b>Field Temperature</b>	<b>77.0</b>				Degrees F			09/06/23 09:48	1
<b>Ground Water Elevation</b>	<b>522.52</b>				ft			09/06/23 09:48	1
<b>Specific Conductance</b>	<b>705</b>				umhos/cm			09/06/23 09:48	1
<b>Well bottom elevation</b>	<b>442.28</b>				ft			09/06/23 09:48	1
<b>Field Turbidity</b>	<b>1.17</b>				NTU			09/06/23 09:48	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G31S**

**Lab Sample ID: 500-239151-2**

Date Collected: 09/06/23 13:48

Matrix: Water

Date Received: 09/06/23 15:13

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/12/23 09:40	09/22/23 13:39	1
<b>Arsenic</b>	<b>0.0025</b>		0.0020		mg/L		09/12/23 09:40	09/21/23 17:50	1
<b>Barium</b>	<b>0.043</b>		0.0020		mg/L		09/12/23 09:40	09/22/23 13:39	1
Beryllium	<0.0010		0.0010		mg/L		09/12/23 09:40	09/21/23 17:50	1
<b>Boron</b>	<b>2.8</b>		0.10		mg/L		09/12/23 09:40	09/25/23 14:39	1
Cadmium	<0.00020		0.00020		mg/L		09/12/23 09:40	09/21/23 17:50	1
<b>Calcium</b>	<b>140</b>		0.50		mg/L		09/12/23 09:40	09/22/23 13:39	1
Chromium	<0.0050		0.0050		mg/L		09/12/23 09:40	09/21/23 17:50	1
Cobalt	<0.00050		0.00050		mg/L		09/12/23 09:40	09/21/23 17:50	1
Lead	<0.00050		0.00050		mg/L		09/12/23 09:40	09/21/23 17:50	1
<b>Lithium</b>	<b>0.061</b>		0.010		mg/L		09/12/23 09:40	09/21/23 17:50	1
<b>Molybdenum</b>	<b>0.49</b>		0.0020		mg/L		09/12/23 09:40	09/21/23 17:50	1
Selenium	<0.0050		0.0050		mg/L		09/12/23 09:40	09/21/23 17:50	1
Thallium	<0.0010		0.0010		mg/L		09/12/23 09:40	09/25/23 14:39	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 11:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1200</b>		10		mg/L			09/06/23 21:02	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>190</b>	<b>F1</b>	20		mg/L			09/14/23 15:16	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.25</b>		0.10		mg/L			09/18/23 13:06	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>410</b>		100		mg/L			09/20/23 15:36	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>26.39</b>				ft			09/06/23 13:48	1
<b>Depth to Water (ft from MP)</b>	<b>28.97</b>				ft			09/06/23 13:48	1
<b>Elevation of well (ft from MP)</b>	<b>535.73</b>				ft			09/06/23 13:48	1
<b>Field pH</b>	<b>7.42</b>				SU			09/06/23 13:48	1
<b>Field Temperature</b>	<b>61.5</b>				Degrees F			09/06/23 13:48	1
<b>Ground Water Elevation</b>	<b>506.76</b>				ft			09/06/23 13:48	1
<b>Specific Conductance</b>	<b>1750</b>				umhos/cm			09/06/23 13:48	1
<b>Well bottom elevation</b>	<b>453.36</b>				ft			09/06/23 13:48	1
<b>Field Turbidity</b>	<b>0.65</b>				NTU			09/06/23 13:48	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G48S**

**Lab Sample ID: 500-239151-3**

Date Collected: 09/07/23 09:38

Matrix: Water

Date Received: 09/07/23 14:29

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/12/23 09:40	09/22/23 13:42	1
<b>Arsenic</b>	<b>0.0097</b>		0.0020		mg/L		09/12/23 09:40	09/21/23 17:54	1
<b>Barium</b>	<b>0.016</b>		0.0020		mg/L		09/12/23 09:40	09/22/23 13:42	1
Beryllium	<0.0010		0.0010		mg/L		09/12/23 09:40	09/21/23 17:54	1
<b>Boron</b>	<b>5.1</b>		0.40		mg/L		09/12/23 09:40	09/25/23 14:41	4
Cadmium	<0.00020		0.00020		mg/L		09/12/23 09:40	09/21/23 17:54	1
<b>Calcium</b>	<b>25</b>		0.50		mg/L		09/12/23 09:40	09/22/23 13:42	1
Chromium	<0.0050		0.0050		mg/L		09/12/23 09:40	09/21/23 17:54	1
Cobalt	<0.00050		0.00050		mg/L		09/12/23 09:40	09/21/23 17:54	1
Lead	<0.00050		0.00050		mg/L		09/12/23 09:40	09/21/23 17:54	1
<b>Lithium</b>	<b>0.019</b>		0.010		mg/L		09/12/23 09:40	09/21/23 17:54	1
<b>Molybdenum</b>	<b>0.32</b>		0.0020		mg/L		09/12/23 09:40	09/21/23 17:54	1
Selenium	<0.0050		0.0050		mg/L		09/12/23 09:40	09/21/23 17:54	1
Thallium	<0.0040		0.0040		mg/L		09/12/23 09:40	09/25/23 14:41	4

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 11:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>940</b>		10		mg/L			09/07/23 21:13	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>100</b>		10		mg/L			09/15/23 15:09	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.93</b>		0.10		mg/L			09/18/23 13:11	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>390</b>		50		mg/L			09/20/23 15:39	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>100.80</b>				ft			09/07/23 09:38	1
<b>Depth to Water (ft from MP)</b>	<b>103.25</b>				ft			09/07/23 09:38	1
<b>Elevation of well (ft from MP)</b>	<b>620.77</b>				ft			09/07/23 09:38	1
<b>Field pH</b>	<b>7.75</b>				SU			09/07/23 09:38	1
<b>Field Temperature</b>	<b>59.9</b>				Degrees F			09/07/23 09:38	1
<b>Ground Water Elevation</b>	<b>517.52</b>				ft			09/07/23 09:38	1
<b>Specific Conductance</b>	<b>1450</b>				umhos/cm			09/07/23 09:38	1
<b>Well bottom elevation</b>	<b>468.32</b>				ft			09/07/23 09:38	1
<b>Field Turbidity</b>	<b>1.56</b>				NTU			09/07/23 09:38	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G47S**

**Lab Sample ID: 500-239151-4**

Date Collected: 09/07/23 11:03

Matrix: Water

Date Received: 09/07/23 14:29

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0080		0.0080		mg/L		09/12/23 09:40	09/22/23 13:45	4
<b>Arsenic</b>	<b>0.033</b>		0.0020		mg/L		09/12/23 09:40	09/21/23 17:57	1
<b>Barium</b>	<b>0.011</b>		0.0080		mg/L		09/12/23 09:40	09/22/23 13:45	4
Beryllium	<0.0010		0.0010		mg/L		09/12/23 09:40	09/21/23 17:57	1
<b>Boron</b>	<b>6.1</b>		0.40		mg/L		09/12/23 09:40	09/25/23 14:43	4
Cadmium	<0.00020		0.00020		mg/L		09/12/23 09:40	09/21/23 17:57	1
<b>Calcium</b>	<b>9.4</b>		2.0		mg/L		09/12/23 09:40	09/22/23 13:45	4
Chromium	<0.0050		0.0050		mg/L		09/12/23 09:40	09/21/23 17:57	1
Cobalt	<0.00050		0.00050		mg/L		09/12/23 09:40	09/21/23 17:57	1
Lead	<0.00050		0.00050		mg/L		09/12/23 09:40	09/21/23 17:57	1
<b>Lithium</b>	<b>0.039</b>		0.010		mg/L		09/12/23 09:40	09/21/23 17:57	1
<b>Molybdenum</b>	<b>0.50</b>		0.0020		mg/L		09/12/23 09:40	09/21/23 17:57	1
Selenium	<0.0050		0.0050		mg/L		09/12/23 09:40	09/21/23 17:57	1
Thallium	<0.0040		0.0040		mg/L		09/12/23 09:40	09/25/23 14:43	4

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 11:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1000</b>		10		mg/L			09/07/23 21:16	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>100</b>	<b>F1</b>	10		mg/L			09/15/23 15:09	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.64</b>		0.10		mg/L			09/18/23 13:15	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>450</b>		50		mg/L			09/20/23 15:39	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>92.76</b>				ft			09/07/23 11:03	1
<b>Depth to Water (ft from MP)</b>	<b>95.26</b>				ft			09/07/23 11:03	1
<b>Elevation of well (ft from MP)</b>	<b>612.23</b>				ft			09/07/23 11:03	1
<b>Field pH</b>	<b>7.77</b>				SU			09/07/23 11:03	1
<b>Field Temperature</b>	<b>58.3</b>				Degrees F			09/07/23 11:03	1
<b>Ground Water Elevation</b>	<b>516.97</b>				ft			09/07/23 11:03	1
<b>Specific Conductance</b>	<b>1590</b>				umhos/cm			09/07/23 11:03	1
<b>Well bottom elevation</b>	<b>459.84</b>				ft			09/07/23 11:03	1
<b>Field Turbidity</b>	<b>0.18</b>				NTU			09/07/23 11:03	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: R08S**

**Lab Sample ID: 500-239151-5**

Date Collected: 09/07/23 12:55

Matrix: Water

Date Received: 09/07/23 14:29

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0080		0.0080		mg/L		09/12/23 09:40	09/22/23 13:49	4
Arsenic	<0.0020		0.0020		mg/L		09/12/23 09:40	09/21/23 18:01	1
<b>Barium</b>	<b>0.036</b>		0.0080		mg/L		09/12/23 09:40	09/22/23 13:49	4
Beryllium	<0.0010		0.0010		mg/L		09/12/23 09:40	09/21/23 18:01	1
<b>Boron</b>	<b>7.0</b>		0.40		mg/L		09/12/23 09:40	09/25/23 14:45	4
Cadmium	<0.00020		0.00020		mg/L		09/12/23 09:40	09/21/23 18:01	1
<b>Calcium</b>	<b>130</b>		2.0		mg/L		09/12/23 09:40	09/22/23 13:49	4
Chromium	<0.0050		0.0050		mg/L		09/12/23 09:40	09/21/23 18:01	1
Cobalt	<0.00050		0.00050		mg/L		09/12/23 09:40	09/21/23 18:01	1
Lead	<0.00050		0.00050		mg/L		09/12/23 09:40	09/21/23 18:01	1
<b>Lithium</b>	<b>0.13</b>		0.010		mg/L		09/12/23 09:40	09/21/23 18:01	1
<b>Molybdenum</b>	<b>0.34</b>		0.0020		mg/L		09/12/23 09:40	09/21/23 18:01	1
<b>Selenium</b>	<b>0.0062</b>		0.0050		mg/L		09/12/23 09:40	09/21/23 18:01	1
Thallium	<0.0040		0.0040		mg/L		09/12/23 09:40	09/25/23 14:45	4

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>760</b>		10		mg/L			09/07/23 21:19	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>81</b>		4.0		mg/L			09/15/23 15:09	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.13</b>		0.10		mg/L			09/18/23 13:20	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>410</b>		50		mg/L			09/20/23 15:37	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>67.30</b>				ft			09/07/23 12:55	1
<b>Depth to Water (ft from MP)</b>	<b>69.85</b>				ft			09/07/23 12:55	1
<b>Elevation of well (ft from MP)</b>	<b>578.66</b>				ft			09/07/23 12:55	1
<b>Field pH</b>	<b>8.05</b>				SU			09/07/23 12:55	1
<b>Field Temperature</b>	<b>57.7</b>				Degrees F			09/07/23 12:55	1
<b>Ground Water Elevation</b>	<b>508.81</b>				ft			09/07/23 12:55	1
<b>Specific Conductance</b>	<b>1044</b>				umhos/cm			09/07/23 12:55	1
<b>Well bottom elevation</b>	<b>453.08</b>				ft			09/07/23 12:55	1
<b>Field Turbidity</b>	<b>0.15</b>				NTU			09/07/23 12:55	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G30S**

**Lab Sample ID: 500-239151-6**

Date Collected: 09/12/23 10:03

Matrix: Water

Date Received: 09/12/23 15:37

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 17:05	1
Arsenic	<0.0020		0.0020		mg/L		09/18/23 10:00	09/29/23 18:19	1
<b>Barium</b>	<b>0.042</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:19	1
Beryllium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/29/23 18:19	1
<b>Boron</b>	<b>4.5</b>		0.10		mg/L		09/18/23 10:00	09/30/23 17:05	1
Cadmium	<0.00020		0.00020		mg/L		09/18/23 10:00	09/29/23 18:19	1
<b>Calcium</b>	<b>48</b>		0.50		mg/L		09/18/23 10:00	09/29/23 18:19	1
Chromium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:19	1
Cobalt	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:19	1
Lead	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:19	1
<b>Lithium</b>	<b>0.021</b>		0.010		mg/L		09/18/23 10:00	09/30/23 17:05	1
<b>Molybdenum</b>	<b>0.0058</b>		0.0020		mg/L		09/18/23 10:00	09/30/23 17:05	1
Selenium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:19	1
<b>Thallium</b>	<b>0.0021</b>		0.0010		mg/L		09/18/23 10:00	09/30/23 17:05	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/18/23 10:47	09/19/23 11:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1300</b>		10		mg/L			09/12/23 20:30	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>220</b>		10		mg/L			09/15/23 15:10	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.93</b>		0.10		mg/L			09/18/23 13:25	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>480</b>		50		mg/L			09/20/23 15:37	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>-0.25</b>				ft			09/12/23 10:03	1
<b>Depth to Water (ft from MP)</b>	<b>2.06</b>				ft			09/12/23 10:03	1
<b>Elevation of well (ft from MP)</b>	<b>524.86</b>				ft			09/12/23 10:03	1
<b>Field pH</b>	<b>7.67</b>				SU			09/12/23 10:03	1
<b>Field Temperature</b>	<b>57.9</b>				Degrees F			09/12/23 10:03	1
<b>Ground Water Elevation</b>	<b>522.80</b>				ft			09/12/23 10:03	1
<b>Specific Conductance</b>	<b>1930</b>				umhos/cm			09/12/23 10:03	1
<b>Well bottom elevation</b>	<b>462.58</b>				ft			09/12/23 10:03	1
<b>Field Turbidity</b>	<b>0.71</b>				NTU			09/12/23 10:03	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: R32S**

**Lab Sample ID: 500-239151-7**

Date Collected: 09/12/23 11:37

Matrix: Water

Date Received: 09/12/23 15:37

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 17:08	1
Arsenic	<0.0020		0.0020		mg/L		09/18/23 10:00	09/29/23 18:23	1
<b>Barium</b>	<b>0.030</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:23	1
Beryllium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/29/23 18:23	1
<b>Boron</b>	<b>2.8</b>		0.10		mg/L		09/18/23 10:00	09/30/23 17:08	1
Cadmium	<0.00020		0.00020		mg/L		09/18/23 10:00	09/29/23 18:23	1
<b>Calcium</b>	<b>88</b>		0.50		mg/L		09/18/23 10:00	09/29/23 18:23	1
Chromium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:23	1
Cobalt	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:23	1
Lead	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:23	1
<b>Lithium</b>	<b>0.074</b>		0.010		mg/L		09/18/23 10:00	09/30/23 17:08	1
<b>Molybdenum</b>	<b>0.42</b>		0.0020		mg/L		09/18/23 10:00	09/30/23 17:08	1
Selenium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:23	1
Thallium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/30/23 17:08	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/18/23 10:47	09/19/23 11:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>790</b>		10		mg/L			09/13/23 21:39	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>50</b>		4.0		mg/L			09/15/23 15:09	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.29</b>		0.10		mg/L			09/18/23 13:29	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>380</b>		100		mg/L			09/20/23 15:34	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>20.31</b>				ft			09/12/23 11:37	1
<b>Depth to Water (ft from MP)</b>	<b>22.34</b>				ft			09/12/23 11:37	1
<b>Elevation of well (ft from MP)</b>	<b>536.97</b>				ft			09/12/23 11:37	1
<b>Field pH</b>	<b>7.60</b>				SU			09/12/23 11:37	1
<b>Field Temperature</b>	<b>54.7</b>				Degrees F			09/12/23 11:37	1
<b>Ground Water Elevation</b>	<b>514.63</b>				ft			09/12/23 11:37	1
<b>Specific Conductance</b>	<b>921</b>				umhos/cm			09/12/23 11:37	1
<b>Well bottom elevation</b>	<b>457.84</b>				ft			09/12/23 11:37	1
<b>Field Turbidity</b>	<b>0.52</b>				NTU			09/12/23 11:37	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T12S**

**Lab Sample ID: 500-239151-8**

Date Collected: 09/12/23 12:57

Matrix: Water

Date Received: 09/12/23 15:37

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 17:10	1
<b>Arsenic</b>	<b>0.0047</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:26	1
<b>Barium</b>	<b>0.057</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:26	1
Beryllium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/29/23 18:26	1
<b>Boron</b>	<b>6.4</b>		0.40		mg/L		09/18/23 10:00	10/02/23 12:31	4
Cadmium	<0.00020		0.00020		mg/L		09/18/23 10:00	09/29/23 18:26	1
<b>Calcium</b>	<b>100</b>		0.50		mg/L		09/18/23 10:00	09/29/23 18:26	1
Chromium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:26	1
Cobalt	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:26	1
Lead	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:26	1
<b>Lithium</b>	<b>0.15</b>		0.010		mg/L		09/18/23 10:00	09/30/23 17:10	1
<b>Molybdenum</b>	<b>0.67</b>		0.0020		mg/L		09/18/23 10:00	09/30/23 17:10	1
Selenium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:26	1
Thallium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/30/23 17:10	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/18/23 10:47	09/19/23 11:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>810</b>		10		mg/L			09/13/23 21:46	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>80</b>		4.0		mg/L			09/15/23 15:10	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.19</b>		0.10		mg/L			09/18/23 13:34	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>350</b>		100		mg/L			09/20/23 15:35	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>70.65</b>				ft			09/12/23 12:57	1
<b>Depth to Water (ft from MP)</b>	<b>73.39</b>				ft			09/12/23 12:57	1
<b>Elevation of well (ft from MP)</b>	<b>578.74</b>				ft			09/12/23 12:57	1
<b>Field pH</b>	<b>7.46</b>				SU			09/12/23 12:57	1
<b>Field Temperature</b>	<b>57.0</b>				Degrees F			09/12/23 12:57	1
<b>Ground Water Elevation</b>	<b>505.35</b>				ft			09/12/23 12:57	1
<b>Specific Conductance</b>	<b>1166</b>				umhos/cm			09/12/23 12:57	1
<b>Well bottom elevation</b>	<b>452.24</b>				ft			09/12/23 12:57	1
<b>Field Turbidity</b>	<b>3.27</b>				NTU			09/12/23 12:57	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G33S**

**Lab Sample ID: 500-239151-9**

Date Collected: 09/12/23 13:51

Matrix: Water

Date Received: 09/12/23 15:37

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 17:26	1
<b>Arsenic</b>	<b>0.0020</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:29	1
<b>Barium</b>	<b>0.079</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:29	1
Beryllium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/29/23 18:29	1
<b>Boron</b>	<b>0.88</b>		0.10		mg/L		09/18/23 10:00	09/30/23 17:26	1
Cadmium	<0.00020		0.00020		mg/L		09/18/23 10:00	09/29/23 18:29	1
<b>Calcium</b>	<b>53</b>		0.50		mg/L		09/18/23 10:00	09/29/23 18:29	1
Chromium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:29	1
Cobalt	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:29	1
<b>Lead</b>	<b>0.0070</b>		0.00050		mg/L		09/18/23 10:00	09/29/23 18:29	1
<b>Lithium</b>	<b>0.033</b>		0.010		mg/L		09/18/23 10:00	09/30/23 17:26	1
Molybdenum	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 17:26	1
Selenium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:29	1
Thallium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/30/23 17:26	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/18/23 10:47	09/19/23 11:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>430</b>		10		mg/L			09/13/23 21:52	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>15</b>		2.0		mg/L			09/15/23 15:56	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.61</b>		0.10		mg/L			09/18/23 13:49	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>77</b>		10		mg/L			09/20/23 16:46	2

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>37.33</b>				ft			09/12/23 13:51	1
<b>Depth to Water (ft from MP)</b>	<b>39.06</b>				ft			09/12/23 13:51	1
<b>Elevation of well (ft from MP)</b>	<b>535.67</b>				ft			09/12/23 13:51	1
<b>Field pH</b>	<b>7.61</b>				SU			09/12/23 13:51	1
<b>Field Temperature</b>	<b>70.2</b>				Degrees F			09/12/23 13:51	1
<b>Ground Water Elevation</b>	<b>496.61</b>				ft			09/12/23 13:51	1
<b>Specific Conductance</b>	<b>741</b>				umhos/cm			09/12/23 13:51	1
<b>Well bottom elevation</b>	<b>452.72</b>				ft			09/12/23 13:51	1
<b>Field Turbidity</b>	<b>776</b>				NTU			09/12/23 13:51	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G46S**

**Lab Sample ID: 500-239151-10**

Date Collected: 09/13/23 09:44

Matrix: Water

Date Received: 09/13/23 15:10

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 17:28	1
<b>Arsenic</b>	<b>0.11</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:33	1
<b>Barium</b>	<b>0.059</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:33	1
Beryllium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/29/23 18:33	1
<b>Boron</b>	<b>7.5</b>		0.40		mg/L		09/18/23 10:00	10/02/23 12:33	4
Cadmium	<0.00020		0.00020		mg/L		09/18/23 10:00	09/29/23 18:33	1
<b>Calcium</b>	<b>100</b>		0.50		mg/L		09/18/23 10:00	09/29/23 18:33	1
Chromium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:33	1
<b>Cobalt</b>	<b>0.0012</b>		0.00050		mg/L		09/18/23 10:00	09/29/23 18:33	1
Lead	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:33	1
<b>Lithium</b>	<b>0.17</b>		0.010		mg/L		09/18/23 10:00	09/30/23 17:28	1
<b>Molybdenum</b>	<b>1.1</b>		0.0020		mg/L		09/18/23 10:00	09/30/23 17:28	1
Selenium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:33	1
Thallium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/30/23 17:28	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/18/23 10:47	09/19/23 11:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>920</b>		10		mg/L			09/13/23 21:54	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>72</b>		4.0		mg/L			09/15/23 16:38	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.24</b>		0.10		mg/L			09/18/23 13:53	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>460</b>		100		mg/L			09/20/23 15:35	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>103.42</b>				ft			09/13/23 09:44	1
<b>Depth to Water (ft from MP)</b>	<b>106.12</b>				ft			09/13/23 09:44	1
<b>Elevation of well (ft from MP)</b>	<b>601.41</b>				ft			09/13/23 09:44	1
<b>Field pH</b>	<b>7.48</b>				SU			09/13/23 09:44	1
<b>Field Temperature</b>	<b>56.9</b>				Degrees F			09/13/23 09:44	1
<b>Ground Water Elevation</b>	<b>495.29</b>				ft			09/13/23 09:44	1
<b>Specific Conductance</b>	<b>1308</b>				umhos/cm			09/13/23 09:44	1
<b>Well bottom elevation</b>	<b>453.62</b>				ft			09/13/23 09:44	1
<b>Field Turbidity</b>	<b>113</b>				NTU			09/13/23 09:44	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G38S**

**Lab Sample ID: 500-239151-11**

Date Collected: 09/13/23 10:48

Matrix: Water

Date Received: 09/13/23 15:10

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 17:30	1
<b>Arsenic</b>	<b>0.0064</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:36	1
<b>Barium</b>	<b>0.043</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:36	1
Beryllium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/29/23 18:36	1
<b>Boron</b>	<b>7.6</b>		0.40		mg/L		09/18/23 10:00	10/02/23 12:36	4
Cadmium	<0.00020		0.00020		mg/L		09/18/23 10:00	09/29/23 18:36	1
<b>Calcium</b>	<b>48</b>		0.50		mg/L		09/18/23 10:00	09/29/23 18:36	1
Chromium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:36	1
Cobalt	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:36	1
Lead	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:36	1
<b>Lithium</b>	<b>0.046</b>		0.010		mg/L		09/18/23 10:00	09/30/23 17:30	1
<b>Molybdenum</b>	<b>0.85</b>		0.0020		mg/L		09/18/23 10:00	09/30/23 17:30	1
Selenium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:36	1
Thallium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/30/23 17:30	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/18/23 10:47	09/19/23 11:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>930</b>		10		mg/L			09/13/23 21:57	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>62</b>		4.0		mg/L			09/15/23 16:39	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.26</b>		0.10		mg/L			09/18/23 13:58	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>480</b>		50		mg/L			09/20/23 16:46	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>96.21</b>				ft			09/13/23 10:48	1
<b>Depth to Water (ft from MP)</b>	<b>98.43</b>				ft			09/13/23 10:48	1
<b>Elevation of well (ft from MP)</b>	<b>610.59</b>				ft			09/13/23 10:48	1
<b>Field pH</b>	<b>7.77</b>				SU			09/13/23 10:48	1
<b>Field Temperature</b>	<b>57.8</b>				Degrees F			09/13/23 10:48	1
<b>Ground Water Elevation</b>	<b>512.16</b>				ft			09/13/23 10:48	1
<b>Specific Conductance</b>	<b>1344</b>				umhos/cm			09/13/23 10:48	1
<b>Well bottom elevation</b>	<b>457.57</b>				ft			09/13/23 10:48	1
<b>Field Turbidity</b>	<b>0.21</b>				NTU			09/13/23 10:48	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T03S**

**Lab Sample ID: 500-239151-12**

Date Collected: 09/13/23 11:45

Matrix: Water

Date Received: 09/13/23 15:10

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 17:32	1
Arsenic	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 17:32	1
<b>Barium</b>	<b>0.080</b>		0.0020		mg/L		09/18/23 10:00	09/30/23 17:32	1
Beryllium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/30/23 17:32	1
<b>Boron</b>	<b>1.7</b>		0.10		mg/L		09/18/23 10:00	09/30/23 17:32	1
Cadmium	<0.00020		0.00020		mg/L		09/18/23 10:00	09/30/23 17:32	1
<b>Calcium</b>	<b>130</b>		0.50		mg/L		09/18/23 10:00	09/30/23 17:32	1
Chromium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/30/23 17:32	1
<b>Cobalt</b>	<b>0.0010</b>		0.00050		mg/L		09/18/23 10:00	09/30/23 17:32	1
Lead	<0.00050		0.00050		mg/L		09/18/23 10:00	09/30/23 17:32	1
<b>Lithium</b>	<b>0.026</b>		0.010		mg/L		09/18/23 10:00	09/30/23 17:32	1
<b>Molybdenum</b>	<b>0.14</b>		0.0020		mg/L		09/18/23 10:00	09/30/23 17:32	1
Selenium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/30/23 17:32	1
Thallium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/30/23 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		09/18/23 10:47	09/19/23 11:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>910</b>		10		mg/L			09/13/23 21:59	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		10		mg/L			09/15/23 16:39	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.20</b>		0.10		mg/L			09/18/23 14:03	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>220</b>		50		mg/L			09/20/23 15:43	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>135.52</b>				ft			09/13/23 11:45	1
<b>Depth to Water (ft from MP)</b>	<b>138.60</b>				ft			09/13/23 11:45	1
<b>Elevation of well (ft from MP)</b>	<b>629.85</b>				ft			09/13/23 11:45	1
<b>Field pH</b>	<b>7.56</b>				SU			09/13/23 11:45	1
<b>Field Temperature</b>	<b>55.8</b>				Degrees F			09/13/23 11:45	1
<b>Ground Water Elevation</b>	<b>491.25</b>				ft			09/13/23 11:45	1
<b>Specific Conductance</b>	<b>1307</b>				umhos/cm			09/13/23 11:45	1
<b>Well bottom elevation</b>	<b>456.70</b>				ft			09/13/23 11:45	1
<b>Field Turbidity</b>	<b>0.22</b>				NTU			09/13/23 11:45	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G44S**

**Lab Sample ID: 500-239151-13**

Date Collected: 09/13/23 13:52

Matrix: Water

Date Received: 09/13/23 15:10

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 17:34	1
Arsenic	<0.0020		0.0020		mg/L		09/18/23 10:00	09/29/23 18:43	1
<b>Barium</b>	<b>0.062</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:43	1
Beryllium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/29/23 18:43	1
<b>Boron</b>	<b>1.7</b>		0.10		mg/L		09/18/23 10:00	09/30/23 17:34	1
Cadmium	<0.00020		0.00020		mg/L		09/18/23 10:00	09/29/23 18:43	1
<b>Calcium</b>	<b>100</b>		0.50		mg/L		09/18/23 10:00	09/29/23 18:43	1
Chromium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:43	1
Cobalt	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:43	1
Lead	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:43	1
<b>Lithium</b>	<b>0.024</b>		0.010		mg/L		09/18/23 10:00	09/30/23 17:34	1
<b>Molybdenum</b>	<b>0.21</b>		0.0020		mg/L		09/18/23 10:00	09/30/23 17:34	1
Selenium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:43	1
Thallium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/30/23 17:34	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/18/23 10:47	09/19/23 11:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>720</b>		10		mg/L			09/13/23 22:02	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>68</b>		4.0		mg/L			09/15/23 16:39	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.21</b>		0.10		mg/L			09/18/23 14:07	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>160</b>		25		mg/L			09/20/23 15:37	5

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>80.57</b>				ft			09/13/23 13:52	1
<b>Depth to Water (ft from MP)</b>	<b>82.75</b>				ft			09/13/23 13:52	1
<b>Elevation of well (ft from MP)</b>	<b>586.68</b>				ft			09/13/23 13:52	1
<b>Field pH</b>	<b>7.01</b>				SU			09/13/23 13:52	1
<b>Field Temperature</b>	<b>57.8</b>				Degrees F			09/13/23 13:52	1
<b>Ground Water Elevation</b>	<b>503.93</b>				ft			09/13/23 13:52	1
<b>Specific Conductance</b>	<b>1152</b>				umhos/cm			09/13/23 13:52	1
<b>Well bottom elevation</b>	<b>455.11</b>				ft			09/13/23 13:52	1
<b>Field Turbidity</b>	<b>0.93</b>				NTU			09/13/23 13:52	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G45S**

**Lab Sample ID: 500-239151-14**

Date Collected: 09/14/23 14:10

Matrix: Water

Date Received: 09/14/23 15:25

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 17:37	1
<b>Arsenic</b>	<b>0.0098</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:46	1
<b>Barium</b>	<b>0.033</b>		0.0020		mg/L		09/18/23 10:00	09/29/23 18:46	1
Beryllium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/29/23 18:46	1
<b>Boron</b>	<b>0.46</b>		0.10		mg/L		09/18/23 10:00	09/30/23 17:37	1
Cadmium	<0.00020		0.00020		mg/L		09/18/23 10:00	09/29/23 18:46	1
<b>Calcium</b>	<b>67</b>		0.50		mg/L		09/18/23 10:00	09/29/23 18:46	1
Chromium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:46	1
Cobalt	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:46	1
Lead	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 18:46	1
<b>Lithium</b>	<b>0.026</b>		0.010		mg/L		09/18/23 10:00	09/30/23 17:37	1
<b>Molybdenum</b>	<b>0.013</b>		0.0020		mg/L		09/18/23 10:00	09/30/23 17:37	1
Selenium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 18:46	1
Thallium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/30/23 17:37	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/18/23 10:47	09/19/23 11:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>600</b>		10		mg/L			09/18/23 00:59	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		20		mg/L			09/18/23 16:01	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.36</b>		0.10		mg/L			09/18/23 14:12	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>150</b>		50		mg/L			09/21/23 13:03	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>62.15</b>				ft			09/14/23 14:10	1
<b>Depth to Water (ft from MP)</b>	<b>65.12</b>				ft			09/14/23 14:10	1
<b>Elevation of well (ft from MP)</b>	<b>603.80</b>				ft			09/14/23 14:10	1
<b>Field pH</b>	<b>7.35</b>				SU			09/14/23 14:10	1
<b>Field Temperature</b>	<b>59.8</b>				Degrees F			09/14/23 14:10	1
<b>Ground Water Elevation</b>	<b>538.68</b>				ft			09/14/23 14:10	1
<b>Specific Conductance</b>	<b>974</b>				umhos/cm			09/14/23 14:10	1
<b>Well bottom elevation</b>	<b>471.05</b>				ft			09/14/23 14:10	1
<b>Field Turbidity</b>	<b>0.97</b>				NTU			09/14/23 14:10	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Client Sample ID: T09S

## Lab Sample ID: 500-239151-15

Date Collected: 09/19/23 11:28

Matrix: Water

Date Received: 09/19/23 15:38

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/21/23 09:25	09/29/23 20:54	1
<b>Arsenic</b>	<b>0.0036</b>		0.0020		mg/L		09/21/23 09:25	09/29/23 20:54	1
<b>Barium</b>	<b>0.053</b>		0.0020		mg/L		09/21/23 09:25	09/29/23 20:54	1
Beryllium	<0.0010		0.0010		mg/L		09/21/23 09:25	09/29/23 20:54	1
<b>Boron</b>	<b>5.7</b>		0.40		mg/L		09/21/23 09:25	10/08/23 18:51	4
Cadmium	<0.00020		0.00020		mg/L		09/21/23 09:25	09/29/23 20:54	1
<b>Calcium</b>	<b>96</b>		0.50		mg/L		09/21/23 09:25	09/29/23 20:54	1
Chromium	<0.0050		0.0050		mg/L		09/21/23 09:25	09/29/23 20:54	1
<b>Cobalt</b>	<b>0.00051</b>		0.00050		mg/L		09/21/23 09:25	09/29/23 20:54	1
Lead	<0.00050		0.00050		mg/L		09/21/23 09:25	09/29/23 20:54	1
<b>Lithium</b>	<b>0.090</b>		0.010		mg/L		09/21/23 09:25	09/30/23 16:17	1
<b>Molybdenum</b>	<b>0.66</b>		0.0020		mg/L		09/21/23 09:25	09/29/23 20:54	1
Selenium	<0.0050		0.0050		mg/L		09/21/23 09:25	09/29/23 20:54	1
<b>Thallium</b>	<b>0.017</b>	<b>F1</b>	0.0040		mg/L		09/21/23 09:25	10/08/23 18:51	4

### Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/22/23 10:16	09/25/23 10:08	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>880</b>		10		mg/L			09/19/23 20:53	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>62</b>		4.0		mg/L			09/22/23 11:15	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.31</b>		0.10		mg/L			09/25/23 09:47	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>380</b>		100		mg/L			09/20/23 15:36	20

### Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>107.28</b>				ft			09/19/23 11:28	1
<b>Depth to Water (ft from MP)</b>	<b>109.68</b>				ft			09/19/23 11:28	1
<b>Elevation of well (ft from MP)</b>	<b>603.48</b>				ft			09/19/23 11:28	1
<b>Field pH</b>	<b>7.74</b>				SU			09/19/23 11:28	1
<b>Field Temperature</b>	<b>57.4</b>				Degrees F			09/19/23 11:28	1
<b>Ground Water Elevation</b>	<b>493.80</b>				ft			09/19/23 11:28	1
<b>Specific Conductance</b>	<b>1289</b>				umhos/cm			09/19/23 11:28	1
<b>Well bottom elevation</b>	<b>444.80</b>				ft			09/19/23 11:28	1
<b>Field Turbidity</b>	<b>33.90</b>				NTU			09/19/23 11:28	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T06S**

**Lab Sample ID: 500-239151-16**

Date Collected: 09/19/23 13:28

Matrix: Water

Date Received: 09/19/23 15:38

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/21/23 09:25	09/29/23 21:03	1
Arsenic	<0.0020		0.0020		mg/L		09/21/23 09:25	09/29/23 21:03	1
<b>Barium</b>	<b>0.031</b>		0.0020		mg/L		09/21/23 09:25	09/29/23 21:03	1
Beryllium	<0.0010		0.0010		mg/L		09/21/23 09:25	09/29/23 21:03	1
<b>Boron</b>	<b>1.0</b>		0.10		mg/L		09/21/23 09:25	09/30/23 16:23	1
<b>Cadmium</b>	<b>0.00021</b>		0.00020		mg/L		09/21/23 09:25	09/29/23 21:03	1
<b>Calcium</b>	<b>66</b>		0.50		mg/L		09/21/23 09:25	09/29/23 21:03	1
Chromium	<0.0050		0.0050		mg/L		09/21/23 09:25	09/29/23 21:03	1
Cobalt	<0.00050		0.00050		mg/L		09/21/23 09:25	09/29/23 21:03	1
Lead	<0.00050		0.00050		mg/L		09/21/23 09:25	09/29/23 21:03	1
<b>Lithium</b>	<b>0.025</b>		0.010		mg/L		09/21/23 09:25	09/30/23 16:23	1
<b>Molybdenum</b>	<b>0.026</b>		0.0020		mg/L		09/21/23 09:25	09/29/23 21:03	1
Selenium	<0.0050		0.0050		mg/L		09/21/23 09:25	09/29/23 21:03	1
<b>Thallium</b>	<b>0.0015</b>		0.0010		mg/L		09/21/23 09:25	10/08/23 18:58	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/22/23 10:16	09/25/23 10:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>470</b>		10		mg/L			09/19/23 20:56	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>14</b>		2.0		mg/L			09/22/23 10:43	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.44</b>		0.10		mg/L			09/25/23 09:52	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>100</b>		25		mg/L			09/20/23 15:36	5

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>115.70</b>				ft			09/19/23 13:28	1
<b>Depth to Water (ft from MP)</b>	<b>118.00</b>				ft			09/19/23 13:28	1
<b>Elevation of well (ft from MP)</b>	<b>621.05</b>				ft			09/19/23 13:28	1
<b>Field pH</b>	<b>7.29</b>				SU			09/19/23 13:28	1
<b>Field Temperature</b>	<b>59.2</b>				Degrees F			09/19/23 13:28	1
<b>Ground Water Elevation</b>	<b>503.05</b>				ft			09/19/23 13:28	1
<b>Specific Conductance</b>	<b>787</b>				umhos/cm			09/19/23 13:28	1
<b>Well bottom elevation</b>	<b>447.94</b>				ft			09/19/23 13:28	1
<b>Field Turbidity</b>	<b>0.52</b>				NTU			09/19/23 13:28	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T13S**

**Lab Sample ID: 500-239151-17**

Date Collected: 09/26/23 11:25

Matrix: Water

Date Received: 09/26/23 14:40

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 15:47	1
<b>Arsenic</b>	<b>0.0048</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 15:47	1
<b>Barium</b>	<b>0.056</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 15:47	1
Beryllium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 15:47	1
<b>Boron</b>	<b>0.38</b>		0.10		mg/L		10/03/23 09:05	10/09/23 15:47	1
Cadmium	<0.00020		0.00020		mg/L		10/03/23 09:05	10/09/23 15:47	1
<b>Calcium</b>	<b>100</b>		0.50		mg/L		10/03/23 09:05	10/09/23 15:47	1
Chromium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 15:47	1
Cobalt	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 15:47	1
Lead	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 15:47	1
<b>Lithium</b>	<b>0.021</b>		0.010		mg/L		10/03/23 09:05	10/09/23 15:47	1
<b>Molybdenum</b>	<b>0.0095</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 15:47	1
Selenium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 15:47	1
<b>Thallium</b>	<b>0.012</b>	<b>F2 F1</b>	0.0010		mg/L		10/03/23 09:05	10/09/23 15:47	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/03/23 08:03	10/03/23 13:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>580</b>		10		mg/L			09/26/23 22:31	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>37</b>		2.0		mg/L			09/27/23 14:01	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.20</b>	<b>F1</b>	0.10		mg/L			10/12/23 15:29	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>140</b>		50		mg/L			10/04/23 16:40	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>17.54</b>				ft			09/26/23 11:25	1
<b>Depth to Water (ft from MP)</b>	<b>20.30</b>				ft			09/26/23 11:25	1
<b>Elevation of well (ft from MP)</b>	<b>525.33</b>				ft			09/26/23 11:25	1
<b>Field pH</b>	<b>7.43</b>				SU			09/26/23 11:25	1
<b>Field Temperature</b>	<b>60.2</b>				Degrees F			09/26/23 11:25	1
<b>Ground Water Elevation</b>	<b>505.03</b>				ft			09/26/23 11:25	1
<b>Specific Conductance</b>	<b>928</b>				umhos/cm			09/26/23 11:25	1
<b>Well bottom elevation</b>	<b>452.21</b>				ft			09/26/23 11:25	1
<b>Field Turbidity</b>	<b>5.31</b>				NTU			09/26/23 11:25	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T13S Dup**

**Lab Sample ID: 500-239151-18**

Date Collected: 09/26/23 11:25

Matrix: Water

Date Received: 09/26/23 14:40

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 16:03	1
<b>Arsenic</b>	<b>0.0046</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:03	1
<b>Barium</b>	<b>0.056</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:03	1
Beryllium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 16:03	1
<b>Boron</b>	<b>0.45</b>		0.10		mg/L		10/03/23 09:05	10/09/23 16:03	1
Cadmium	<0.00020		0.00020		mg/L		10/03/23 09:05	10/09/23 16:03	1
<b>Calcium</b>	<b>100</b>		0.50		mg/L		10/03/23 09:05	10/09/23 16:03	1
Chromium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:03	1
Cobalt	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 16:03	1
Lead	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 16:03	1
<b>Lithium</b>	<b>0.022</b>		0.010		mg/L		10/03/23 09:05	10/09/23 16:03	1
<b>Molybdenum</b>	<b>0.011</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:03	1
Selenium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:03	1
<b>Thallium</b>	<b>0.017</b>		0.0010		mg/L		10/03/23 09:05	10/09/23 16:03	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/03/23 08:03	10/03/23 13:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>590</b>		10		mg/L			09/26/23 22:33	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>36</b>		2.0		mg/L			09/27/23 14:01	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.20</b>		0.10		mg/L			10/12/23 15:42	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>140</b>		50		mg/L			10/04/23 16:40	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	17.54				ft			09/26/23 11:25	1
Depth to Water (ft from MP)	20.30				ft			09/26/23 11:25	1
Elevation of well (ft from MP)	525.33				ft			09/26/23 11:25	1
Field pH	7.43				SU			09/26/23 11:25	1
Field Temperature	60.2				Degrees F			09/26/23 11:25	1
Ground Water Elevation	505.03				ft			09/26/23 11:25	1
Specific Conductance	928				umhos/cm			09/26/23 11:25	1
Well bottom elevation	452.21				ft			09/26/23 11:25	1
Field Turbidity	5.31				NTU			09/26/23 11:25	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T02S**

**Lab Sample ID: 500-239151-19**

Date Collected: 09/27/23 10:47

Matrix: Water

Date Received: 09/27/23 16:00

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 16:06	1
<b>Arsenic</b>	<b>0.0070</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:06	1
<b>Barium</b>	<b>0.069</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:06	1
Beryllium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 16:06	1
<b>Boron</b>	<b>3.9</b>		0.10		mg/L		10/03/23 09:05	10/09/23 16:06	1
Cadmium	<0.00020		0.00020		mg/L		10/03/23 09:05	10/09/23 16:06	1
<b>Calcium</b>	<b>85</b>		0.50		mg/L		10/03/23 09:05	10/09/23 16:06	1
Chromium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:06	1
<b>Cobalt</b>	<b>0.0021</b>		0.00050		mg/L		10/03/23 09:05	10/09/23 16:06	1
<b>Lead</b>	<b>0.0029</b>		0.00050		mg/L		10/03/23 09:05	10/09/23 16:06	1
<b>Lithium</b>	<b>0.034</b>		0.010		mg/L		10/03/23 09:05	10/09/23 16:06	1
<b>Molybdenum</b>	<b>0.34</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:06	1
Selenium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:06	1
<b>Thallium</b>	<b>0.0011</b>		0.0010		mg/L		10/03/23 09:05	10/09/23 16:06	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/03/23 08:03	10/03/23 13:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>960</b>		10		mg/L			09/29/23 01:36	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		20		mg/L			10/04/23 10:41	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.29</b>		0.10		mg/L			10/12/23 15:46	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>320</b>		50		mg/L			10/04/23 16:40	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>134.21</b>				ft			09/27/23 10:47	1
<b>Depth to Water (ft from MP)</b>	<b>136.54</b>				ft			09/27/23 10:47	1
<b>Elevation of well (ft from MP)</b>	<b>626.12</b>				ft			09/27/23 10:47	1
<b>Field pH</b>	<b>7.70</b>				SU			09/27/23 10:47	1
<b>Field Temperature</b>	<b>61.9</b>				Degrees F			09/27/23 10:47	1
<b>Ground Water Elevation</b>	<b>489.58</b>				ft			09/27/23 10:47	1
<b>Specific Conductance</b>	<b>1388</b>				umhos/cm			09/27/23 10:47	1
<b>Well bottom elevation</b>	<b>453.40</b>				ft			09/27/23 10:47	1
<b>Field Turbidity</b>	<b>65.20</b>				NTU			09/27/23 10:47	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T08S**

**Lab Sample ID: 500-239151-20**

Date Collected: 09/27/23 12:24

Matrix: Water

Date Received: 09/27/23 16:00

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 16:10	1
<b>Arsenic</b>	<b>0.019</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:10	1
<b>Barium</b>	<b>0.030</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:10	1
Beryllium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 16:10	1
<b>Boron</b>	<b>5.5</b>		0.70		mg/L		10/03/23 09:05	10/10/23 12:17	7
Cadmium	<0.00020		0.00020		mg/L		10/03/23 09:05	10/09/23 16:10	1
<b>Calcium</b>	<b>24</b>		0.50		mg/L		10/03/23 09:05	10/09/23 16:10	1
Chromium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:10	1
Cobalt	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 16:10	1
Lead	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 16:10	1
<b>Lithium</b>	<b>0.039</b>		0.010		mg/L		10/03/23 09:05	10/09/23 16:10	1
<b>Molybdenum</b>	<b>0.74</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:10	1
Selenium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:10	1
Thallium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 16:10	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/03/23 08:03	10/03/23 13:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>980</b>		10		mg/L			09/29/23 01:39	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>86</b>		40		mg/L			10/04/23 10:39	20
<b>Fluoride (SM 4500 F C)</b>	<b>0.57</b>		0.10		mg/L			10/12/23 15:51	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>470</b>		50		mg/L			10/04/23 16:41	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>129.31</b>				ft			09/27/23 12:24	1
<b>Depth to Water (ft from MP)</b>	<b>131.69</b>				ft			09/27/23 12:24	1
<b>Elevation of well (ft from MP)</b>	<b>627.55</b>				ft			09/27/23 12:24	1
<b>Field pH</b>	<b>8.51</b>				SU			09/27/23 12:24	1
<b>Field Temperature</b>	<b>63.3</b>				Degrees F			09/27/23 12:24	1
<b>Ground Water Elevation</b>	<b>495.86</b>				ft			09/27/23 12:24	1
<b>Specific Conductance</b>	<b>1474</b>				umhos/cm			09/27/23 12:24	1
<b>Well bottom elevation</b>	<b>447.38</b>				ft			09/27/23 12:24	1
<b>Field Turbidity</b>	<b>3.13</b>				NTU			09/27/23 12:24	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T05S**

**Lab Sample ID: 500-239151-21**

Date Collected: 09/27/23 14:03

Matrix: Water

Date Received: 09/27/23 16:00

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 16:26	1
<b>Arsenic</b>	<b>0.095</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:26	1
<b>Barium</b>	<b>0.0087</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:26	1
Beryllium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 16:26	1
<b>Boron</b>	<b>12</b>		1.0		mg/L		10/03/23 09:05	10/10/23 12:21	10
<b>Cadmium</b>	<b>0.00024</b>		0.00020		mg/L		10/03/23 09:05	10/09/23 16:26	1
<b>Calcium</b>	<b>2.5</b>		0.50		mg/L		10/03/23 09:05	10/09/23 16:26	1
Chromium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:26	1
Cobalt	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 16:26	1
Lead	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 16:26	1
<b>Lithium</b>	<b>0.023</b>		0.010		mg/L		10/03/23 09:05	10/09/23 16:26	1
<b>Molybdenum</b>	<b>0.81</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:26	1
Selenium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:26	1
Thallium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 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		10/03/23 08:03	10/03/23 13:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1500</b>		10		mg/L			09/29/23 01:41	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		20		mg/L			10/04/23 10:41	10
<b>Fluoride (SM 4500 F C)</b>	<b>1.5</b>		0.10		mg/L			10/12/23 15:55	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>590</b>		100		mg/L			10/04/23 16:56	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>123.42</b>				ft			09/27/23 14:03	1
<b>Depth to Water (ft from MP)</b>	<b>125.82</b>				ft			09/27/23 14:03	1
<b>Elevation of well (ft from MP)</b>	<b>623.50</b>				ft			09/27/23 14:03	1
<b>Field pH</b>	<b>9.24</b>				SU			09/27/23 14:03	1
<b>Field Temperature</b>	<b>68.2</b>				Degrees F			09/27/23 14:03	1
<b>Ground Water Elevation</b>	<b>497.68</b>				ft			09/27/23 14:03	1
<b>Specific Conductance</b>	<b>2330</b>				umhos/cm			09/27/23 14:03	1
<b>Well bottom elevation</b>	<b>448.35</b>				ft			09/27/23 14:03	1
<b>Field Turbidity</b>	<b>3.24</b>				NTU			09/27/23 14:03	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T11S**

**Lab Sample ID: 500-239151-22**

Date Collected: 09/28/23 09:38

Matrix: Water

Date Received: 09/28/23 14:40

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 16:30	1
Arsenic	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 16:30	1
<b>Barium</b>	<b>0.042</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:30	1
Beryllium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 16:30	1
Boron	<0.40		0.40		mg/L		10/03/23 09:05	10/10/23 12:23	4
Cadmium	<0.00020		0.00020		mg/L		10/03/23 09:05	10/09/23 16:30	1
<b>Calcium</b>	<b>110</b>		0.50		mg/L		10/03/23 09:05	10/09/23 16:30	1
Chromium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:30	1
Cobalt	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 16:30	1
Lead	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 16:30	1
<b>Lithium</b>	<b>0.021</b>		0.010		mg/L		10/03/23 09:05	10/09/23 16:30	1
<b>Molybdenum</b>	<b>0.0083</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:30	1
Selenium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:30	1
Thallium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 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		10/03/23 08:03	10/03/23 13:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>600</b>		10		mg/L			09/29/23 01:44	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>45</b>		2.0		mg/L			10/04/23 10:19	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.18</b>		0.10		mg/L			10/12/23 15:59	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>190</b>		50		mg/L			10/04/23 16:41	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>68.75</b>				ft			09/28/23 09:38	1
<b>Depth to Water (ft from MP)</b>	<b>71.49</b>				ft			09/28/23 09:38	1
<b>Elevation of well (ft from MP)</b>	<b>559.48</b>				ft			09/28/23 09:38	1
<b>Field pH</b>	<b>7.71</b>				SU			09/28/23 09:38	1
<b>Field Temperature</b>	<b>60.5</b>				Degrees F			09/28/23 09:38	1
<b>Ground Water Elevation</b>	<b>487.99</b>				ft			09/28/23 09:38	1
<b>Specific Conductance</b>	<b>911</b>				umhos/cm			09/28/23 09:38	1
<b>Well bottom elevation</b>	<b>445.60</b>				ft			09/28/23 09:38	1
<b>Field Turbidity</b>	<b>64.90</b>				NTU			09/28/23 09:38	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T01S**

**Lab Sample ID: 500-239151-23**

Date Collected: 09/28/23 11:27

Matrix: Water

Date Received: 09/28/23 14:40

## Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 16:33	1
<b>Arsenic</b>	<b>0.010</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:33	1
<b>Barium</b>	<b>0.042</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:33	1
Beryllium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 16:33	1
<b>Boron</b>	<b>3.9</b>		0.40		mg/L		10/03/23 09:05	10/10/23 12:25	4
Cadmium	<0.00020		0.00020		mg/L		10/03/23 09:05	10/09/23 16:33	1
<b>Calcium</b>	<b>51</b>		0.50		mg/L		10/03/23 09:05	10/09/23 16:33	1
Chromium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:33	1
<b>Cobalt</b>	<b>0.0025</b>		0.00050		mg/L		10/03/23 09:05	10/09/23 16:33	1
<b>Lead</b>	<b>0.0019</b>		0.00050		mg/L		10/03/23 09:05	10/09/23 16:33	1
<b>Lithium</b>	<b>0.011</b>		0.010		mg/L		10/03/23 09:05	10/09/23 16:33	1
<b>Molybdenum</b>	<b>0.26</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:33	1
Selenium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:33	1
Thallium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 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		10/03/23 08:03	10/03/23 13:44	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>950</b>		10		mg/L			09/29/23 01:46	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>98</b>		40		mg/L			10/04/23 10:39	20
<b>Fluoride (SM 4500 F C)</b>	<b>0.99</b>		0.10		mg/L			10/12/23 16:15	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>420</b>		50		mg/L			10/04/23 16:41	10

## Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>122.68</b>				ft			09/28/23 11:27	1
<b>Depth to Water (ft from MP)</b>	<b>125.16</b>				ft			09/28/23 11:27	1
<b>Elevation of well (ft from MP)</b>	<b>621.84</b>				ft			09/28/23 11:27	1
<b>Field pH</b>	<b>7.86</b>				SU			09/28/23 11:27	1
<b>Field Temperature</b>	<b>67.1</b>				Degrees F			09/28/23 11:27	1
<b>Ground Water Elevation</b>	<b>496.68</b>				ft			09/28/23 11:27	1
<b>Specific Conductance</b>	<b>1417</b>				umhos/cm			09/28/23 11:27	1
<b>Well bottom elevation</b>	<b>451.46</b>				ft			09/28/23 11:27	1
<b>Field Turbidity</b>	<b>131.00</b>				NTU			09/28/23 11:27	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G39S**

**Lab Sample ID: 500-239151-24**

Date Collected: 09/28/23 13:23

Matrix: Water

Date Received: 09/28/23 14:40

**Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 16:37	1
Arsenic	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 16:37	1
<b>Barium</b>	<b>0.036</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:37	1
Beryllium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 16:37	1
Boron	<0.40		0.40		mg/L		10/03/23 09:05	10/10/23 12:28	4
Cadmium	<0.00020		0.00020		mg/L		10/03/23 09:05	10/09/23 16:37	1
<b>Calcium</b>	<b>96</b>		0.50		mg/L		10/03/23 09:05	10/09/23 16:37	1
Chromium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:37	1
Cobalt	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 16:37	1
<b>Lead</b>	<b>0.0015</b>		0.00050		mg/L		10/03/23 09:05	10/09/23 16:37	1
<b>Lithium</b>	<b>0.011</b>		0.010		mg/L		10/03/23 09:05	10/09/23 16:37	1
<b>Molybdenum</b>	<b>0.0095</b>		0.0020		mg/L		10/03/23 09:05	10/09/23 16:37	1
Selenium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 16:37	1
Thallium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 16:37	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/03/23 08:03	10/03/23 13:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>550</b>		10		mg/L			09/29/23 01:49	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>29</b>		2.0		mg/L			10/04/23 10:19	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.16</b>		0.10		mg/L			10/12/23 16:19	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>90</b>		50		mg/L			10/04/23 16:42	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>94.79</b>				ft			09/28/23 13:23	1
<b>Depth to Water (ft from MP)</b>	<b>96.87</b>				ft			09/28/23 13:23	1
<b>Elevation of well (ft from MP)</b>	<b>598.75</b>				ft			09/28/23 13:23	1
<b>Field pH</b>	<b>7.21</b>				SU			09/28/23 13:23	1
<b>Field Temperature</b>	<b>55.2</b>				Degrees F			09/28/23 13:23	1
<b>Ground Water Elevation</b>	<b>501.88</b>				ft			09/28/23 13:23	1
<b>Specific Conductance</b>	<b>746</b>				umhos/cm			09/28/23 13:23	1
<b>Well bottom elevation</b>	<b>454.15</b>				ft			09/28/23 13:23	1
<b>Field Turbidity</b>	<b>1.25</b>				NTU			09/28/23 13:23	1

# Definitions/Glossary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## 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.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

### 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 3Q23

Job ID: 500-239151-1

## Metals

### Prep Batch: 399206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total Recoverable	Water	3005A	
500-239151-2	G31S	Total Recoverable	Water	3005A	
500-239151-3	G48S	Total Recoverable	Water	3005A	
500-239151-4	G47S	Total Recoverable	Water	3005A	
500-239151-5	R08S	Total Recoverable	Water	3005A	
MB 310-399206/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 310-399206/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 399305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total/NA	Water	7470A	
500-239151-2	G31S	Total/NA	Water	7470A	
500-239151-3	G48S	Total/NA	Water	7470A	
500-239151-4	G47S	Total/NA	Water	7470A	
500-239151-5	R08S	Total/NA	Water	7470A	
MB 310-399305/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-399305/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 399463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total/NA	Water	7470A	399305
500-239151-2	G31S	Total/NA	Water	7470A	399305
500-239151-3	G48S	Total/NA	Water	7470A	399305
500-239151-4	G47S	Total/NA	Water	7470A	399305
500-239151-5	R08S	Total/NA	Water	7470A	399305
MB 310-399305/1-A	Method Blank	Total/NA	Water	7470A	399305
LCS 310-399305/2-A	Lab Control Sample	Total/NA	Water	7470A	399305

### Prep Batch: 399746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-6	G30S	Total Recoverable	Water	3005A	
500-239151-7	R32S	Total Recoverable	Water	3005A	
500-239151-8	T12S	Total Recoverable	Water	3005A	
500-239151-9	G33S	Total Recoverable	Water	3005A	
500-239151-10	G46S	Total Recoverable	Water	3005A	
500-239151-11	G38S	Total Recoverable	Water	3005A	
500-239151-12	T03S	Total Recoverable	Water	3005A	
500-239151-13	G44S	Total Recoverable	Water	3005A	
500-239151-14	G45S	Total Recoverable	Water	3005A	
MB 310-399746/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 310-399746/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-239151-14 DU	G45S	Total Recoverable	Water	3005A	

### Prep Batch: 399840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-6	G30S	Total/NA	Water	7470A	
500-239151-7	R32S	Total/NA	Water	7470A	
500-239151-8	T12S	Total/NA	Water	7470A	
500-239151-9	G33S	Total/NA	Water	7470A	
500-239151-10	G46S	Total/NA	Water	7470A	
500-239151-11	G38S	Total/NA	Water	7470A	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Metals (Continued)

### Prep Batch: 399840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-12	T03S	Total/NA	Water	7470A	
500-239151-13	G44S	Total/NA	Water	7470A	
500-239151-14	G45S	Total/NA	Water	7470A	
MB 310-399840/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-399840/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 399998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-6	G30S	Total/NA	Water	7470A	399840
500-239151-7	R32S	Total/NA	Water	7470A	399840
500-239151-8	T12S	Total/NA	Water	7470A	399840
500-239151-9	G33S	Total/NA	Water	7470A	399840
500-239151-10	G46S	Total/NA	Water	7470A	399840
500-239151-11	G38S	Total/NA	Water	7470A	399840
500-239151-12	T03S	Total/NA	Water	7470A	399840
500-239151-13	G44S	Total/NA	Water	7470A	399840
500-239151-14	G45S	Total/NA	Water	7470A	399840
MB 310-399840/1-A	Method Blank	Total/NA	Water	7470A	399840
LCS 310-399840/2-A	Lab Control Sample	Total/NA	Water	7470A	399840

### Prep Batch: 400150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-15	T09S	Total Recoverable	Water	3005A	
500-239151-16	T06S	Total Recoverable	Water	3005A	
MB 310-400150/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 310-400150/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-239151-15 MS	T09S	Total Recoverable	Water	3005A	
500-239151-15 MSD	T09S	Total Recoverable	Water	3005A	

### Analysis Batch: 400336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total Recoverable	Water	6020B	399206
500-239151-2	G31S	Total Recoverable	Water	6020B	399206
500-239151-3	G48S	Total Recoverable	Water	6020B	399206
500-239151-4	G47S	Total Recoverable	Water	6020B	399206
500-239151-5	R08S	Total Recoverable	Water	6020B	399206

### Prep Batch: 400381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-15	T09S	Total/NA	Water	7470A	
500-239151-16	T06S	Total/NA	Water	7470A	
MB 310-400381/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-400381/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 400466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total Recoverable	Water	6020B	399206
500-239151-2	G31S	Total Recoverable	Water	6020B	399206
500-239151-3	G48S	Total Recoverable	Water	6020B	399206
500-239151-4	G47S	Total Recoverable	Water	6020B	399206
500-239151-5	R08S	Total Recoverable	Water	6020B	399206

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Metals (Continued)

### Analysis Batch: 400466 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-399206/1-A	Method Blank	Total Recoverable	Water	6020B	399206
LCS 310-399206/2-A	Lab Control Sample	Total Recoverable	Water	6020B	399206

### Analysis Batch: 400565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-15	T09S	Total/NA	Water	7470A	400381
500-239151-16	T06S	Total/NA	Water	7470A	400381
MB 310-400381/1-A	Method Blank	Total/NA	Water	7470A	400381
LCS 310-400381/2-A	Lab Control Sample	Total/NA	Water	7470A	400381

### Analysis Batch: 400668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total Recoverable	Water	6020B	399206
500-239151-2	G31S	Total Recoverable	Water	6020B	399206
500-239151-3	G48S	Total Recoverable	Water	6020B	399206
500-239151-4	G47S	Total Recoverable	Water	6020B	399206
500-239151-5	R08S	Total Recoverable	Water	6020B	399206

### Analysis Batch: 400895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-399206/2-A	Lab Control Sample	Total Recoverable	Water	6020B	399206

### Analysis Batch: 401097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-6	G30S	Total Recoverable	Water	6020B	399746
500-239151-7	R32S	Total Recoverable	Water	6020B	399746
500-239151-8	T12S	Total Recoverable	Water	6020B	399746
500-239151-9	G33S	Total Recoverable	Water	6020B	399746
500-239151-10	G46S	Total Recoverable	Water	6020B	399746
500-239151-11	G38S	Total Recoverable	Water	6020B	399746
500-239151-13	G44S	Total Recoverable	Water	6020B	399746
500-239151-14	G45S	Total Recoverable	Water	6020B	399746
500-239151-15	T09S	Total Recoverable	Water	6020B	400150
500-239151-16	T06S	Total Recoverable	Water	6020B	400150
MB 310-399746/1-A	Method Blank	Total Recoverable	Water	6020B	399746
MB 310-400150/1-A	Method Blank	Total Recoverable	Water	6020B	400150
LCS 310-399746/2-A	Lab Control Sample	Total Recoverable	Water	6020B	399746
LCS 310-400150/2-A	Lab Control Sample	Total Recoverable	Water	6020B	400150
500-239151-15 MS	T09S	Total Recoverable	Water	6020B	400150
500-239151-15 MSD	T09S	Total Recoverable	Water	6020B	400150
500-239151-14 DU	G45S	Total Recoverable	Water	6020B	399746

### Analysis Batch: 401128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-6	G30S	Total Recoverable	Water	6020B	399746
500-239151-7	R32S	Total Recoverable	Water	6020B	399746
500-239151-8	T12S	Total Recoverable	Water	6020B	399746
500-239151-9	G33S	Total Recoverable	Water	6020B	399746
500-239151-10	G46S	Total Recoverable	Water	6020B	399746
500-239151-11	G38S	Total Recoverable	Water	6020B	399746
500-239151-12	T03S	Total Recoverable	Water	6020B	399746

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Metals (Continued)

### Analysis Batch: 401128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-13	G44S	Total Recoverable	Water	6020B	399746
500-239151-14	G45S	Total Recoverable	Water	6020B	399746
500-239151-15	T09S	Total Recoverable	Water	6020B	400150
500-239151-16	T06S	Total Recoverable	Water	6020B	400150
MB 310-399746/1-A	Method Blank	Total Recoverable	Water	6020B	399746
LCS 310-399746/2-A	Lab Control Sample	Total Recoverable	Water	6020B	399746
500-239151-14 DU	G45S	Total Recoverable	Water	6020B	399746

### Analysis Batch: 401213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-8	T12S	Total Recoverable	Water	6020B	399746
500-239151-10	G46S	Total Recoverable	Water	6020B	399746
500-239151-11	G38S	Total Recoverable	Water	6020B	399746
MB 310-400150/1-A	Method Blank	Total Recoverable	Water	6020B	400150
LCS 310-400150/2-A	Lab Control Sample	Total Recoverable	Water	6020B	400150

### Prep Batch: 401223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-17	T13S	Total Recoverable	Water	3005A	
500-239151-18	T13S Dup	Total Recoverable	Water	3005A	
500-239151-19	T02S	Total Recoverable	Water	3005A	
500-239151-20	T08S	Total Recoverable	Water	3005A	
500-239151-21	T05S	Total Recoverable	Water	3005A	
500-239151-22	T11S	Total Recoverable	Water	3005A	
500-239151-23	T01S	Total Recoverable	Water	3005A	
500-239151-24	G39S	Total Recoverable	Water	3005A	
MB 310-401223/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 310-401223/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-239151-17 MS	T13S	Total Recoverable	Water	3005A	
500-239151-17 MSD	T13S	Total Recoverable	Water	3005A	

### Prep Batch: 401252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-17	T13S	Total/NA	Water	7470A	
500-239151-18	T13S Dup	Total/NA	Water	7470A	
500-239151-19	T02S	Total/NA	Water	7470A	
500-239151-20	T08S	Total/NA	Water	7470A	
500-239151-21	T05S	Total/NA	Water	7470A	
500-239151-22	T11S	Total/NA	Water	7470A	
500-239151-23	T01S	Total/NA	Water	7470A	
500-239151-24	G39S	Total/NA	Water	7470A	
MB 310-401252/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-401252/2-A	Lab Control Sample	Total/NA	Water	7470A	
500-239151-18 MS	T13S Dup	Total/NA	Water	7470A	
500-239151-18 MSD	T13S Dup	Total/NA	Water	7470A	

### Analysis Batch: 401339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-17	T13S	Total/NA	Water	7470A	401252
500-239151-18	T13S Dup	Total/NA	Water	7470A	401252
500-239151-19	T02S	Total/NA	Water	7470A	401252

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Metals (Continued)

### Analysis Batch: 401339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-20	T08S	Total/NA	Water	7470A	401252
500-239151-21	T05S	Total/NA	Water	7470A	401252
500-239151-22	T11S	Total/NA	Water	7470A	401252
500-239151-23	T01S	Total/NA	Water	7470A	401252
500-239151-24	G39S	Total/NA	Water	7470A	401252
MB 310-401252/1-A	Method Blank	Total/NA	Water	7470A	401252
LCS 310-401252/2-A	Lab Control Sample	Total/NA	Water	7470A	401252
500-239151-18 MS	T13S Dup	Total/NA	Water	7470A	401252
500-239151-18 MSD	T13S Dup	Total/NA	Water	7470A	401252

### Analysis Batch: 401865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-15	T09S	Total Recoverable	Water	6020B	400150
500-239151-16	T06S	Total Recoverable	Water	6020B	400150
500-239151-15 MS	T09S	Total Recoverable	Water	6020B	400150
500-239151-15 MSD	T09S	Total Recoverable	Water	6020B	400150

### Analysis Batch: 402020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-17	T13S	Total Recoverable	Water	6020B	401223
500-239151-18	T13S Dup	Total Recoverable	Water	6020B	401223
500-239151-19	T02S	Total Recoverable	Water	6020B	401223
500-239151-20	T08S	Total Recoverable	Water	6020B	401223
500-239151-21	T05S	Total Recoverable	Water	6020B	401223
500-239151-22	T11S	Total Recoverable	Water	6020B	401223
500-239151-23	T01S	Total Recoverable	Water	6020B	401223
500-239151-24	G39S	Total Recoverable	Water	6020B	401223
MB 310-401223/1-A	Method Blank	Total Recoverable	Water	6020B	401223
LCS 310-401223/2-A	Lab Control Sample	Total Recoverable	Water	6020B	401223
500-239151-17 MS	T13S	Total Recoverable	Water	6020B	401223
500-239151-17 MSD	T13S	Total Recoverable	Water	6020B	401223

### Analysis Batch: 402075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-20	T08S	Total Recoverable	Water	6020B	401223
500-239151-21	T05S	Total Recoverable	Water	6020B	401223
500-239151-22	T11S	Total Recoverable	Water	6020B	401223
500-239151-23	T01S	Total Recoverable	Water	6020B	401223
500-239151-24	G39S	Total Recoverable	Water	6020B	401223

## General Chemistry

### Analysis Batch: 731084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total/NA	Water	SM 2540C	
500-239151-2	G31S	Total/NA	Water	SM 2540C	
MB 500-731084/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-731084/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-239151-1 MS	G20S	Total/NA	Water	SM 2540C	
500-239151-1 DU	G20S	Total/NA	Water	SM 2540C	
500-239151-2 DU	G31S	Total/NA	Water	SM 2540C	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## General Chemistry

### Analysis Batch: 731311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-3	G48S	Total/NA	Water	SM 2540C	
500-239151-4	G47S	Total/NA	Water	SM 2540C	
500-239151-5	R08S	Total/NA	Water	SM 2540C	
MB 500-731311/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-731311/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 731974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-6	G30S	Total/NA	Water	SM 2540C	
MB 500-731974/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-731974/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-239151-6 DU	G30S	Total/NA	Water	SM 2540C	

### Analysis Batch: 732196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-7	R32S	Total/NA	Water	SM 2540C	
500-239151-8	T12S	Total/NA	Water	SM 2540C	
500-239151-9	G33S	Total/NA	Water	SM 2540C	
500-239151-10	G46S	Total/NA	Water	SM 2540C	
500-239151-11	G38S	Total/NA	Water	SM 2540C	
500-239151-12	T03S	Total/NA	Water	SM 2540C	
500-239151-13	G44S	Total/NA	Water	SM 2540C	
MB 500-732196/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-732196/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-239151-7 MS	R32S	Total/NA	Water	SM 2540C	
500-239151-7 DU	R32S	Total/NA	Water	SM 2540C	
500-239151-8 DU	T12S	Total/NA	Water	SM 2540C	

### Analysis Batch: 732370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-2	G31S	Total/NA	Water	SM 4500 CI- E	
MB 500-732370/58	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-732370/59	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-239151-2 MS	G31S	Total/NA	Water	SM 4500 CI- E	
500-239151-2 MSD	G31S	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 732578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-3	G48S	Total/NA	Water	SM 4500 CI- E	
500-239151-4	G47S	Total/NA	Water	SM 4500 CI- E	
500-239151-5	R08S	Total/NA	Water	SM 4500 CI- E	
500-239151-6	G30S	Total/NA	Water	SM 4500 CI- E	
500-239151-7	R32S	Total/NA	Water	SM 4500 CI- E	
500-239151-8	T12S	Total/NA	Water	SM 4500 CI- E	
500-239151-9	G33S	Total/NA	Water	SM 4500 CI- E	
500-239151-10	G46S	Total/NA	Water	SM 4500 CI- E	
500-239151-11	G38S	Total/NA	Water	SM 4500 CI- E	
500-239151-12	T03S	Total/NA	Water	SM 4500 CI- E	
500-239151-13	G44S	Total/NA	Water	SM 4500 CI- E	
MB 500-732578/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
MB 500-732578/84	Method Blank	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 3Q23

Job ID: 500-239151-1

## General Chemistry (Continued)

### Analysis Batch: 732578 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-732578/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
LCS 500-732578/85	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-239151-4 MS	G47S	Total/NA	Water	SM 4500 CI- E	
500-239151-4 MSD	G47S	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 732629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-14	G45S	Total/NA	Water	SM 2540C	
MB 500-732629/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-732629/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-239151-14 MS	G45S	Total/NA	Water	SM 2540C	
500-239151-14 DU	G45S	Total/NA	Water	SM 2540C	

### Analysis Batch: 732823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total/NA	Water	SM 4500 F C	
500-239151-2	G31S	Total/NA	Water	SM 4500 F C	
500-239151-3	G48S	Total/NA	Water	SM 4500 F C	
500-239151-4	G47S	Total/NA	Water	SM 4500 F C	
500-239151-5	R08S	Total/NA	Water	SM 4500 F C	
500-239151-6	G30S	Total/NA	Water	SM 4500 F C	
500-239151-7	R32S	Total/NA	Water	SM 4500 F C	
500-239151-8	T12S	Total/NA	Water	SM 4500 F C	
500-239151-9	G33S	Total/NA	Water	SM 4500 F C	
500-239151-10	G46S	Total/NA	Water	SM 4500 F C	
500-239151-11	G38S	Total/NA	Water	SM 4500 F C	
500-239151-12	T03S	Total/NA	Water	SM 4500 F C	
500-239151-13	G44S	Total/NA	Water	SM 4500 F C	
500-239151-14	G45S	Total/NA	Water	SM 4500 F C	
MB 500-732823/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-732823/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 732840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-14	G45S	Total/NA	Water	SM 4500 CI- E	
MB 500-732840/153	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-732840/154	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 733073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-15	T09S	Total/NA	Water	SM 2540C	
500-239151-16	T06S	Total/NA	Water	SM 2540C	
MB 500-733073/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-733073/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 733315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total/NA	Water	SM 4500 SO4 E	
500-239151-2	G31S	Total/NA	Water	SM 4500 SO4 E	
500-239151-3	G48S	Total/NA	Water	SM 4500 SO4 E	
500-239151-4	G47S	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 3Q23

Job ID: 500-239151-1

## General Chemistry (Continued)

### Analysis Batch: 733315 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-5	R08S	Total/NA	Water	SM 4500 SO4 E	
500-239151-6	G30S	Total/NA	Water	SM 4500 SO4 E	
500-239151-7	R32S	Total/NA	Water	SM 4500 SO4 E	
500-239151-8	T12S	Total/NA	Water	SM 4500 SO4 E	
500-239151-9	G33S	Total/NA	Water	SM 4500 SO4 E	
500-239151-10	G46S	Total/NA	Water	SM 4500 SO4 E	
500-239151-11	G38S	Total/NA	Water	SM 4500 SO4 E	
500-239151-12	T03S	Total/NA	Water	SM 4500 SO4 E	
500-239151-13	G44S	Total/NA	Water	SM 4500 SO4 E	
500-239151-15	T09S	Total/NA	Water	SM 4500 SO4 E	
500-239151-16	T06S	Total/NA	Water	SM 4500 SO4 E	
MB 500-733315/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-733315/88	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-733315/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-733315/89	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-239151-12 MS	T03S	Total/NA	Water	SM 4500 SO4 E	
500-239151-12 MSD	T03S	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 733424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-14	G45S	Total/NA	Water	SM 4500 SO4 E	
MB 500-733424/77	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-733424/78	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-239151-14 MS	G45S	Total/NA	Water	SM 4500 SO4 E	
500-239151-14 MSD	G45S	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 733653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-15	T09S	Total/NA	Water	SM 4500 CI- E	
500-239151-16	T06S	Total/NA	Water	SM 4500 CI- E	
MB 500-733653/4	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-733653/5	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 733817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-15	T09S	Total/NA	Water	SM 4500 F C	
500-239151-16	T06S	Total/NA	Water	SM 4500 F C	
MB 500-733817/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-733817/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 734131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-17	T13S	Total/NA	Water	SM 2540C	
500-239151-18	T13S Dup	Total/NA	Water	SM 2540C	
MB 500-734131/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-734131/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 734288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-17	T13S	Total/NA	Water	SM 4500 CI- E	
500-239151-18	T13S Dup	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 3Q23

Job ID: 500-239151-1

## General Chemistry (Continued)

### Analysis Batch: 734288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-734288/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-734288/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 734545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-19	T02S	Total/NA	Water	SM 2540C	
500-239151-20	T08S	Total/NA	Water	SM 2540C	
500-239151-21	T05S	Total/NA	Water	SM 2540C	
500-239151-22	T11S	Total/NA	Water	SM 2540C	
500-239151-23	T01S	Total/NA	Water	SM 2540C	
500-239151-24	G39S	Total/NA	Water	SM 2540C	
MB 500-734545/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-734545/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 735348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-19	T02S	Total/NA	Water	SM 4500 Cl- E	
500-239151-20	T08S	Total/NA	Water	SM 4500 Cl- E	
500-239151-21	T05S	Total/NA	Water	SM 4500 Cl- E	
500-239151-22	T11S	Total/NA	Water	SM 4500 Cl- E	
500-239151-23	T01S	Total/NA	Water	SM 4500 Cl- E	
500-239151-24	G39S	Total/NA	Water	SM 4500 Cl- E	
MB 500-735348/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-735348/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 735396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-17	T13S	Total/NA	Water	SM 4500 SO4 E	
500-239151-18	T13S Dup	Total/NA	Water	SM 4500 SO4 E	
500-239151-19	T02S	Total/NA	Water	SM 4500 SO4 E	
500-239151-20	T08S	Total/NA	Water	SM 4500 SO4 E	
500-239151-21	T05S	Total/NA	Water	SM 4500 SO4 E	
500-239151-22	T11S	Total/NA	Water	SM 4500 SO4 E	
500-239151-23	T01S	Total/NA	Water	SM 4500 SO4 E	
500-239151-24	G39S	Total/NA	Water	SM 4500 SO4 E	
MB 500-735396/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-735396/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-239151-24 MS	G39S	Total/NA	Water	SM 4500 SO4 E	
500-239151-24 MSD	G39S	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 736942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-17	T13S	Total/NA	Water	SM 4500 F C	
500-239151-18	T13S Dup	Total/NA	Water	SM 4500 F C	
500-239151-19	T02S	Total/NA	Water	SM 4500 F C	
500-239151-20	T08S	Total/NA	Water	SM 4500 F C	
500-239151-21	T05S	Total/NA	Water	SM 4500 F C	
500-239151-22	T11S	Total/NA	Water	SM 4500 F C	
500-239151-23	T01S	Total/NA	Water	SM 4500 F C	
500-239151-24	G39S	Total/NA	Water	SM 4500 F C	
MB 500-736942/3	Method Blank	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 3Q23

Job ID: 500-239151-1

## General Chemistry (Continued)

### Analysis Batch: 736942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-736942/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-239151-17 MS	T13S	Total/NA	Water	SM 4500 F C	
500-239151-17 MSD	T13S	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 742589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total/NA	Water	SM 4500 CI- E	
MB 500-742589/106	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-742589/107	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

## Field Service / Mobile Lab

### Analysis Batch: 731481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total/NA	Water	Field Sampling	
500-239151-2	G31S	Total/NA	Water	Field Sampling	
500-239151-3	G48S	Total/NA	Water	Field Sampling	
500-239151-4	G47S	Total/NA	Water	Field Sampling	
500-239151-5	R08S	Total/NA	Water	Field Sampling	
500-239151-6	G30S	Total/NA	Water	Field Sampling	
500-239151-7	R32S	Total/NA	Water	Field Sampling	
500-239151-8	T12S	Total/NA	Water	Field Sampling	
500-239151-9	G33S	Total/NA	Water	Field Sampling	
500-239151-10	G46S	Total/NA	Water	Field Sampling	
500-239151-11	G38S	Total/NA	Water	Field Sampling	
500-239151-12	T03S	Total/NA	Water	Field Sampling	
500-239151-13	G44S	Total/NA	Water	Field Sampling	
500-239151-14	G45S	Total/NA	Water	Field Sampling	
500-239151-15	T09S	Total/NA	Water	Field Sampling	
500-239151-16	T06S	Total/NA	Water	Field Sampling	
500-239151-17	T13S	Total/NA	Water	Field Sampling	
500-239151-18	T13S Dup	Total/NA	Water	Field Sampling	
500-239151-19	T02S	Total/NA	Water	Field Sampling	
500-239151-20	T08S	Total/NA	Water	Field Sampling	
500-239151-21	T05S	Total/NA	Water	Field Sampling	
500-239151-22	T11S	Total/NA	Water	Field Sampling	
500-239151-23	T01S	Total/NA	Water	Field Sampling	
500-239151-24	G39S	Total/NA	Water	Field Sampling	

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 310-399206/1-A**  
**Matrix: Water**  
**Analysis Batch: 400466**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 399206**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/12/23 09:40	09/22/23 13:19	1
Boron	<0.10		0.10		mg/L		09/12/23 09:40	09/22/23 13:19	1

**Lab Sample ID: LCS 310-399206/2-A**  
**Matrix: Water**  
**Analysis Batch: 400466**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 399206**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.217		mg/L		109	80 - 120
Thallium	0.200	0.167		mg/L		83	80 - 120

**Lab Sample ID: LCS 310-399206/2-A**  
**Matrix: Water**  
**Analysis Batch: 400895**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 399206**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.200		mg/L		100	80 - 120

**Lab Sample ID: MB 310-399746/1-A**  
**Matrix: Water**  
**Analysis Batch: 401097**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 399746**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/18/23 10:00	09/29/23 17:40	1
Barium	<0.0020		0.0020		mg/L		09/18/23 10:00	09/29/23 17:40	1
Beryllium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/29/23 17:40	1
Cadmium	<0.00020		0.00020		mg/L		09/18/23 10:00	09/29/23 17:40	1
Calcium	<0.50		0.50		mg/L		09/18/23 10:00	09/29/23 17:40	1
Chromium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 17:40	1
Cobalt	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 17:40	1
Lead	<0.00050		0.00050		mg/L		09/18/23 10:00	09/29/23 17:40	1
Selenium	<0.0050		0.0050		mg/L		09/18/23 10:00	09/29/23 17:40	1

**Lab Sample ID: MB 310-399746/1-A**  
**Matrix: Water**  
**Analysis Batch: 401128**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 399746**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 16:52	1
Boron	<0.10		0.10		mg/L		09/18/23 10:00	09/30/23 16:52	1
Lithium	<0.010		0.010		mg/L		09/18/23 10:00	09/30/23 16:52	1
Molybdenum	<0.0020		0.0020		mg/L		09/18/23 10:00	09/30/23 16:52	1
Thallium	<0.0010		0.0010		mg/L		09/18/23 10:00	09/30/23 16:52	1

**Lab Sample ID: LCS 310-399746/2-A**  
**Matrix: Water**  
**Analysis Batch: 401097**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 399746**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.226		mg/L		113	80 - 120

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 310-399746/2-A**  
**Matrix: Water**  
**Analysis Batch: 401097**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 399746**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0993		mg/L		99	80 - 120
Beryllium	0.100	0.102		mg/L		102	80 - 120
Cadmium	0.100	0.0967		mg/L		97	80 - 120
Calcium	2.00	1.97		mg/L		98	80 - 120
Chromium	0.100	0.103		mg/L		103	80 - 120
Cobalt	0.100	0.107		mg/L		107	80 - 120
Lead	0.200	0.210		mg/L		105	80 - 120
Selenium	0.400	0.394		mg/L		99	80 - 120

**Lab Sample ID: LCS 310-399746/2-A**  
**Matrix: Water**  
**Analysis Batch: 401128**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 399746**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.224		mg/L		112	80 - 120
Boron	0.200	0.193		mg/L		97	80 - 120
Lithium	0.200	0.189		mg/L		95	80 - 120
Molybdenum	0.200	0.193		mg/L		97	80 - 120
Thallium	0.200	0.186		mg/L		93	80 - 120

**Lab Sample ID: 500-239151-14 DU**  
**Matrix: Water**  
**Analysis Batch: 401097**

**Client Sample ID: G45S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 399746**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	0.0098		0.00994		mg/L		1	20
Barium	0.033		0.0327		mg/L		0.1	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00020		<0.00020		mg/L		NC	20
Calcium	67		67.3		mg/L		0.2	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.00050		<0.00050		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Selenium	<0.0050		<0.0050		mg/L		NC	20

**Lab Sample ID: 500-239151-14 DU**  
**Matrix: Water**  
**Analysis Batch: 401128**

**Client Sample ID: G45S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 399746**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0020		<0.0020		mg/L		NC	20
Boron	0.46		0.460		mg/L		0.8	20
Lithium	0.026		0.0265		mg/L		0.5	20
Molybdenum	0.013		0.0120		mg/L		6	20
Thallium	<0.0010		<0.0010		mg/L		NC	20

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 310-400150/1-A**  
**Matrix: Water**  
**Analysis Batch: 401097**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 400150**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0020		0.0020		mg/L		09/21/23 09:25	09/29/23 20:34	1
Arsenic	<0.0020		0.0020		mg/L		09/21/23 09:25	09/29/23 20:34	1
Barium	<0.0020		0.0020		mg/L		09/21/23 09:25	09/29/23 20:34	1
Beryllium	<0.0010		0.0010		mg/L		09/21/23 09:25	09/29/23 20:34	1
Cadmium	<0.00020		0.00020		mg/L		09/21/23 09:25	09/29/23 20:34	1
Calcium	<0.50		0.50		mg/L		09/21/23 09:25	09/29/23 20:34	1
Chromium	<0.0050		0.0050		mg/L		09/21/23 09:25	09/29/23 20:34	1
Cobalt	<0.00050		0.00050		mg/L		09/21/23 09:25	09/29/23 20:34	1
Lead	<0.00050		0.00050		mg/L		09/21/23 09:25	09/29/23 20:34	1
Molybdenum	<0.0020		0.0020		mg/L		09/21/23 09:25	09/29/23 20:34	1
Selenium	<0.0050		0.0050		mg/L		09/21/23 09:25	09/29/23 20:34	1

**Lab Sample ID: MB 310-400150/1-A**  
**Matrix: Water**  
**Analysis Batch: 401213**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 400150**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.10		0.10		mg/L		09/21/23 09:25	10/02/23 12:10	1
Lithium	<0.010		0.010		mg/L		09/21/23 09:25	10/02/23 12:10	1
Thallium	<0.0010		0.0010		mg/L		09/21/23 09:25	10/02/23 12:10	1

**Lab Sample ID: LCS 310-400150/2-A**  
**Matrix: Water**  
**Analysis Batch: 401097**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 400150**

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

**Lab Sample ID: LCS 310-400150/2-A**  
**Matrix: Water**  
**Analysis Batch: 401213**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 400150**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.103		mg/L		103	80 - 120
Beryllium	0.100	0.0968		mg/L		97	80 - 120
Boron	0.200	0.203		mg/L		102	80 - 120
Cadmium	0.100	0.103		mg/L		103	80 - 120
Calcium	2.00	1.71		mg/L		85	80 - 120
Chromium	0.100	0.104		mg/L		104	80 - 120
Cobalt	0.100	0.107		mg/L		107	80 - 120
Lead	0.200	0.205		mg/L		102	80 - 120
Lithium	0.200	0.200		mg/L		100	80 - 120
Molybdenum	0.200	0.203		mg/L		102	80 - 120
Selenium	0.400	0.396		mg/L		99	80 - 120
Thallium	0.200	0.171		mg/L		85	80 - 120



# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 500-239151-15 MS**

**Matrix: Water**

**Analysis Batch: 401097**

**Client Sample ID: T09S**

**Prep Type: Total Recoverable**

**Prep Batch: 400150**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Arsenic	0.0036		0.200	0.240		mg/L		118	75 - 125	
Barium	0.053		0.100	0.150		mg/L		97	75 - 125	
Beryllium	<0.0010		0.100	0.105		mg/L		105	75 - 125	
Cobalt	0.00051		0.100	0.105		mg/L		104	75 - 125	
Lead	<0.00050		0.200	0.202		mg/L		101	75 - 125	
Selenium	<0.0050		0.400	0.409		mg/L		102	75 - 125	

**Lab Sample ID: 500-239151-15 MS**

**Matrix: Water**

**Analysis Batch: 401865**

**Client Sample ID: T09S**

**Prep Type: Total Recoverable**

**Prep Batch: 400150**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Boron	5.7		0.200	6.05	4	mg/L		181	75 - 125	
Thallium	0.017	F1	0.200	0.140	F1	mg/L		62	75 - 125	

**Lab Sample ID: 500-239151-15 MSD**

**Matrix: Water**

**Analysis Batch: 401097**

**Client Sample ID: T09S**

**Prep Type: Total Recoverable**

**Prep Batch: 400150**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Arsenic	0.0036		0.200	0.228		mg/L		112	75 - 125	5	20	
Barium	0.053		0.100	0.148		mg/L		95	75 - 125	1	20	
Beryllium	<0.0010		0.100	0.102		mg/L		102	75 - 125	3	20	
Cobalt	0.00051		0.100	0.100		mg/L		100	75 - 125	5	20	
Lead	<0.00050		0.200	0.195		mg/L		97	75 - 125	3	20	
Selenium	<0.0050		0.400	0.388		mg/L		97	75 - 125	5	20	

**Lab Sample ID: 500-239151-15 MSD**

**Matrix: Water**

**Analysis Batch: 401865**

**Client Sample ID: T09S**

**Prep Type: Total Recoverable**

**Prep Batch: 400150**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Boron	5.7		0.200	6.07	4	mg/L		189	75 - 125	0	20	
Thallium	0.017	F1	0.200	0.142	F1	mg/L		62	75 - 125	1	20	

**Lab Sample ID: MB 310-401223/1-A**

**Matrix: Water**

**Analysis Batch: 402020**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 401223**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 15:40	1
Arsenic	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 15:40	1
Barium	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 15:40	1
Beryllium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 15:40	1
Boron	<0.10		0.10		mg/L		10/03/23 09:05	10/09/23 15:40	1
Cadmium	<0.00020		0.00020		mg/L		10/03/23 09:05	10/09/23 15:40	1
Calcium	<0.50		0.50		mg/L		10/03/23 09:05	10/09/23 15:40	1
Chromium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 15:40	1
Cobalt	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 15:40	1

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 310-401223/1-A**  
**Matrix: Water**  
**Analysis Batch: 402020**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 401223**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.00050		0.00050		mg/L		10/03/23 09:05	10/09/23 15:40	1
Lithium	<0.010		0.010		mg/L		10/03/23 09:05	10/09/23 15:40	1
Molybdenum	<0.0020		0.0020		mg/L		10/03/23 09:05	10/09/23 15:40	1
Selenium	<0.0050		0.0050		mg/L		10/03/23 09:05	10/09/23 15:40	1
Thallium	<0.0010		0.0010		mg/L		10/03/23 09:05	10/09/23 15:40	1

**Lab Sample ID: LCS 310-401223/2-A**  
**Matrix: Water**  
**Analysis Batch: 402020**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 401223**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.218		mg/L		109	80 - 120
Barium	0.100	0.103		mg/L		103	80 - 120
Beryllium	0.100	0.100		mg/L		100	80 - 120
Boron	0.200	0.201		mg/L		100	80 - 120
Cadmium	0.100	0.0982		mg/L		98	80 - 120
Calcium	2.00	2.10		mg/L		105	80 - 120
Chromium	0.100	0.108		mg/L		108	80 - 120
Cobalt	0.100	0.109		mg/L		109	80 - 120
Lead	0.200	0.209		mg/L		105	80 - 120
Lithium	0.200	0.209		mg/L		104	80 - 120
Molybdenum	0.200	0.199		mg/L		100	80 - 120
Selenium	0.400	0.380		mg/L		95	80 - 120
Thallium	0.200	0.196		mg/L		98	80 - 120

**Lab Sample ID: 500-239151-17 MS**  
**Matrix: Water**  
**Analysis Batch: 402020**

**Client Sample ID: T13S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 401223**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0048		0.200	0.220		mg/L		108	75 - 125
Barium	0.056		0.100	0.155		mg/L		98	75 - 125
Beryllium	<0.0010		0.100	0.102		mg/L		102	75 - 125
Boron	0.38		0.200	0.576		mg/L		97	75 - 125
Cadmium	<0.00020		0.100	0.0960		mg/L		96	75 - 125
Calcium	100		2.00	97.8	4	mg/L		-216	75 - 125
Chromium	<0.0050		0.100	0.102		mg/L		102	75 - 125
Cobalt	<0.00050		0.100	0.100		mg/L		100	75 - 125
Lead	<0.00050		0.200	0.187		mg/L		94	75 - 125
Lithium	0.021		0.200	0.215		mg/L		97	75 - 125
Molybdenum	0.0095		0.200	0.202		mg/L		96	75 - 125
Selenium	<0.0050		0.400	0.350		mg/L		87	75 - 125
Thallium	0.012	F2 F1	0.200	0.104	F1	mg/L		46	75 - 125

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 500-239151-17 MSD  
 Matrix: Water  
 Analysis Batch: 402020

Client Sample ID: T13S  
 Prep Type: Total Recoverable  
 Prep Batch: 401223

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Antimony	<0.0020		0.200	0.249		mg/L		124	75 - 125	7	20
Arsenic	0.0048		0.200	0.238		mg/L		117	75 - 125	8	20
Barium	0.056		0.100	0.165		mg/L		109	75 - 125	6	20
Beryllium	<0.0010		0.100	0.111		mg/L		111	75 - 125	9	20
Boron	0.38		0.200	0.609		mg/L		114	75 - 125	6	20
Cadmium	<0.00020		0.100	0.105		mg/L		104	75 - 125	9	20
Calcium	100		2.00	104	4	mg/L		85	75 - 125	6	20
Chromium	<0.0050		0.100	0.111		mg/L		111	75 - 125	9	20
Cobalt	<0.00050		0.100	0.109		mg/L		109	75 - 125	8	20
Lead	<0.00050		0.200	0.207		mg/L		103	75 - 125	10	20
Lithium	0.021		0.200	0.233		mg/L		106	75 - 125	8	20
Molybdenum	0.0095		0.200	0.222		mg/L		106	75 - 125	9	20
Selenium	<0.0050		0.400	0.385		mg/L		96	75 - 125	9	20
Thallium	0.012	F2 F1	0.200	0.135	F2 F1	mg/L		61	75 - 125	26	20

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-399305/1-A  
 Matrix: Water  
 Analysis Batch: 399463

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 399305

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 11:34	1

Lab Sample ID: LCS 310-399305/2-A  
 Matrix: Water  
 Analysis Batch: 399463

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 399305

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Mercury	0.00167	0.00184		mg/L		111	80 - 120

Lab Sample ID: MB 310-399840/1-A  
 Matrix: Water  
 Analysis Batch: 399998

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 399840

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		09/18/23 10:47	09/19/23 11:04	1

Lab Sample ID: LCS 310-399840/2-A  
 Matrix: Water  
 Analysis Batch: 399998

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 399840

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Mercury	0.00167	0.00162		mg/L		97	80 - 120

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 310-400381/1-A  
 Matrix: Water  
 Analysis Batch: 400565

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 400381

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/22/23 10:16	09/25/23 09:45	1

Lab Sample ID: LCS 310-400381/2-A  
 Matrix: Water  
 Analysis Batch: 400565

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 400381

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.00162		mg/L		97	80 - 120

Lab Sample ID: MB 310-401252/1-A  
 Matrix: Water  
 Analysis Batch: 401339

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 401252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/03/23 08:03	10/03/23 13:18	1

Lab Sample ID: LCS 310-401252/2-A  
 Matrix: Water  
 Analysis Batch: 401339

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 401252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.00166		mg/L		100	80 - 120

Lab Sample ID: 500-239151-18 MS  
 Matrix: Water  
 Analysis Batch: 401339

Client Sample ID: T13S Dup  
 Prep Type: Total/NA  
 Prep Batch: 401252

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00167	0.00168		mg/L		101	80 - 120

Lab Sample ID: 500-239151-18 MSD  
 Matrix: Water  
 Analysis Batch: 401339

Client Sample ID: T13S Dup  
 Prep Type: Total/NA  
 Prep Batch: 401252

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00167	0.00171		mg/L		102	80 - 120	1	20

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

Lab Sample ID: MB 500-731084/1  
 Matrix: Water  
 Analysis Batch: 731084

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			09/06/23 20:14	1

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

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

**Lab Sample ID: LCS 500-731084/2**  
**Matrix: Water**  
**Analysis Batch: 731084**

**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: 500-239151-1 MS**  
**Matrix: Water**  
**Analysis Batch: 731084**

**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	694		mg/L		118	75 - 125

**Lab Sample ID: 500-239151-1 DU**  
**Matrix: Water**  
**Analysis Batch: 731084**

**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		382		mg/L		5	5

**Lab Sample ID: 500-239151-2 DU**  
**Matrix: Water**  
**Analysis Batch: 731084**

**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	1200		1140		mg/L		0.9	5

**Lab Sample ID: MB 500-731311/1**  
**Matrix: Water**  
**Analysis Batch: 731311**

**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			09/07/23 20:50	1

**Lab Sample ID: LCS 500-731311/2**  
**Matrix: Water**  
**Analysis Batch: 731311**

**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	236		mg/L		94	80 - 120

**Lab Sample ID: MB 500-731974/1**  
**Matrix: Water**  
**Analysis Batch: 731974**

**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			09/12/23 19:41	1

**Lab Sample ID: LCS 500-731974/2**  
**Matrix: Water**  
**Analysis Batch: 731974**

**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

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

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

**Lab Sample ID: 500-239151-6 DU**  
**Matrix: Water**  
**Analysis Batch: 731974**

**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	1300		1240		mg/L		3	5

**Lab Sample ID: MB 500-732196/1**  
**Matrix: Water**  
**Analysis Batch: 732196**

**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			09/13/23 21:34	1

**Lab Sample ID: LCS 500-732196/2**  
**Matrix: Water**  
**Analysis Batch: 732196**

**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: 500-239151-7 MS**  
**Matrix: Water**  
**Analysis Batch: 732196**

**Client Sample ID: R32S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	790		250	1060		mg/L		110	75 - 125

**Lab Sample ID: 500-239151-7 DU**  
**Matrix: Water**  
**Analysis Batch: 732196**

**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	790		806		mg/L		2	5

**Lab Sample ID: 500-239151-8 DU**  
**Matrix: Water**  
**Analysis Batch: 732196**

**Client Sample ID: T12S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	810		816		mg/L		0.5	5

**Lab Sample ID: MB 500-732629/1**  
**Matrix: Water**  
**Analysis Batch: 732629**

**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			09/18/23 00:54	1

**Lab Sample ID: LCS 500-732629/2**  
**Matrix: Water**  
**Analysis Batch: 732629**

**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

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

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

**Lab Sample ID: 500-239151-14 MS**  
**Matrix: Water**  
**Analysis Batch: 732629**

**Client Sample ID: G45S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	600		250	912		mg/L		123	75 - 125

**Lab Sample ID: 500-239151-14 DU**  
**Matrix: Water**  
**Analysis Batch: 732629**

**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	600		594		mg/L		2	5

**Lab Sample ID: MB 500-733073/1**  
**Matrix: Water**  
**Analysis Batch: 733073**

**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			09/19/23 20:38	1

**Lab Sample ID: LCS 500-733073/2**  
**Matrix: Water**  
**Analysis Batch: 733073**

**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 500-734131/1**  
**Matrix: Water**  
**Analysis Batch: 734131**

**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			09/26/23 22:26	1

**Lab Sample ID: LCS 500-734131/2**  
**Matrix: Water**  
**Analysis Batch: 734131**

**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: MB 500-734545/1**  
**Matrix: Water**  
**Analysis Batch: 734545**

**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			09/29/23 00:50	1

**Lab Sample ID: LCS 500-734545/2**  
**Matrix: Water**  
**Analysis Batch: 734545**

**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

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: SM 4500 Cl- E - Chloride, Total

**Lab Sample ID: MB 500-732370/58**  
**Matrix: Water**  
**Analysis Batch: 732370**

**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			09/14/23 14:51	1

**Lab Sample ID: LCS 500-732370/59**  
**Matrix: Water**  
**Analysis Batch: 732370**

**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	21.6		mg/L		108	85 - 115

**Lab Sample ID: 500-239151-2 MS**  
**Matrix: Water**  
**Analysis Batch: 732370**

**Client Sample ID: G31S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	190	F1	20.0	209	4	mg/L		74	75 - 125

**Lab Sample ID: 500-239151-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 732370**

**Client Sample ID: G31S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	190	F1	20.0	210	4	mg/L		79	75 - 125	0	20

**Lab Sample ID: MB 500-732578/16**  
**Matrix: Water**  
**Analysis Batch: 732578**

**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			09/15/23 14:35	1

**Lab Sample ID: MB 500-732578/84**  
**Matrix: Water**  
**Analysis Batch: 732578**

**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			09/15/23 16:20	1

**Lab Sample ID: LCS 500-732578/17**  
**Matrix: Water**  
**Analysis Batch: 732578**

**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	20.9		mg/L		104	85 - 115

**Lab Sample ID: LCS 500-732578/85**  
**Matrix: Water**  
**Analysis Batch: 732578**

**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	21.1		mg/L		105	85 - 115

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: SM 4500 Cl- E - Chloride, Total

**Lab Sample ID: 500-239151-4 MS**  
**Matrix: Water**  
**Analysis Batch: 732578**

**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	F1	20.0	113	4	mg/L		59	75 - 125

**Lab Sample ID: 500-239151-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 732578**

**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	F1	20.0	113	4	mg/L		61	75 - 125	0	20

**Lab Sample ID: MB 500-732840/153**  
**Matrix: Water**  
**Analysis Batch: 732840**

**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			09/18/23 15:37	1

**Lab Sample ID: LCS 500-732840/154**  
**Matrix: Water**  
**Analysis Batch: 732840**

**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: MB 500-733653/4**  
**Matrix: Water**  
**Analysis Batch: 733653**

**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			09/22/23 10:40	1

**Lab Sample ID: LCS 500-733653/5**  
**Matrix: Water**  
**Analysis Batch: 733653**

**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	19.8		mg/L		99	85 - 115

**Lab Sample ID: MB 500-734288/16**  
**Matrix: Water**  
**Analysis Batch: 734288**

**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			09/27/23 14:00	1

**Lab Sample ID: LCS 500-734288/17**  
**Matrix: Water**  
**Analysis Batch: 734288**

**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	20.3		mg/L		102	85 - 115

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: SM 4500 Cl- E - Chloride, Total

**Lab Sample ID: MB 500-735348/16**  
**Matrix: Water**  
**Analysis Batch: 735348**

**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			10/04/23 10:17	1

**Lab Sample ID: LCS 500-735348/17**  
**Matrix: Water**  
**Analysis Batch: 735348**

**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	19.3		mg/L		97	85 - 115

**Lab Sample ID: MB 500-742589/106**  
**Matrix: Water**  
**Analysis Batch: 742589**

**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			09/14/23 15:32	1

**Lab Sample ID: LCS 500-742589/107**  
**Matrix: Water**  
**Analysis Batch: 742589**

**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	22.5		mg/L		112	85 - 115

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 500-732823/31**  
**Matrix: Water**  
**Analysis Batch: 732823**

**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			09/18/23 12:16	1

**Lab Sample ID: LCS 500-732823/32**  
**Matrix: Water**  
**Analysis Batch: 732823**

**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: MB 500-733817/3**  
**Matrix: Water**  
**Analysis Batch: 733817**

**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			09/25/23 08:45	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-733817/4  
 Matrix: Water  
 Analysis Batch: 733817

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: MB 500-736942/3  
 Matrix: Water  
 Analysis Batch: 736942

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			10/12/23 15:19	1

Lab Sample ID: LCS 500-736942/4  
 Matrix: Water  
 Analysis Batch: 736942

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	9.83		mg/L		98	90 - 119

Lab Sample ID: 500-239151-17 MS  
 Matrix: Water  
 Analysis Batch: 736942

Client Sample ID: T13S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.20	F1	10.0	13.4	F1	mg/L		132	75 - 125

Lab Sample ID: 500-239151-17 MSD  
 Matrix: Water  
 Analysis Batch: 736942

Client Sample ID: T13S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.20	F1	10.0	14.0	F1	mg/L		138	75 - 125	4	20

## Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-733315/16  
 Matrix: Water  
 Analysis Batch: 733315

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			09/20/23 15:12	1

Lab Sample ID: MB 500-733315/88  
 Matrix: Water  
 Analysis Batch: 733315

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			09/20/23 16:22	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: SM 4500 SO4 E - Sulfate, Total (Continued)

**Lab Sample ID: LCS 500-733315/17**  
**Matrix: Water**  
**Analysis Batch: 733315**

**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	20.3		mg/L		102	88 - 123

**Lab Sample ID: LCS 500-733315/89**  
**Matrix: Water**  
**Analysis Batch: 733315**

**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	20.1		mg/L		100	88 - 123

**Lab Sample ID: 500-239151-12 MS**  
**Matrix: Water**  
**Analysis Batch: 733315**

**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	220		20.0	248	4	mg/L		122	75 - 125

**Lab Sample ID: 500-239151-12 MSD**  
**Matrix: Water**  
**Analysis Batch: 733315**

**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	220		20.0	249	4	mg/L		124	75 - 125	6	20

**Lab Sample ID: MB 500-733424/77**  
**Matrix: Water**  
**Analysis Batch: 733424**

**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			09/21/23 12:44	1

**Lab Sample ID: LCS 500-733424/78**  
**Matrix: Water**  
**Analysis Batch: 733424**

**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	21.0		mg/L		105	88 - 123

**Lab Sample ID: 500-239151-14 MS**  
**Matrix: Water**  
**Analysis Batch: 733424**

**Client Sample ID: G45S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	150		20.0	168	4	mg/L		90	75 - 125

**Lab Sample ID: 500-239151-14 MSD**  
**Matrix: Water**  
**Analysis Batch: 733424**

**Client Sample ID: G45S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	150		20.0	166	4	mg/L		82	75 - 125	1	20

Eurolins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Method: SM 4500 SO4 E - Sulfate, Total

**Lab Sample ID: MB 500-735396/16**  
**Matrix: Water**  
**Analysis Batch: 735396**

**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			10/04/23 16:31	1

**Lab Sample ID: 500-239151-24 MS**  
**Matrix: Water**  
**Analysis Batch: 735396**

**Client Sample ID: G39S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	90		20.0	109	4	mg/L		93	75 - 125

**Lab Sample ID: 500-239151-24 MSD**  
**Matrix: Water**  
**Analysis Batch: 735396**

**Client Sample ID: G39S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	90		20.0	109	4	mg/L		92	75 - 125	0	20



# Chain of Custody Record 641397




Environment Testing  
America

TAL-8210

Address \_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b>		<b>Project Manager:</b> <i>Diana Mockler</i>		<b>Site Contact:</b>		<b>Date</b>		<b>COC No</b>	
Company Name: <i>Midwest Generation ENE LLC</i>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs	
Address:		<b>Analysis Turnaround Time</b> <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>Rad'um 226</i> <i>Rad'um 228</i> <i>Combined 226/228</i> <i>IDS, Fl, cl, SD4</i> <i>Metals 14 elements + Hg</i>		 500-239151 COC		Sampler: <b>For Lab Use Only</b> Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-239151</i>	
City/State/Zip: <i>Joliet, IL</i>									
Phone:									
Fax:									
Project Name: <i>Joliet #9 CCR</i>									
Site: <i>3Q23 - GW + Turbidity</i>		Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes
P O #		3 4 5		<i>09/07/23</i>	<i>0938</i>		<i>W</i>	<i>5</i>	
				<i>09/07/23</i>	<i>1103</i>		<i>W</i>	<i>5</i>	
				<i>09/07/23</i>	<i>1255</i>		<i>W</i>	<i>5</i>	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
<b>Possible Hazard Identification.</b> 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					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<b>Special Instructions/QC Requirements &amp; Comments:</b>									
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>4.2</i> Corr'd <i>3.8</i>		Therm ID No _____			
Relinquished by: <i>[Signature]</i>		Company: <i>EETA</i>		Date/Time: <i>09/07/23 1429</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>9/7/23 1429</i>	

# Chain of Custody Record

668101




Environment Testing America

Address \_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager <i>Diana Mackler</i>		Site Contact		Date		COC No	
Company Name <i>Midwest Generation EAF LLC</i>		Tel/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>TDS, Al, Li, SO4</i> <i>metals 14 elements + Hg</i>		 500-239151 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>								Job / SDG No <i>500-239151</i>	
Phone								For Lab Use Only Walk-in Client Lab Sampling	
Project Name <i>Joliet #9 CCR</i>									
Site <i>3023 - Gu + Turbidity</i>									
PO #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.			Sample Specific Notes
<i>G30S</i>		<i>09/12/23</i>	<i>1003</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	
<i>R32S</i>		<i>09/12/23</i>	<i>1137</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	
<i>T12S</i>		<i>09/12/23</i>	<i>1257</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	
<i>G33S</i>		<i>09/12/23</i>	<i>1351</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					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>41</i> Corr'd <i>37</i>		Therm ID No			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/12/23 1537</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>9/12/23 1537</i>	



# Chain of Custody Record

668102




Environment Testing America

Address \_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager: <i>Diana Mueker</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 <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) Radium 226 Radium 228 Combined 226/228 TDS, FI, Cl, SO4 Metals 14 elements + Hg		 500-239151 COC		Sampler			
City/State/Zip: <i>Soliet, IL</i>								For Lab Use Only			
Phone								Walk-in Client			
Fax								Lab Sampling			
Project Name: <i>Soliet #9 CCR</i>		Job / SDG No		500-239151		Sample Specific Notes					
Site: <i>3022 - GW + Turbidity</i>		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.	
PO #		6465		09/13/23 0944		W		5			
		6385		09/13/23 1048		W		5			
		T03S		09/13/23 1145		W		5			
		644S		09/13/23 1352		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											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>5.6</i> Corr'd <i>5.2</i>		Therm ID No					
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/13/23 1510</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>9/13/23 1510</i>			

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# Chain of Custody Record

668105




Environment Testing  
America

Address \_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager: <i>Diana Becker</i>		Site Contact		Date		COC No	
Company Name: <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact:		Carrier		_____ of _____ COCs	
Address		<b>Analysis Turnaround Time</b> <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) Radionuclides Radionuclides Combined Metals Metals Elements + Hg TDS, FI, CI, SO4		 500-239151 COC		Sampler <b>For Lab Use Only:</b> Walk-in Client Lab Sampling Job / SDG No <i>500-239151</i>	
City/State/Zip: <i>Joliet, IL</i>									
Phone									
Fax									
Project Name: <i>Joliet #9 CCR</i>									
Site: <i>3023 - GW + Turbidity</i>		Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes
P O #		<i>TISS</i>		<i>09/26/23</i>	<i>1125</i>		<i>W</i>	<i>5</i>	
		<i>DUP of TISS</i>		<i>09/26/23</i>	<i>↓</i>		<i>W</i>	<i>5</i>	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
<b>Possible Hazard Identification</b> 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					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<b>Special Instructions/QC Requirements &amp; Comments</b>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>4.0</i> Corr'd <i>4.6</i>		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/26/23 1440</i>		Received by <i>[Signature]</i>		Company <i>EETA</i>	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received by <i>[Signature]</i>		Company <i>EETA</i>	

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# Chain of Custody Record

668106




Environment Testing  
America

Address \_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager: <i>Diana Mecker</i>		Site Contact:		Date:		COC No	
Company Name <i>Midwest Generation E&amp;E LLC</i>		Tel/Email		Lab Contact:		Carrier:		____ of ____ COCs	
Address		<b>Analysis Turnaround Time</b> <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) Radium 226 Radium 228 Combined 226/228 Metals 14 elements + Hg TDS, F, Cl, SO4		 500-239151 COC		Sampler: For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-239151</i>	
City/State/Zip <i>Joliet, IL</i>									
Phone									
Fax									
Project Name <i>Joliet #9 CCR</i>									
Site <i>3Q23 - CW + Turbidity</i>									
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>T02S</i>		<i>09/27/23</i>	<i>1047</i>		<i>W</i>	<i>5</i>			
<i>T08S</i>		<i>09/27/23</i>	<i>1224</i>		<i>W</i>	<i>5</i>			
<i>T05S</i>		<i>09/27/23</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 <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" 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>16.9</i> Corr'd <i>16.8</i>		Therm ID No			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/27/23 1600</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>9/27/23 1600</i>	

# Chain of Custody Record

668107




Environment Testing America

Address \_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager: <u>Diana Mockler</u>		Site Contact:		Date:		COC No	
Company Name <u>Midwest Generation EME LLC</u>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs	
Address		Analysis Turnaround Time		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, Cl, CI, SO4</u>		 500-239151 COC		Sampler	
City/State/Zip <u>Solict, IL</u>		<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	
Fax								Lab Sampling	
Project Name <u>Solict #9 CCR</u>								Job / SDG No <u>239151</u>	
Site <u>3023 - GW + Turbidity</u>				<u>500-239151</u>					
P O #				<u>SS 9/28/23</u>					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<u>T115</u>		<u>09/28/23</u>	<u>0938</u>	<u>W</u>	<u>5</u>	<u>5</u>			
<u>T015</u>		<u>09/28/23</u>	<u>1127</u>	<u>W</u>	<u>5</u>	<u>5</u>			
<u>G395</u>		<u>09/28/23</u>	<u>1323</u>	<u>W</u>	<u>5</u>	<u>5</u>			
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 <u>5.4</u> Corr'd <u>5.2</u>		Therm ID No _____			
Relinquished by: <u>[Signature]</u>		Company <u>EETA</u>		Date/Time <u>09/28/23 1440</u>		Received by		Company	
Relinquished by:		Company		Date/Time		Received by		Company	
Relinquished by:		Company		Date/Time		Received in Laboratory by: <u>[Signature]</u>		Company <u>EETA</u>	

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# Chain of Custody Record



Environment Testing

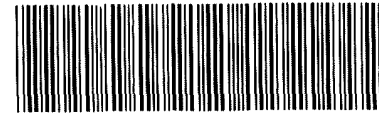


Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:						
Shipping/Receiving		Phone:	Mockler, Diana J		500-178823.1						
Company:		E-Mail:	Diana.Mockler@et.eurofins.com	State of Origin:	Page: 1 of 1						
TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #:	500-239151-1						
Address:		Due Date Requested:	Preservation Codes:								
13715 Rider Trail North,		9/26/2023	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)								
City:		TAT Requested (days):	Analysis Requested								
Earth City											
State, Zip:		PO #:									
MO, 63045											
Phone:		WO #:									
314-298-8566(Tel) 314-298-8757(Fax)											
Email:		Project #:									
		50011504									
Project Name:		SSOW#:									
Joliet #9 (Quary) CCR											
Site:		NRG Midwest Generation LSQ Joliet #9 CCR									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Oil, BT, Tissue, Acid)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	RazzerRz28_GPC	Total Number of Containers	Special Instructions/Note:
G48S (500-239151-3)	9/7/23	09:38 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G47S (500-239151-4)	9/7/23	11:03 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
R08S (500-239151-5)	9/7/23	12:55 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 &amp; 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><b>Possible Hazard Identification</b>                  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</p>											
Empty Kit Relinquished by:		Date:	Method of Shipment:								
Relinquished by:		9/11/23	Company								
Relinquished by:		1530	Company								
Relinquished by:		SEP 08 2023 0830	Company								
Custody Seals Intact:		Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:								







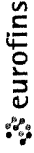


**Cooler/Sample Receipt and Temperature Log Form**

<b>Client Information</b>			
Client: <u>Chicago</u>			
City/State:	CITY	STATE	Project:
		<u>IL</u>	
<b>Receipt Information</b>			
Date/Time Received:	DATE	TIME	Received By:
	<u>9-8-23</u>	<u>925</u>	<u>ML</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee			
<input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # ____ of ____	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<b>Temperature Record</b>			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• <b>Temp Blank Temperature</b> - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>—</u>		Corrected Temp (°C): <u>—</u>	
<b>Sample Container Temperature</b>			
Container(s) used:	CONTAINER 1	CONTAINER 2	
	<u>250 mL plastic</u>		
Uncorrected Temp (°C):	<u>0.6</u>		
Corrected Temp (°C):	<u>0.6</u>		
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			



# Chain of Custody Record



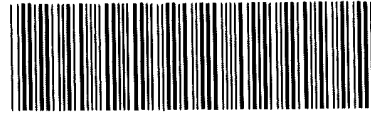
<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J	Carrier Tracking No(s): COC No: 500-178796 1		
Client Contact: Shipping/Receiving		State of Origin: Illinois	Page: Page 1 of 1		
Company: Eurofins Environment Testing North Center		E-Mail: Diana Mockler@et.eurofins.com	Job #: 500-239151-1		
Address: 3019 Venture Way,		Accreditations Required (See note): NELAP - Illinois	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
City: Cedar Falls	Due Date Requested: 9/26/2023	<b>Analysis Requested</b>			
State, Zip: IA, 50613	TAT Requested (days):				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:				
Email:	WO #:				
Project Name: Joliet #9 (Quarry) CCR	Project #: 50011504	Perform MS/MSD (Yes or No) 7470A/7470A Prep Mercury	Total Number of Containers		
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:	Field Filled Sample (Yes or No)	Special Instructions/Note:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other, etc.)	Preservation Code
G20S (500-239151-1)	9/6/23	09:48 Central	C	Water	
G31S (500-239151-2)	9/6/23	13:48 Central	C	Water	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte &amp; 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>					
<b>Possible Hazard Identification</b>					
<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: _____					
Relinquished by: <i>[Signature]</i> Date/Time: 9/7/23 1530 Company: _____					
Relinquished by: _____ Date/Time: _____ Company: _____					
Relinquished by: _____ Date/Time: _____ Company: _____					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:					







Environment Testing  
America



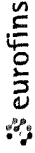
500-239151 Chain of Custody

### Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>			
Client: <u>Chicago</u>			
City/State:	CITY	STATE	Project:
		<u>IL</u>	
<b>Receipt Information</b>			
Date/Time Received:	DATE	TIME	Received By:
	<u>9-14-23</u>	<u>935</u>	<u>ML</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee			
<input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
<b>Temperature Record</b>			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• <b>Temp Blank Temperature</b> – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.1</u>		Corrected Temp (°C): <u>0.1</u>	
• <b>Sample Container Temperature</b>			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			



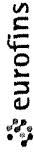
# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J		Carrier Tracking No(s): COC No: 500-179016 1					
Client Contact: Shipping/Receiving		E-Mail: Diana Mockler@et.eurofins.com		Page: Page 1 of 1					
Company: Eurofins Environment Testing North Cent		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239151-1					
Address: 3019 Venture Way,		Due Date Requested: 9/26/2023		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					
City: Cedar Falls		TAT Requested (days):		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: IA, 50613		PO #:		Total Number of Containers					
Phone: 319-277-2401(Tel) 319-277-2425(Fax)		WO #:		Special Instructions/Note:					
Email:		Project #: 50011504							
Project Name: Joliet #9 (Quarry) CCR 3023		SSOW#:							
Site: NRG Midwest Generation LSQ Joliet #9 CCR									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470A/470A Prep Mercury	6020B/3005A (MOD) 14 elements	Total Number of Containers
G30S (500-239151-6)	9/12/23	10 03 Central		Water	X	X	X	X	1
R32S (500-239151-7)	9/12/23	11 37 Central		Water	X	X	X	X	1
T12S (500-239151-8)	9/12/23	12 57 Central		Water	X	X	X	X	1
G33S (500-239151-9)	9/12/23	13 51 Central		Water	X	X	X	X	1
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.									
<b>Possible Hazard Identification</b>									
Unconfirmed Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2									
Empty Kit Relinquished by Relinquished by <i>Ami Skotts</i> Relinquished by Relinquished by									
Date/Time: 9/13/23 1520 Date/Time: Date/Time:									
Received by: <i>MC</i> Received by Received by									
Date/Time: 9-14-23 0735 Date/Time: Date/Time:									
Company: Company Company: Company Company: Company									
Cooler Temperature(s) °C and Other Remarks:									



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-179041 1	
Client Contact: Shipping/Receiving		Phone: Diana Mockler@et.eurofins.com		Page: Page 1 of 1	
Company: Eurofins Environment Testing North Cent		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239151-1	
Address: 3019 Venture Way,		Due Date Requested: 9/26/2023		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) 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:	
City: Cedar Falls	State: IA, 50613	PO #: 319-277-2401(Tel) 319-277-2425(Fax)	Analysis Requested		
Project Name: Joliet #9 (Quarry) CCR 3023	Project #: 50011504	SSOW#: NRG Midwest Generation LSQ Joliet #9 CCR	Total Number of Containers		
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=air)
G46S (500-239151-10)	9/13/23	09:44 Central	Water	Perform MS/MSD (Yes or No) X	Field Filtered Sample (Yes or No) X
G38s (500-239151-11)	9/13/23	10:48 Central	Water	7470A/7470A Prep Mercury X	6020B/3005A (MOD) 14 elements X
T03S (500-239151-12)	9/13/23	11:45 Central	Water		
G44S (500-239151-13)	9/13/23	13:52 Central	Water		
Special Instructions/Note:					
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.					
<b>Possible Hazard Identification</b>					
Unconfirmed					
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2					
Empty Kit Relinquished by: <i>Shirley</i>		Date: 9/13/23		Time: 1520	
Relinquished by: <i>Shirley</i>		Date/Time:		Received by: <i>ML</i>	
Relinquished by:		Date/Time:		Received by:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:	
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					





Environment Testing  
America



500-239151 Chain of Custody

**Cooler/Sample Receipt and Temperature Log Form**

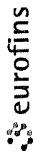
<b>Client Information</b>			
Client: <u>Chicago</u>			
City/State:	CITY	STATE	Project:
		<u>IL</u>	
<b>Receipt Information</b>			
Date/Time Received:	DATE	TIME	Received By:
	<u>9-15-23</u>	<u>1000</u>	<u>mc</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler ID: _____			
Multiple Coolers? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Cooler # _____ of _____			
Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Which VOA samples are in cooler? ↓			
<b>Temperature Record</b>			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>T</u>		Correction Factor (°C): <u>0</u>	
*Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature*			
Uncorrected Temp (°C): _____		Corrected Temp (°C): _____	
<b>Sample Container Temperature</b>			
Container(s) used:	CONTAINER 1	CONTAINER 2	
	<u>250 ml plastic</u>		
Uncorrected Temp (°C):	<u>0.6</u>		
Corrected Temp (°C):	<u>0.6</u>		
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE. If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			



**Eurofins Chicago**

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

**Chain of Custody Record**



Environment Testing

<b>Client Information (Sub Contract Lab)</b>		Lab PM:	Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-179083 1						
Client Contact: Shipping/Receiving		Phone:		State of Origin:	Page 1 of 1						
Company: Eurofins Environment Testing North Centr		E-Mail:	Diana Mockler@et.eurofins.com	Illinois	Job #: 500-239151-1						
Address: 3019 Venture Way,		Accreditations Required (See note): NELAP - Illinois									
City: Cedar Falls		<b>Analysis Requested</b>									
State Zip: IA, 50613		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma L - EDTA Z - other (specify) Other									
Phone: 319-277-2401 (Tel) 319-277-2425 (Fax)		Due Date Requested 9/26/2023									
Email:		TAT Requested (days):									
Project Name: Joliet #9 (Quarry) CCR 3Q23		PO #:									
Site: NRG Midwest Generation LSQ Joliet #9 CCR		WO #:									
		Project #: 50011504									
		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, On-surface, B-Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3005A (MOD) 14 elements	7470A/7470A Prep Mercury	Total Number of Containers	Special Instructions/Note:
6455 (500-239151-14)	9/14/23	14:10 Central		Water		X	X	X	X	1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte &amp; 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/testis/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>											
<b>Possible Hazard Identification</b>											
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements											
<input type="checkbox"/> Unconfirmed Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2											
Empty Kit Relinquished by _____ Date _____											
Relinquished by <i>Stephanie Hernandez</i> Date/Time: 9/14/23 16:00 Company: <i>ETP</i>											
Relinquished by _____ Date/Time: _____ Company: _____											
Relinquished by _____ Date/Time: _____ Company: _____											
Custody Seals Intact: _____ Custody Seal No _____ <input type="checkbox"/> Yes <input type="checkbox"/> No											







Environment Testing  
America



500-239151 Chain of Custody

### Cooler/Sample Receipt and Temperature Log Form

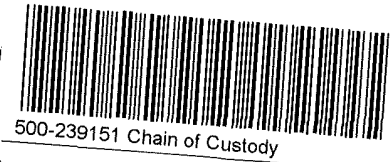
<b>Client Information</b>			
Client: <u>Chicago</u>			
City/State:	<u>Chicago</u>	STATE: <u>IL</u>	Project:
<b>Receipt Information</b>			
Date/Time Received:	<u>9/20/23</u>	TIME: <u>0915</u>	Received By: <u>[Signature]</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<b>Temperature Record</b>			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID:	<u>R</u>	Correction Factor (°C):	<u>to 0</u>
• <b>Temp Blank Temperature</b> – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• <b>Sample Container Temperature</b>			
Container(s) used:	<u>CONTAINER 1</u> <u>PC 250 N tric</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):	<u>0.5</u>		
Corrected Temp (°C):	<u>0.5</u>		
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			







Environment Testing  
America



500-239151 Chain of Custody

**Cooler/Sample Receipt and Temperature Log Form**

<b>Client Information</b>			
Client: <u>eurofins Chicago</u>			
City/State:	CITY	STATE	Project:
<b>Receipt Information</b>			
Date/Time Received:	DATE	TIME	Received By:
	<u>9-27-23</u>	<u>0920</u>	<u>MY</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
<b>Temperature Record</b>			
Coolant: <input type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE			
Thermometer ID: <u>T</u>		Correction Factor (°C): <u>0</u>	
<b>Temp Blank Temperature</b> – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
<b>Sample Container Temperature</b>			
Container(s) used:	CONTAINER 1	CONTAINER 2	
	<u>Plastic 250 ml</u>	<u>nitric</u> →	
Uncorrected Temp (°C):	<u>18.6</u>	<u>17.9</u>	
Corrected Temp (°C):	<u>18.6</u>	<u>17.9</u>	
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			







Environment Testing  
America



500-239151 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>			
Client: <i>Eurofins Chicago</i>			
City/State:	CITY	STATE	Project:
<b>Receipt Information</b>			
Date/Time Received:	DATE	TIME	Received By:
	<i>9-28-23</i>	<i>0925</i>	<i>MY</i>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<b>Temperature Record</b>			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID:	<i>T</i>	Correction Factor (°C):	<i>0</i>
<b>Temp Blank Temperature</b> - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	Corrected Temp (°C):		
<b>Sample Container Temperature</b>			
Container(s) used:	<u>CONTAINER 1</u> <i>Plastic 250 NT</i>	<u>CONTAINER 2</u> <i>Plastic 250 Mitic</i>	
Uncorrected Temp (°C):	<i>3.0</i>	<i>3.5</i>	
Corrected Temp (°C):	<i>3.0</i>	<i>3.5</i>	
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			



**Client Information (Sub Contract Lab)**  
 Client Contact: Mockler, Diana J  
 Shipping/Receiving: Diana Mockler@eurofins.com  
 Company: Eurofins Environment Testing North Centre  
 Address: 3019 Venture Way, Joliet #9 CCR 3Q23  
 City: Cedar Falls, IA, 50613  
 State, Zip: IA, 50613  
 Phone: 319-277-2401(Tel) 319-277-2425(Fax)  
 Email: [Redacted]  
 Project Name: Joliet #9 (Quary) CCR 3Q23  
 Site: NRG Midwest Generation LSQ, Joliet #9 CCR

**Sampler**  
 Lab Piv: Mockler, Diana J  
 Phone: Diana Mockler@eurofins.com  
 Carrier Tracking No(s): 500-179529 1  
 State of Origin: Illinois  
 Page: Page 1 of 1  
 Job #: 500-239151-1  
 Preservations 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) Other

**Analysis Requested**  
 Due Date Requested: 9/26/2023  
 TAT Requested (days):  
 PO #:  
 WO #:  
 Project #: 50011504  
 SSOW#:  
 Field Filtered Sample (Yes or No) [X]  
 Perform MS/MSD (Yes or No) [X]  
 7470M/7470A Prep Mercury [X]  
 6020B/3005A (MOD) 14 elements [X]  
 Total Number of Containers: 1

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470M/7470A Prep Mercury	6020B/3005A (MOD) 14 elements	Special Instructions/Note:
T02S (500-239151-19)	9/27/23	10:47 Central	Water	Water	[X]	[X]	[X]	[X]	
T08S (500-239151-20)	9/27/23	12:24 Central	Water	Water	[X]	[X]	[X]	[X]	
T05S (500-239151-21)	9/27/23	14:03 Central	Water	Water	[X]	[X]	[X]	[X]	

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.

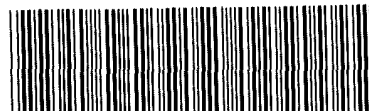
**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank. 2  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:
Relinquished by: [Signature]	Date/Time: 9/27/23 10:25	Company: EETA	Received by: [Signature]
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:	





Environment Testing  
America



500-239151 Chain of Custody

### Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>			
Client: <b>TA Chicago</b>			
City/State:	CITY	STATE	Project:
<b>Receipt Information</b>			
Date/Time Received:	DATE	TIME	Received By:
	<b>9/29/23</b>	<b>0930</b>	<b>J)</b>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<b>Temperature Record</b>			
Coolant: <input type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE			
Thermometer ID: <b>R</b>		Correction Factor (°C): <b>to</b>	
Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
<b>Sample Container Temperature</b>			
Container(s) used:	CONTAINER 1	CONTAINER 2	
	<b>personal</b>		
Uncorrected Temp (°C):	<b>19.6</b>		
Corrected Temp (°C):	<b>19.6</b>		
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			



# Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Lab PM:	Carrier Tracking No(s):	COC No:					
Client Contact: Shipping/Receiving		Mockler, Diana J		500-179566 1					
Company: Eurofins Environment Testing North Centre		E-Mail: Diana Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1					
Address: 3019 Venture Way, Cedar Falls IA, 50613		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239151-1					
Phone: 319-277-2401(Tel) 319-277-2425(Fax)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other							
Project Name: Joliet #9 (Quarry) CCR 3Q23		Analysis Requested							
Site: NRG Midwest Generation LSQ Joliet #9 CCR		Total Number of Containers							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Newer, Swallow, Bitter, Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470A/7470A Prep Mercury	6020B/3005A (MOD) 14 elements	Special Instructions/Note:
TT11S (500-239151-22)	9/28/23	09:38 Central	Water	Water	X	X	X	X	
TT01S (500-239151-23)	9/28/23	11:27 Central	Water	Water	X	X	X	X	
GG39S (500-239151-24)	9/28/23	13:23 Central	Water	Water	X	X	X	X	
<p><b>Possible Hazard Identification</b></p> <p>Unconfirmed</p> <p>Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</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</p>									
Empty Kit Relinquished by:		Date		Time		Method of Shipment:			
Relinquished by: <i>Am - [Signature]</i>		Date/Time: 9/29/23 1515		Company		Received by: <i>M</i>			
Relinquished by:		Date/Time:		Company		Received by:			
Relinquished by:		Date/Time:		Company		Received by:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:					

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



# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-239151-1

**Login Number: 239151**

**List Number: 1**

**Creator: Schmidt, Kara**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	3.5,3.8,3.7,5.2,2.7,2.1,4.6,1.8,5.2
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: 500-239151-1

**Login Number: 239151**

**List Number: 3**

**Creator: Homolar, Dana J**

**List Source: Eurofins Cedar Falls**

**List Creation: 09/08/23 01:17 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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?	False	Received project as a subcontract.
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: 500-239151-1

**Login Number: 239151**

**List Number: 4**

**Creator: Costello, Mackenzie K**

**List Source: Eurofins Cedar Falls**

**List Creation: 09/14/23 11:27 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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?	False	Received project as a subcontract.
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: 500-239151-1

**Login Number: 239151**

**List Number: 7**

**Creator: Tucker, Sarah L**

**List Source: Eurofins Cedar Falls**

**List Creation: 09/15/23 11:44 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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?	False	Received project as a subcontract.
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: 500-239151-1

**Login Number: 239151**

**List Number: 8**

**Creator: Costello, Mackenzie K**

**List Source: Eurofins Cedar Falls**

**List Creation: 09/20/23 10:44 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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?	False	Received project as a subcontract.
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: 500-239151-1

**Login Number: 239151**

**List Number: 11**

**Creator: Homolar, Dana J**

**List Source: Eurofins Cedar Falls**

**List Creation: 09/27/23 11:39 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Not in a cooler
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	Thermal preservation not required.
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.	True	

# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-239151-1

**Login Number: 239151**

**List Number: 12**

**Creator: Yang, Mary E**

**List Source: Eurofins Cedar Falls**

**List Creation: 09/28/23 10:13 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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?	False	Received project as a subcontract.
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: 500-239151-1

**Login Number: 239151**

**List Number: 14**

**Creator: Costello, Mackenzie K**

**List Source: Eurofins Cedar Falls**

**List Creation: 09/29/23 10:09 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
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?	False	Received project as a subcontract.
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: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Client Sample ID: G20S

Date Collected: 09/06/23 09:48

Date Received: 09/06/23 15:13

## Lab Sample ID: 500-239151-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		1	400336	DHM5	EET CF	09/21/23 17:46
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		1	400466	DHM5	EET CF	09/22/23 13:35
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		1	400668	DHM5	EET CF	09/25/23 14:36
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 11:51
Total/NA	Analysis	SM 2540C		1	731084	CLB	EET CHI	09/06/23 20:55
Total/NA	Analysis	SM 4500 CI- E		1	742589	PFK	EET CHI	09/14/23 15:34
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		2	733315	TR	EET CHI	09/20/23 15:37
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/06/23 09:48

## Client Sample ID: G31S

Date Collected: 09/06/23 13:48

Date Received: 09/06/23 15:13

## Lab Sample ID: 500-239151-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		1	400336	DHM5	EET CF	09/21/23 17:50
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		1	400466	DHM5	EET CF	09/22/23 13:39
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		1	400668	DHM5	EET CF	09/25/23 14:39
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 11:54
Total/NA	Analysis	SM 2540C		1	731084	CLB	EET CHI	09/06/23 21:02
Total/NA	Analysis	SM 4500 CI- E		10	732370	TR	EET CHI	09/14/23 15:16
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 13:06
Total/NA	Analysis	SM 4500 SO4 E		20	733315	TR	EET CHI	09/20/23 15:36
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/06/23 13:48

## Client Sample ID: G48S

Date Collected: 09/07/23 09:38

Date Received: 09/07/23 14:29

## Lab Sample ID: 500-239151-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		1	400336	DHM5	EET CF	09/21/23 17:54
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		1	400466	DHM5	EET CF	09/22/23 13:42
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		4	400668	DHM5	EET CF	09/25/23 14:41

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# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Client Sample ID: G48S

## Lab Sample ID: 500-239151-3

Date Collected: 09/07/23 09:38

Matrix: Water

Date Received: 09/07/23 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 11:56
Total/NA	Analysis	SM 2540C		1	731311	CLB	EET CHI	09/07/23 21:13
Total/NA	Analysis	SM 4500 CI- E		5	732578	TR	EET CHI	09/15/23 15:09
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 13:11
Total/NA	Analysis	SM 4500 SO4 E		10	733315	TR	EET CHI	09/20/23 15:39
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/07/23 09:38

## Client Sample ID: G47S

## Lab Sample ID: 500-239151-4

Date Collected: 09/07/23 11:03

Matrix: Water

Date Received: 09/07/23 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		1	400336	DHM5	EET CF	09/21/23 17:57
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		4	400466	DHM5	EET CF	09/22/23 13:45
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		4	400668	DHM5	EET CF	09/25/23 14:43
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 11:58
Total/NA	Analysis	SM 2540C		1	731311	CLB	EET CHI	09/07/23 21:16
Total/NA	Analysis	SM 4500 CI- E		5	732578	TR	EET CHI	09/15/23 15:09
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 13:15
Total/NA	Analysis	SM 4500 SO4 E		10	733315	TR	EET CHI	09/20/23 15:39
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/07/23 11:03

## Client Sample ID: R08S

## Lab Sample ID: 500-239151-5

Date Collected: 09/07/23 12:55

Matrix: Water

Date Received: 09/07/23 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		1	400336	DHM5	EET CF	09/21/23 18:01
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		4	400466	DHM5	EET CF	09/22/23 13:49
Total Recoverable	Prep	3005A			399206	KCK5	EET CF	09/12/23 09:40
Total Recoverable	Analysis	6020B		4	400668	DHM5	EET CF	09/25/23 14:45
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:00
Total/NA	Analysis	SM 2540C		1	731311	CLB	EET CHI	09/07/23 21:19
Total/NA	Analysis	SM 4500 CI- E		2	732578	TR	EET CHI	09/15/23 15:09
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 13:20

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# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Client Sample ID: R08S

Lab Sample ID: 500-239151-5

Date Collected: 09/07/23 12:55

Matrix: Water

Date Received: 09/07/23 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		10	733315	TR	EET CHI	09/20/23 15:37
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/07/23 12:55

## Client Sample ID: G30S

Lab Sample ID: 500-239151-6

Date Collected: 09/12/23 10:03

Matrix: Water

Date Received: 09/12/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401097	ZRI4	EET CF	09/29/23 18:19
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401128	A6US	EET CF	09/30/23 17:05
Total/NA	Prep	7470A			399840	NFT2	EET CF	09/18/23 10:47
Total/NA	Analysis	7470A		1	399998	NFT2	EET CF	09/19/23 11:32
Total/NA	Analysis	SM 2540C		1	731974	CLB	EET CHI	09/12/23 20:30
Total/NA	Analysis	SM 4500 CI- E		5	732578	TR	EET CHI	09/15/23 15:10
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 13:25
Total/NA	Analysis	SM 4500 SO4 E		10	733315	TR	EET CHI	09/20/23 15:37
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/12/23 10:03

## Client Sample ID: R32S

Lab Sample ID: 500-239151-7

Date Collected: 09/12/23 11:37

Matrix: Water

Date Received: 09/12/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401097	ZRI4	EET CF	09/29/23 18:23
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401128	A6US	EET CF	09/30/23 17:08
Total/NA	Prep	7470A			399840	NFT2	EET CF	09/18/23 10:47
Total/NA	Analysis	7470A		1	399998	NFT2	EET CF	09/19/23 11:34
Total/NA	Analysis	SM 2540C		1	732196	CLB	EET CHI	09/13/23 21:39
Total/NA	Analysis	SM 4500 CI- E		2	732578	TR	EET CHI	09/15/23 15:09
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 13:29
Total/NA	Analysis	SM 4500 SO4 E		20	733315	TR	EET CHI	09/20/23 15:34
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/12/23 11:37

## Client Sample ID: T12S

Lab Sample ID: 500-239151-8

Date Collected: 09/12/23 12:57

Matrix: Water

Date Received: 09/12/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401097	ZRI4	EET CF	09/29/23 18:26

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# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T12S**

**Lab Sample ID: 500-239151-8**

**Date Collected: 09/12/23 12:57**

**Matrix: Water**

**Date Received: 09/12/23 15:37**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401128	A6US	EET CF	09/30/23 17:10
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		4	401213	A6US	EET CF	10/02/23 12:31
Total/NA	Prep	7470A			399840	NFT2	EET CF	09/18/23 10:47
Total/NA	Analysis	7470A		1	399998	NFT2	EET CF	09/19/23 11:36
Total/NA	Analysis	SM 2540C		1	732196	CLB	EET CHI	09/13/23 21:46
Total/NA	Analysis	SM 4500 CI- E		2	732578	TR	EET CHI	09/15/23 15:10
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 13:34
Total/NA	Analysis	SM 4500 SO4 E		20	733315	TR	EET CHI	09/20/23 15:35
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/12/23 12:57

**Client Sample ID: G33S**

**Lab Sample ID: 500-239151-9**

**Date Collected: 09/12/23 13:51**

**Matrix: Water**

**Date Received: 09/12/23 15:37**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401097	ZRI4	EET CF	09/29/23 18:29
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401128	A6US	EET CF	09/30/23 17:26
Total/NA	Prep	7470A			399840	NFT2	EET CF	09/18/23 10:47
Total/NA	Analysis	7470A		1	399998	NFT2	EET CF	09/19/23 11:38
Total/NA	Analysis	SM 2540C		1	732196	CLB	EET CHI	09/13/23 21:52
Total/NA	Analysis	SM 4500 CI- E		1	732578	TR	EET CHI	09/15/23 15:56
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		2	733315	TR	EET CHI	09/20/23 16:46
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/12/23 13:51

**Client Sample ID: G46S**

**Lab Sample ID: 500-239151-10**

**Date Collected: 09/13/23 09:44**

**Matrix: Water**

**Date Received: 09/13/23 15:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401097	ZRI4	EET CF	09/29/23 18:33
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401128	A6US	EET CF	09/30/23 17:28
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		4	401213	A6US	EET CF	10/02/23 12:33
Total/NA	Prep	7470A			399840	NFT2	EET CF	09/18/23 10:47
Total/NA	Analysis	7470A		1	399998	NFT2	EET CF	09/19/23 11:41
Total/NA	Analysis	SM 2540C		1	732196	CLB	EET CHI	09/13/23 21:54
Total/NA	Analysis	SM 4500 CI- E		2	732578	TR	EET CHI	09/15/23 16:38

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# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G46S**

**Lab Sample ID: 500-239151-10**

**Date Collected: 09/13/23 09:44**

**Matrix: Water**

**Date Received: 09/13/23 15:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 13:53
Total/NA	Analysis	SM 4500 SO4 E		20	733315	TR	EET CHI	09/20/23 15:35
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/13/23 09:44

**Client Sample ID: G38S**

**Lab Sample ID: 500-239151-11**

**Date Collected: 09/13/23 10:48**

**Matrix: Water**

**Date Received: 09/13/23 15:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401097	ZRI4	EET CF	09/29/23 18:36
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401128	A6US	EET CF	09/30/23 17:30
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		4	401213	A6US	EET CF	10/02/23 12:36
Total/NA	Prep	7470A			399840	NFT2	EET CF	09/18/23 10:47
Total/NA	Analysis	7470A		1	399998	NFT2	EET CF	09/19/23 11:43
Total/NA	Analysis	SM 2540C		1	732196	CLB	EET CHI	09/13/23 21:57
Total/NA	Analysis	SM 4500 Cl- E		2	732578	TR	EET CHI	09/15/23 16:39
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 13:58
Total/NA	Analysis	SM 4500 SO4 E		10	733315	TR	EET CHI	09/20/23 16:46
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/13/23 10:48

**Client Sample ID: T03S**

**Lab Sample ID: 500-239151-12**

**Date Collected: 09/13/23 11:45**

**Matrix: Water**

**Date Received: 09/13/23 15:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401128	A6US	EET CF	09/30/23 17:32
Total/NA	Prep	7470A			399840	NFT2	EET CF	09/18/23 10:47
Total/NA	Analysis	7470A		1	399998	NFT2	EET CF	09/19/23 11:45
Total/NA	Analysis	SM 2540C		1	732196	CLB	EET CHI	09/13/23 21:59
Total/NA	Analysis	SM 4500 Cl- E		5	732578	TR	EET CHI	09/15/23 16:39
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 14:03
Total/NA	Analysis	SM 4500 SO4 E		10	733315	TR	EET CHI	09/20/23 15:43
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/13/23 11:45

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: G44S**

**Lab Sample ID: 500-239151-13**

**Date Collected: 09/13/23 13:52**

**Matrix: Water**

**Date Received: 09/13/23 15:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401097	ZRI4	EET CF	09/29/23 18:43
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401128	A6US	EET CF	09/30/23 17:34
Total/NA	Prep	7470A			399840	NFT2	EET CF	09/18/23 10:47
Total/NA	Analysis	7470A		1	399998	NFT2	EET CF	09/19/23 11:51
Total/NA	Analysis	SM 2540C		1	732196	CLB	EET CHI	09/13/23 22:02
Total/NA	Analysis	SM 4500 CI- E		2	732578	TR	EET CHI	09/15/23 16:39
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 14:07
Total/NA	Analysis	SM 4500 SO4 E		5	733315	TR	EET CHI	09/20/23 15:37
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/13/23 13:52

**Client Sample ID: G45S**

**Lab Sample ID: 500-239151-14**

**Date Collected: 09/14/23 14:10**

**Matrix: Water**

**Date Received: 09/14/23 15:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401097	ZRI4	EET CF	09/29/23 18:46
Total Recoverable	Prep	3005A			399746	KCK5	EET CF	09/18/23 10:00
Total Recoverable	Analysis	6020B		1	401128	A6US	EET CF	09/30/23 17:37
Total/NA	Prep	7470A			399840	NFT2	EET CF	09/18/23 10:47
Total/NA	Analysis	7470A		1	399998	NFT2	EET CF	09/19/23 11:53
Total/NA	Analysis	SM 2540C		1	732629	CLB	EET CHI	09/18/23 00:59
Total/NA	Analysis	SM 4500 CI- E		10	732840	TR	EET CHI	09/18/23 16:01
Total/NA	Analysis	SM 4500 F C		1	732823	EH	EET CHI	09/18/23 14:12
Total/NA	Analysis	SM 4500 SO4 E		10	733424	TR	EET CHI	09/21/23 13:03
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/14/23 14:10

**Client Sample ID: T09S**

**Lab Sample ID: 500-239151-15**

**Date Collected: 09/19/23 11:28**

**Matrix: Water**

**Date Received: 09/19/23 15:38**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			400150	KCK5	EET CF	09/21/23 09:25
Total Recoverable	Analysis	6020B		1	401097	ZRI4	EET CF	09/29/23 20:54
Total Recoverable	Prep	3005A			400150	KCK5	EET CF	09/21/23 09:25
Total Recoverable	Analysis	6020B		1	401128	A6US	EET CF	09/30/23 16:17
Total Recoverable	Prep	3005A			400150	KCK5	EET CF	09/21/23 09:25
Total Recoverable	Analysis	6020B		4	401865	A6US	EET CF	10/08/23 18:51
Total/NA	Prep	7470A			400381	NFT2	EET CF	09/22/23 10:16
Total/NA	Analysis	7470A		1	400565	NFT2	EET CF	09/25/23 10:08
Total/NA	Analysis	SM 2540C		1	733073	CLB	EET CHI	09/19/23 20:53
Total/NA	Analysis	SM 4500 CI- E		2	733653	TR	EET CHI	09/22/23 11:15

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# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Client Sample ID: T09S

## Lab Sample ID: 500-239151-15

Date Collected: 09/19/23 11:28

Matrix: Water

Date Received: 09/19/23 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	733817	EH	EET CHI	09/25/23 09:47
Total/NA	Analysis	SM 4500 SO4 E		20	733315	TR	EET CHI	09/20/23 15:36
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/19/23 11:28

## Client Sample ID: T06S

## Lab Sample ID: 500-239151-16

Date Collected: 09/19/23 13:28

Matrix: Water

Date Received: 09/19/23 15:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			400150	KCK5	EET CF	09/21/23 09:25
Total Recoverable	Analysis	6020B		1	401097	ZRI4	EET CF	09/29/23 21:03
Total Recoverable	Prep	3005A			400150	KCK5	EET CF	09/21/23 09:25
Total Recoverable	Analysis	6020B		1	401128	A6US	EET CF	09/30/23 16:23
Total Recoverable	Prep	3005A			400150	KCK5	EET CF	09/21/23 09:25
Total Recoverable	Analysis	6020B		1	401865	A6US	EET CF	10/08/23 18:58
Total/NA	Prep	7470A			400381	NFT2	EET CF	09/22/23 10:16
Total/NA	Analysis	7470A		1	400565	NFT2	EET CF	09/25/23 10:14
Total/NA	Analysis	SM 2540C		1	733073	CLB	EET CHI	09/19/23 20:56
Total/NA	Analysis	SM 4500 Cl- E		1	733653	TR	EET CHI	09/22/23 10:43
Total/NA	Analysis	SM 4500 F C		1	733817	EH	EET CHI	09/25/23 09:52
Total/NA	Analysis	SM 4500 SO4 E		5	733315	TR	EET CHI	09/20/23 15:36
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/19/23 13:28

## Client Sample ID: T13S

## Lab Sample ID: 500-239151-17

Date Collected: 09/26/23 11:25

Matrix: Water

Date Received: 09/26/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		1	402020	A6US	EET CF	10/09/23 15:47
Total/NA	Prep	7470A			401252	NFT2	EET CF	10/03/23 08:03
Total/NA	Analysis	7470A		1	401339	NFT2	EET CF	10/03/23 13:22
Total/NA	Analysis	SM 2540C		1	734131	CLB	EET CHI	09/26/23 22:31
Total/NA	Analysis	SM 4500 Cl- E		1	734288	TR	EET CHI	09/27/23 14:01
Total/NA	Analysis	SM 4500 F C		1	736942	SO	EET CHI	10/12/23 15:29
Total/NA	Analysis	SM 4500 SO4 E		10	735396	TR	EET CHI	10/04/23 16:40
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/26/23 11:25

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

**Client Sample ID: T13S Dup**  
**Date Collected: 09/26/23 11:25**  
**Date Received: 09/26/23 14:40**

**Lab Sample ID: 500-239151-18**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		1	402020	A6US	EET CF	10/09/23 16:03
Total/NA	Prep	7470A			401252	NFT2	EET CF	10/03/23 08:03
Total/NA	Analysis	7470A		1	401339	NFT2	EET CF	10/03/23 13:24
Total/NA	Analysis	SM 2540C		1	734131	CLB	EET CHI	09/26/23 22:33
Total/NA	Analysis	SM 4500 CI- E		1	734288	TR	EET CHI	09/27/23 14:01
Total/NA	Analysis	SM 4500 F C		1	736942	SO	EET CHI	10/12/23 15:42
Total/NA	Analysis	SM 4500 SO4 E		10	735396	TR	EET CHI	10/04/23 16:40
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/26/23 11:25

**Client Sample ID: T02S**  
**Date Collected: 09/27/23 10:47**  
**Date Received: 09/27/23 16:00**

**Lab Sample ID: 500-239151-19**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		1	402020	A6US	EET CF	10/09/23 16:06
Total/NA	Prep	7470A			401252	NFT2	EET CF	10/03/23 08:03
Total/NA	Analysis	7470A		1	401339	NFT2	EET CF	10/03/23 13:35
Total/NA	Analysis	SM 2540C		1	734545	CLB	EET CHI	09/29/23 01:36
Total/NA	Analysis	SM 4500 CI- E		10	735348	TR	EET CHI	10/04/23 10:41
Total/NA	Analysis	SM 4500 F C		1	736942	SO	EET CHI	10/12/23 15:46
Total/NA	Analysis	SM 4500 SO4 E		10	735396	TR	EET CHI	10/04/23 16:40
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/27/23 10:47

**Client Sample ID: T08S**  
**Date Collected: 09/27/23 12:24**  
**Date Received: 09/27/23 16:00**

**Lab Sample ID: 500-239151-20**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		1	402020	A6US	EET CF	10/09/23 16:10
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		7	402075	A6US	EET CF	10/10/23 12:17
Total/NA	Prep	7470A			401252	NFT2	EET CF	10/03/23 08:03
Total/NA	Analysis	7470A		1	401339	NFT2	EET CF	10/03/23 13:37
Total/NA	Analysis	SM 2540C		1	734545	CLB	EET CHI	09/29/23 01:39
Total/NA	Analysis	SM 4500 CI- E		20	735348	TR	EET CHI	10/04/23 10:39
Total/NA	Analysis	SM 4500 F C		1	736942	SO	EET CHI	10/12/23 15:51
Total/NA	Analysis	SM 4500 SO4 E		10	735396	TR	EET CHI	10/04/23 16:41
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/27/23 12:24



# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Client Sample ID: T05S

## Lab Sample ID: 500-239151-21

Date Collected: 09/27/23 14:03

Matrix: Water

Date Received: 09/27/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		1	402020	A6US	EET CF	10/09/23 16:26
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		10	402075	A6US	EET CF	10/10/23 12:21
Total/NA	Prep	7470A			401252	NFT2	EET CF	10/03/23 08:03
Total/NA	Analysis	7470A		1	401339	NFT2	EET CF	10/03/23 13:39
Total/NA	Analysis	SM 2540C		1	734545	CLB	EET CHI	09/29/23 01:41
Total/NA	Analysis	SM 4500 CI- E		10	735348	TR	EET CHI	10/04/23 10:41
Total/NA	Analysis	SM 4500 F C		1	736942	SO	EET CHI	10/12/23 15:55
Total/NA	Analysis	SM 4500 SO4 E		20	735396	TR	EET CHI	10/04/23 16:56
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/27/23 14:03

## Client Sample ID: T11S

## Lab Sample ID: 500-239151-22

Date Collected: 09/28/23 09:38

Matrix: Water

Date Received: 09/28/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		1	402020	A6US	EET CF	10/09/23 16:30
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		4	402075	A6US	EET CF	10/10/23 12:23
Total/NA	Prep	7470A			401252	NFT2	EET CF	10/03/23 08:03
Total/NA	Analysis	7470A		1	401339	NFT2	EET CF	10/03/23 13:42
Total/NA	Analysis	SM 2540C		1	734545	CLB	EET CHI	09/29/23 01:44
Total/NA	Analysis	SM 4500 CI- E		1	735348	TR	EET CHI	10/04/23 10:19
Total/NA	Analysis	SM 4500 F C		1	736942	SO	EET CHI	10/12/23 15:59
Total/NA	Analysis	SM 4500 SO4 E		10	735396	TR	EET CHI	10/04/23 16:41
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/28/23 09:38

## Client Sample ID: T01S

## Lab Sample ID: 500-239151-23

Date Collected: 09/28/23 11:27

Matrix: Water

Date Received: 09/28/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		1	402020	A6US	EET CF	10/09/23 16:33
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		4	402075	A6US	EET CF	10/10/23 12:25
Total/NA	Prep	7470A			401252	NFT2	EET CF	10/03/23 08:03
Total/NA	Analysis	7470A		1	401339	NFT2	EET CF	10/03/23 13:44
Total/NA	Analysis	SM 2540C		1	734545	CLB	EET CHI	09/29/23 01:46
Total/NA	Analysis	SM 4500 CI- E		20	735348	TR	EET CHI	10/04/23 10:39
Total/NA	Analysis	SM 4500 F C		1	736942	SO	EET CHI	10/12/23 16:15

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-1

## Client Sample ID: T01S

Lab Sample ID: 500-239151-23

Date Collected: 09/28/23 11:27

Matrix: Water

Date Received: 09/28/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		10	735396	TR	EET CHI	10/04/23 16:41
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/28/23 11:27

## Client Sample ID: G39S

Lab Sample ID: 500-239151-24

Date Collected: 09/28/23 13:23

Matrix: Water

Date Received: 09/28/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		1	402020	A6US	EET CF	10/09/23 16:37
Total Recoverable	Prep	3005A			401223	KCK5	EET CF	10/03/23 09:05
Total Recoverable	Analysis	6020B		4	402075	A6US	EET CF	10/10/23 12:28
Total/NA	Prep	7470A			401252	NFT2	EET CF	10/03/23 08:03
Total/NA	Analysis	7470A		1	401339	NFT2	EET CF	10/03/23 13:46
Total/NA	Analysis	SM 2540C		1	734545	CLB	EET CHI	09/29/23 01:49
Total/NA	Analysis	SM 4500 CI- E		1	735348	TR	EET CHI	10/04/23 10:19
Total/NA	Analysis	SM 4500 F C		1	736942	SO	EET CHI	10/12/23 16:19
Total/NA	Analysis	SM 4500 SO4 E		10	735396	TR	EET CHI	10/04/23 16:42
Total/NA	Analysis	Field Sampling		1	731481	JVB	EET CHI	09/28/23 13:23

### Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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: G20S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-1

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: 09/06/23 Start Purge: 0930 End Purge: 0948  
(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 7.45 7.47 7.47 (std.)  
Ref. Measuring Pt. TIC SC 700 705 705 (umhos/cm)  
Well Elevation \*580.87 (ft./msl) Temp 24.90 24.96 24.96 (°C)  
Water Level 58.35 (ft.)  
Ground Water Elev. ~~58.35~~ 52.52 (ft./msl) Well Stabilization / Recharge Grid  
Well Bottom Elevation \*442.28 (ft./msl) <sup>calculated as of</sup>


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor  
Weather Conditions: 74°F, Mostly Cloudy, SW winds @ 10-15 mph  
Turbidity: 1.17 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 58.35 - 2.78 = 55.57 (ft)  
Levels were taken on 09/06/23 @ 0920

(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  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-2

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: 09/06/23 Start Purge: 1335 End Purge: 1348  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.59

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.58 (ft) pH 7.45 7.42 7.42 (std.)  
Ref. Measuring Pt. TIC SC 1760 1750 1750 (umhos/cm)  
Well Elevation \*535.73 (ft./msl) Temp. 16.42 16.40 16.40 (°C)  
Water Level 28.97 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 506.76 (ft./msl)  
Well Bottom Elevation \*453.36 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor  
Weather Conditions: 78°F, Mostly Cloudy, W winds @ 10-15 mph  
Turbidity: 0.65 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 28.97 - 2.58 = 26.39 (ft.)  
Levels were taken on 09/06/23 @ 1330

(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: G48S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-3

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: 09/07/23 Start Purge: 0920 End Purge: 0938  
(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 7.74 7.75 7.75 (std.)  
Ref. Measuring Pt. TIC SC 1455 1450 1450 (umhos/cm)  
Well Elevation \*620.77 (ft./msl) Temp. 15.46 15.47 15.47 (°C)  
Water Level 103.25 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 517.52 (ft./msl)  
Well Bottom Elevation \*468.32 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 66°F, Cloudy, N winds @ 5-10 mph  
Turbidity: 1.56 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 103.25 - 2.45 = 100.80 (ft)  
Levels were taken on 09/07/23 @ 0915

(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 #: 500-239151-4

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: 09/07/23 Start Purge: 1045 End Purge: 1103  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.58

**MEASUREMENTS**

Well Diameter 4.0 (inches) 1st 2nd Final  
Stick Up 2.50 (ft) pH 7.75 7.77 7.77 (std.)  
Ref. Measuring Pt. TIC SC 1600 1590 1590 (umhos/cm)  
Well Elevation \*612.23 (ft./msl) Temp. 14.66 14.62 14.62 (°C)  
Water Level 95.26 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 516.97 (ft./msl)  
Well Bottom Elevation \*459.84 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor  
Weather Conditions: 68°F, Cloudy, N winds e 5-10 mph  
Turbidity: 0.18 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 95.26 - 2.50 = 92.76 (ft)  
Levels were taken on 09/07/23 @ 1040

(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: R08S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-5

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: 09/07/23 Start Purge: 1240 End Purge: 1255  
(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 8.06 8.05 8.05 (std.)  
Ref. Measuring Pt. TIC SC 1048 1044 1044 (umhos/cm)  
Well Elevation \*578.66 (ft./msl) Temp. 14.23 14.26 14.26 (°C)  
Water Level 69.85 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 508.81 (ft./msl)  
Well Bottom Elevation \*453.08 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 69°F, Cloudy, NW winds 0-5 mph  
Turbidity: 0.15 NTU  
Other: \*Reference Measurement (Well ID updated 11-25-15)  
Depth To Water from L.S. = 69.85 - 2.55 = 67.30 (ft)  
Levels were taken on 09/07/23 @ 1235

(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: G30S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-6

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: 09/12/23 Start Purge: 0945 End Purge: 1003  
(2400 Hr. Clock)

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

**MEASUREMENTS**

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																					
Stick Up <u>2.31</u> (ft)	pH <u>7.69</u>	<u>7.67</u>	<u>7.67</u>	(std.)																				
Ref. Measuring Pt. <u>TIC</u>	SC <u>1940</u>	<u>1930</u>	<u>1930</u>	(umhos/cm)																				
Well Elevation <u>*524.86</u> (ft./msl)	Temp. <u>14.36</u>	<u>14.38</u>	<u>14.38</u>	(°C)																				
Water Level <u>2.06</u> (ft.)	Well Stabilization / Recharge Grid																							
Ground Water Elev. <u>522.80</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> </table>																							
Well Bottom Elevation <u>*462.58</u> (ft./msl)																								

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 60°F, Cloudy, NE winds 0-5 mph  
Turbidity: 0.71 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 2.06 - 2.31 = -0.25 (ft.)  
Levels were taken on 09/12/23 @ 0940.

(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 #: 500-239151-7

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: 09/12/23 Start Purge: 1118 End Purge: 1137  
(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 7.62 7.60 7.60 (std.)  
Ref. Measuring Pt. TIC SC 921 921 921 (umhos/cm)  
Well Elevation \*536.97 (ft./msl) Temp. 12.58 12.59 12.59 (°C)  
Water Level 22.34 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 514.63 (ft./msl)  
Well Bottom Elevation \*457.84 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 66°F, Cloudy, NW winds e5-10 mph  
Turbidity: 0.52 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 22.34 - 2.03 = 20.31 (ft.)  
Levels were taken on 09/12/23 @ 1113

(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: T12S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-8

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: 09/12/23 Start Purge: 1245 End Purge: 1257  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.46

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.74 (ft) pH 7.46 7.46 7.46 (std.)  
Ref. Measuring Pt. TIC SC 1164 1166 1166 (umhos/cm)  
Well Elevation \* 578.74 (ft./msl) Temp. 14.00 13.94 13.94 (°C)  
Water Level 73.39 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 505.35 (ft./msl)  
Well Bottom Elevation \* 452.24 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Tan, Slight Turbidity, No Odor  
Weather Conditions: 67°F, Partly Cloudy, N winds @ 5-10 mph  
Turbidity: 3.27 NTU  
Other: \*Reference Measurement (form added 05/08/2023)  
Depth To Water from L.S. = 73.39 - 2.74 = 70.65 (ft)  
Levels were taken on 9/12/23 @ 1240  
\* Total Depth: 126.5 (ft)

(Updated: 05/08/2023)

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: G33S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-9

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: 09/29/23 Start Purge: 1330 End Purge: 1351  
*N/L* (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 1.73 (ft) pH 7.63 7.61 7.61 (std.)  
Ref. Measuring Pt. TIC SC 735 741 741 (umhos/cm)  
Well Elevation \*535.67 (ft./msl) Temp. 21.30 21.21 21.21 (°C)  
Water Level 39.06 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 496.61 (ft./msl)  
Well Bottom Elevation \*452.72 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Gray, Moderate Turbidity, No odor  
Weather Conditions: 68°F, Partly Cloudy, N winds e 5-10 mph  
Turbidity: 776.00 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 39.06 - 1.73 = 37.33 (ft)  
Levels were taken on 09/29/23 @ 1325

(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 #: 500-239151-10

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: 09/13/23 Start Purge: 0930 End Purge: 0944  
(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 7.45 7.48 7.48 (std.)  
Ref. Measuring Pt. TIC SC 1307 1308 1308 (umhos/cm)  
Well Elevation \*601.41 (ft./msl) Temp. 14.07 13.84 13.84 (°C)  
Water Level 106.12 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 495.29 (ft./msl)  
Well Bottom Elevation \*453.62 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Tan, Moderate Turbidity, No Odor  
Weather Conditions: 61°F, Mostly Cloudy, NW windse 0-5 mph  
Turbidity: 113.00 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 106.12 - 2.70 = 103.42 (ft)  
Levels were taken on 09/13/23 @ 0925

(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: G38S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-229151-11

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: 09/13/23 Start Purge: 1031 End Purge: 1048  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.66

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.22 (ft) pH 7.75 7.77 7.77 (std.)  
Ref. Measuring Pt. TIC SC 1358 1344 1344 (umhos/cm)  
Well Elevation \*610.59 (ft./msl) Temp. 14.41 14.36 14.36 (°C)  
Water Level 98.43 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 512.14 (ft./msl)  
Well Bottom Elevation \*457.57 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 64°F, Fair, NW winds p 0-5 mph  
Turbidity: 0.21 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 98.43 - 2.22 = 96.21 (ft.)  
Levels were taken on 09/13/23 @ 1026.  
  
(Added to Joliet #9 CCR program 3Q23)

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 #: 500-239151-12

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: 09/13/23 Start Purge: 1127 End Purge: 1145  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.46

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 3.08 (ft) pH 7.55 7.56 7.56 (std.)  
Ref. Measuring Pt. TIC SC 1297 1307 1307 (umhos/cm)  
Well Elevation \* 629.85 (ft./msl) Temp. 13.22 13.20 13.20 (°C)  
Water Level 138.60 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 491.25 (ft./msl) 


  
Well Bottom Elevation \* 456.70 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 68°F, Partly Cloudy, NW windse 5-10 mph  
Turbidity: 0.22 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 138.60 - 3.08 = 135.53 (ft.)  
Levels were taken on 09/13/23 @ 1122  
\* 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 #: 500-239151-13

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: 09/13/23 Start Purge: 1333 End Purge: 1352  
(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 2.18 (ft) pH 7.05 7.01 7.01 (std.)  
Ref. Measuring Pt. TIC SC 1154 1152 1152 (umhos/cm)  
Well Elevation \*586.68 (ft./msl) Temp. 14.39 14.36 14.36 (°C)  
Water Level 82.75 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 503.93 (ft./msl)  
Well Bottom Elevation \*455.11 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 70°F, Partly Cloudy, NW winds @ 5-10 mph  
Turbidity: 0.93  
Other: \*Reference Measurement  
Depth To Water from L.S. = 82.75 - 2.18 = 80.57 (ft.)  
Levels were taken on 09/13/23 @ 1328.

(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: G45S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-14

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: 09/14/23 Start Purge: 1354 End Purge: 1410  
(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>7.39</u>	<u>7.35</u>	<u>7.35</u> (std.)										
Ref. Measuring Pt.	<u>TIC</u>		SC	<u>974</u>	<u>974</u>	<u>974</u> (umhos/cm)										
Well Elevation	<u>*603.80</u>	(ft./msl)	Temp.	<u>15.38</u>	<u>15.43</u>	<u>15.43</u> (°C)										
Water Level	<u>65.12</u>	(ft.)	Well Stabilization / Recharge Grid													
Ground Water Elev.	<u>538.68</u>	(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></tr> </table>													
Well Bottom Elevation	<u>*471.05</u>	(ft./msl)														

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 71°F, Fair, NE winds e 0-5 mph  
Turbidity: 0.97 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 65.12 - 2.97 = 62.15 (ft)  
Levels were taken on 09/14/23 @ 1349.  
  
  
(Updated: 07/14/2022)

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

FIELD FORM 1







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 #: 500-239151-15

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: 09/19/23 Start Purge: 1110 End Purge: 1128  
(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 7.77 7.74 7.74 (std.)

Ref. Measuring Pt. TIC      SC 1284 1289 1289 (umhos/cm)

Well Elevation \* 603.48 (ft./msl)      Temp. 14.12 14.10 14.10 (°C)

Water Level 109.68 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 493.80 (ft./msl)

Well Bottom Elevation \* 444.80 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor

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

Turbidity: 33.90 NTU

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

Depth To Water from L.S. = 109.68 - 2.40 = 107.28 (ft.)

Levels were taken on 09/19/23 @ 1055

\* 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 #: 500-239151-16

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

Equipment Used: Purging \_\_\_\_\_ Bladder Pump Dedicated   
 Sampling \_\_\_\_\_ Bladder Pump Dedicated

**PURGING INFORMATION**

Purge Date: 09/19/23 Start Purge: 1313 End Purge: 1328  
(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 7.29 7.29 7.29 (std.)

Ref. Measuring Pt. TIC      SC 785 787 787 (umhos/cm)

Well Elevation \* 621.05 (ft./msl)      Temp. 15.06 15.07 15.07 (°C)

Water Level 118.00 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 503.05 (ft./msl)

Well Bottom Elevation \* 447.94 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 63°F, Mostly Cloudy, SE winds @ 5-10 mph

Turbidity: 0.52 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 118.00 - 2.30 = 115.70 ft.

Levels were taken on 09/19/23 @ 1258

\* 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: T13S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-17

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: 09/26/23 Start Purge: 1115 End Purge: 1125  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.77

**MEASUREMENTS**

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final											
Stick Up <u>2.76</u> (ft)	pH <u>7.41</u>	<u>7.43</u>	<u>7.43</u>	(std.)										
Ref. Measuring Pt. <u>TIC</u>	SC <u>931</u>	<u>928</u>	<u>928</u>	(umhos/cm)										
Well Elevation <u>* 525.33</u> (ft./msl)	Temp. <u>15.72</u>	<u>15.68</u>	<u>15.68</u>	(°C)										
Water Level <u>20.30</u> (ft.)	Well Stabilization / Recharge Grid													
Ground Water Elev. <u>505.03</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>* 452.21</u> (ft./msl)														

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Strong Odor  
Weather Conditions: 69°F, Mostly Cloudy, SE windse 5-10 mph  
Turbidity: 5.31 NTU  
Other: \*Reference Measurement (form added 05/08/2023)  
Depth To Water from L.S. = 20.30 - 2.76 = 17.54 (ft)  
Levels were taken on 09/26/23 @ 1110  
\* Total Depth: 73.12 (ft)

(Updated: 05/08/2023)

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: T13S Dup  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-18

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

**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 2.76 (ft) pH \_\_\_\_\_ (std.)  
Ref. Measuring Pt. TIC SC \_\_\_\_\_ (umhos/cm)  
Well Elevation \* 525.33 (ft./msl) Temp. \_\_\_\_\_ (°C)

Water Level \_\_\_\_\_ (ft.)

Well Stabilization / Recharge Grid

Ground Water Elev. \_\_\_\_\_ (ft./msl)


Well Bottom Elevation \* 452.21 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_

Turbidity: \_\_\_\_\_

Other: \*Reference Measurement (form added 05/08/2023)

Depth To Water from L.S. = \_\_\_\_\_

Levels were taken on \_\_\_\_\_ @ \_\_\_\_\_

\* Total Depth: 73.12 (ft)

(Updated: 05/08/2023)

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: T02S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-19

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) (Y)

**PURGING INFORMATION**

Purge Date: 09/27/23 Start Purge: 1028 End Purge: 1047  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.61

**MEASUREMENTS**

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final																															
Stick Up <u>2.33</u> (ft)	pH <u>7.71</u>	<u>7.70</u>	<u>7.70</u>	(std.)																														
Ref. Measuring Pt. <u>TIC</u>	SC <u>1387</u>	<u>1388</u>	<u>1388</u>	(umhos/cm)																														
Well Elevation * <u>626.12</u> (ft./msl)	Temp. <u>16.64</u>	<u>16.63</u>	<u>16.63</u>	(°C)																														
Water Level <u>136.54</u> (ft.)	Well Stabilization / Recharge Grid																																	
Ground Water Elev. <u>489.58</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>453.40</u> (ft./msl)																																		

**COMMENTS**

Sample Appearance/Odor: Colorless, Slight Turbidity, No Odor  
Weather Conditions: 64°F, Cloudy, SE winds @ 0-5 mph  
Turbidity: 65.20 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 136.54 - 2.33 = 134.21 (ft.)  
Levels were taken on 09/27/23 @ 1010  
\* 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 #: 500-239151-20

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: 09/27/23 Start Purge: 1202 End Purge: 1224  
(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 2.38 (ft) pH 8.54 8.51 8.51 (std.)  
Ref. Measuring Pt. TIC SC 1476 1474 1474 (umhos/cm)  
Well Elevation \* 627.55 (ft./msl) Temp. 17.47 17.41 17.41 (°C)  
Water Level 131.69 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 495.86 (ft./msl)  
Well Bottom Elevation \* 447.38 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Slight Turbidity, Strong Odor  
Weather Conditions: 68°F, Cloudy, SE winds @ 5-10 mph  
Turbidity: 3.13 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 131.69 - 2.38 = 129.31 (ft.)  
Levels were taken on 09/27/23 @ 1147  
\* 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: T05S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-21

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: 09/21/23 Start Purge: 1341 End Purge: 1403  
(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 9.23 9.24 9.24 (std.)  
Ref. Measuring Pt. TIC SC 2320 2330 2330 (umhos/cm)  
Well Elevation \* 623.50 (ft./msl) Temp. 20.08 20.10 20.10 (°C)  
Water Level 125.82 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 497.68 (ft./msl) 


  
Well Bottom Elevation \* 448.35 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 70°F, Cloudy, NE winds e 0-5 mph  
Turbidity: 3.24 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 125.82 - 2.40 = 123.42 (ft.)  
Levels were taken on 09/21/23 @ 1326  
\* Total Deth = 175.00

(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: T11S  
Facility: Midwest Generation-Joliet 9 CCR  
Job #: 500-239151-22

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: 09/28/23 Start Purge: 0922 End Purge: 0938  
(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 2.74 (ft) pH 7.74 7.71 7.71 (std.)  
Ref. Measuring Pt. TIC SC 913 911 911 (umhos/cm)  
Well Elevation \* 559.48 (ft./msl) Temp. 15.85 15.85 15.85 (°C)  
Water Level 71.49 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 487.99 (ft./msl)  
Well Bottom Elevation \* 445.60 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Gray, Moderate Turbidity, No Odor  
Weather Conditions: 66°F, Cloudy, NE winds @ 5-10 mph  
Turbidity: 64.90 NTU  
Other: \*Reference Measurement (updated 02/19/14)  
Depth To Water from L.S. = 71.49 - 2.74 = 68.75 (ft.)  
Levels were taken on 09/28/23 @ 0907  
\* Total Depth: 113.76

(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 #: 500-239151-23

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: 09/28/23 Start Purge: 1111 End Purge: 1127  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.21

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.48 (ft) pH 7.85 7.86 7.86 (std.)  
Ref. Measuring Pt. TIC SC 1417 1417 1417 (umhos/cm)  
Well Elevation \* 621.84 (ft./msl) Temp. 19.51 19.51 19.51 (°C)  
Water Level 125.16 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 496.68 (ft./msl)  
Well Bottom Elevation \* 451.46 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Gray, Moderate Turbidity, Slight Odor  
Weather Conditions: 70°F, Cloudy, NE winds @ 5-10 mph  
Turbidity: 131.00 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 125.16 - 2.48 = 122.68 (ft.)  
Levels were taken on 09/28/23 @ 1055  
\* 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: G39S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-239151-24

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: 09/20/23 Start Purge: 1305 End Purge: 1323  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.93

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.08 (ft) pH 7.19 7.21 7.21 (std.)  
Ref. Measuring Pt. TIC SC 740 746 746 (umhos/cm)  
Well Elevation \*598.75 (ft./msl) Temp. 12.91 12.90 12.90 (°C)  
Water Level 96.87 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 501.88 (ft./msl)  
Well Bottom Elevation \*454.15 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 70°F, Clouds, NE winds 5-10 mph  
Turbidity: 1.25 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 96.87 - 2.08 = 94.79 (ft.)  
Levels were taken on 09/20/23 @ 1300  
  
  
  
(Updated: 09-19-2023)

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 10/30/2023 8:15:52 AM

## JOB DESCRIPTION

Joliet #9 (Quarry) CCR 3Q23

## JOB NUMBER

500-239151-2

# Eurofins Chicago

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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10/30/2023 8:15:52 AM

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(219)252-7570



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# Case Narrative

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Job ID: 500-239151-2

### Laboratory: Eurofins Chicago

#### Narrative

#### Job Narrative 500-239151-2

#### Receipt

The samples were received on 9/6/2023 3:13 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 1.8° C, 2.1° C, 2.7° C, 3.5° C, 3.7° C, 3.8° C, 4.6° C, 5.2° C and 5.2° C.

#### RAD

Method 903.0: Radium 226 batch 627370

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 (500-239151-1), G31S (500-239151-2), G48S (500-239151-3), G47S (500-239151-4), R08S (500-239151-5), (LCS 160-627370/2-A), (MB 160-627370/1-A) and (500-239151-D-3-A DU)

Methods 903.0, 9315: Radium-226 batch 628180

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 (500-239151-6), R32S (500-239151-7), T12S (500-239151-8), G33S (500-239151-9), G46S (500-239151-10), G38S (500-239151-11), T03S (500-239151-12), G44S (500-239151-13), G45S (500-239151-14), (LCS 160-628180/2-A), (MB 160-628180/1-A), (480-212596-B-2-A), (480-212596-B-2-B MS) and (480-212596-B-2-C MSD)

Methods 903.0, 9315: Radium-226 batch 629146

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 (500-239151-15), T06S (500-239151-16), (LCS 160-629146/2-A), (MB 160-629146/1-A) and (500-239151-D-16-A DU)

Methods 903.0, 9315: Radium-226 629954

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.

T13S (500-239151-17), T13S Dup (500-239151-18), (LCS 160-629954/2-A), (MB 160-629954/1-A), (400-243976-A-4-A) and (400-243976-B-4-A DU)

Method 903.0: Radium-226 batch 630347

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.

T02S (500-239151-19), T08S (500-239151-20), T05S (500-239151-21), T11S (500-239151-22), T01S (500-239151-23), G39S (500-239151-24), (LCS 160-630347/2-A), (MB 160-630347/1-A) and (500-239151-D-24-A DU)

Method 904.0: Radium-228 batch 627374

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 (500-239151-1), G31S (500-239151-2), G48S (500-239151-3), G47S (500-239151-4), R08S (500-239151-5), (LCS 160-627374/2-A), (MB 160-627374/1-A) and (500-239151-D-3-B DU)

Method 904.0: Radium-228 batch 628181

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 (500-239151-9). Analytical results are reported with the detection limit achieved.

# Case Narrative

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Job ID: 500-239151-2 (Continued)

### Laboratory: Eurofins Chicago (Continued)

Methods 904.0, 9320: Radium-228 batch 628181

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 (500-239151-6), R32S (500-239151-7), T12S (500-239151-8), G33S (500-239151-9), G46S (500-239151-10), G38S (500-239151-11), T03S (500-239151-12), G44S (500-239151-13), G45S (500-239151-14), (LCS 160-628181/2-A), (MB 160-628181/1-A), (480-212596-B-2-D), (480-212596-B-2-E MS) and (480-212596-B-2-F MSD)

Methods 904.0, 9320: Radium-228 batch 629147

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 (500-239151-15), T06S (500-239151-16), (LCS 160-629147/2-A), (MB 160-629147/1-A) and (500-239151-D-16-B DU)

Methods 904.0, 9320: Radium-228 batch 629957

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.

T13S (500-239151-17), T13S Dup (500-239151-18), (LCS 160-629957/2-A), (MB 160-629957/1-A), (400-243976-A-4-B) and (400-243976-B-4-B DU)

Method 904.0: Radium-228 batch 630351

The method blank (MB) has activity above the MDC and RL. The following associated samples are either below the reporting limit or clients action limit for the contaminant or exhibit concentrations greater than five (5) times the concentrations observed in the MB), therefore, re-analysis is not required. The data have been reported.

(MB 160-630351/1-A)

Method 904.0: Radium-228 batch 630351

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.

(LCS 160-630351/2-A) and (MB 160-630351/1-A)

Method 904.0: Radium-228 batch 630351

The detection goal was not met for the associated samples (MDC > RL). However the detection goal achieved is below the clients action level. No further action is required. Results will be reported

G39S (500-239151-24) and (500-239151-D-24-B DU)

Method 904.0: Radium-228 batch 630351

The method blank (MB) has activity above the MDC and RL. The MB activity as well as the following associated samples are below the clients action level (5 pCi/L) for the contaminant, therefore, re-analysis is not required. The data have been reported.

(MB 160-630351/1-A)

Method 904.0: Radium-228 batch 630351

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.

T02S (500-239151-19), T08S (500-239151-20), T05S (500-239151-21), T11S (500-239151-22), T01S (500-239151-23), G39S (500-239151-24) and (500-239151-D-24-B DU)

Method PrecSep\_0:

# Case Narrative

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

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## Job ID: 500-239151-2 (Continued)

---

### Laboratory: Eurofins Chicago (Continued)

Method PrecSep\_0:

Method PrecSep\_0:

Method PrecSep-21:

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.

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# Method Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

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 3Q23

Job ID: 500-239151-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-239151-1	G20S	Water	09/06/23 09:48	09/06/23 15:13
500-239151-2	G31S	Water	09/06/23 13:48	09/06/23 15:13
500-239151-3	G48S	Water	09/07/23 09:38	09/07/23 14:29
500-239151-4	G47S	Water	09/07/23 11:03	09/07/23 14:29
500-239151-5	R08S	Water	09/07/23 12:55	09/07/23 14:29
500-239151-6	G30S	Water	09/12/23 10:03	09/12/23 15:37
500-239151-7	R32S	Water	09/12/23 11:37	09/12/23 15:37
500-239151-8	T12S	Water	09/12/23 12:57	09/12/23 15:37
500-239151-9	G33S	Water	09/12/23 13:51	09/12/23 15:37
500-239151-10	G46S	Water	09/13/23 09:44	09/13/23 15:10
500-239151-11	G38S	Water	09/13/23 10:48	09/13/23 15:10
500-239151-12	T03S	Water	09/13/23 11:45	09/13/23 15:10
500-239151-13	G44S	Water	09/13/23 13:52	09/13/23 15:10
500-239151-14	G45S	Water	09/14/23 14:10	09/14/23 15:25
500-239151-15	T09S	Water	09/19/23 11:28	09/19/23 15:38
500-239151-16	T06S	Water	09/19/23 13:28	09/19/23 15:38
500-239151-17	T13S	Water	09/26/23 11:25	09/26/23 14:40
500-239151-18	T13S Dup	Water	09/26/23 11:25	09/26/23 14:40
500-239151-19	T02S	Water	09/27/23 10:47	09/27/23 16:00
500-239151-20	T08S	Water	09/27/23 12:24	09/27/23 16:00
500-239151-21	T05S	Water	09/27/23 14:03	09/27/23 16:00
500-239151-22	T11S	Water	09/28/23 09:38	09/28/23 14:40
500-239151-23	T01S	Water	09/28/23 11:27	09/28/23 14:40
500-239151-24	G39S	Water	09/28/23 13:23	09/28/23 14:40

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: G20S**

**Lab Sample ID: 500-239151-1**

Date Collected: 09/06/23 09:48

Matrix: Water

Date Received: 09/06/23 15:13

**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	0.954		0.203	0.221	1.00	0.156	pCi/L	09/11/23 10:01	10/03/23 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					09/11/23 10:01	10/03/23 07:41	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	1.30		0.532	0.545	1.00	0.669	pCi/L	09/11/23 10:07	09/28/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					09/11/23 10:07	09/28/23 11:58	1
Y Carrier	59.8		30 - 110					09/11/23 10:07	09/28/23 11:58	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	2.26		0.569	0.588	5.00	0.669	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: G31S**

**Lab Sample ID: 500-239151-2**

Date Collected: 09/06/23 13:48

Matrix: Water

Date Received: 09/06/23 15:13

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>1.66</b>		0.260	0.300	1.00	0.119	pCi/L	09/11/23 10:01	10/03/23 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					09/11/23 10:01	10/03/23 07:41	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>1.36</b>		0.500	0.516	1.00	0.615	pCi/L	09/11/23 10:07	09/28/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					09/11/23 10:07	09/28/23 11:58	1
Y Carrier	77.0		30 - 110					09/11/23 10:07	09/28/23 11:58	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
<b>Combined Radium 226 + 228</b>	<b>3.02</b>		0.564	0.597	5.00	0.615	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: G48S**

**Lab Sample ID: 500-239151-3**

Date Collected: 09/07/23 09:38

Matrix: Water

Date Received: 09/07/23 14:29

**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	0.667		0.167	0.177	1.00	0.123	pCi/L	09/11/23 10:01	10/03/23 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					09/11/23 10:01	10/03/23 07:41	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	0.172	U	0.413	0.413	1.00	0.726	pCi/L	09/11/23 10:07	09/28/23 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					09/11/23 10:07	09/28/23 12:03	1
Y Carrier	62.8		30 - 110					09/11/23 10:07	09/28/23 12:03	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	0.839		0.445	0.449	5.00	0.726	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: G47S**

**Lab Sample ID: 500-239151-4**

Date Collected: 09/07/23 11:03

Matrix: Water

Date Received: 09/07/23 14:29

**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	0.515		0.165	0.171	1.00	0.174	pCi/L	09/11/23 10:01	10/03/23 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		30 - 110					09/11/23 10:01	10/03/23 07:41	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	0.558	U	0.428	0.432	1.00	0.664	pCi/L	09/11/23 10:07	09/28/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		30 - 110					09/11/23 10:07	09/28/23 12:04	1
Y Carrier	76.6		30 - 110					09/11/23 10:07	09/28/23 12:04	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	1.07		0.459	0.465	5.00	0.664	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: R08S**

**Lab Sample ID: 500-239151-5**

Date Collected: 09/07/23 12:55

Matrix: Water

Date Received: 09/07/23 14:29

**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	0.511		0.166	0.172	1.00	0.176	pCi/L	09/11/23 10:01	10/03/23 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					09/11/23 10:01	10/03/23 07:41	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	0.357	0.360	1.00	0.558	pCi/L	09/11/23 10:07	09/28/23 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					09/11/23 10:07	09/28/23 12:04	1
Y Carrier	84.9		30 - 110					09/11/23 10:07	09/28/23 12:04	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	0.950		0.394	0.399	5.00	0.558	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: G30S**

**Lab Sample ID: 500-239151-6**

Date Collected: 09/12/23 10:03

Matrix: Water

Date Received: 09/12/23 15:37

**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	1.18		0.196	0.223	1.00	0.112	pCi/L	09/15/23 09:54	10/10/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					09/15/23 09:54	10/10/23 11:38	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	0.418	U	0.298	0.301	1.00	0.446	pCi/L	09/15/23 09:57	10/04/23 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					09/15/23 09:57	10/04/23 12:06	1
Y Carrier	83.0		30 - 110					09/15/23 09:57	10/04/23 12:06	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		0.357	0.375	5.00	0.446	pCi/L		10/11/23 18:10	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: R32S**

**Lab Sample ID: 500-239151-7**

Date Collected: 09/12/23 11:37

Matrix: Water

Date Received: 09/12/23 15:37

**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	1.11		0.202	0.225	1.00	0.129	pCi/L	09/15/23 09:54	10/10/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					09/15/23 09:54	10/10/23 11:38	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	0.861		0.400	0.408	1.00	0.542	pCi/L	09/15/23 09:57	10/04/23 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					09/15/23 09:57	10/04/23 12:06	1
Y Carrier	84.5		30 - 110					09/15/23 09:57	10/04/23 12:06	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	1.97		0.448	0.466	5.00	0.542	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: T12S**

**Lab Sample ID: 500-239151-8**

Date Collected: 09/12/23 12:57

Matrix: Water

Date Received: 09/12/23 15:37

**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	0.968		0.227	0.243	1.00	0.183	pCi/L	09/15/23 09:54	10/10/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					09/15/23 09:54	10/10/23 11:38	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	0.408	U	0.437	0.439	1.00	0.710	pCi/L	09/15/23 09:57	10/04/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					09/15/23 09:57	10/04/23 12:07	1
Y Carrier	81.5		30 - 110					09/15/23 09:57	10/04/23 12:07	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		0.492	0.502	5.00	0.710	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: G33S**

**Lab Sample ID: 500-239151-9**

Date Collected: 09/12/23 13:51

Matrix: Water

Date Received: 09/12/23 15:37

**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	0.569		0.251	0.256	1.00	0.293	pCi/L	09/15/23 09:54	10/10/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		30 - 110					09/15/23 09:54	10/10/23 11:38	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	0.438	U G	0.681	0.682	1.00	1.16	pCi/L	09/15/23 09:57	10/04/23 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		30 - 110					09/15/23 09:57	10/04/23 12:07	1
Y Carrier	77.4		30 - 110					09/15/23 09:57	10/04/23 12:07	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	1.01	U	0.726	0.728	5.00	1.16	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: G46S**

**Lab Sample ID: 500-239151-10**

Date Collected: 09/13/23 09:44

Matrix: Water

Date Received: 09/13/23 15:10

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>1.48</b>		0.308	0.336	1.00	0.218	pCi/L	09/15/23 09:54	10/10/23 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.7		30 - 110					09/15/23 09:54	10/10/23 11:37	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>2.37</b>		0.778	0.808	1.00	0.920	pCi/L	09/15/23 09:57	10/04/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.7		30 - 110					09/15/23 09:57	10/04/23 12:05	1
Y Carrier	77.8		30 - 110					09/15/23 09:57	10/04/23 12:05	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
<b>Combined Radium 226 + 228</b>	<b>3.85</b>		0.837	0.875	5.00	0.920	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: G38S**

**Lab Sample ID: 500-239151-11**

Date Collected: 09/13/23 10:48

Matrix: Water

Date Received: 09/13/23 15:10

**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	0.297		0.112	0.115	1.00	0.111	pCi/L	09/15/23 09:54	10/10/23 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					09/15/23 09:54	10/10/23 11:37	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	0.162	U	0.314	0.314	1.00	0.545	pCi/L	09/15/23 09:57	10/04/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					09/15/23 09:57	10/04/23 12:05	1
Y Carrier	75.9		30 - 110					09/15/23 09:57	10/04/23 12:05	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	0.459	U	0.333	0.334	5.00	0.545	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: T03S**

**Lab Sample ID: 500-239151-12**

Date Collected: 09/13/23 11:45

Matrix: Water

Date Received: 09/13/23 15:10

**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	0.692		0.164	0.176	1.00	0.134	pCi/L	09/15/23 09:54	10/10/23 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					09/15/23 09:54	10/10/23 11:37	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	0.382	U	0.334	0.336	1.00	0.526	pCi/L	09/15/23 09:57	10/04/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					09/15/23 09:57	10/04/23 12:05	1
Y Carrier	81.9		30 - 110					09/15/23 09:57	10/04/23 12:05	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	1.07		0.372	0.379	5.00	0.526	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: G44S**

**Lab Sample ID: 500-239151-13**

Date Collected: 09/13/23 13:52

Matrix: Water

Date Received: 09/13/23 15:10

**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	0.668		0.170	0.181	1.00	0.157	pCi/L	09/15/23 09:54	10/10/23 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					09/15/23 09:54	10/10/23 11:37	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	0.872		0.382	0.390	1.00	0.493	pCi/L	09/15/23 09:57	10/04/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					09/15/23 09:57	10/04/23 12:05	1
Y Carrier	81.1		30 - 110					09/15/23 09:57	10/04/23 12:05	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		0.418	0.430	5.00	0.493	pCi/L		10/11/23 18:10	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: G45S**

**Lab Sample ID: 500-239151-14**

Date Collected: 09/14/23 14:10

Matrix: Water

Date Received: 09/14/23 15:25

**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	1.37		0.233	0.264	1.00	0.161	pCi/L	09/15/23 09:54	10/10/23 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		30 - 110					09/15/23 09:54	10/10/23 11:37	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	0.585		0.352	0.356	1.00	0.517	pCi/L	09/15/23 09:57	10/04/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		30 - 110					09/15/23 09:57	10/04/23 12:05	1
Y Carrier	87.5		30 - 110					09/15/23 09:57	10/04/23 12:05	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	1.95		0.422	0.443	5.00	0.517	pCi/L		10/11/23 18:10	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: T09S**

**Lab Sample ID: 500-239151-15**

Date Collected: 09/19/23 11:28

Matrix: Water

Date Received: 09/19/23 15:38

**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	1.57		0.325	0.355	1.00	0.260	pCi/L	09/21/23 10:16	10/13/23 19:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					09/21/23 10:16	10/13/23 19:49	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	1.84		0.713	0.732	1.00	0.957	pCi/L	09/21/23 10:23	10/09/23 11:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					09/21/23 10:23	10/09/23 11:36	1
Y Carrier	79.3		30 - 110					09/21/23 10:23	10/09/23 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	3.41		0.784	0.814	5.00	0.957	pCi/L		10/16/23 12:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: T06S**

**Lab Sample ID: 500-239151-16**

Date Collected: 09/19/23 13:28

Matrix: Water

Date Received: 09/19/23 15:38

**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	1.22		0.228	0.253	1.00	0.141	pCi/L	09/21/23 10:16	10/13/23 21:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					09/21/23 10:16	10/13/23 21:35	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	0.293	U	0.354	0.355	1.00	0.585	pCi/L	09/21/23 10:23	10/09/23 11:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					09/21/23 10:23	10/09/23 11:35	1
Y Carrier	81.9		30 - 110					09/21/23 10:23	10/09/23 11:35	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	1.51		0.421	0.436	5.00	0.585	pCi/L		10/16/23 12:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: T13S**

**Lab Sample ID: 500-239151-17**

Date Collected: 09/26/23 11:25

Matrix: Water

Date Received: 09/26/23 14:40

**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	0.517		0.173	0.180	1.00	0.171	pCi/L	09/28/23 10:53	10/20/23 16:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					09/28/23 10:53	10/20/23 16:49	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	1.02		0.421	0.431	1.00	0.524	pCi/L	09/28/23 11:02	10/17/23 11:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					09/28/23 11:02	10/17/23 11:45	1
Y Carrier	77.8		30 - 110					09/28/23 11:02	10/17/23 11:45	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		0.455	0.467	5.00	0.524	pCi/L		10/24/23 12:19	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: T13S Dup**

**Lab Sample ID: 500-239151-18**

Date Collected: 09/26/23 11:25

Matrix: Water

Date Received: 09/26/23 14:40

**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	0.767		0.213	0.224	1.00	0.190	pCi/L	09/28/23 10:53	10/20/23 16:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		30 - 110					09/28/23 10:53	10/20/23 16:49	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	1.72		0.553	0.575	1.00	0.649	pCi/L	09/28/23 11:02	10/17/23 11:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		30 - 110					09/28/23 11:02	10/17/23 11:45	1
Y Carrier	75.5		30 - 110					09/28/23 11:02	10/17/23 11:45	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	2.49		0.593	0.617	5.00	0.649	pCi/L		10/24/23 12:19	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: T02S**

**Lab Sample ID: 500-239151-19**

Date Collected: 09/27/23 10:47

Matrix: Water

Date Received: 09/27/23 16:00

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.664</b>		0.230	0.238	1.00	0.232	pCi/L	10/02/23 11:14	10/24/23 16:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					10/02/23 11:14	10/24/23 16:40	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>4.19</b>		0.903	0.982	1.00	0.500	pCi/L	10/02/23 11:17	10/20/23 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier								10/02/23 11:17	10/20/23 11:48	1
Y Carrier								10/02/23 11:17	10/20/23 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
<b>Combined Radium 226 + 228</b>	<b>4.86</b>		0.932	1.01	5.00	0.892	pCi/L		10/27/23 16:19	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: T08S**

**Lab Sample ID: 500-239151-20**

Date Collected: 09/27/23 12:24

Matrix: Water

Date Received: 09/27/23 16:00

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.461</b>		0.177	0.182	1.00	0.177	pCi/L	10/02/23 11:14	10/24/23 16:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					10/02/23 11:14	10/24/23 16:41	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>2.69</b>		0.668	0.713	1.00	0.500	pCi/L	10/02/23 11:17	10/20/23 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier								10/02/23 11:17	10/20/23 11:48	1
Y Carrier								10/02/23 11:17	10/20/23 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
<b>Combined Radium 226 + 228</b>	<b>3.15</b>		0.691	0.736	5.00	0.648	pCi/L		10/27/23 16:19	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: T05S**

**Lab Sample ID: 500-239151-21**

Date Collected: 09/27/23 14:03

Matrix: Water

Date Received: 09/27/23 16:00

**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	0.507		0.213	0.218	1.00	0.246	pCi/L	10/02/23 11:14	10/24/23 16:41	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	78.2		30 - 110					10/02/23 11:14	10/24/23 16:41	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	1.25		0.611	0.622	1.00	0.500	pCi/L	10/02/23 11:17	10/20/23 11:47	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier								10/02/23 11:17	10/20/23 11:47	1
Y Carrier								10/02/23 11:17	10/20/23 11:47	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	1.75		0.647	0.659	5.00	0.823	pCi/L		10/27/23 16:19	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: T11S**

**Lab Sample ID: 500-239151-22**

Date Collected: 09/28/23 09:38

Matrix: Water

Date Received: 09/28/23 14:40

**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	0.503		0.176	0.182	1.00	0.195	pCi/L	10/02/23 11:14	10/24/23 16:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		30 - 110					10/02/23 11:14	10/24/23 16:41	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	1.97		0.555	0.584	1.00	0.500	pCi/L	10/02/23 11:17	10/20/23 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier								10/02/23 11:17	10/20/23 11:47	1
Y Carrier								10/02/23 11:17	10/20/23 11:47	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	2.47		0.582	0.612	5.00	0.621	pCi/L		10/27/23 16:19	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: T01S**

**Lab Sample ID: 500-239151-23**

Date Collected: 09/28/23 11:27

Matrix: Water

Date Received: 09/28/23 14:40

**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	0.737		0.357	0.363	1.00	0.458	pCi/L	10/02/23 11:14	10/24/23 16:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	46.2		30 - 110					10/02/23 11:14	10/24/23 16:41	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	2.81		1.18	1.21	1.00	0.500	pCi/L	10/02/23 11:17	10/20/23 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier								10/02/23 11:17	10/20/23 11:47	1
Y Carrier								10/02/23 11:17	10/20/23 11:47	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	3.55		1.23	1.26	5.00	1.53	pCi/L		10/27/23 16:19	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: G39S**

**Lab Sample ID: 500-239151-24**

Date Collected: 09/28/23 13:23

Matrix: Water

Date Received: 09/28/23 14:40

**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	0.479		0.158	0.164	1.00	0.161	pCi/L	10/02/23 11:14	10/24/23 16:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					10/02/23 11:14	10/24/23 16:40	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	0.899	U G	0.771	0.775	1.00	1.21	pCi/L	10/02/23 11:17	10/20/23 17:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		30 - 110					10/02/23 11:17	10/20/23 17:55	1
Y Carrier	82.2		30 - 110					10/02/23 11:17	10/20/23 17:55	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		0.787	0.792	5.00	1.21	pCi/L		10/27/23 16:19	1

# Definitions/Glossary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## 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 3Q23

Job ID: 500-239151-2

## Rad

### Prep Batch: 627370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total/NA	Water	PrecSep-21	
500-239151-2	G31S	Total/NA	Water	PrecSep-21	
500-239151-3	G48S	Total/NA	Water	PrecSep-21	
500-239151-4	G47S	Total/NA	Water	PrecSep-21	
500-239151-5	R08S	Total/NA	Water	PrecSep-21	
MB 160-627370/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-627370/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-239151-3 DU	G48S	Total/NA	Water	PrecSep-21	

### Prep Batch: 627374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-1	G20S	Total/NA	Water	PrecSep_0	
500-239151-2	G31S	Total/NA	Water	PrecSep_0	
500-239151-3	G48S	Total/NA	Water	PrecSep_0	
500-239151-4	G47S	Total/NA	Water	PrecSep_0	
500-239151-5	R08S	Total/NA	Water	PrecSep_0	
MB 160-627374/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-627374/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-239151-3 DU	G48S	Total/NA	Water	PrecSep_0	

### Prep Batch: 628180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-6	G30S	Total/NA	Water	PrecSep-21	
500-239151-7	R32S	Total/NA	Water	PrecSep-21	
500-239151-8	T12S	Total/NA	Water	PrecSep-21	
500-239151-9	G33S	Total/NA	Water	PrecSep-21	
500-239151-10	G46S	Total/NA	Water	PrecSep-21	
500-239151-11	G38S	Total/NA	Water	PrecSep-21	
500-239151-12	T03S	Total/NA	Water	PrecSep-21	
500-239151-13	G44S	Total/NA	Water	PrecSep-21	
500-239151-14	G45S	Total/NA	Water	PrecSep-21	
MB 160-628180/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-628180/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 628181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-6	G30S	Total/NA	Water	PrecSep_0	
500-239151-7	R32S	Total/NA	Water	PrecSep_0	
500-239151-8	T12S	Total/NA	Water	PrecSep_0	
500-239151-9	G33S	Total/NA	Water	PrecSep_0	
500-239151-10	G46S	Total/NA	Water	PrecSep_0	
500-239151-11	G38S	Total/NA	Water	PrecSep_0	
500-239151-12	T03S	Total/NA	Water	PrecSep_0	
500-239151-13	G44S	Total/NA	Water	PrecSep_0	
500-239151-14	G45S	Total/NA	Water	PrecSep_0	
MB 160-628181/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-628181/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

### Prep Batch: 629146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-15	T09S	Total/NA	Water	PrecSep-21	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Rad (Continued)

### Prep Batch: 629146 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-16	T06S	Total/NA	Water	PrecSep-21	
MB 160-629146/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629146/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-239151-16 DU	T06S	Total/NA	Water	PrecSep-21	

### Prep Batch: 629147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-15	T09S	Total/NA	Water	PrecSep_0	
500-239151-16	T06S	Total/NA	Water	PrecSep_0	
MB 160-629147/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629147/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-239151-16 DU	T06S	Total/NA	Water	PrecSep_0	

### Prep Batch: 629954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-17	T13S	Total/NA	Water	PrecSep-21	
500-239151-18	T13S Dup	Total/NA	Water	PrecSep-21	
MB 160-629954/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629954/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 629957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-17	T13S	Total/NA	Water	PrecSep_0	
500-239151-18	T13S Dup	Total/NA	Water	PrecSep_0	
MB 160-629957/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629957/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

### Prep Batch: 630347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-19	T02S	Total/NA	Water	PrecSep-21	
500-239151-20	T08S	Total/NA	Water	PrecSep-21	
500-239151-21	T05S	Total/NA	Water	PrecSep-21	
500-239151-22	T11S	Total/NA	Water	PrecSep-21	
500-239151-23	T01S	Total/NA	Water	PrecSep-21	
500-239151-24	G39S	Total/NA	Water	PrecSep-21	
MB 160-630347/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-630347/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-239151-24 DU	G39S	Total/NA	Water	PrecSep-21	

### Prep Batch: 630351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239151-19	T02S	Total/NA	Water	PrecSep_0	
500-239151-20	T08S	Total/NA	Water	PrecSep_0	
500-239151-21	T05S	Total/NA	Water	PrecSep_0	
500-239151-22	T11S	Total/NA	Water	PrecSep_0	
500-239151-23	T01S	Total/NA	Water	PrecSep_0	
500-239151-24	G39S	Total/NA	Water	PrecSep_0	
MB 160-630351/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-630351/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-239151-24 DU	G39S	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Method: 903.0 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-627370/1-A**  
**Matrix: Water**  
**Analysis Batch: 630408**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 627370**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.03807	U	0.0381	0.0382	1.00	0.112	pCi/L	09/11/23 10:01	10/03/23 07:30	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					09/11/23 10:01	10/03/23 07:30	1
	98.3									

**Lab Sample ID: LCS 160-627370/2-A**  
**Matrix: Water**  
**Analysis Batch: 630408**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 627370**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	
				Uncert. (2σ+/-)						
Radium-226	11.3	9.553		1.04	1.00	0.142	pCi/L	84	75 - 125	
Carrier	LCS	LCS								
Ba Carrier	%Yield	Qualifier	Limits							
	89.1		30 - 110							

**Lab Sample ID: 500-239151-3 DU**  
**Matrix: Water**  
**Analysis Batch: 630503**

**Client Sample ID: G48S**  
**Prep Type: Total/NA**  
**Prep Batch: 627370**

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.667		0.6077		0.173	1.00	0.147	pCi/L	0.17	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	30 - 110							
	96.3									

**Lab Sample ID: MB 160-628180/1-A**  
**Matrix: Water**  
**Analysis Batch: 631274**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 628180**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01255	U	0.0573	0.0573	1.00	0.123	pCi/L	09/15/23 09:54	10/10/23 11:32	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					09/15/23 09:54	10/10/23 11:32	1
	99.0									

**Lab Sample ID: LCS 160-628180/2-A**  
**Matrix: Water**  
**Analysis Batch: 631441**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 628180**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.427		1.01	1.00	0.103	pCi/L	83	75 - 125

Eurofins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Method: 903.0 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: LCS 160-628180/2-A**  
**Matrix: Water**  
**Analysis Batch: 631441**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 628180**

LCS		LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.8		30 - 110

**Lab Sample ID: MB 160-629146/1-A**  
**Matrix: Water**  
**Analysis Batch: 631808**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 629146**

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-226	-0.003778	U	0.0445	0.0445	1.00	0.104	pCi/L	09/21/23 10:16	10/13/23 19:41	1
Carrier		MB	MB	Limits		Prepared		Analyzed		Dil Fac
Ba Carrier		96.6		30 - 110		09/21/23 10:16		10/13/23 19:41		1

**Lab Sample ID: LCS 160-629146/2-A**  
**Matrix: Water**  
**Analysis Batch: 631808**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 629146**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									%Rec	Limits
Radium-226	11.3	11.31		1.21	1.00	0.108	pCi/L	100	75 - 125	
Carrier		LCS	LCS	Limits		Prepared		Analyzed		Dil Fac
Ba Carrier		91.9		30 - 110						

**Lab Sample ID: 500-239151-16 DU**  
**Matrix: Water**  
**Analysis Batch: 631972**

**Client Sample ID: T06S**  
**Prep Type: Total/NA**  
**Prep Batch: 629146**

Analyte	Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual								
Radium-226	1.22		1.246		0.265	1.00	0.153	pCi/L	0.05	1
Carrier		DU	DU	Limits		Prepared		Analyzed		Dil Fac
Ba Carrier		84.4		30 - 110						

**Lab Sample ID: MB 160-629954/1-A**  
**Matrix: Water**  
**Analysis Batch: 632841**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 629954**

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-226	0.05286	U	0.112	0.112	1.00	0.200	pCi/L	09/28/23 10:53	10/20/23 16:48	1
Carrier		MB	MB	Limits		Prepared		Analyzed		Dil Fac
Ba Carrier		77.0		30 - 110		09/28/23 10:53		10/20/23 16:48		1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Method: 903.0 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: LCS 160-629954/2-A**  
**Matrix: Water**  
**Analysis Batch: 632841**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 629954**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-226	11.3	11.98		1.30	1.00	0.159	pCi/L	106	75	125
<b>Carrier</b>		<b>LCS %Yield</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
Ba Carrier		90.2		30 - 110						

**Lab Sample ID: MB 160-630347/1-A**  
**Matrix: Water**  
**Analysis Batch: 633137**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 630347**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Carrier</b>		<b>MB %Yield</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
Ba Carrier		91.7		30 - 110			10/02/23 11:14	10/24/23 16:33	1	

**Lab Sample ID: LCS 160-630347/2-A**  
**Matrix: Water**  
**Analysis Batch: 633137**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 630347**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-226	11.3	10.51		1.15	1.00	0.121	pCi/L	93	75	125
<b>Carrier</b>		<b>LCS %Yield</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
Ba Carrier		87.0		30 - 110						

**Lab Sample ID: 500-239151-24 DU**  
**Matrix: Water**  
**Analysis Batch: 633301**

**Client Sample ID: G39S**  
**Prep Type: Total/NA**  
**Prep Batch: 630347**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										0.18
Radium-226	0.479		0.5404		0.174	1.00	0.167	pCi/L	0.18	1
<b>Carrier</b>		<b>DU %Yield</b>	<b>DU Qualifier</b>	<b>Limits</b>						
Ba Carrier		89.0		30 - 110						

## Method: 904.0 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-627374/1-A**  
**Matrix: Water**  
**Analysis Batch: 629974**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 627374**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Method: 904.0 - Radium-228 (GFPC) (Continued)

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		30 - 110	09/11/23 10:07	09/28/23 11:53	1
Y Carrier	77.8		30 - 110	09/11/23 10:07	09/28/23 11:53	1

Lab Sample ID: LCS 160-627374/2-A  
 Matrix: Water  
 Analysis Batch: 629974

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 627374

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.84	8.557		1.22	1.00	0.531	pCi/L	109	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	89.1		30 - 110
Y Carrier	84.5		30 - 110

Lab Sample ID: 500-239151-3 DU  
 Matrix: Water  
 Analysis Batch: 629983

Client Sample ID: G48S  
 Prep Type: Total/NA  
 Prep Batch: 627374

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.172	U	0.3533	U	0.349	1.00	0.560	pCi/L	0.24	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	96.3		30 - 110
Y Carrier	87.5		30 - 110

Lab Sample ID: MB 160-628181/1-A  
 Matrix: Water  
 Analysis Batch: 630703

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 628181

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4041	U	0.336	0.338	1.00	0.524	pCi/L	09/15/23 09:57	10/04/23 12:04	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110	09/15/23 09:57	10/04/23 12:04	1
Y Carrier	79.3		30 - 110	09/15/23 09:57	10/04/23 12:04	1

Lab Sample ID: LCS 160-628181/2-A  
 Matrix: Water  
 Analysis Batch: 630703

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 628181

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.83	8.721		1.23	1.00	0.476	pCi/L	111	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.8		30 - 110
Y Carrier	81.1		30 - 110

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Method: 904.0 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: MB 160-629147/1-A**  
**Matrix: Water**  
**Analysis Batch: 631051**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 629147**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.5517	U	0.400	0.404	1.00	0.609	pCi/L	09/21/23 10:23	10/09/23 11:26	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier								
Ba Carrier	96.6		30 - 110		09/21/23 10:23	10/09/23 11:26	1			
Y Carrier	70.3		30 - 110		09/21/23 10:23	10/09/23 11:26	1			

**Lab Sample ID: LCS 160-629147/2-A**  
**Matrix: Water**  
**Analysis Batch: 631051**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 629147**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	7.81	9.232		1.53	1.00	0.874	pCi/L	118	75 - 125
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier							
Ba Carrier	91.9		30 - 110						
Y Carrier	82.2		30 - 110						

**Lab Sample ID: 500-239151-16 DU**  
**Matrix: Water**  
**Analysis Batch: 631060**

**Client Sample ID: T06S**  
**Prep Type: Total/NA**  
**Prep Batch: 629147**

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-228	0.293	U	0.7818		0.416	1.00	0.572	pCi/L	0.63	1
Carrier	DU DU		Limits		Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier								
Ba Carrier	84.4		30 - 110							
Y Carrier	83.7		30 - 110							

**Lab Sample ID: MB 160-629957/1-A**  
**Matrix: Water**  
**Analysis Batch: 632161**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 629957**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2359	U	0.521	0.522	1.00	0.928	pCi/L	09/28/23 11:02	10/17/23 16:53	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier								
Ba Carrier	77.0		30 - 110		09/28/23 11:02	10/17/23 16:53	1			
Y Carrier	78.1		30 - 110		09/28/23 11:02	10/17/23 16:53	1			

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Method: 904.0 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-629957/2-A**  
**Matrix: Water**  
**Analysis Batch: 632161**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 629957**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits													
									75	125												
Radium-228	7.79	7.079		1.35	1.00	0.936	pCi/L	91	75	125												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Carrier</th> <th>LCS %Yield</th> <th>LCS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>90.2</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>82.2</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table>											Carrier	LCS %Yield	LCS Qualifier	Limits	Ba Carrier	90.2		30 - 110	Y Carrier	82.2		30 - 110
Carrier	LCS %Yield	LCS Qualifier	Limits																			
Ba Carrier	90.2		30 - 110																			
Y Carrier	82.2		30 - 110																			

**Lab Sample ID: MB 160-630351/1-A**  
**Matrix: Water**  
**Analysis Batch: 632839**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 630351**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								10/02/23 11:17	10/20/23 11:49			
Radium-228	1.544		0.469	0.490	1.00	0.538	pCi/L	10/02/23 11:17	10/20/23 11:49		1	

**Lab Sample ID: LCS 160-630351/2-A**  
**Matrix: Water**  
**Analysis Batch: 632840**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 630351**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits													
									75	125												
Radium-228	7.78	7.646		1.53	1.00	1.08	pCi/L	98	75	125												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Carrier</th> <th>LCS %Yield</th> <th>LCS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>87.0</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>78.9</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table>											Carrier	LCS %Yield	LCS Qualifier	Limits	Ba Carrier	87.0		30 - 110	Y Carrier	78.9		30 - 110
Carrier	LCS %Yield	LCS Qualifier	Limits																			
Ba Carrier	87.0		30 - 110																			
Y Carrier	78.9		30 - 110																			

**Lab Sample ID: 500-239151-24 DU**  
**Matrix: Water**  
**Analysis Batch: 632840**

**Client Sample ID: G39S**  
**Prep Type: Total/NA**  
**Prep Batch: 630351**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit												
										0.20	1											
Radium-228	0.899	U G	0.6146	U G	0.681	1.00	1.11	pCi/L	0.20	1												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Carrier</th> <th>DU %Yield</th> <th>DU Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>89.0</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>81.5</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table>											Carrier	DU %Yield	DU Qualifier	Limits	Ba Carrier	89.0		30 - 110	Y Carrier	81.5		30 - 110
Carrier	DU %Yield	DU Qualifier	Limits																			
Ba Carrier	89.0		30 - 110																			
Y Carrier	81.5		30 - 110																			



# Chain of Custody Record 641397




Environment Testing  
America

TAL-8210

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b>		<b>Project Manager:</b> <i>Diana Mockler</i>		<b>Site Contact:</b>		<b>Date</b>		<b>COC No</b>			
Company Name: <i>Midwest Generation ENE LLC</i>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs			
Address:		<b>Analysis Turnaround Time</b> <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>Rad'um 226</i> <i>Rad'um 228</i> <i>Combined 226/228</i> <i>IDS, Fl, Cl, SO4</i> <i>Metals 14 elements + Hg</i>		 500-239151 COC		Sampler: <b>For Lab Use Only</b> Walk-in Client Lab Sampling		Job / SDG No <i>500-239151</i>	
City/State/Zip: <i>Joliet, IL</i>											
Phone:											
Fax:											
Project Name: <i>Joliet #9 CCR</i>											
Site: <i>3Q23 - GW + Turbidity</i>		Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
P O #		3 4 5		<i>G480</i>	<i>09/07/23 0938</i>		<i>W</i>	<i>5</i>			
				<i>G475</i>	<i>09/07/23 1103</i>		<i>W</i>	<i>5</i>			
				<i>R085</i>	<i>09/07/23 1255</i>		<i>W</i>	<i>5</i>			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other											
<b>Possible Hazard Identification.</b> 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					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months						
<b>Special Instructions/QC Requirements &amp; Comments:</b>											
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>4.2</i> Corr'd <i>3.8</i>		Therm ID No					
Relinquished by: <i>[Signature]</i>		Company: <i>EETA</i>		Date/Time: <i>09/07/23 01429</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>9/7/23 1429</i>			

# Chain of Custody Record

668101



Environment Testing  
America

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager <i>Diana Mackler</i>		Site Contact		Date		COC No	
Company Name <i>Midwest Generation EPC LLC</i>		Tel/Email		Lab Contact		Carrier:		_____ of _____ COCs	
Address		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		 500-239151 COC	
City/State/Zip <i>Joliet, IL</i>									
Phone		TAT if different from Below _____		<i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>TDS, Al, Li, SO4</i> <i>metals 14 elements + Hg</i>				Sampler For Lab Use Only Walk-in Client Lab Sampling Job / SDG No <i>500-239151</i>	
Fax		<input type="checkbox"/> 2 weeks							
Project Name <i>Joliet #9 CCR</i>		<input type="checkbox"/> 1 week							
Site <i>3023 - Gu + Turbidity</i>		<input type="checkbox"/> 2 days							
PO #		<input type="checkbox"/> 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>G30S</i>		<i>09/12/23</i>	<i>1003</i>		<i>W</i>	<i>5</i>			
<i>R32S</i>		<i>09/12/23</i>	<i>1137</i>		<i>W</i>	<i>5</i>			
<i>T12S</i>		<i>09/12/23</i>	<i>1257</i>		<i>W</i>	<i>5</i>			
<i>G33S</i>		<i>09/12/23</i>	<i>1351</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>4.1</i> Corr'd <i>3.7</i>		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/12/23 1537</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>9/12/23 1537</i>	

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# Chain of Custody Record

668102




Environment Testing America

Address \_\_\_\_\_  
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 \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager: <i>Diana Mueker</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 <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) Radium 226 Radium 228 Combined 226/228 TDS, FI, Cl, SO4 Metals 14 elements + Hg		 500-239151 COC		Sampler For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-239151</i>	
City/State/Zip: <i>Soliet, IL</i>									
Phone									
Fax									
Project Name: <i>Soliet #9 CCR</i>									
Site: <i>3022 - GW + Turbidity</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	
<i>6465</i>	<i>09/13/23</i>	<i>0944</i>		<i>W</i>	<i>5</i>				
<i>6385</i>	<i>09/13/23</i>	<i>1048</i>		<i>W</i>	<i>5</i>				
<i>TO3S</i>	<i>09/13/23</i>	<i>1145</i>		<i>W</i>	<i>5</i>				
<i>6445</i>	<i>09/13/23</i>	<i>1352</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 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>5.6</i> Corr'd <i>5.2</i>		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/13/23 1510</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>9/13/23 1510</i>	

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# Chain of Custody Record

668107



Environment Testing  
America

Address \_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

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, F, Cl, SO4</i>		 500-239151 COC		Sampler For Lab Use Only Walk-in Client Lab Sampling Job / SDG No <i>239151</i> <i>500-200051</i> <i>SS 9/28/23</i>	
City/State/Zip <i>Solict, 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>Solict #9 CCR</i>									
Site <i>3023 - GW + Turbidity</i>									
PO #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>T11S</i>		<i>09/28/23</i>	<i>0938</i>	<i>W</i>	<i>5</i>	<i>5</i>			
<i>T01S</i>		<i>09/28/23</i>	<i>1127</i>	<i>W</i>	<i>5</i>	<i>5</i>			
<i>G39S</i>		<i>09/28/23</i>	<i>1323</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: 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>5.4</i> Cor'd <i>5.2</i>		Therm ID No _____			
Relinquished by: <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>09/28/23 1440</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>	

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**Eurofins Chicago**  
 2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:							
Shipping/Receiving		Phone:	Mockler, Diana J		500-178823.1							
Company:		E-Mail:	Diana.Mockler@et.eurofins.com	State of Origin:	Page: 1 of 1							
TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #:	500-239151-1							
Address:		Due Date Requested:	Preservation Codes:									
13715 Rider Trail North,		9/26/2023	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)									
City:		TAT Requested (days):	Analysis Requested									
Earth City			Total Number of Containers									
State, Zip:		PO #:	Form MS/MSD (Yes or No)									
MO, 63045		WO #:	Field Filtered Sample (Yes or No)									
Phone:		Project #:	903.0/PreSep_21 Standard Target List									
314-298-8566(Tel) 314-298-8757(Fax)		SSOW#:	904.0/PreSep_0 Standard Target List									
Email:			RazzerAz28_GPC									
Project Name:			Special Instructions/Note:									
Joliet #9 (Quary) CCR			Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;									
Site:			Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;									
NRG Midwest Generation LSQ Joliet #9 CCR			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)	Matrix (Water, Sewage, Oil, BTX, Tissue, Acid)	Preservation Code:	Form MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	RazzerAz28_GPC	Total Number of Containers	Special Instructions/Note:
G48S (500-239151-3)	9/7/23	09:38 Central	Water	Water		X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G47S (500-239151-4)	9/7/23	11:03 Central	Water	Water		X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
R08S (500-239151-5)	9/7/23	12:55 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 &amp; 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/ests/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><b>Possible Hazard Identification</b>          Unconfirmed          Deliverable Requested: I, II, III, IV, Other (specify) _____          Primary Deliverable Rank: 2          Date: _____</p>												
<p><b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>  <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months          Special Instructions/QC Requirements: _____</p>												
<p>Empty Kit Relinquished by: _____ Date: _____          Relinquished by: <i>Alvin Smith</i> Date: 9/11/23          Relinquished by: <i>Fedex</i> Date: 9/11/23          Relinquished by: _____ Date: _____          Custody Seals Intact: <input type="checkbox"/> Custody Seal No.: _____</p>												
<p>Received by: <i>AM. Pinette</i> Date/Time: SEP 8 2023 08:30          Received by: _____ Date/Time: _____          Received by: _____ Date/Time: _____          Cooler Temperature(s) °C and Other Remarks: _____</p>												





# Chain of Custody Record



Environment Testing



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J	Sampler:	Camera Tracking No(s): 500-179039-1	COC No: 500-179039-1
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	Phone:	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-239151-2	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) Other:
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Due Date Requested: 9/27/2023 TAT Requested (days):		Analysis Requested	
Project #: 50011504 SSOW#:		PO #: WO #:		Total Number of containers	
Project Name: Joliet #9 (Quarry) CCR 3Q23 Site: NRG Midwest Generation LSQ Joliet #9 CCR		Sample Date		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Time		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Sample Type (C=comp, G=grab)		Sample Date		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Matrix (Weaver, Sealed, Composite, BT-12, etc)		Sample Time		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Preservation Code:		Sample Date		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
G30S (500-239151-6)		9/12/23		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
R32S (500-239151-7)		9/12/23		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
T12S (500-239151-8)		9/12/23		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
G33S (500-239151-9)		9/12/23		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
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		R2626r228_GPC		90.0/PreSep_0 Standard Target List	

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_ Primary Deliverable Rank: 2  
 Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *Mike Leath* Date/Time: 9/13/23 15:20 Company: \_\_\_\_\_  
 Relinquished by: *FedEx* Date/Time: SEP 14 2023 10:10 Company: \_\_\_\_\_  
 Relinquished 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



<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:						
Client Contact: Shipping/Receiving		Phone:	Mockler, Diana J	State of Origin: Illinois	500-179042.1						
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@et.eurofins.com		Page 1 of 1							
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Illinois		Job #:	500-239151-1						
City: Earth City	Due Date Requested: 9/27/2023	<b>Analysis Requested</b>									
State, Zip: MO, 63045	TAT Requested (days):										
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:										
Email:	WO #:										
Project Name: Joliet #9 (Quarry) CCR 3Q23	Project #: 50011504										
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:										
<b>Sample Identification - Client ID (Lab ID)</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=wastewater, B=tissue, A=air)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>903.0/PreSep_21 Standard Target List</b>	<b>904.0/PreSep_0 Standard Target List</b>	<b>R226R228 GPPC</b>	<b>Total Number of Containers</b>	<b>Special Instructions/Note:</b>
G46S (500-239151-10)	9/13/23	09:44 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
G38s (500-239151-11)	9/13/23	10:48 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
T03S (500-239151-12)	9/13/23	11:45 Central	Water	Water	X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
G44S (500-239151-13)	9/13/23	13:52 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 &amp; 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>											
<b>Possible Hazard Identification</b>											
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:											
Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____											
Relinquished by: <i>Shirley Smith</i> Date/Time: 9/13/23 1520 Company: _____											
Relinquished by: <i>Fedex</i> Date/Time: SEPT 14 2023 1010 Company: _____											
Relinquished by: _____ Date/Time: _____ Company: _____											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No    Cooler Temperature(s) °C and Other Remarks:											







<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J	Camera Tracking No(s): 500-179084-1								
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 #: 500-239151-1								
Address: 13715 Rider Trail North,		State of Origin: Illinois	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:								
City: Earth City	Due Date Requested: 9/27/2023	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	3								
Email:	WO #:	904.0/PreSep_0 Standard Target List									
Project Name: Joliet #9 (Quarry) CCR 3Q23	SSOW#:	R226R228_GPPC									
Site: NRG Midwest Generation LSQ Joliet #9 CCR	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wateroil, B=1-tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	X	X	X	Special Instructions/Note:
G45S (500-239151-14)	9/14/23	14:10 Central		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 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.

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2  
 Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *Stephanie Hernandez* Date/Time: 9/14/23 16:01 Company: *FEDEX*  
 Relinquished by: *Stephanie Hernandez* Date/Time: 9/14/23 16:01 Company: *FEDEX*  
 Relinquished by: *Stephanie Hernandez* Date/Time: 9/14/23 16:01 Company: *FEDEX*  
 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:  
 Method of Shipment: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: *Stephanie Hernandez* Date/Time: 9/15/2023 10:15 Company: \_\_\_\_\_  
 Received by: *Stephanie Hernandez* Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks:

# Chain of Custody Record



Environment Testing



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J	Camera Tracking No(s): 500-179218.1				
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 #: 500-239151-2				
Address: 13715 Rider Trail North,		Due Date Requested: 9/27/2023	<b>Analysis Requested</b> Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 903.0/PreSep_21 Standard Target List 904.0/PreSep_0 Standard Target List R426R228_GPC				
City: Earth City	TAT Requested (days):						
State/Zip: MO, 63045	PO #:						
Phone: 314-298-8566 (Tel) 314-298-8757 (Fax)	WO #:						
Project Name: Joliet #9 (Quarry) CCR 3Q23		Project #: 50011504	<b>Special Instructions/Note:</b> 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;				
Site: NRG Midwest Generation LSQ Joliet #9 CCR		SSOW#:					
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (Water, Solid, Other, B-Tissue, A-Air)</b>	<b>Preservation Code:</b>	<b>Total Number of Containers</b>
T09S (500-239151-15)		9/19/23	11:28 Central		Water		3
T06S (500-239151-16)		9/19/23	13:28 Central		Water		3
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontractor 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.							
<b>Possible Hazard Identification</b>		<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		Time: _____ Method of Shipment: _____					
Empty Kit Relinquished by: <i>Michelle Scott</i>		Date/Time: 9/19/23 15:55					
Relinquished by: <i>Michelle Scott</i>		Date/Time: 9/19/23 15:55					
Relinquished by: <i>M Pinette</i>		Date/Time: 9/20/23 08:50					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:					







# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-239151-2

**Login Number: 239151**

**List Number: 1**

**Creator: Schmidt, Kara**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	3.5,3.8,3.7,5.2,2.7,2.1,4.6,1.8,5.2
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: 500-239151-2

**Login Number: 239151**

**List Number: 2**

**Creator: Pinette, Meadow L**

**List Source: Eurofins St. Louis**

**List Creation: 09/08/23 01:06 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 500-239151-2

**Login Number: 239151**

**List Number: 5**

**Creator: Pinette, Meadow L**

**List Source: Eurofins St. Louis**

**List Creation: 09/14/23 03:31 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: 500-239151-2

**Login Number: 239151**

**List Number: 6**

**Creator: Pinette, Meadow L**

**List Source: Eurofins St. Louis**

**List Creation: 09/15/23 11:31 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 500-239151-2

**Login Number: 239151**

**List Number: 9**

**Creator: Pinette, Meadow L**

**List Source: Eurofins St. Louis**

**List Creation: 09/20/23 01:39 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: 500-239151-2

**Login Number: 239151**

**List Number: 10**

**Creator: Pinette, Meadow L**

**List Source: Eurofins St. Louis**

**List Creation: 09/27/23 11:10 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: 500-239151-2

**Login Number: 239151**

**List Number: 13**

**Creator: Pinette, Meadow L**

**List Source: Eurofins St. Louis**

**List Creation: 09/28/23 01:33 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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: 500-239151-2

**Login Number: 239151**

**List Number: 15**

**Creator: Pinette, Meadow L**

**List Source: Eurofins St. Louis**

**List Creation: 09/29/23 11:34 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 3Q23

Job ID: 500-239151-2

**Client Sample ID: G20S**

**Lab Sample ID: 500-239151-1**

Date Collected: 09/06/23 09:48

Matrix: Water

Date Received: 09/06/23 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			627370	KAC	EET SL	09/11/23 10:01
Total/NA	Analysis	903.0		1	630503	FLC	EET SL	10/03/23 07:41
Total/NA	Prep	PrecSep_0			627374	KAC	EET SL	09/11/23 10:07
Total/NA	Analysis	904.0		1	629974	FLC	EET SL	09/28/23 11:58
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

**Client Sample ID: G31S**

**Lab Sample ID: 500-239151-2**

Date Collected: 09/06/23 13:48

Matrix: Water

Date Received: 09/06/23 15:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			627370	KAC	EET SL	09/11/23 10:01
Total/NA	Analysis	903.0		1	630503	FLC	EET SL	10/03/23 07:41
Total/NA	Prep	PrecSep_0			627374	KAC	EET SL	09/11/23 10:07
Total/NA	Analysis	904.0		1	629974	FLC	EET SL	09/28/23 11:58
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

**Client Sample ID: G48S**

**Lab Sample ID: 500-239151-3**

Date Collected: 09/07/23 09:38

Matrix: Water

Date Received: 09/07/23 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			627370	KAC	EET SL	09/11/23 10:01
Total/NA	Analysis	903.0		1	630503	FLC	EET SL	10/03/23 07:41
Total/NA	Prep	PrecSep_0			627374	KAC	EET SL	09/11/23 10:07
Total/NA	Analysis	904.0		1	629983	FLC	EET SL	09/28/23 12:03
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

**Client Sample ID: G47S**

**Lab Sample ID: 500-239151-4**

Date Collected: 09/07/23 11:03

Matrix: Water

Date Received: 09/07/23 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			627370	KAC	EET SL	09/11/23 10:01
Total/NA	Analysis	903.0		1	630503	FLC	EET SL	10/03/23 07:41
Total/NA	Prep	PrecSep_0			627374	KAC	EET SL	09/11/23 10:07
Total/NA	Analysis	904.0		1	629983	FLC	EET SL	09/28/23 12:04
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Client Sample ID: R08S**

**Lab Sample ID: 500-239151-5**

Date Collected: 09/07/23 12:55

Matrix: Water

Date Received: 09/07/23 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			627370	KAC	EET SL	09/11/23 10:01
Total/NA	Analysis	903.0		1	630503	FLC	EET SL	10/03/23 07:41
Total/NA	Prep	PrecSep_0			627374	KAC	EET SL	09/11/23 10:07
Total/NA	Analysis	904.0		1	629983	FLC	EET SL	09/28/23 12:04
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

**Client Sample ID: G30S**

**Lab Sample ID: 500-239151-6**

Date Collected: 09/12/23 10:03

Matrix: Water

Date Received: 09/12/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			628180	KAC	EET SL	09/15/23 09:54
Total/NA	Analysis	903.0		1	631279	FLC	EET SL	10/10/23 11:38
Total/NA	Prep	PrecSep_0			628181	KAC	EET SL	09/15/23 09:57
Total/NA	Analysis	904.0		1	630703	FLC	EET SL	10/04/23 12:06
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

**Client Sample ID: R32S**

**Lab Sample ID: 500-239151-7**

Date Collected: 09/12/23 11:37

Matrix: Water

Date Received: 09/12/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			628180	KAC	EET SL	09/15/23 09:54
Total/NA	Analysis	903.0		1	631279	FLC	EET SL	10/10/23 11:38
Total/NA	Prep	PrecSep_0			628181	KAC	EET SL	09/15/23 09:57
Total/NA	Analysis	904.0		1	630703	FLC	EET SL	10/04/23 12:06
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

**Client Sample ID: T12S**

**Lab Sample ID: 500-239151-8**

Date Collected: 09/12/23 12:57

Matrix: Water

Date Received: 09/12/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			628180	KAC	EET SL	09/15/23 09:54
Total/NA	Analysis	903.0		1	631279	FLC	EET SL	10/10/23 11:38
Total/NA	Prep	PrecSep_0			628181	KAC	EET SL	09/15/23 09:57
Total/NA	Analysis	904.0		1	630703	FLC	EET SL	10/04/23 12:07
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Client Sample ID: G33S

Date Collected: 09/12/23 13:51

Date Received: 09/12/23 15:37

## Lab Sample ID: 500-239151-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			628180	KAC	EET SL	09/15/23 09:54
Total/NA	Analysis	903.0		1	631279	FLC	EET SL	10/10/23 11:38
Total/NA	Prep	PrecSep_0			628181	KAC	EET SL	09/15/23 09:57
Total/NA	Analysis	904.0		1	630703	FLC	EET SL	10/04/23 12:07
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

## Client Sample ID: G46S

Date Collected: 09/13/23 09:44

Date Received: 09/13/23 15:10

## Lab Sample ID: 500-239151-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			628180	KAC	EET SL	09/15/23 09:54
Total/NA	Analysis	903.0		1	631278	FLC	EET SL	10/10/23 11:37
Total/NA	Prep	PrecSep_0			628181	KAC	EET SL	09/15/23 09:57
Total/NA	Analysis	904.0		1	630703	FLC	EET SL	10/04/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

## Client Sample ID: G38S

Date Collected: 09/13/23 10:48

Date Received: 09/13/23 15:10

## Lab Sample ID: 500-239151-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			628180	KAC	EET SL	09/15/23 09:54
Total/NA	Analysis	903.0		1	631278	FLC	EET SL	10/10/23 11:37
Total/NA	Prep	PrecSep_0			628181	KAC	EET SL	09/15/23 09:57
Total/NA	Analysis	904.0		1	630703	FLC	EET SL	10/04/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

## Client Sample ID: T03S

Date Collected: 09/13/23 11:45

Date Received: 09/13/23 15:10

## Lab Sample ID: 500-239151-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			628180	KAC	EET SL	09/15/23 09:54
Total/NA	Analysis	903.0		1	631278	FLC	EET SL	10/10/23 11:37
Total/NA	Prep	PrecSep_0			628181	KAC	EET SL	09/15/23 09:57
Total/NA	Analysis	904.0		1	630703	FLC	EET SL	10/04/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Client Sample ID: G44S

Date Collected: 09/13/23 13:52

Date Received: 09/13/23 15:10

## Lab Sample ID: 500-239151-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			628180	KAC	EET SL	09/15/23 09:54
Total/NA	Analysis	903.0		1	631278	FLC	EET SL	10/10/23 11:37
Total/NA	Prep	PrecSep_0			628181	KAC	EET SL	09/15/23 09:57
Total/NA	Analysis	904.0		1	630703	FLC	EET SL	10/04/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

## Client Sample ID: G45S

Date Collected: 09/14/23 14:10

Date Received: 09/14/23 15:25

## Lab Sample ID: 500-239151-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			628180	KAC	EET SL	09/15/23 09:54
Total/NA	Analysis	903.0		1	631278	FLC	EET SL	10/10/23 11:37
Total/NA	Prep	PrecSep_0			628181	KAC	EET SL	09/15/23 09:57
Total/NA	Analysis	904.0		1	630703	FLC	EET SL	10/04/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	631637	EMH	EET SL	10/11/23 18:10

## Client Sample ID: T09S

Date Collected: 09/19/23 11:28

Date Received: 09/19/23 15:38

## Lab Sample ID: 500-239151-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629146	KAC	EET SL	09/21/23 10:16
Total/NA	Analysis	903.0		1	631972	FLC	EET SL	10/13/23 19:49
Total/NA	Prep	PrecSep_0			629147	KAC	EET SL	09/21/23 10:23
Total/NA	Analysis	904.0		1	631061	FLC	EET SL	10/09/23 11:36
Total/NA	Analysis	Ra226_Ra228		1	632126	SCB	EET SL	10/16/23 12:12

## Client Sample ID: T06S

Date Collected: 09/19/23 13:28

Date Received: 09/19/23 15:38

## Lab Sample ID: 500-239151-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629146	KAC	EET SL	09/21/23 10:16
Total/NA	Analysis	903.0		1	631972	FLC	EET SL	10/13/23 21:35
Total/NA	Prep	PrecSep_0			629147	KAC	EET SL	09/21/23 10:23
Total/NA	Analysis	904.0		1	631060	FLC	EET SL	10/09/23 11:35
Total/NA	Analysis	Ra226_Ra228		1	632126	SCB	EET SL	10/16/23 12:12



# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Client Sample ID: T13S

Lab Sample ID: 500-239151-17

Date Collected: 09/26/23 11:25

Matrix: Water

Date Received: 09/26/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629954	KAC	EET SL	09/28/23 10:53
Total/NA	Analysis	903.0		1	632841	FLC	EET SL	10/20/23 16:49
Total/NA	Prep	PrecSep_0			629957	KAC	EET SL	09/28/23 11:02
Total/NA	Analysis	904.0		1	632158	FLC	EET SL	10/17/23 11:45
Total/NA	Analysis	Ra226_Ra228		1	633286	EMH	EET SL	10/24/23 12:19

## Client Sample ID: T13S Dup

Lab Sample ID: 500-239151-18

Date Collected: 09/26/23 11:25

Matrix: Water

Date Received: 09/26/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629954	KAC	EET SL	09/28/23 10:53
Total/NA	Analysis	903.0		1	632841	FLC	EET SL	10/20/23 16:49
Total/NA	Prep	PrecSep_0			629957	KAC	EET SL	09/28/23 11:02
Total/NA	Analysis	904.0		1	632158	FLC	EET SL	10/17/23 11:45
Total/NA	Analysis	Ra226_Ra228		1	633286	EMH	EET SL	10/24/23 12:19

## Client Sample ID: T02S

Lab Sample ID: 500-239151-19

Date Collected: 09/27/23 10:47

Matrix: Water

Date Received: 09/27/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630347	KAC	EET SL	10/02/23 11:14
Total/NA	Analysis	903.0		1	633299	FLC	EET SL	10/24/23 16:40
Total/NA	Prep	PrecSep_0			630351	KAC	EET SL	10/02/23 11:17
Total/NA	Analysis	904.0		1	632839	FLC	EET SL	10/20/23 11:48
Total/NA	Analysis	Ra226_Ra228		1	633946	CAH	EET SL	10/27/23 16:19

## Client Sample ID: T08S

Lab Sample ID: 500-239151-20

Date Collected: 09/27/23 12:24

Matrix: Water

Date Received: 09/27/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630347	KAC	EET SL	10/02/23 11:14
Total/NA	Analysis	903.0		1	633299	FLC	EET SL	10/24/23 16:41
Total/NA	Prep	PrecSep_0			630351	KAC	EET SL	10/02/23 11:17
Total/NA	Analysis	904.0		1	632839	FLC	EET SL	10/20/23 11:48
Total/NA	Analysis	Ra226_Ra228		1	633946	CAH	EET SL	10/27/23 16:19

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

## Client Sample ID: T05S

Lab Sample ID: 500-239151-21

Date Collected: 09/27/23 14:03

Matrix: Water

Date Received: 09/27/23 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630347	KAC	EET SL	10/02/23 11:14
Total/NA	Analysis	903.0		1	633299	FLC	EET SL	10/24/23 16:41
Total/NA	Prep	PrecSep_0			630351	KAC	EET SL	10/02/23 11:17
Total/NA	Analysis	904.0		1	632839	FLC	EET SL	10/20/23 11:47
Total/NA	Analysis	Ra226_Ra228		1	633946	CAH	EET SL	10/27/23 16:19

## Client Sample ID: T11S

Lab Sample ID: 500-239151-22

Date Collected: 09/28/23 09:38

Matrix: Water

Date Received: 09/28/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630347	KAC	EET SL	10/02/23 11:14
Total/NA	Analysis	903.0		1	633299	FLC	EET SL	10/24/23 16:41
Total/NA	Prep	PrecSep_0			630351	KAC	EET SL	10/02/23 11:17
Total/NA	Analysis	904.0		1	632839	FLC	EET SL	10/20/23 11:47
Total/NA	Analysis	Ra226_Ra228		1	633946	CAH	EET SL	10/27/23 16:19

## Client Sample ID: T01S

Lab Sample ID: 500-239151-23

Date Collected: 09/28/23 11:27

Matrix: Water

Date Received: 09/28/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630347	KAC	EET SL	10/02/23 11:14
Total/NA	Analysis	903.0		1	633299	FLC	EET SL	10/24/23 16:41
Total/NA	Prep	PrecSep_0			630351	KAC	EET SL	10/02/23 11:17
Total/NA	Analysis	904.0		1	632839	FLC	EET SL	10/20/23 11:47
Total/NA	Analysis	Ra226_Ra228		1	633946	CAH	EET SL	10/27/23 16:19

## Client Sample ID: G39S

Lab Sample ID: 500-239151-24

Date Collected: 09/28/23 13:23

Matrix: Water

Date Received: 09/28/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630347	KAC	EET SL	10/02/23 11:14
Total/NA	Analysis	903.0		1	633301	FLC	EET SL	10/24/23 16:40
Total/NA	Prep	PrecSep_0			630351	KAC	EET SL	10/02/23 11:17
Total/NA	Analysis	904.0		1	632840	FLC	EET SL	10/20/23 17:55
Total/NA	Analysis	Ra226_Ra228		1	633946	CAH	EET SL	10/27/23 16:19

**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 3Q23

Job ID: 500-239151-2

## Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	
500-239151-1	G20S	93.3	
500-239151-2	G31S	86.6	
500-239151-3	G48S	93.5	
500-239151-3 DU	G48S	96.3	
500-239151-4	G47S	91.1	
500-239151-5	R08S	97.3	
500-239151-6	G30S	103	
500-239151-7	R32S	93.1	
500-239151-8	T12S	91.8	
500-239151-9	G33S	81.6	
500-239151-10	G46S	76.7	
500-239151-11	G38S	95.8	
500-239151-12	T03S	97.0	
500-239151-13	G44S	94.5	
500-239151-14	G45S	98.0	
500-239151-15	T09S	89.5	
500-239151-16	T06S	90.7	
500-239151-16 DU	T06S	84.4	
500-239151-17	T13S	87.0	
500-239151-18	T13S Dup	81.9	
500-239151-19	T02S	85.8	
500-239151-20	T08S	88.0	
500-239151-21	T05S	78.2	
500-239151-22	T11S	85.6	
500-239151-23	T01S	46.2	
500-239151-24	G39S	87.5	
500-239151-24 DU	G39S	89.0	
LCS 160-627370/2-A	Lab Control Sample	89.1	
LCS 160-628180/2-A	Lab Control Sample	91.8	
LCS 160-629146/2-A	Lab Control Sample	91.9	
LCS 160-629954/2-A	Lab Control Sample	90.2	
LCS 160-630347/2-A	Lab Control Sample	87.0	
MB 160-627370/1-A	Method Blank	98.3	
MB 160-628180/1-A	Method Blank	99.0	
MB 160-629146/1-A	Method Blank	96.6	
MB 160-629954/1-A	Method Blank	77.0	
MB 160-630347/1-A	Method Blank	91.7	

**Tracer/Carrier Legend**

Ba = Ba Carrier

## Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
500-239151-1	G20S	93.3	59.8
500-239151-2	G31S	86.6	77.0
500-239151-3	G48S	93.5	62.8

# Tracer/Carrier Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 3Q23

Job ID: 500-239151-2

**Method: 904.0 - Radium-228 (GFPC) (Continued)**

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
500-239151-3 DU	G48S	96.3	87.5
500-239151-4	G47S	91.1	76.6
500-239151-5	R08S	97.3	84.9
500-239151-6	G30S	103	83.0
500-239151-7	R32S	93.1	84.5
500-239151-8	T12S	91.8	81.5
500-239151-9	G33S	81.6	77.4
500-239151-10	G46S	76.7	77.8
500-239151-11	G38S	95.8	75.9
500-239151-12	T03S	97.0	81.9
500-239151-13	G44S	94.5	81.1
500-239151-14	G45S	98.0	87.5
500-239151-15	T09S	89.5	79.3
500-239151-16	T06S	90.7	81.9
500-239151-16 DU	T06S	84.4	83.7
500-239151-17	T13S	87.0	77.8
500-239151-18	T13S Dup	81.9	75.5
500-239151-24	G39S	87.5	82.2
500-239151-24 DU	G39S	89.0	81.5
LCS 160-627374/2-A	Lab Control Sample	89.1	84.5
LCS 160-628181/2-A	Lab Control Sample	91.8	81.1
LCS 160-629147/2-A	Lab Control Sample	91.9	82.2
LCS 160-629957/2-A	Lab Control Sample	90.2	82.2
LCS 160-630351/2-A	Lab Control Sample	87.0	78.9
MB 160-627374/1-A	Method Blank	98.3	77.8
MB 160-628181/1-A	Method Blank	99.0	79.3
MB 160-629147/1-A	Method Blank	96.6	70.3
MB 160-629957/1-A	Method Blank	77.0	78.1

**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	Y
500-239151-19	T02S		
500-239151-20	T08S		
500-239151-21	T05S		
500-239151-22	T11S		
500-239151-23	T01S		

**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 1/10/2024 11:19:11 AM

**JOB DESCRIPTION**

Joliet #9 (Quarry) CCR 4Q23

**JOB NUMBER**

500-243693-1

# Eurofins Chicago

## Job Notes

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# Case Narrative

Client: Midwest Generation EME LLC  
Project: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Job ID: 500-243693-1**

**Eurofins Chicago**

## Job Narrative 500-243693-1

### Receipt

The samples were received on 12/11/2023 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 10 coolers at receipt time were 0.7° C, 0.8° C, 2.6° C, 2.9° C, 3.0° C, 3.4° C, 3.7° C, 4.2° C, 4.2° C and 5.3° C.

### Metals

Method 6020A: The initial low level calibration verification (ICVL) result for batch 748512 was above the upper control limit for Be. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020A: The initial low level calibration verification (ICVL) result for batch 749056 was above the upper control limit for Sb. Sample results were non-detects, and have been reported as qualified data.

Method 6020A: The continuing calibration verification (CCV) at line 49 in AD batch 749452 recovered above the upper control limit for Be. The samples associated with this CCV were non-detects for the affected analytes; 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 500-748771 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.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-748935 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.

Eurofins Chicago



# Method Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

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 4Q23

Job ID: 500-243693-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-243693-1	G20S	Water	12/11/23 10:08	12/11/23 15:25
500-243693-2	G31S	Water	12/11/23 14:22	12/11/23 15:25
500-243693-3	T02S	Water	12/12/23 09:34	12/12/23 14:40
500-243693-4	T03S	GW	12/12/23 11:04	12/12/23 14:40
500-243693-5	T09S	Water	12/12/23 12:45	12/12/23 14:40
500-243693-6	T01S	Water	12/13/23 09:45	12/13/23 11:50
500-243693-7	T08S	Water	12/14/23 09:35	12/14/23 15:20
500-243693-8	T06S	Water	12/14/23 11:35	12/14/23 15:20
500-243693-9	T05S	Water	12/14/23 13:25	12/14/23 15:20
500-243693-10	G33S	Water	12/15/23 09:30	12/15/23 12:45
500-243693-11	G39S	Water	12/18/23 09:27	12/18/23 15:18
500-243693-12	T11S	GW	12/18/23 10:20	12/18/23 15:18
500-243693-13	G47S	GW	12/18/23 11:31	12/18/23 15:18
500-243693-14	G48S	GW	12/18/23 12:45	12/18/23 15:18
500-243693-15	T12S	Water	12/18/23 14:04	12/18/23 15:18
500-243693-16	G30S	GW	12/19/23 09:08	12/19/23 15:07
500-243693-17	R32S	GW	12/19/23 11:01	12/19/23 15:07
500-243693-18	T13S	Water	12/19/23 12:08	12/19/23 15:07
500-243693-19	T13S Dup	Water	12/19/23 12:08	12/19/23 15:07
500-243693-20	G44S	Water	12/19/23 13:39	12/19/23 15:07
500-243693-21	G46S	Water	12/20/23 09:42	12/20/23 12:35
500-243693-22	R08S	Water	12/20/23 10:37	12/20/23 12:35
500-243693-23	G45S	Water	12/20/23 11:29	12/20/23 12:35

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G20S**

**Lab Sample ID: 500-243693-1**

Date Collected: 12/11/23 10:08

Matrix: Water

Date Received: 12/11/23 15:25

**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		12/21/23 19:31	12/22/23 18:21	1
Arsenic	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 18:21	1
<b>Barium</b>	<b>0.045</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 16:20	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 15:21	1
<b>Boron</b>	<b>1.3</b>		0.050		mg/L		12/21/23 19:31	01/02/24 15:21	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 18:21	1
<b>Calcium</b>	<b>54</b>		0.20		mg/L		12/21/23 19:31	12/29/23 16:20	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 18:21	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 18:21	1
Lead	<0.00050		0.00050		mg/L		12/21/23 19:31	12/29/23 16:20	1
<b>Lithium</b>	<b>0.040</b>		0.010		mg/L		12/21/23 19:31	01/02/24 15:21	1
<b>Molybdenum</b>	<b>0.014</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 18:21	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 18:21	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 16:20	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 07:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>420</b>		10		mg/L			12/12/23 20:18	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>16</b>		2.0		mg/L			12/17/23 11:48	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.72</b>		0.10		mg/L			12/19/23 17:54	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>67</b>		50		mg/L			12/31/23 17:13	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>51.32</b>				ft			12/11/23 10:08	1
<b>Depth to Water (ft from MP)</b>	<b>54.10</b>				ft			12/11/23 10:08	1
<b>Elevation of well (ft from MP)</b>	<b>580.87</b>				ft			12/11/23 10:08	1
<b>Field pH</b>	<b>7.36</b>				SU			12/11/23 10:08	1
<b>Field Temperature</b>	<b>44.1</b>				Degrees F			12/11/23 10:08	1
<b>Ground Water Elevation</b>	<b>526.77</b>				ft			12/11/23 10:08	1
<b>Specific Conductance</b>	<b>698</b>				umhos/cm			12/11/23 10:08	1
<b>Well bottom elevation</b>	<b>442.28</b>				ft			12/11/23 10:08	1
<b>Field Turbidity</b>	<b>1.40</b>				NTU			12/11/23 10:08	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G31S**

**Lab Sample ID: 500-243693-2**

Date Collected: 12/11/23 14:22

Matrix: Water

Date Received: 12/11/23 15:25

**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		12/21/23 19:31	12/22/23 18:40	1
<b>Arsenic</b>	<b>0.0030</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 18:40	1
<b>Barium</b>	<b>0.046</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 16:44	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 15:41	1
<b>Boron</b>	<b>3.4</b>		0.050		mg/L		12/21/23 19:31	01/02/24 15:41	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 18:40	1
<b>Calcium</b>	<b>140</b>		0.20		mg/L		12/21/23 19:31	12/29/23 16:44	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 18:40	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 18:40	1
Lead	<0.00050		0.00050		mg/L		12/21/23 19:31	12/29/23 16:44	1
<b>Lithium</b>	<b>0.084</b>		0.010		mg/L		12/21/23 19:31	01/02/24 15:41	1
<b>Molybdenum</b>	<b>0.58</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 18:40	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 18:40	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 16:44	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 07:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1200</b>		10		mg/L			12/12/23 20:21	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>180</b>		20		mg/L			12/17/23 12:26	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.23</b>		0.10		mg/L			12/19/23 18:01	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>400</b>		100		mg/L			01/02/24 12:46	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>28.38</b>				ft			12/11/23 14:22	1
<b>Depth to Water (ft from MP)</b>	<b>30.96</b>				ft			12/11/23 14:22	1
<b>Elevation of well (ft from MP)</b>	<b>535.73</b>				ft			12/11/23 14:22	1
<b>Field pH</b>	<b>7.46</b>				SU			12/11/23 14:22	1
<b>Field Temperature</b>	<b>55.2</b>				Degrees F			12/11/23 14:22	1
<b>Ground Water Elevation</b>	<b>504.77</b>				ft			12/11/23 14:22	1
<b>Specific Conductance</b>	<b>1650</b>				umhos/cm			12/11/23 14:22	1
<b>Well bottom elevation</b>	<b>453.36</b>				ft			12/11/23 14:22	1
<b>Field Turbidity</b>	<b>1.65</b>				NTU			12/11/23 14:22	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: T02S**

**Lab Sample ID: 500-243693-3**

Date Collected: 12/12/23 09:34

Matrix: Water

Date Received: 12/12/23 14:40

**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		12/21/23 19:31	12/22/23 18:44	1
<b>Arsenic</b>	<b>0.0050</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 18:44	1
<b>Barium</b>	<b>0.088</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 16:48	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 16:00	1
<b>Boron</b>	<b>4.8</b>		0.50		mg/L		12/21/23 19:31	01/08/24 15:20	10
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 18:44	1
<b>Calcium</b>	<b>72</b>		0.20		mg/L		12/21/23 19:31	12/29/23 16:48	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 18:44	1
<b>Cobalt</b>	<b>0.0014</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 18:44	1
<b>Lead</b>	<b>0.0020</b>		0.00050		mg/L		12/21/23 19:31	12/29/23 16:48	1
<b>Lithium</b>	<b>0.035</b>		0.010		mg/L		12/21/23 19:31	01/02/24 16:00	1
<b>Molybdenum</b>	<b>0.36</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 18:44	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 18:44	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 16:48	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 07:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1100</b>		10		mg/L			12/12/23 20:23	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		20		mg/L			12/17/23 15:27	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.32</b>		0.10		mg/L			12/19/23 18:06	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>330</b>	<b>F1</b>	100		mg/L			01/02/24 16:40	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	135.67				ft			12/12/23 09:34	1
Depth to Water (ft from MP)	138.00				ft			12/12/23 09:34	1
Elevation of well (ft from MP)	626.12				ft			12/12/23 09:34	1
Field pH	7.60				SU			12/12/23 09:34	1
Field Temperature	45.5				Degrees F			12/12/23 09:34	1
Ground Water Elevation	488.12				ft			12/12/23 09:34	1
Specific Conductance	1398				umhos/cm			12/12/23 09:34	1
Well bottom elevation	453.40				ft			12/12/23 09:34	1
Field Turbidity	38.90				NTU			12/12/23 09:34	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: T03S**

**Lab Sample ID: 500-243693-4**

Date Collected: 12/12/23 11:04

Matrix: GW

Date Received: 12/12/23 14:40

**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		12/21/23 19:31	12/22/23 18:48	1
Arsenic	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 18:48	1
<b>Barium</b>	<b>0.075</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 16:51	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 16:04	1
<b>Boron</b>	<b>1.7</b>		0.050		mg/L		12/21/23 19:31	01/08/24 15:24	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 18:48	1
<b>Calcium</b>	<b>120</b>		0.20		mg/L		12/21/23 19:31	12/29/23 16:51	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 18:48	1
<b>Cobalt</b>	<b>0.0011</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 18:48	1
Lead	<0.00050		0.00050		mg/L		12/21/23 19:31	12/29/23 16:51	1
<b>Lithium</b>	<b>0.024</b>		0.010		mg/L		12/21/23 19:31	01/02/24 16:04	1
<b>Molybdenum</b>	<b>0.14</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 18:48	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 18:48	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 16:51	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 07:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>940</b>		10		mg/L			12/12/23 20:26	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		20		mg/L			12/17/23 15:27	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.18</b>		0.10		mg/L			12/19/23 18:10	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>220</b>		100		mg/L			01/02/24 16:40	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>138.95</b>				ft			12/12/23 11:04	1
<b>Depth to Water (ft from MP)</b>	<b>142.03</b>				ft			12/12/23 11:04	1
<b>Elevation of well (ft from MP)</b>	<b>629.85</b>				ft			12/12/23 11:04	1
<b>Field pH</b>	<b>7.42</b>				SU			12/12/23 11:04	1
<b>Field Temperature</b>	<b>51.4</b>				Degrees F			12/12/23 11:04	1
<b>Ground Water Elevation</b>	<b>487..82</b>				ft			12/12/23 11:04	1
<b>Specific Conductance</b>	<b>1318</b>				umhos/cm			12/12/23 11:04	1
<b>Well bottom elevation</b>	<b>456.70</b>				ft			12/12/23 11:04	1
<b>Field Turbidity</b>	<b>1.23</b>				NTU			12/12/23 11:04	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: T09S**

**Lab Sample ID: 500-243693-5**

Date Collected: 12/12/23 12:45

Matrix: Water

Date Received: 12/12/23 14:40

**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		12/21/23 19:31	12/22/23 18:59	1
<b>Arsenic</b>	<b>0.0035</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 18:59	1
<b>Barium</b>	<b>0.054</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 16:55	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 16:07	1
<b>Boron</b>	<b>6.9</b>		0.50		mg/L		12/21/23 19:31	01/08/24 15:32	10
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 18:59	1
<b>Calcium</b>	<b>110</b>		0.20		mg/L		12/21/23 19:31	12/29/23 16:55	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 18:59	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 18:59	1
<b>Lead</b>	<b>0.00059</b>		0.00050		mg/L		12/21/23 19:31	12/29/23 16:55	1
<b>Lithium</b>	<b>0.074</b>		0.010		mg/L		12/21/23 19:31	01/02/24 16:07	1
<b>Molybdenum</b>	<b>0.69</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 18:59	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 18:59	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 16:55	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 07:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>920</b>		10		mg/L			12/12/23 20:29	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>57</b>		4.0		mg/L			12/17/23 15:27	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.29</b>		0.10		mg/L			12/19/23 18:25	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>420</b>		250		mg/L			01/02/24 13:23	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	107.55				ft			12/12/23 12:45	1
Depth to Water (ft from MP)	109.95				ft			12/12/23 12:45	1
Elevation of well (ft from MP)	603..48				ft			12/12/23 12:45	1
Field pH	7.57				SU			12/12/23 12:45	1
Field Temperature	46.0				Degrees F			12/12/23 12:45	1
Ground Water Elevation	493.53				ft			12/12/23 12:45	1
Specific Conductance	1280				umhos/cm			12/12/23 12:45	1
Well bottom elevation	444.80				ft			12/12/23 12:45	1
Field Turbidity	52.10				NTU			12/12/23 12:45	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Client Sample ID: T01S

## Lab Sample ID: 500-243693-6

Date Collected: 12/13/23 09:45

Matrix: Water

Date Received: 12/13/23 11:50

### 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		12/21/23 19:31	12/22/23 19:03	1
<b>Arsenic</b>	<b>0.011</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:03	1
<b>Barium</b>	<b>0.054</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 16:58	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 16:11	1
<b>Boron</b>	<b>4.8</b>		0.50		mg/L		12/21/23 19:31	01/08/24 15:35	10
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:03	1
<b>Calcium</b>	<b>51</b>		0.20		mg/L		12/21/23 19:31	12/29/23 16:58	1
<b>Chromium</b>	<b>0.0057</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 19:03	1
<b>Cobalt</b>	<b>0.0038</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:03	1
<b>Lead</b>	<b>0.0031</b>		0.00050		mg/L		12/21/23 19:31	12/29/23 16:58	1
<b>Lithium</b>	<b>0.014</b>		0.010		mg/L		12/21/23 19:31	01/02/24 16:11	1
<b>Molybdenum</b>	<b>0.28</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 19:03	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:03	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 16:58	1

### Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 07:57	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>940</b>		10		mg/L			12/18/23 00:35	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>100</b>		20		mg/L			12/17/23 15:28	10
<b>Fluoride (SM 4500 F C)</b>	<b>1.0</b>		0.10		mg/L			12/19/23 18:30	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>400</b>		250		mg/L			01/02/24 13:22	50

### Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	123.05				ft			12/13/23 09:45	1
Depth to Water (ft from MP)	125.53				ft			12/13/23 09:45	1
Elevation of well (ft from MP)	621.84				ft			12/13/23 09:45	1
Field pH	7.45				SU			12/13/23 09:45	1
Field Temperature	44.8				Degrees F			12/13/23 09:45	1
Ground Water Elevation	496.31				ft			12/13/23 09:45	1
Specific Conductance	1418				umhos/cm			12/13/23 09:45	1
Well bottom elevation	451.46				ft			12/13/23 09:45	1
Field Turbidity	103.10				NTU			12/13/23 09:45	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: T08S**

**Lab Sample ID: 500-243693-7**

Date Collected: 12/14/23 09:35

Matrix: Water

Date Received: 12/14/23 15:20

**Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0041		0.0030		mg/L		12/21/23 19:31	12/22/23 19:06	1
Arsenic	0.017		0.0010		mg/L		12/21/23 19:31	12/22/23 19:06	1
Barium	0.022		0.0025		mg/L		12/21/23 19:31	12/29/23 17:02	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 16:15	1
Boron	9.5		0.50		mg/L		12/21/23 19:31	01/08/24 15:39	10
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:06	1
Calcium	18		0.20		mg/L		12/21/23 19:31	12/29/23 17:02	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:06	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:06	1
Lead	0.00065		0.00050		mg/L		12/21/23 19:31	12/29/23 17:02	1
Lithium	0.042		0.010		mg/L		12/21/23 19:31	01/02/24 16:15	1
Molybdenum	0.71		0.0050		mg/L		12/21/23 19:31	12/22/23 19:06	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:06	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:02	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 07:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			12/18/23 00:43	1
Chloride (SM 4500 Cl- E)	96		20		mg/L			12/17/23 15:26	10
Fluoride (SM 4500 F C)	0.58		0.10		mg/L			12/19/23 18:34	1
Sulfate (SM 4500 SO4 E)	490		250		mg/L			01/02/24 13:22	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	130.80				ft			12/14/23 09:35	1
Depth to Water (ft from MP)	133.18				ft			12/14/23 09:35	1
Elevation of well (ft from MP)	627.55				ft			12/14/23 09:35	1
Field pH	7.99				SU			12/14/23 09:35	1
Field Temperature	52.0				Degrees F			12/14/23 09:35	1
Ground Water Elevation	494.37				ft			12/14/23 09:35	1
Specific Conductance	1472				umhos/cm			12/14/23 09:35	1
Well bottom elevation	447.38				ft			12/14/23 09:35	1
Field Turbidity	4.94				NTU			12/14/23 09:35	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: T06S**

**Lab Sample ID: 500-243693-8**

Date Collected: 12/14/23 11:35

Matrix: Water

Date Received: 12/14/23 15:20

**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		12/21/23 19:31	12/22/23 19:10	1
<b>Arsenic</b>	<b>0.0012</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:10	1
<b>Barium</b>	<b>0.035</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 17:05	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 16:46	1
<b>Boron</b>	<b>0.98</b>		0.050		mg/L		12/21/23 19:31	01/08/24 15:43	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:10	1
<b>Calcium</b>	<b>79</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:05	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:10	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:10	1
Lead	<0.00050		0.00050		mg/L		12/21/23 19:31	12/29/23 17:05	1
<b>Lithium</b>	<b>0.021</b>		0.010		mg/L		12/21/23 19:31	01/02/24 16:46	1
<b>Molybdenum</b>	<b>0.025</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 19:10	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:10	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:05	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 08:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>510</b>		10		mg/L			12/18/23 00:48	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>15</b>		2.0		mg/L			12/17/23 15:03	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.39</b>		0.10		mg/L			12/19/23 18:38	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>100</b>		25		mg/L			01/02/24 12:19	5

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	117.53				ft			12/14/23 11:35	1
Depth to Water (ft from MP)	119.83				ft			12/14/23 11:35	1
Elevation of well (ft from MP)	621.05				ft			12/14/23 11:35	1
Field pH	7.30				SU			12/14/23 11:35	1
Field Temperature	58.1				Degrees F			12/14/23 11:35	1
Ground Water Elevation	501.22				ft			12/14/23 11:35	1
Specific Conductance	800				umhos/cm			12/14/23 11:35	1
Well bottom elevation	447.94				ft			12/14/23 11:35	1
Field Turbidity	2.15				NTU			12/14/23 11:35	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Client Sample ID: T05S

## Lab Sample ID: 500-243693-9

Date Collected: 12/14/23 13:25

Matrix: Water

Date Received: 12/14/23 15:20

### 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		12/21/23 19:31	12/22/23 19:14	1
<b>Arsenic</b>	<b>0.13</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:14	1
<b>Barium</b>	<b>0.0076</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 17:15	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 16:50	1
<b>Boron</b>	<b>14</b>		1.0		mg/L		12/21/23 19:31	01/08/24 15:47	20
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:14	1
<b>Calcium</b>	<b>2.5</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:15	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:14	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:14	1
Lead	<0.00050		0.00050		mg/L		12/21/23 19:31	12/29/23 17:15	1
<b>Lithium</b>	<b>0.021</b>		0.010		mg/L		12/21/23 19:31	01/02/24 16:50	1
<b>Molybdenum</b>	<b>0.98</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 19:14	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:14	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:15	1

### Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 08:08	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1500</b>		10		mg/L			12/18/23 00:51	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		20		mg/L			12/17/23 15:28	10
<b>Fluoride (SM 4500 F C)</b>	<b>1.7</b>		0.10		mg/L			12/19/23 18:53	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>610</b>		250		mg/L			01/02/24 13:22	50

### Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	124.47				ft			12/14/23 13:25	1
Depth to Water (ft from MP)	126.87				ft			12/14/23 13:25	1
Elevation of well (ft from MP)	623.50				ft			12/14/23 13:25	1
Field pH	9.26				SU			12/14/23 13:25	1
Field Temperature	58.6				Degrees F			12/14/23 13:25	1
Ground Water Elevation	496.63				ft			12/14/23 13:25	1
Specific Conductance	2330				umhos/cm			12/14/23 13:25	1
Well bottom elevation	448.35				ft			12/14/23 13:25	1
Field Turbidity	4.53				NTU			12/14/23 13:25	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G33S**

**Lab Sample ID: 500-243693-10**

Date Collected: 12/15/23 09:30

Matrix: Water

Date Received: 12/15/23 12:45

**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		12/21/23 19:31	12/22/23 19:18	1
<b>Arsenic</b>	<b>0.0011</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:18	1
<b>Barium</b>	<b>0.097</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 17:19	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 16:54	1
<b>Boron</b>	<b>0.93</b>		0.050		mg/L		12/21/23 19:31	01/08/24 16:11	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:18	1
<b>Calcium</b>	<b>57</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:19	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:18	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:18	1
<b>Lead</b>	<b>0.0036</b>		0.00050		mg/L		12/21/23 19:31	12/29/23 17:19	1
<b>Lithium</b>	<b>0.032</b>		0.010		mg/L		12/21/23 19:31	01/02/24 16:54	1
Molybdenum	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:18	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:18	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:19	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 08:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>430</b>		10		mg/L			12/18/23 00:53	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>13</b>		2.0		mg/L			12/17/23 15:02	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.48</b>		0.10		mg/L			12/19/23 19:00	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>73</b>		25		mg/L			01/02/24 12:19	5

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>38.92</b>				ft			12/15/23 09:30	1
<b>Depth to Water (ft from MP)</b>	<b>40.65</b>				ft			12/15/23 09:30	1
<b>Elevation of well (ft from MP)</b>	<b>535.67</b>				ft			12/15/23 09:30	1
<b>Field pH</b>	<b>7.16</b>				SU			12/15/23 09:30	1
<b>Field Temperature</b>	<b>69.6</b>				Degrees F			12/15/23 09:30	1
<b>Ground Water Elevation</b>	<b>495.02</b>				ft			12/15/23 09:30	1
<b>Specific Conductance</b>	<b>721</b>				umhos/cm			12/15/23 09:30	1
<b>Well bottom elevation</b>	<b>452.72</b>				ft			12/15/23 09:30	1
<b>Field Turbidity</b>	<b>54.40</b>				NTU			12/15/23 09:30	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G39S**

**Lab Sample ID: 500-243693-11**

Date Collected: 12/18/23 09:27

Matrix: Water

Date Received: 12/18/23 15:18

**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		12/21/23 19:31	12/22/23 19:22	1
<b>Arsenic</b>	<b>0.0019</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:22	1
<b>Barium</b>	<b>0.047</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 17:22	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 16:58	1
<b>Boron</b>	<b>0.36</b>		0.050		mg/L		12/21/23 19:31	01/08/24 16:22	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:22	1
<b>Calcium</b>	<b>100</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:22	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:22	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:22	1
<b>Lead</b>	<b>0.00079</b>		0.00050		mg/L		12/21/23 19:31	12/29/23 17:22	1
<b>Lithium</b>	<b>0.012</b>		0.010		mg/L		12/21/23 19:31	01/02/24 16:58	1
<b>Molybdenum</b>	<b>0.0091</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 19:22	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:22	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:22	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 08:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>580</b>		10		mg/L			12/18/23 18:57	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>45</b>		2.0		mg/L			12/21/23 18:36	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.17</b>		0.10		mg/L			12/19/23 19:04	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>12</b>		5.0		mg/L			01/02/24 12:47	1

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>94.63</b>				ft			12/18/23 09:27	1
<b>Depth to Water (ft from MP)</b>	<b>96.71</b>				ft			12/18/23 09:27	1
<b>Elevation of well (ft from MP)</b>	<b>598.75</b>				ft			12/18/23 09:27	1
<b>Field pH</b>	<b>7.11</b>				SU			12/18/23 09:27	1
<b>Field Temperature</b>	<b>50.4</b>				Degrees F			12/18/23 09:27	1
<b>Ground Water Elevation</b>	<b>502.04</b>				ft			12/18/23 09:27	1
<b>Specific Conductance</b>	<b>932</b>				umhos/cm			12/18/23 09:27	1
<b>Well bottom elevation</b>	<b>454.15</b>				ft			12/18/23 09:27	1
<b>Field Turbidity</b>	<b>11.60</b>				NTU			12/18/23 09:27	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: T11S**

**Lab Sample ID: 500-243693-12**

Date Collected: 12/18/23 10:20

Matrix: GW

Date Received: 12/18/23 15:18

**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		12/21/23 19:31	12/22/23 19:26	1
<b>Arsenic</b>	<b>0.0016</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:26	1
<b>Barium</b>	<b>0.049</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 17:26	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 17:02	1
<b>Boron</b>	<b>0.23</b>		0.050		mg/L		12/21/23 19:31	01/08/24 16:26	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:26	1
<b>Calcium</b>	<b>110</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:26	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:26	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:26	1
<b>Lead</b>	<b>0.00060</b>		0.00050		mg/L		12/21/23 19:31	12/29/23 17:26	1
<b>Lithium</b>	<b>0.022</b>		0.010		mg/L		12/21/23 19:31	01/02/24 17:02	1
Molybdenum	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:26	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:26	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:26	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 08:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>620</b>		10		mg/L			12/18/23 19:06	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>36</b>		2.0		mg/L			12/21/23 18:36	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.22</b>		0.10		mg/L			12/19/23 19:09	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>220</b>		100		mg/L			01/02/24 13:23	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	72.09				ft			12/18/23 10:20	1
Depth to Water (ft from MP)	74.83				ft			12/18/23 10:20	1
Elevation of well (ft from MP)	559.48				ft			12/18/23 10:20	1
Field pH	7.44				SU			12/18/23 10:20	1
Field Temperature	45.3				Degrees F			12/18/23 10:20	1
Ground Water Elevation	484.65				ft			12/18/23 10:20	1
Specific Conductance	956				umhos/cm			12/18/23 10:20	1
Well bottom elevation	445.60				ft			12/18/23 10:20	1
Field Turbidity	76.40				NTU			12/18/23 10:20	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G47S**

**Lab Sample ID: 500-243693-13**

Date Collected: 12/18/23 11:31

Matrix: GW

Date Received: 12/18/23 15:18

**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		12/21/23 19:31	12/22/23 19:29	1
<b>Arsenic</b>	<b>0.038</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:29	1
<b>Barium</b>	<b>0.013</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 17:29	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 17:05	1
<b>Boron</b>	<b>7.1</b>		0.50		mg/L		12/21/23 19:31	01/08/24 16:30	10
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:29	1
<b>Calcium</b>	<b>11</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:29	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:29	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:29	1
Lead	<0.00050		0.00050		mg/L		12/21/23 19:31	12/29/23 17:29	1
<b>Lithium</b>	<b>0.054</b>		0.010		mg/L		12/21/23 19:31	01/02/24 17:05	1
<b>Molybdenum</b>	<b>0.55</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 19:29	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:29	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:29	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 08:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>980</b>		10		mg/L			12/18/23 19:12	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>110</b>		20		mg/L			12/21/23 19:00	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.59</b>		0.10		mg/L			12/19/23 19:24	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>470</b>		250		mg/L			01/02/24 13:21	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>93.32</b>				ft			12/18/23 11:31	1
<b>Depth to Water (ft from MP)</b>	<b>95.82</b>				ft			12/18/23 11:31	1
<b>Elevation of well (ft from MP)</b>	<b>612.23</b>				ft			12/18/23 11:31	1
<b>Field pH</b>	<b>8.52</b>				SU			12/18/23 11:31	1
<b>Field Temperature</b>	<b>47.3</b>				Degrees F			12/18/23 11:31	1
<b>Ground Water Elevation</b>	<b>516.41</b>				ft			12/18/23 11:31	1
<b>Specific Conductance</b>	<b>1580</b>				umhos/cm			12/18/23 11:31	1
<b>Well bottom elevation</b>	<b>459.84</b>				ft			12/18/23 11:31	1
<b>Field Turbidity</b>	<b>1.15</b>				NTU			12/18/23 11:31	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G48S**

**Lab Sample ID: 500-243693-14**

Date Collected: 12/18/23 12:45

Matrix: GW

Date Received: 12/18/23 15:18

**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		12/21/23 19:31	12/22/23 19:33	1
<b>Arsenic</b>	<b>0.012</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:33	1
<b>Barium</b>	<b>0.019</b>		0.0025		mg/L		12/21/23 19:31	12/29/23 17:33	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 17:09	1
<b>Boron</b>	<b>5.8</b>		0.50		mg/L		12/21/23 19:31	01/08/24 16:34	10
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:33	1
<b>Calcium</b>	<b>27</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:33	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:33	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:33	1
Lead	<0.00050		0.00050		mg/L		12/21/23 19:31	12/29/23 17:33	1
<b>Lithium</b>	<b>0.024</b>		0.010		mg/L		12/21/23 19:31	01/02/24 17:09	1
<b>Molybdenum</b>	<b>0.35</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 19:33	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:33	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:33	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 08:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>910</b>		10		mg/L			12/18/23 19:15	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>110</b>		20		mg/L			12/21/23 19:00	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.88</b>		0.10		mg/L			12/19/23 19:28	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>390</b>		100		mg/L			01/02/24 12:45	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>102.26</b>				ft			12/18/23 12:45	1
<b>Depth to Water (ft from MP)</b>	<b>104.71</b>				ft			12/18/23 12:45	1
<b>Elevation of well (ft from MP)</b>	<b>620.77</b>				ft			12/18/23 12:45	1
<b>Field pH</b>	<b>8.11</b>				SU			12/18/23 12:45	1
<b>Field Temperature</b>	<b>48.4</b>				Degrees F			12/18/23 12:45	1
<b>Ground Water Elevation</b>	<b>516.06</b>				ft			12/18/23 12:45	1
<b>Specific Conductance</b>	<b>1434</b>				umhos/cm			12/18/23 12:45	1
<b>Well bottom elevation</b>	<b>468.32</b>				ft			12/18/23 12:45	1
<b>Field Turbidity</b>	<b>2.61</b>				NTU			12/18/23 12:45	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: T12S**

**Lab Sample ID: 500-243693-15**

Date Collected: 12/18/23 14:04

Matrix: Water

Date Received: 12/18/23 15:18

**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		12/21/23 19:31	12/22/23 19:44	1
<b>Arsenic</b>	<b>0.034</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:44	1
<b>Barium</b>	<b>0.098</b>		0.0025		mg/L		12/21/23 19:31	12/22/23 19:44	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:44	1
<b>Boron</b>	<b>7.7</b>		0.50		mg/L		12/21/23 19:31	01/08/24 17:00	10
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:44	1
<b>Calcium</b>	<b>120</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:36	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:44	1
<b>Cobalt</b>	<b>0.0023</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:44	1
<b>Lead</b>	<b>0.0025</b>		0.00050		mg/L		12/21/23 19:31	12/29/23 17:36	1
<b>Lithium</b>	<b>0.15</b>		0.010		mg/L		12/21/23 19:31	01/02/24 17:38	1
<b>Molybdenum</b>	<b>0.53</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 19:44	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:44	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:36	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 08:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>740</b>		10		mg/L			12/18/23 19:18	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>75</b>		4.0		mg/L			12/21/23 19:00	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.14</b>		0.10		mg/L			12/19/23 19:41	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>330</b>		100		mg/L			01/02/24 12:45	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	72.01				ft			12/18/23 14:04	1
Depth to Water (ft from MP)	74.75				ft			12/18/23 14:04	1
Elevation of well (ft from MP)	578.74				ft			12/18/23 14:04	1
Field pH	7.69				SU			12/18/23 14:04	1
Field Temperature	52.3				Degrees F			12/18/23 14:04	1
Ground Water Elevation	503.99				ft			12/18/23 14:04	1
Specific Conductance	1132				umhos/cm			12/18/23 14:04	1
Well bottom elevation	452.24				ft			12/18/23 14:04	1
Field Turbidity	87.30				NTU			12/18/23 14:04	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G30S**

**Lab Sample ID: 500-243693-16**

Date Collected: 12/19/23 09:08

Matrix: GW

Date Received: 12/19/23 15:07

**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		12/21/23 19:31	12/22/23 19:48	1
<b>Arsenic</b>	<b>0.0069</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:48	1
<b>Barium</b>	<b>0.047</b>		0.0025		mg/L		12/21/23 19:31	12/22/23 19:48	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:48	1
<b>Boron</b>	<b>5.1</b>		0.50		mg/L		12/21/23 19:31	01/08/24 17:04	10
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:48	1
<b>Calcium</b>	<b>64</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:39	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:48	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:48	1
<b>Lead</b>	<b>0.00072</b>		0.00050		mg/L		12/21/23 19:31	12/29/23 17:39	1
<b>Lithium</b>	<b>0.021</b>		0.010		mg/L		12/21/23 19:31	01/02/24 17:42	1
<b>Molybdenum</b>	<b>0.015</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 19:48	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:48	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:39	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 08:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1200</b>		10		mg/L			12/19/23 20:54	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>210</b>		20		mg/L			12/21/23 19:00	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.88</b>		0.10		mg/L			01/03/24 10:56	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>480</b>		250		mg/L			01/02/24 13:21	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	-0.21				ft			12/19/23 09:08	1
Depth to Water (ft from MP)	2.10				ft			12/19/23 09:08	1
Elevation of well (ft from MP)	524.86				ft			12/19/23 09:08	1
Field pH	7.88				SU			12/19/23 09:08	1
Field Temperature	38.5				Degrees F			12/19/23 09:08	1
Ground Water Elevation	522.76				ft			12/19/23 09:08	1
Specific Conductance	1890				umhos/cm			12/19/23 09:08	1
Well bottom elevation	462.58				ft			12/19/23 09:08	1
Field Turbidity	3.05				NTU			12/19/23 09:08	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: R32S**

**Lab Sample ID: 500-243693-17**

Date Collected: 12/19/23 11:01

Matrix: GW

Date Received: 12/19/23 15:07

**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		12/21/23 19:31	12/22/23 19:52	1
Arsenic	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:52	1
<b>Barium</b>	<b>0.027</b>		0.0025		mg/L		12/21/23 19:31	12/22/23 19:52	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:52	1
<b>Boron</b>	<b>0.48</b>		0.050		mg/L		12/21/23 19:31	01/08/24 16:45	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:52	1
<b>Calcium</b>	<b>88</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:43	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:52	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:52	1
Lead	<0.00050		0.00050		mg/L		12/21/23 19:31	12/29/23 17:43	1
<b>Lithium</b>	<b>0.025</b>		0.010		mg/L		12/21/23 19:31	01/02/24 17:45	1
<b>Molybdenum</b>	<b>0.031</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 19:52	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:52	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:43	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 08:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>780</b>		10		mg/L			12/19/23 21:03	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>43</b>		2.0		mg/L			12/21/23 18:36	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.28</b>		0.10		mg/L			01/03/24 10:33	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>350</b>		100		mg/L			01/02/24 12:45	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>20.71</b>				ft			12/19/23 11:01	1
<b>Depth to Water (ft from MP)</b>	<b>22.74</b>				ft			12/19/23 11:01	1
<b>Elevation of well (ft from MP)</b>	<b>536.97</b>				ft			12/19/23 11:01	1
<b>Field pH</b>	<b>7.43</b>				SU			12/19/23 11:01	1
<b>Field Temperature</b>	<b>51.4</b>				Degrees F			12/19/23 11:01	1
<b>Ground Water Elevation</b>	<b>514.23</b>				ft			12/19/23 11:01	1
<b>Specific Conductance</b>	<b>783</b>				umhos/cm			12/19/23 11:01	1
<b>Well bottom elevation</b>	<b>457.84</b>				ft			12/19/23 11:01	1
<b>Field Turbidity</b>	<b>2.10</b>				NTU			12/19/23 11:01	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: T13S**

**Lab Sample ID: 500-243693-18**

Date Collected: 12/19/23 12:08

Matrix: Water

Date Received: 12/19/23 15:07

**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		12/21/23 19:31	12/22/23 19:56	1
<b>Arsenic</b>	<b>0.0048</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:56	1
<b>Barium</b>	<b>0.067</b>		0.0025		mg/L		12/21/23 19:31	12/22/23 19:56	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 19:56	1
<b>Boron</b>	<b>0.37</b>		0.050		mg/L		12/21/23 19:31	01/08/24 16:49	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 19:56	1
<b>Calcium</b>	<b>96</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:46	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 19:56	1
<b>Cobalt</b>	<b>0.0017</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 19:56	1
<b>Lead</b>	<b>0.0017</b>		0.00050		mg/L		12/21/23 19:31	12/29/23 17:46	1
<b>Lithium</b>	<b>0.027</b>		0.010		mg/L		12/21/23 19:31	01/02/24 17:49	1
<b>Molybdenum</b>	<b>0.0065</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 19:56	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 19:56	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:46	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 08:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>570</b>		10		mg/L			12/19/23 21:08	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>38</b>		2.0		mg/L			12/21/23 18:37	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.22</b>		0.10		mg/L			01/03/24 11:00	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>160</b>		50		mg/L			01/02/24 12:44	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	17.55				ft			12/19/23 12:08	1
Depth to Water (ft from MP)	20.31				ft			12/19/23 12:08	1
Elevation of well (ft from MP)	525.33				ft			12/19/23 12:08	1
Field pH	7.37				SU			12/19/23 12:08	1
Field Temperature	51.3				Degrees F			12/19/23 12:08	1
Ground Water Elevation	505.02				ft			12/19/23 12:08	1
Specific Conductance	950				umhos/cm			12/19/23 12:08	1
Well bottom elevation	452.21				ft			12/19/23 12:08	1
Field Turbidity	90.70				NTU			12/19/23 12:08	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: T13S Dup**

**Lab Sample ID: 500-243693-19**

Date Collected: 12/19/23 12:08

Matrix: Water

Date Received: 12/19/23 15:07

**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		12/21/23 19:31	12/22/23 20:00	1
<b>Arsenic</b>	<b>0.0044</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 20:00	1
<b>Barium</b>	<b>0.065</b>		0.0025		mg/L		12/21/23 19:31	12/22/23 20:00	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 20:00	1
<b>Boron</b>	<b>0.38</b>		0.050		mg/L		12/21/23 19:31	01/08/24 16:53	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 20:00	1
<b>Calcium</b>	<b>98</b>		0.20		mg/L		12/21/23 19:31	12/29/23 17:57	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 20:00	1
<b>Cobalt</b>	<b>0.0016</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 20:00	1
<b>Lead</b>	<b>0.0016</b>		0.00050		mg/L		12/21/23 19:31	12/29/23 17:57	1
<b>Lithium</b>	<b>0.026</b>		0.010		mg/L		12/21/23 19:31	01/02/24 17:53	1
<b>Molybdenum</b>	<b>0.0066</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 20:00	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 20:00	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 17:57	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/28/23 14:20	12/29/23 07:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>580</b>		10		mg/L			12/19/23 21:11	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>39</b>		2.0		mg/L			12/21/23 18:37	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.28</b>		0.10		mg/L			01/03/24 11:04	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>170</b>		50		mg/L			01/02/24 12:44	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>17.55</b>				ft			12/19/23 12:08	1
<b>Depth to Water (ft from MP)</b>	<b>20.31</b>				ft			12/19/23 12:08	1
<b>Elevation of well (ft from MP)</b>	<b>525.33</b>				ft			12/19/23 12:08	1
<b>Field pH</b>	<b>7.37</b>				SU			12/19/23 12:08	1
<b>Field Temperature</b>	<b>51.3</b>				Degrees F			12/19/23 12:08	1
<b>Ground Water Elevation</b>	<b>505.02</b>				ft			12/19/23 12:08	1
<b>Specific Conductance</b>	<b>950</b>				umhos/cm			12/19/23 12:08	1
<b>Well bottom elevation</b>	<b>452.21</b>				ft			12/19/23 12:08	1
<b>Field Turbidity</b>	<b>90.70</b>				NTU			12/19/23 12:08	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G44S**

**Lab Sample ID: 500-243693-20**

Date Collected: 12/19/23 13:39

Matrix: Water

Date Received: 12/19/23 15:07

**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		12/21/23 19:31	12/22/23 20:03	1
<b>Arsenic</b>	<b>0.0011</b>		0.0010		mg/L		12/21/23 19:31	12/22/23 20:03	1
<b>Barium</b>	<b>0.067</b>		0.0025		mg/L		12/21/23 19:31	12/22/23 20:03	1
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 20:03	1
<b>Boron</b>	<b>1.6</b>		0.050		mg/L		12/21/23 19:31	01/08/24 16:56	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 20:03	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		12/21/23 19:31	12/29/23 18:00	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 20:03	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 20:03	1
Lead	<0.00050		0.00050		mg/L		12/21/23 19:31	12/29/23 18:00	1
<b>Lithium</b>	<b>0.023</b>		0.010		mg/L		12/21/23 19:31	01/02/24 17:57	1
<b>Molybdenum</b>	<b>0.17</b>		0.0050		mg/L		12/21/23 19:31	12/22/23 20:03	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 20:03	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 18:00	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/28/23 14:20	12/29/23 07:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>750</b>		10		mg/L			12/19/23 21:14	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>63</b>		4.0		mg/L			12/21/23 19:01	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.20</b>		0.10		mg/L			01/03/24 11:22	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>170</b>		50		mg/L			01/02/24 12:44	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	81.27				ft			12/19/23 13:39	1
Depth to Water (ft from MP)	83.45				ft			12/19/23 13:39	1
Elevation of well (ft from MP)	586.68				ft			12/19/23 13:39	1
Field pH	7.24				SU			12/19/23 13:39	1
Field Temperature	51.4				Degrees F			12/19/23 13:39	1
Ground Water Elevation	503.23				ft			12/19/23 13:39	1
Specific Conductance	1145				umhos/cm			12/19/23 13:39	1
Well bottom elevation	455.11				ft			12/19/23 13:39	1
Field Turbidity	12.60				NTU			12/19/23 13:39	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G46S**

**Lab Sample ID: 500-243693-21**

Date Collected: 12/20/23 09:42

Matrix: Water

Date Received: 12/20/23 12:35

**Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030		mg/L		12/22/23 09:26	01/03/24 20:05	1
<b>Arsenic</b>	<b>0.051</b>		0.0010		mg/L		12/22/23 09:26	01/03/24 20:05	1
<b>Barium</b>	<b>0.057</b>		0.0025		mg/L		12/22/23 09:26	01/03/24 20:05	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/22/23 09:26	01/05/24 17:22	1
<b>Boron</b>	<b>10</b>		0.50		mg/L		12/22/23 09:26	01/08/24 17:38	10
Cadmium	<0.00050		0.00050		mg/L		12/22/23 09:26	01/03/24 20:05	1
<b>Calcium</b>	<b>120</b>		0.20		mg/L		12/22/23 09:26	01/05/24 17:22	1
Chromium	<0.0050		0.0050		mg/L		12/22/23 09:26	01/03/24 20:05	1
Cobalt	<0.0010		0.0010		mg/L		12/22/23 09:26	01/03/24 20:05	1
Lead	<0.00050		0.00050		mg/L		12/22/23 09:26	01/03/24 20:05	1
<b>Lithium</b>	<b>0.18</b>		0.010		mg/L		12/22/23 09:26	01/08/24 17:23	1
<b>Molybdenum</b>	<b>1.1</b>		0.0050		mg/L		12/22/23 09:26	01/03/24 20:05	1
Selenium	<0.0025		0.0025		mg/L		12/22/23 09:26	01/05/24 17:22	1
Thallium	<0.0020		0.0020		mg/L		12/22/23 09:26	01/05/24 17:22	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/28/23 14:20	12/29/23 07:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>980</b>		10		mg/L			12/20/23 21:00	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>69</b>		4.0		mg/L			12/28/23 11:07	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.23</b>		0.10		mg/L			01/03/24 11:26	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>490</b>		250		mg/L			01/02/24 13:21	50

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	106.78				ft			12/20/23 09:42	1
Depth to Water (ft from MP)	109.48				ft			12/20/23 09:42	1
Elevation of well (ft from MP)	601.41				ft			12/20/23 09:42	1
Field pH	7.48				SU			12/20/23 09:42	1
Field Temperature	54.0				Degrees F			12/20/23 09:42	1
Ground Water Elevation	491.93				ft			12/20/23 09:42	1
Specific Conductance	1345				umhos/cm			12/20/23 09:42	1
Well bottom elevation	453.62				ft			12/20/23 09:42	1
Field Turbidity	58.70				NTU			12/20/23 09:42	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: R08S**

**Lab Sample ID: 500-243693-22**

Date Collected: 12/20/23 10:37

Matrix: Water

Date Received: 12/20/23 12:35

**Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030		mg/L		12/22/23 09:26	01/03/24 20:09	1
<b>Arsenic</b>	<b>0.0013</b>		0.0010		mg/L		12/22/23 09:26	01/03/24 20:09	1
<b>Barium</b>	<b>0.043</b>		0.0025		mg/L		12/22/23 09:26	01/03/24 20:09	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/22/23 09:26	01/05/24 17:26	1
<b>Boron</b>	<b>8.5</b>		0.50		mg/L		12/22/23 09:26	01/08/24 17:42	10
Cadmium	<0.00050		0.00050		mg/L		12/22/23 09:26	01/03/24 20:09	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		12/22/23 09:26	01/05/24 17:26	1
Chromium	<0.0050		0.0050		mg/L		12/22/23 09:26	01/03/24 20:09	1
Cobalt	<0.0010		0.0010		mg/L		12/22/23 09:26	01/03/24 20:09	1
Lead	<0.00050		0.00050		mg/L		12/22/23 09:26	01/03/24 20:09	1
<b>Lithium</b>	<b>0.14</b>		0.010		mg/L		12/22/23 09:26	01/08/24 17:27	1
<b>Molybdenum</b>	<b>0.34</b>		0.0050		mg/L		12/22/23 09:26	01/03/24 20:09	1
<b>Selenium</b>	<b>0.0066</b>		0.0025		mg/L		12/22/23 09:26	01/05/24 17:26	1
Thallium	<0.0020		0.0020		mg/L		12/22/23 09:26	01/05/24 17:26	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/28/23 14:20	12/29/23 07:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>800</b>		10		mg/L			12/20/23 21:07	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>75</b>		4.0		mg/L			12/28/23 11:08	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.11</b>		0.10		mg/L			01/03/24 11:31	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>390</b>		100		mg/L			01/02/24 12:43	20

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	68.44				ft			12/20/23 10:37	1
Depth to Water (ft from MP)	70.99				ft			12/20/23 10:37	1
Elevation of well (ft from MP)	578.66				ft			12/20/23 10:37	1
Field pH	7.79				SU			12/20/23 10:37	1
Field Temperature	53.1				Degrees F			12/20/23 10:37	1
Ground Water Elevation	507.67				ft			12/20/23 10:37	1
Specific Conductance	1052				umhos/cm			12/20/23 10:37	1
Well bottom elevation	453.08				ft			12/20/23 10:37	1
Field Turbidity	3.33				NTU			12/20/23 10:37	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G45S**

**Lab Sample ID: 500-243693-23**

Date Collected: 12/20/23 11:29

Matrix: Water

Date Received: 12/20/23 12:35

**Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030		mg/L		12/22/23 09:26	01/03/24 20:13	1
<b>Arsenic</b>	<b>0.010</b>		0.0010		mg/L		12/22/23 09:26	01/03/24 20:13	1
<b>Barium</b>	<b>0.036</b>		0.0025		mg/L		12/22/23 09:26	01/03/24 20:13	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/22/23 09:26	01/05/24 17:29	1
<b>Boron</b>	<b>0.50</b>		0.050		mg/L		12/22/23 09:26	01/08/24 17:31	1
Cadmium	<0.00050		0.00050		mg/L		12/22/23 09:26	01/03/24 20:13	1
<b>Calcium</b>	<b>81</b>		0.20		mg/L		12/22/23 09:26	01/05/24 17:29	1
Chromium	<0.0050		0.0050		mg/L		12/22/23 09:26	01/03/24 20:13	1
Cobalt	<0.0010		0.0010		mg/L		12/22/23 09:26	01/03/24 20:13	1
Lead	<0.00050		0.00050		mg/L		12/22/23 09:26	01/03/24 20:13	1
<b>Lithium</b>	<b>0.028</b>		0.010		mg/L		12/22/23 09:26	01/08/24 17:31	1
<b>Molybdenum</b>	<b>0.012</b>		0.0050		mg/L		12/22/23 09:26	01/03/24 20:13	1
Selenium	<0.0025		0.0025		mg/L		12/22/23 09:26	01/05/24 17:29	1
Thallium	<0.0020		0.0020		mg/L		12/22/23 09:26	01/05/24 17:29	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/28/23 14:20	12/29/23 08:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>680</b>		10		mg/L			12/20/23 21:13	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		20		mg/L			12/28/23 11:09	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.35</b>		0.10		mg/L			01/03/24 11:36	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>160</b>		50		mg/L			01/02/24 12:47	10

**Method: EPA Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	63.48				ft			12/20/23 11:29	1
Depth to Water (ft from MP)	66.45				ft			12/20/23 11:29	1
Elevation of well (ft from MP)	603.80				ft			12/20/23 11:29	1
Field pH	7.48				SU			12/20/23 11:29	1
Field Temperature	54.9				Degrees F			12/20/23 11:29	1
Ground Water Elevation	537.35				ft			12/20/23 11:29	1
Specific Conductance	1003				umhos/cm			12/20/23 11:29	1
Well bottom elevation	471.05				ft			12/20/23 11:29	1
Field Turbidity	1.74				NTU			12/20/23 11:29	1

# Definitions/Glossary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## 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.
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.
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 4Q23

Job ID: 500-243693-1

## Metals

### Prep Batch: 747852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-1	G20S	Total Recoverable	Water	3005A	
500-243693-2	G31S	Total Recoverable	Water	3005A	
500-243693-3	T02S	Total Recoverable	Water	3005A	
500-243693-4	T03S	Total Recoverable	GW	3005A	
500-243693-5	T09S	Total Recoverable	Water	3005A	
500-243693-6	T01S	Total Recoverable	Water	3005A	
500-243693-7	T08S	Total Recoverable	Water	3005A	
500-243693-8	T06S	Total Recoverable	Water	3005A	
500-243693-9	T05S	Total Recoverable	Water	3005A	
500-243693-10	G33S	Total Recoverable	Water	3005A	
500-243693-11	G39S	Total Recoverable	Water	3005A	
500-243693-12	T11S	Total Recoverable	GW	3005A	
500-243693-13	G47S	Total Recoverable	GW	3005A	
500-243693-14	G48S	Total Recoverable	GW	3005A	
500-243693-15	T12S	Total Recoverable	Water	3005A	
500-243693-16	G30S	Total Recoverable	GW	3005A	
500-243693-17	R32S	Total Recoverable	GW	3005A	
500-243693-18	T13S	Total Recoverable	Water	3005A	
500-243693-19	T13S Dup	Total Recoverable	Water	3005A	
500-243693-20	G44S	Total Recoverable	Water	3005A	
MB 500-747852/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-747852/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-243693-1 MS	G20S	Total Recoverable	Water	3005A	
500-243693-1 MSD	G20S	Total Recoverable	Water	3005A	
500-243693-1 DU	G20S	Total Recoverable	Water	3005A	

### Prep Batch: 747992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-21	G46S	Total Recoverable	Water	3005A	
500-243693-22	R08S	Total Recoverable	Water	3005A	
500-243693-23	G45S	Total Recoverable	Water	3005A	
MB 500-747992/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-747992/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 748249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-1	G20S	Total/NA	Water	7470A	
500-243693-2	G31S	Total/NA	Water	7470A	
500-243693-3	T02S	Total/NA	Water	7470A	
500-243693-4	T03S	Total/NA	GW	7470A	
500-243693-5	T09S	Total/NA	Water	7470A	
500-243693-6	T01S	Total/NA	Water	7470A	
500-243693-7	T08S	Total/NA	Water	7470A	
500-243693-8	T06S	Total/NA	Water	7470A	
500-243693-9	T05S	Total/NA	Water	7470A	
500-243693-10	G33S	Total/NA	Water	7470A	
500-243693-11	G39S	Total/NA	Water	7470A	
500-243693-12	T11S	Total/NA	GW	7470A	
500-243693-13	G47S	Total/NA	GW	7470A	
500-243693-14	G48S	Total/NA	GW	7470A	
500-243693-15	T12S	Total/NA	Water	7470A	

# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Metals (Continued)

### Prep Batch: 748249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-16	G30S	Total/NA	GW	7470A	
500-243693-17	R32S	Total/NA	GW	7470A	
500-243693-18	T13S	Total/NA	Water	7470A	
MB 500-748249/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-748249/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-243693-9 MS	T05S	Total/NA	Water	7470A	
500-243693-9 MSD	T05S	Total/NA	Water	7470A	
500-243693-9 DU	T05S	Total/NA	Water	7470A	

### Analysis Batch: 748389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-1	G20S	Total/NA	Water	7470A	748249
500-243693-2	G31S	Total/NA	Water	7470A	748249
500-243693-3	T02S	Total/NA	Water	7470A	748249
500-243693-4	T03S	Total/NA	GW	7470A	748249
500-243693-5	T09S	Total/NA	Water	7470A	748249
500-243693-6	T01S	Total/NA	Water	7470A	748249
500-243693-7	T08S	Total/NA	Water	7470A	748249
500-243693-8	T06S	Total/NA	Water	7470A	748249
500-243693-9	T05S	Total/NA	Water	7470A	748249
500-243693-10	G33S	Total/NA	Water	7470A	748249
500-243693-11	G39S	Total/NA	Water	7470A	748249
500-243693-12	T11S	Total/NA	GW	7470A	748249
500-243693-13	G47S	Total/NA	GW	7470A	748249
500-243693-14	G48S	Total/NA	GW	7470A	748249
500-243693-15	T12S	Total/NA	Water	7470A	748249
500-243693-16	G30S	Total/NA	GW	7470A	748249
500-243693-17	R32S	Total/NA	GW	7470A	748249
500-243693-18	T13S	Total/NA	Water	7470A	748249
MB 500-748249/12-A	Method Blank	Total/NA	Water	7470A	748249
LCS 500-748249/13-A	Lab Control Sample	Total/NA	Water	7470A	748249
500-243693-9 MS	T05S	Total/NA	Water	7470A	748249
500-243693-9 MSD	T05S	Total/NA	Water	7470A	748249
500-243693-9 DU	T05S	Total/NA	Water	7470A	748249

### Prep Batch: 748407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-19	T13S Dup	Total/NA	Water	7470A	
500-243693-20	G44S	Total/NA	Water	7470A	
500-243693-21	G46S	Total/NA	Water	7470A	
500-243693-22	R08S	Total/NA	Water	7470A	
500-243693-23	G45S	Total/NA	Water	7470A	
MB 500-748407/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-748407/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 748512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-1	G20S	Total Recoverable	Water	6020A	747852
500-243693-2	G31S	Total Recoverable	Water	6020A	747852
500-243693-3	T02S	Total Recoverable	Water	6020A	747852
500-243693-4	T03S	Total Recoverable	GW	6020A	747852

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Metals (Continued)

### Analysis Batch: 748512 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-5	T09S	Total Recoverable	Water	6020A	747852
500-243693-6	T01S	Total Recoverable	Water	6020A	747852
500-243693-7	T08S	Total Recoverable	Water	6020A	747852
500-243693-8	T06S	Total Recoverable	Water	6020A	747852
500-243693-9	T05S	Total Recoverable	Water	6020A	747852
500-243693-10	G33S	Total Recoverable	Water	6020A	747852
500-243693-11	G39S	Total Recoverable	Water	6020A	747852
500-243693-12	T11S	Total Recoverable	GW	6020A	747852
500-243693-13	G47S	Total Recoverable	GW	6020A	747852
500-243693-14	G48S	Total Recoverable	GW	6020A	747852
500-243693-15	T12S	Total Recoverable	Water	6020A	747852
500-243693-16	G30S	Total Recoverable	GW	6020A	747852
500-243693-17	R32S	Total Recoverable	GW	6020A	747852
500-243693-18	T13S	Total Recoverable	Water	6020A	747852
500-243693-19	T13S Dup	Total Recoverable	Water	6020A	747852
500-243693-20	G44S	Total Recoverable	Water	6020A	747852
MB 500-747852/1-A	Method Blank	Total Recoverable	Water	6020A	747852
LCS 500-747852/2-A	Lab Control Sample	Total Recoverable	Water	6020A	747852
500-243693-1 MS	G20S	Total Recoverable	Water	6020A	747852
500-243693-1 MSD	G20S	Total Recoverable	Water	6020A	747852
500-243693-1 DU	G20S	Total Recoverable	Water	6020A	747852

### Analysis Batch: 748531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-19	T13S Dup	Total/NA	Water	7470A	748407
500-243693-20	G44S	Total/NA	Water	7470A	748407
500-243693-21	G46S	Total/NA	Water	7470A	748407
500-243693-22	R08S	Total/NA	Water	7470A	748407
500-243693-23	G45S	Total/NA	Water	7470A	748407
MB 500-748407/12-A	Method Blank	Total/NA	Water	7470A	748407
LCS 500-748407/13-A	Lab Control Sample	Total/NA	Water	7470A	748407

### Analysis Batch: 748679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-1	G20S	Total Recoverable	Water	6020A	747852
500-243693-2	G31S	Total Recoverable	Water	6020A	747852
500-243693-3	T02S	Total Recoverable	Water	6020A	747852
500-243693-4	T03S	Total Recoverable	GW	6020A	747852
500-243693-5	T09S	Total Recoverable	Water	6020A	747852
500-243693-6	T01S	Total Recoverable	Water	6020A	747852
500-243693-7	T08S	Total Recoverable	Water	6020A	747852
500-243693-8	T06S	Total Recoverable	Water	6020A	747852
500-243693-9	T05S	Total Recoverable	Water	6020A	747852
500-243693-10	G33S	Total Recoverable	Water	6020A	747852
500-243693-11	G39S	Total Recoverable	Water	6020A	747852
500-243693-12	T11S	Total Recoverable	GW	6020A	747852
500-243693-13	G47S	Total Recoverable	GW	6020A	747852
500-243693-14	G48S	Total Recoverable	GW	6020A	747852
500-243693-15	T12S	Total Recoverable	Water	6020A	747852
500-243693-16	G30S	Total Recoverable	GW	6020A	747852
500-243693-17	R32S	Total Recoverable	GW	6020A	747852

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Metals (Continued)

### Analysis Batch: 748679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-18	T13S	Total Recoverable	Water	6020A	747852
500-243693-19	T13S Dup	Total Recoverable	Water	6020A	747852
500-243693-20	G44S	Total Recoverable	Water	6020A	747852
MB 500-747852/1-A	Method Blank	Total Recoverable	Water	6020A	747852
LCS 500-747852/2-A	Lab Control Sample	Total Recoverable	Water	6020A	747852
500-243693-1 MS	G20S	Total Recoverable	Water	6020A	747852
500-243693-1 MSD	G20S	Total Recoverable	Water	6020A	747852
500-243693-1 DU	G20S	Total Recoverable	Water	6020A	747852

### Analysis Batch: 748874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-1	G20S	Total Recoverable	Water	6020A	747852
500-243693-2	G31S	Total Recoverable	Water	6020A	747852
500-243693-3	T02S	Total Recoverable	Water	6020A	747852
500-243693-4	T03S	Total Recoverable	GW	6020A	747852
500-243693-5	T09S	Total Recoverable	Water	6020A	747852
500-243693-6	T01S	Total Recoverable	Water	6020A	747852
500-243693-7	T08S	Total Recoverable	Water	6020A	747852
500-243693-8	T06S	Total Recoverable	Water	6020A	747852
500-243693-9	T05S	Total Recoverable	Water	6020A	747852
500-243693-10	G33S	Total Recoverable	Water	6020A	747852
500-243693-11	G39S	Total Recoverable	Water	6020A	747852
500-243693-12	T11S	Total Recoverable	GW	6020A	747852
500-243693-13	G47S	Total Recoverable	GW	6020A	747852
500-243693-14	G48S	Total Recoverable	GW	6020A	747852
500-243693-15	T12S	Total Recoverable	Water	6020A	747852
500-243693-16	G30S	Total Recoverable	GW	6020A	747852
500-243693-17	R32S	Total Recoverable	GW	6020A	747852
500-243693-18	T13S	Total Recoverable	Water	6020A	747852
500-243693-19	T13S Dup	Total Recoverable	Water	6020A	747852
500-243693-20	G44S	Total Recoverable	Water	6020A	747852
MB 500-747852/1-A	Method Blank	Total Recoverable	Water	6020A	747852
LCS 500-747852/2-A	Lab Control Sample	Total Recoverable	Water	6020A	747852
500-243693-1 MS	G20S	Total Recoverable	Water	6020A	747852
500-243693-1 MSD	G20S	Total Recoverable	Water	6020A	747852
500-243693-1 DU	G20S	Total Recoverable	Water	6020A	747852

### Analysis Batch: 749056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-21	G46S	Total Recoverable	Water	6020A	747992
500-243693-22	R08S	Total Recoverable	Water	6020A	747992
500-243693-23	G45S	Total Recoverable	Water	6020A	747992
MB 500-747992/1-A	Method Blank	Total Recoverable	Water	6020A	747992
LCS 500-747992/2-A	Lab Control Sample	Total Recoverable	Water	6020A	747992

### Analysis Batch: 749452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-21	G46S	Total Recoverable	Water	6020A	747992
500-243693-22	R08S	Total Recoverable	Water	6020A	747992
500-243693-23	G45S	Total Recoverable	Water	6020A	747992
MB 500-747992/1-A	Method Blank	Total Recoverable	Water	6020A	747992

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Metals (Continued)

### Analysis Batch: 749452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-747992/2-A	Lab Control Sample	Total Recoverable	Water	6020A	747992

### Analysis Batch: 749594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-3	T02S	Total Recoverable	Water	6020A	747852
500-243693-4	T03S	Total Recoverable	GW	6020A	747852
500-243693-5	T09S	Total Recoverable	Water	6020A	747852
500-243693-6	T01S	Total Recoverable	Water	6020A	747852
500-243693-7	T08S	Total Recoverable	Water	6020A	747852
500-243693-8	T06S	Total Recoverable	Water	6020A	747852
500-243693-9	T05S	Total Recoverable	Water	6020A	747852
500-243693-10	G33S	Total Recoverable	Water	6020A	747852
500-243693-11	G39S	Total Recoverable	Water	6020A	747852
500-243693-12	T11S	Total Recoverable	GW	6020A	747852
500-243693-13	G47S	Total Recoverable	GW	6020A	747852
500-243693-14	G48S	Total Recoverable	GW	6020A	747852
500-243693-15	T12S	Total Recoverable	Water	6020A	747852
500-243693-16	G30S	Total Recoverable	GW	6020A	747852
500-243693-17	R32S	Total Recoverable	GW	6020A	747852
500-243693-18	T13S	Total Recoverable	Water	6020A	747852
500-243693-19	T13S Dup	Total Recoverable	Water	6020A	747852
500-243693-20	G44S	Total Recoverable	Water	6020A	747852
500-243693-21	G46S	Total Recoverable	Water	6020A	747992
500-243693-21	G46S	Total Recoverable	Water	6020A	747992
500-243693-22	R08S	Total Recoverable	Water	6020A	747992
500-243693-22	R08S	Total Recoverable	Water	6020A	747992
500-243693-23	G45S	Total Recoverable	Water	6020A	747992

## General Chemistry

### Analysis Batch: 746384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-1	G20S	Total/NA	Water	SM 2540C	
500-243693-2	G31S	Total/NA	Water	SM 2540C	
500-243693-3	T02S	Total/NA	Water	SM 2540C	
500-243693-4	T03S	Total/NA	GW	SM 2540C	
500-243693-5	T09S	Total/NA	Water	SM 2540C	
MB 500-746384/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-746384/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 747027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-6	T01S	Total/NA	Water	SM 2540C	
500-243693-7	T08S	Total/NA	Water	SM 2540C	
500-243693-8	T06S	Total/NA	Water	SM 2540C	
500-243693-9	T05S	Total/NA	Water	SM 2540C	
500-243693-10	G33S	Total/NA	Water	SM 2540C	
MB 500-747027/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-747027/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-243693-6 MS	T01S	Total/NA	Water	SM 2540C	
500-243693-6 DU	T01S	Total/NA	Water	SM 2540C	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## General Chemistry (Continued)

### Analysis Batch: 747027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-7 DU	T08S	Total/NA	Water	SM 2540C	

### Analysis Batch: 747082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-1	G20S	Total/NA	Water	SM 4500 CI- E	
500-243693-2	G31S	Total/NA	Water	SM 4500 CI- E	
500-243693-3	T02S	Total/NA	Water	SM 4500 CI- E	
500-243693-4	T03S	Total/NA	GW	SM 4500 CI- E	
500-243693-5	T09S	Total/NA	Water	SM 4500 CI- E	
500-243693-6	T01S	Total/NA	Water	SM 4500 CI- E	
500-243693-7	T08S	Total/NA	Water	SM 4500 CI- E	
500-243693-8	T06S	Total/NA	Water	SM 4500 CI- E	
500-243693-9	T05S	Total/NA	Water	SM 4500 CI- E	
500-243693-10	G33S	Total/NA	Water	SM 4500 CI- E	
MB 500-747082/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
MB 500-747082/66	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-747082/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
LCS 500-747082/67	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 747193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-11	G39S	Total/NA	Water	SM 2540C	
500-243693-12	T11S	Total/NA	GW	SM 2540C	
500-243693-13	G47S	Total/NA	GW	SM 2540C	
500-243693-14	G48S	Total/NA	GW	SM 2540C	
500-243693-15	T12S	Total/NA	Water	SM 2540C	
MB 500-747193/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-747193/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-243693-11 MS	G39S	Total/NA	Water	SM 2540C	
500-243693-11 DU	G39S	Total/NA	Water	SM 2540C	
500-243693-12 DU	T11S	Total/NA	GW	SM 2540C	

### Analysis Batch: 747450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-16	G30S	Total/NA	GW	SM 2540C	
500-243693-17	R32S	Total/NA	GW	SM 2540C	
500-243693-18	T13S	Total/NA	Water	SM 2540C	
500-243693-19	T13S Dup	Total/NA	Water	SM 2540C	
500-243693-20	G44S	Total/NA	Water	SM 2540C	
MB 500-747450/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-747450/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-243693-16 MS	G30S	Total/NA	GW	SM 2540C	
500-243693-16 DU	G30S	Total/NA	GW	SM 2540C	
500-243693-17 DU	R32S	Total/NA	GW	SM 2540C	

### Analysis Batch: 747509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-1	G20S	Total/NA	Water	SM 4500 F C	
500-243693-2	G31S	Total/NA	Water	SM 4500 F C	
500-243693-3	T02S	Total/NA	Water	SM 4500 F C	
500-243693-4	T03S	Total/NA	GW	SM 4500 F C	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## General Chemistry (Continued)

### Analysis Batch: 747509 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-5	T09S	Total/NA	Water	SM 4500 F C	
500-243693-6	T01S	Total/NA	Water	SM 4500 F C	
500-243693-7	T08S	Total/NA	Water	SM 4500 F C	
500-243693-8	T06S	Total/NA	Water	SM 4500 F C	
500-243693-9	T05S	Total/NA	Water	SM 4500 F C	
500-243693-10	G33S	Total/NA	Water	SM 4500 F C	
500-243693-11	G39S	Total/NA	Water	SM 4500 F C	
500-243693-12	T11S	Total/NA	GW	SM 4500 F C	
500-243693-13	G47S	Total/NA	GW	SM 4500 F C	
500-243693-14	G48S	Total/NA	GW	SM 4500 F C	
500-243693-15	T12S	Total/NA	Water	SM 4500 F C	
MB 500-747509/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-747509/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-747509/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-747509/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-243693-14 MS	G48S	Total/NA	GW	SM 4500 F C	
500-243693-14 MSD	G48S	Total/NA	GW	SM 4500 F C	

### Analysis Batch: 747668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-21	G46S	Total/NA	Water	SM 2540C	
500-243693-22	R08S	Total/NA	Water	SM 2540C	
500-243693-23	G45S	Total/NA	Water	SM 2540C	
MB 500-747668/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-747668/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-243693-21 MS	G46S	Total/NA	Water	SM 2540C	
500-243693-21 DU	G46S	Total/NA	Water	SM 2540C	
500-243693-22 DU	R08S	Total/NA	Water	SM 2540C	

### Analysis Batch: 747850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-11	G39S	Total/NA	Water	SM 4500 CI- E	
500-243693-12	T11S	Total/NA	GW	SM 4500 CI- E	
500-243693-13	G47S	Total/NA	GW	SM 4500 CI- E	
500-243693-14	G48S	Total/NA	GW	SM 4500 CI- E	
500-243693-15	T12S	Total/NA	Water	SM 4500 CI- E	
500-243693-16	G30S	Total/NA	GW	SM 4500 CI- E	
500-243693-17	R32S	Total/NA	GW	SM 4500 CI- E	
500-243693-18	T13S	Total/NA	Water	SM 4500 CI- E	
500-243693-19	T13S Dup	Total/NA	Water	SM 4500 CI- E	
500-243693-20	G44S	Total/NA	Water	SM 4500 CI- E	
MB 500-747850/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-747850/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 748435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-21	G46S	Total/NA	Water	SM 4500 CI- E	
500-243693-22	R08S	Total/NA	Water	SM 4500 CI- E	
500-243693-23	G45S	Total/NA	Water	SM 4500 CI- E	
MB 500-748435/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-748435/17	Lab Control Sample	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 4Q23

Job ID: 500-243693-1

## General Chemistry

### Analysis Batch: 748677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-1	G20S	Total/NA	Water	SM 4500 SO4 E	
MB 500-748677/111	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-748677/112	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 748771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-2	G31S	Total/NA	Water	SM 4500 SO4 E	
500-243693-5	T09S	Total/NA	Water	SM 4500 SO4 E	
500-243693-6	T01S	Total/NA	Water	SM 4500 SO4 E	
500-243693-7	T08S	Total/NA	Water	SM 4500 SO4 E	
500-243693-8	T06S	Total/NA	Water	SM 4500 SO4 E	
500-243693-9	T05S	Total/NA	Water	SM 4500 SO4 E	
500-243693-10	G33S	Total/NA	Water	SM 4500 SO4 E	
500-243693-11	G39S	Total/NA	Water	SM 4500 SO4 E	
500-243693-12	T11S	Total/NA	GW	SM 4500 SO4 E	
500-243693-13	G47S	Total/NA	GW	SM 4500 SO4 E	
500-243693-14	G48S	Total/NA	GW	SM 4500 SO4 E	
500-243693-15	T12S	Total/NA	Water	SM 4500 SO4 E	
500-243693-16	G30S	Total/NA	GW	SM 4500 SO4 E	
500-243693-17	R32S	Total/NA	GW	SM 4500 SO4 E	
500-243693-18	T13S	Total/NA	Water	SM 4500 SO4 E	
500-243693-19	T13S Dup	Total/NA	Water	SM 4500 SO4 E	
500-243693-20	G44S	Total/NA	Water	SM 4500 SO4 E	
500-243693-21	G46S	Total/NA	Water	SM 4500 SO4 E	
500-243693-22	R08S	Total/NA	Water	SM 4500 SO4 E	
500-243693-23	G45S	Total/NA	Water	SM 4500 SO4 E	
MB 500-748771/11	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-748771/12	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-243693-12 MS	T11S	Total/NA	GW	SM 4500 SO4 E	
500-243693-12 MSD	T11S	Total/NA	GW	SM 4500 SO4 E	

### Analysis Batch: 748935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-3	T02S	Total/NA	Water	SM 4500 SO4 E	
500-243693-4	T03S	Total/NA	GW	SM 4500 SO4 E	
MB 500-748935/57	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-748935/58	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-243693-3 MS	T02S	Total/NA	Water	SM 4500 SO4 E	
500-243693-3 MSD	T02S	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 749028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-16	G30S	Total/NA	GW	SM 4500 F C	
500-243693-17	R32S	Total/NA	GW	SM 4500 F C	
500-243693-18	T13S	Total/NA	Water	SM 4500 F C	
500-243693-19	T13S Dup	Total/NA	Water	SM 4500 F C	
500-243693-20	G44S	Total/NA	Water	SM 4500 F C	
500-243693-21	G46S	Total/NA	Water	SM 4500 F C	
500-243693-22	R08S	Total/NA	Water	SM 4500 F C	
500-243693-23	G45S	Total/NA	Water	SM 4500 F C	
MB 500-749028/3	Method Blank	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 4Q23

Job ID: 500-243693-1

## General Chemistry (Continued)

### Analysis Batch: 749028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-749028/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-243693-17 MS	R32S	Total/NA	GW	SM 4500 F C	
500-243693-17 MSD	R32S	Total/NA	GW	SM 4500 F C	

## Field Service / Mobile Lab

### Analysis Batch: 746654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243693-1	G20S	Total/NA	Water	Field Sampling	
500-243693-2	G31S	Total/NA	Water	Field Sampling	
500-243693-3	T02S	Total/NA	Water	Field Sampling	
500-243693-4	T03S	Total/NA	GW	Field Sampling	
500-243693-5	T09S	Total/NA	Water	Field Sampling	
500-243693-6	T01S	Total/NA	Water	Field Sampling	
500-243693-7	T08S	Total/NA	Water	Field Sampling	
500-243693-8	T06S	Total/NA	Water	Field Sampling	
500-243693-9	T05S	Total/NA	Water	Field Sampling	
500-243693-10	G33S	Total/NA	Water	Field Sampling	
500-243693-11	G39S	Total/NA	Water	Field Sampling	
500-243693-12	T11S	Total/NA	GW	Field Sampling	
500-243693-13	G47S	Total/NA	GW	Field Sampling	
500-243693-14	G48S	Total/NA	GW	Field Sampling	
500-243693-15	T12S	Total/NA	Water	Field Sampling	
500-243693-16	G30S	Total/NA	GW	Field Sampling	
500-243693-17	R32S	Total/NA	GW	Field Sampling	
500-243693-18	T13S	Total/NA	Water	Field Sampling	
500-243693-19	T13S Dup	Total/NA	Water	Field Sampling	
500-243693-20	G44S	Total/NA	Water	Field Sampling	
500-243693-21	G46S	Total/NA	Water	Field Sampling	
500-243693-22	R08S	Total/NA	Water	Field Sampling	
500-243693-23	G45S	Total/NA	Water	Field Sampling	

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

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

**Lab Sample ID: MB 500-747852/1-A**  
**Matrix: Water**  
**Analysis Batch: 748512**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		12/21/23 19:31	12/22/23 18:13	1
Arsenic	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 18:13	1
Cadmium	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 18:13	1
Calcium	<0.20		0.20		mg/L		12/21/23 19:31	12/22/23 18:13	1
Chromium	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 18:13	1
Cobalt	<0.0010		0.0010		mg/L		12/21/23 19:31	12/22/23 18:13	1
Lead	<0.00050		0.00050		mg/L		12/21/23 19:31	12/22/23 18:13	1
Molybdenum	<0.0050		0.0050		mg/L		12/21/23 19:31	12/22/23 18:13	1
Selenium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/22/23 18:13	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/22/23 18:13	1

**Lab Sample ID: MB 500-747852/1-A**  
**Matrix: Water**  
**Analysis Batch: 748679**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.0025		0.0025		mg/L		12/21/23 19:31	12/29/23 16:13	1
Calcium	<0.20		0.20		mg/L		12/21/23 19:31	12/29/23 16:13	1
Lead	<0.00050		0.00050		mg/L		12/21/23 19:31	12/29/23 16:13	1
Thallium	<0.0020		0.0020		mg/L		12/21/23 19:31	12/29/23 16:13	1

**Lab Sample ID: MB 500-747852/1-A**  
**Matrix: Water**  
**Analysis Batch: 748874**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010		0.0010		mg/L		12/21/23 19:31	01/02/24 15:12	1
Boron	<0.050		0.050		mg/L		12/21/23 19:31	01/02/24 15:12	1
Lithium	<0.010		0.010		mg/L		12/21/23 19:31	01/02/24 15:12	1

**Lab Sample ID: LCS 500-747852/2-A**  
**Matrix: Water**  
**Analysis Batch: 748512**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0935		mg/L		93	80 - 120
Cadmium	0.0500	0.0452		mg/L		90	80 - 120
Chromium	0.200	0.190		mg/L		95	80 - 120
Cobalt	0.500	0.484		mg/L		97	80 - 120
Molybdenum	1.00	0.874		mg/L		87	80 - 120
Selenium	0.100	0.0930		mg/L		93	80 - 120

**Lab Sample ID: LCS 500-747852/2-A**  
**Matrix: Water**  
**Analysis Batch: 748679**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

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

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

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

**Lab Sample ID: LCS 500-747852/2-A**  
**Matrix: Water**  
**Analysis Batch: 748679**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	10.0	7.95		mg/L		80	80 - 120
Lead	0.100	0.0944		mg/L		94	80 - 120
Thallium	0.100	0.0943		mg/L		94	80 - 120

**Lab Sample ID: LCS 500-747852/2-A**  
**Matrix: Water**  
**Analysis Batch: 748874**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Boron	1.00	0.986		mg/L		99	80 - 120
Lithium	0.500	0.483		mg/L		97	80 - 120

**Lab Sample ID: 500-243693-1 MS**  
**Matrix: Water**  
**Analysis Batch: 748512**

**Client Sample ID: G20S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.450		mg/L		90	75 - 125
Arsenic	<0.0010		0.100	0.0905		mg/L		90	75 - 125
Cadmium	<0.00050		0.0500	0.0428		mg/L		86	75 - 125
Calcium	55 *-		10.0	57.9	4	mg/L		29	75 - 125
Chromium	<0.0050		0.200	0.182		mg/L		91	75 - 125
Cobalt	<0.0010		0.500	0.450		mg/L		90	75 - 125
Molybdenum	0.014		1.00	0.865		mg/L		85	75 - 125
Selenium	<0.0025		0.100	0.0876		mg/L		88	75 - 125

**Lab Sample ID: 500-243693-1 MS**  
**Matrix: Water**  
**Analysis Batch: 748679**

**Client Sample ID: G20S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.045		2.00	1.84		mg/L		90	75 - 125
Calcium	54		10.0	60.3	4	mg/L		61	75 - 125
Lead	<0.00050		0.100	0.0917		mg/L		92	75 - 125
Thallium	<0.0020		0.100	0.0931		mg/L		93	75 - 125

**Lab Sample ID: 500-243693-1 MS**  
**Matrix: Water**  
**Analysis Batch: 748874**

**Client Sample ID: G20S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0010		0.0500	0.0449		mg/L		90	75 - 125
Boron	1.3		1.00	2.16		mg/L		88	75 - 125
Lithium	0.040		0.500	0.517		mg/L		95	75 - 125

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

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

**Lab Sample ID: 500-243693-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 748512**

**Client Sample ID: G20S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Antimony	<0.0030		0.500	0.455		mg/L		91	75 - 125	1	20	
Arsenic	<0.0010		0.100	0.0905		mg/L		90	75 - 125	0	20	
Cadmium	<0.00050		0.0500	0.0432		mg/L		86	75 - 125	1	20	
Calcium	55	*-	10.0	58.3	4	mg/L		34	75 - 125	1	20	
Chromium	<0.0050		0.200	0.181		mg/L		90	75 - 125	1	20	
Cobalt	<0.0010		0.500	0.449		mg/L		90	75 - 125	0	20	
Molybdenum	0.014		1.00	0.873		mg/L		86	75 - 125	1	20	
Selenium	<0.0025		0.100	0.0882		mg/L		88	75 - 125	1	20	

**Lab Sample ID: 500-243693-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 748679**

**Client Sample ID: G20S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Barium	0.045		2.00	1.82		mg/L		89	75 - 125	1	20	
Calcium	54		10.0	60.8	4	mg/L		66	75 - 125	1	20	
Lead	<0.00050		0.100	0.0923		mg/L		92	75 - 125	1	20	
Thallium	<0.0020		0.100	0.0928		mg/L		93	75 - 125	0	20	

**Lab Sample ID: 500-243693-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 748874**

**Client Sample ID: G20S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Beryllium	<0.0010		0.0500	0.0453		mg/L		91	75 - 125	1	20	
Boron	1.3		1.00	2.25		mg/L		98	75 - 125	4	20	
Lithium	0.040		0.500	0.517		mg/L		95	75 - 125	0	20	

**Lab Sample ID: 500-243693-1 DU**  
**Matrix: Water**  
**Analysis Batch: 748512**

**Client Sample ID: G20S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Molybdenum	0.014		0.0139		mg/L		2	20
Selenium	<0.0025		<0.0025		mg/L		NC	20

**Lab Sample ID: 500-243693-1 DU**  
**Matrix: Water**  
**Analysis Batch: 748679**

**Client Sample ID: G20S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Barium	0.045		0.0461		mg/L		2	20
Calcium	54		54.8		mg/L		1	20
Lead	<0.00050		<0.00050		mg/L		NC	20

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

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

**Lab Sample ID: 500-243693-1 DU**  
**Matrix: Water**  
**Analysis Batch: 748679**

**Client Sample ID: G20S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: 500-243693-1 DU**  
**Matrix: Water**  
**Analysis Batch: 748874**

**Client Sample ID: G20S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747852**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	1.3		1.31		mg/L		2	20
Lithium	0.040		0.0383		mg/L		4	20

**Lab Sample ID: MB 500-747992/1-A**  
**Matrix: Water**  
**Analysis Batch: 749056**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747992**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030		mg/L		12/22/23 09:26	01/03/24 18:58	1
Arsenic	<0.0010		0.0010		mg/L		12/22/23 09:26	01/03/24 18:58	1
Barium	<0.0025		0.0025		mg/L		12/22/23 09:26	01/03/24 18:58	1
Cadmium	<0.00050		0.00050		mg/L		12/22/23 09:26	01/03/24 18:58	1
Chromium	<0.0050		0.0050		mg/L		12/22/23 09:26	01/03/24 18:58	1
Cobalt	<0.0010		0.0010		mg/L		12/22/23 09:26	01/03/24 18:58	1
Lead	<0.00050		0.00050		mg/L		12/22/23 09:26	01/03/24 18:58	1
Molybdenum	<0.0050		0.0050		mg/L		12/22/23 09:26	01/03/24 18:58	1

**Lab Sample ID: MB 500-747992/1-A**  
**Matrix: Water**  
**Analysis Batch: 749452**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747992**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		12/22/23 09:26	01/05/24 16:18	1
Calcium	<0.20		0.20		mg/L		12/22/23 09:26	01/05/24 16:18	1

**Lab Sample ID: LCS 500-747992/2-A**  
**Matrix: Water**  
**Analysis Batch: 749056**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 747992**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.532	^1+	mg/L		106	80 - 120
Arsenic	0.100	0.105		mg/L		105	80 - 120
Barium	2.00	1.96		mg/L		98	80 - 120
Cadmium	0.0500	0.0497		mg/L		99	80 - 120
Chromium	0.200	0.182		mg/L		91	80 - 120
Cobalt	0.500	0.478		mg/L		96	80 - 120
Lead	0.100	0.0958		mg/L		96	80 - 120
Molybdenum	1.00	0.957		mg/L		96	80 - 120

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

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

Lab Sample ID: LCS 500-747992/2-A  
 Matrix: Water  
 Analysis Batch: 749452

Client Sample ID: Lab Control Sample  
 Prep Type: Total Recoverable  
 Prep Batch: 747992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0575		mg/L		115	80 - 120
Calcium	10.0	9.26		mg/L		93	80 - 120

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-748249/12-A  
 Matrix: Water  
 Analysis Batch: 748389

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 748249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/23 12:30	12/28/23 07:42	1

Lab Sample ID: LCS 500-748249/13-A  
 Matrix: Water  
 Analysis Batch: 748389

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 748249

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00192		mg/L		96	80 - 120

Lab Sample ID: 500-243693-9 MS  
 Matrix: Water  
 Analysis Batch: 748389

Client Sample ID: T05S  
 Prep Type: Total/NA  
 Prep Batch: 748249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000987		mg/L		99	75 - 125

Lab Sample ID: 500-243693-9 MSD  
 Matrix: Water  
 Analysis Batch: 748389

Client Sample ID: T05S  
 Prep Type: Total/NA  
 Prep Batch: 748249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000997		mg/L		100	75 - 125	1	20

Lab Sample ID: 500-243693-9 DU  
 Matrix: Water  
 Analysis Batch: 748389

Client Sample ID: T05S  
 Prep Type: Total/NA  
 Prep Batch: 748249

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 500-748407/12-A  
 Matrix: Water  
 Analysis Batch: 748531

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 748407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/28/23 14:20	12/29/23 07:48	1



# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 500-748407/13-A**  
**Matrix: Water**  
**Analysis Batch: 748531**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 748407**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00204		mg/L		102	80 - 120

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

**Lab Sample ID: MB 500-746384/1**  
**Matrix: Water**  
**Analysis Batch: 746384**

**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			12/12/23 20:11	1

**Lab Sample ID: LCS 500-746384/2**  
**Matrix: Water**  
**Analysis Batch: 746384**

**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	254		mg/L		102	80 - 120

**Lab Sample ID: MB 500-747027/1**  
**Matrix: Water**  
**Analysis Batch: 747027**

**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			12/18/23 00:30	1

**Lab Sample ID: LCS 500-747027/2**  
**Matrix: Water**  
**Analysis Batch: 747027**

**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: 500-243693-6 MS**  
**Matrix: Water**  
**Analysis Batch: 747027**

**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	940		250	1160		mg/L		87	75 - 125

**Lab Sample ID: 500-243693-6 DU**  
**Matrix: Water**  
**Analysis Batch: 747027**

**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	940		952		mg/L		0.8	5

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

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

**Lab Sample ID: 500-243693-7 DU**  
**Matrix: Water**  
**Analysis Batch: 747027**

**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	1000		1040		mg/L		3	5

**Lab Sample ID: MB 500-747193/1**  
**Matrix: Water**  
**Analysis Batch: 747193**

**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			12/18/23 18:52	1

**Lab Sample ID: LCS 500-747193/2**  
**Matrix: Water**  
**Analysis Batch: 747193**

**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	234		mg/L		94	80 - 120

**Lab Sample ID: 500-243693-11 MS**  
**Matrix: Water**  
**Analysis Batch: 747193**

**Client Sample ID: G39S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	580		250	800		mg/L		86	75 - 125

**Lab Sample ID: 500-243693-11 DU**  
**Matrix: Water**  
**Analysis Batch: 747193**

**Client Sample ID: G39S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	580		588		mg/L		0.7	5

**Lab Sample ID: 500-243693-12 DU**  
**Matrix: GW**  
**Analysis Batch: 747193**

**Client Sample ID: T11S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	620		612		mg/L		2	5

**Lab Sample ID: MB 500-747450/1**  
**Matrix: Water**  
**Analysis Batch: 747450**

**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			12/19/23 20:49	1

**Lab Sample ID: LCS 500-747450/2**  
**Matrix: Water**  
**Analysis Batch: 747450**

**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

Euromins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

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

**Lab Sample ID: 500-243693-16 MS**  
**Matrix: GW**  
**Analysis Batch: 747450**

**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	1450	4	mg/L		80	75 - 125

**Lab Sample ID: 500-243693-16 DU**  
**Matrix: GW**  
**Analysis Batch: 747450**

**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		1210		mg/L		3	5

**Lab Sample ID: 500-243693-17 DU**  
**Matrix: GW**  
**Analysis Batch: 747450**

**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	780		752		mg/L		4	5

**Lab Sample ID: MB 500-747668/1**  
**Matrix: Water**  
**Analysis Batch: 747668**

**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			12/20/23 20:55	1

**Lab Sample ID: LCS 500-747668/2**  
**Matrix: Water**  
**Analysis Batch: 747668**

**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	236		mg/L		94	80 - 120

**Lab Sample ID: 500-243693-21 MS**  
**Matrix: Water**  
**Analysis Batch: 747668**

**Client Sample ID: G46S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	980		250	1200		mg/L		88	75 - 125

**Lab Sample ID: 500-243693-21 DU**  
**Matrix: Water**  
**Analysis Batch: 747668**

**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	980		1000		mg/L		3	5

**Lab Sample ID: 500-243693-22 DU**  
**Matrix: Water**  
**Analysis Batch: 747668**

**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		778		mg/L		3	5

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Method: SM 4500 Cl- E - Chloride, Total

**Lab Sample ID: MB 500-747082/16**  
**Matrix: Water**  
**Analysis Batch: 747082**

**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			12/17/23 11:47	1

**Lab Sample ID: MB 500-747082/66**  
**Matrix: Water**  
**Analysis Batch: 747082**

**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			12/17/23 15:00	1

**Lab Sample ID: LCS 500-747082/17**  
**Matrix: Water**  
**Analysis Batch: 747082**

**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		99	85 - 115

**Lab Sample ID: LCS 500-747082/67**  
**Matrix: Water**  
**Analysis Batch: 747082**

**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	21.9		mg/L		109	85 - 115

**Lab Sample ID: MB 500-747850/16**  
**Matrix: Water**  
**Analysis Batch: 747850**

**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			12/21/23 18:35	1

**Lab Sample ID: LCS 500-747850/17**  
**Matrix: Water**  
**Analysis Batch: 747850**

**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	19.9		mg/L		100	85 - 115

**Lab Sample ID: MB 500-748435/16**  
**Matrix: Water**  
**Analysis Batch: 748435**

**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			12/28/23 10:45	1

**Lab Sample ID: LCS 500-748435/17**  
**Matrix: Water**  
**Analysis Batch: 748435**

**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	19.9		mg/L		99	85 - 115

Eurofins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 500-747509/3**  
**Matrix: Water**  
**Analysis Batch: 747509**

**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			12/19/23 16:30	1

**Lab Sample ID: MB 500-747509/31**  
**Matrix: Water**  
**Analysis Batch: 747509**

**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			12/19/23 18:42	1

**Lab Sample ID: LCS 500-747509/32**  
**Matrix: Water**  
**Analysis Batch: 747509**

**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	9.98		mg/L		100	90 - 119

**Lab Sample ID: LCS 500-747509/4**  
**Matrix: Water**  
**Analysis Batch: 747509**

**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	9.92		mg/L		99	90 - 119

**Lab Sample ID: 500-243693-14 MS**  
**Matrix: GW**  
**Analysis Batch: 747509**

**Client Sample ID: G48S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.88		5.00	5.83		mg/L		99	75 - 125

**Lab Sample ID: 500-243693-14 MSD**  
**Matrix: GW**  
**Analysis Batch: 747509**

**Client Sample ID: G48S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.88		5.00	5.86		mg/L		100	75 - 125	1	20

**Lab Sample ID: MB 500-749028/3**  
**Matrix: Water**  
**Analysis Batch: 749028**

**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			01/03/24 10:24	1

**Lab Sample ID: LCS 500-749028/4**  
**Matrix: Water**  
**Analysis Batch: 749028**

**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	10.0		mg/L		100	90 - 119

Eurofins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Method: SM 4500 F C - Fluoride

Lab Sample ID: 500-243693-17 MS  
 Matrix: GW  
 Analysis Batch: 749028

Client Sample ID: R32S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.28		5.00	5.18		mg/L		98	75 - 125

Lab Sample ID: 500-243693-17 MSD  
 Matrix: GW  
 Analysis Batch: 749028

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
Fluoride	0.28		5.00	5.08		mg/L		96	75 - 125	2	20

## Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-748677/111  
 Matrix: Water  
 Analysis Batch: 748677

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			12/31/23 17:06	1

Lab Sample ID: LCS 500-748677/112  
 Matrix: Water  
 Analysis Batch: 748677

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	10.9		mg/L		109	88 - 123

Lab Sample ID: MB 500-748771/11  
 Matrix: Water  
 Analysis Batch: 748771

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			01/02/24 11:58	1

Lab Sample ID: LCS 500-748771/12  
 Matrix: Water  
 Analysis Batch: 748771

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	10.1		mg/L		101	88 - 123

Lab Sample ID: 500-243693-12 MS  
 Matrix: GW  
 Analysis Batch: 748771

Client Sample ID: T11S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	220		10.0	235	4	mg/L		195	75 - 125

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Method: SM 4500 SO4 E - Sulfate, Total (Continued)

**Lab Sample ID: 500-243693-12 MSD**  
**Matrix: GW**  
**Analysis Batch: 748771**

**Client Sample ID: T11S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	220		10.0	232	4	mg/L		162	75 - 125	1	20

**Lab Sample ID: MB 500-748935/57**  
**Matrix: Water**  
**Analysis Batch: 748935**

**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			01/02/24 15:36	1

**Lab Sample ID: LCS 500-748935/58**  
**Matrix: Water**  
**Analysis Batch: 748935**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	10.8		mg/L		108	88 - 123

**Lab Sample ID: 500-243693-3 MS**  
**Matrix: Water**  
**Analysis Batch: 748935**

**Client Sample ID: T02S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	330	F1	200	343	F1	mg/L		8	75 - 125

**Lab Sample ID: 500-243693-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 748935**

**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
Sulfate	330	F1	200	344	F1	mg/L		8	75 - 125	0	20





# Chain of Custody Record

667863



Environment Testing  
America

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other:

500-243693 COC

TAL-8210

Client Contact		Project Manager			Site Contact			Date:		
Company Name <u>Midwest Gen</u>		Tel/Email:			Lab Contact:			Carrier:		
Address		Analysis Turnaround Time			Filtered Sample (Y/N) Perform MS / MSD (Y/N) TD, F, Cl, SO4 Metals 14 elements + Hg Radium 226 Radium 228 Combined 226/228			Sampler		
City/State/Zip <u>Joliet, IL</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only:		
Phone		TAT if different from Below _____						Walk-in Client:		
Fax		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab Sampling		
Project Name <u>Lincoln Stone Quarry</u>								Job / SDG No		
Site <u>Joliet #9 CCR</u>					500-243693					
PO# <u>4223 GW + Turbidity</u>										
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes				
<u>T02S</u>	<u>12-12-23</u>	<u>0934</u>			<u>5</u>					
<u>T03S</u>	<u>12-12-23</u>	<u>1104</u>			<u>5</u>					
<u>T09S</u>	<u>12-12-23</u>	<u>1245</u>			<u>5</u>					
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 <u>3.9</u> Cor'd <u>3.7</u>		Therm ID No _____			
Relinquished by		Company		Date/Time		Received by		Company		Date/Time
Relinquished by		Company		Date/Time		Received by		Company		Date/Time
Relinquished by <u>[Signature]</u>		Company <u>EETA</u>		Date/Time <u>12-12-23 1440</u>		Received in Laboratory by <u>[Signature]</u>		Company <u>EETA</u>		Date/Time <u>12/12/23 1440</u>

543

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12







# Chain of Custody Record 719226



Environment Testing  
America

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

500-243693 COC

TAL-8210

Client Contact		Project Manager: <u>Diana Mack</u>		Site Contact		Date	
Company Name <u>Midwest Generation EME LLC</u>		Tel/Email		Lab Contact		Carrier	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <u>Radium 226</u> <u>Radium 228</u> <u>Combined 226/228</u> <u>TDS, F, Cl, SO4</u> <u>Metals 14 elements + Hg</u>		_____ of _____ COCs Sampler: For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <u>300-243693</u>	
City/State/Zip <u>Joliet, IL</u>		<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 <u>Joliet #9 CCR</u>							
Site <u>4823 GW + Turbidity</u>							
P O #							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes
11	G39S	12/18/23	0927		W	5	
12	T11S	12/18/23	1020		W	5	
13	G47S	12/18/23	1131		W	5	
14	G48S	12/18/23	1248		W	5	
15	T12S	12/18/23	1404		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:							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <u>5.5</u> <u>5.3</u>		Therm ID No	
Relinquished by <u>[Signature]</u>		Company <u>EETA</u>		Date/Time <u>12/18/23</u>		Received by <u>[Signature]</u>	
Relinquished by		Company		Date/Time		Received by	
Relinquished by		Company		Date/Time		Received in Laboratory by	

# Chain of Custody Record 719227



Environment Testing  
America

TAL-8210

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other



500-243693 COC

Client Contact		Project Manager <i>Diana Muehler</i>		Site Contact		Date	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carr	
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		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>TDS, F-, Cl-, SO4</i> <i>Metals 14 elements + Hg</i>					
Project Name <i>Joliet #9 CCP</i>							
Site <i>4R23 Gw + Turbidity</i>							
P O # _____							
COC No _____		of _____ COCs Sampler _____ For Lab Use Only: Walk-in Client _____ Lab Sampling _____ Job / SDG No <i>500-243693</i> Sample Specific Notes _____					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.		
<i>21</i> <i>646S</i>	<i>12/20/23</i>	<i>0942</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>
<i>22</i> <i>RO8J</i>	<i>12/20/23</i>	<i>1037</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>
<i>23</i> <i>645S</i>	<i>12/20/23</i>	<i>1129</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 <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>3.1</i> Corr'd <i>2.9</i>		Therm ID No <i>4807</i>	
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>12/20/23 12:35</i>		Received by _____	
Relinquished by _____		Company _____		Date/Time _____		Received by _____	
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>Stephanie Hemondy</i>	
						Company <i>EETA</i> Date/Time <i>12/20/23 1235</i>	

# Chain of Custody Record 719228



Environment Testing  
America

Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other:

TAL-8210

Client Contact		Project Manager: <i>Diana MacKler</i>			Site Contact:			Date:		COC No:			
Company Name: <i>Midwest Generation EME LLC</i>		Tel/Email:			Lab Contact:			Carri		_____ 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>TDS, F, Cl, SO4</i> <i>Metals 14 elements + Hg</i>			 500-243693 COC		Sampler:		For Lab Use Only:	
City/State/Zip: <i>Joliet, IL</i>										Walk-in Client:		Lab Sampling:	
Phone:													
Project Name: <i>Joliet #9 CCR</i>													
Site: <i>4R23 GW + Turbidity</i>													
P O #													
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.						Sample Specific Notes:	
<i>G30S</i>		<i>12/19/23</i>	<i>0908</i>	<i>W</i>	<i>5</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>		
<i>R32S</i>		<i>12/19/23</i>	<i>1101</i>	<i>W</i>	<i>5</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>		
<i>T13S</i>		<i>12/19/23</i>	<i>1208</i>	<i>W</i>	<i>5</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>		
<i>DUP of T13S</i>		<i>12/19/23</i>	<i>1208</i>	<i>W</i>	<i>5</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>		
<i>G44S</i>		<i>12/19/23</i>	<i>1339</i>	<i>W</i>	<i>5</i>	<i>5</i>	<i>/</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: _____		Corr'd: _____		Therm ID No.: _____		
Relinquished by: <i>[Signature]</i>		Company: <i>EETA</i>		Date/Time: <i>12/19/23 1507</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 Hernandez</i>		Company: <i>EETA</i>		Date/Time: <i>12/19/23 1507</i>			

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# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-243693-1

**Login Number: 243693**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

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	4.2,3.7,0.7,2.6,3.0,5.3,3.4,0.8,4.2,2.9
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 4Q23

Job ID: 500-243693-1

## Client Sample ID: G20S

Date Collected: 12/11/23 10:08

Date Received: 12/11/23 15:25

## Lab Sample ID: 500-243693-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 18:21
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 16:20
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 15:21
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 07:46
Total/NA	Analysis	SM 2540C		1	746384	CLB	EET CHI	12/12/23 20:18
Total/NA	Analysis	SM 4500 CI- E		1	747082	TR	EET CHI	12/17/23 11:48
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 17:54
Total/NA	Analysis	SM 4500 SO4 E		10	748677	TR	EET CHI	12/31/23 17:13
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/11/23 10:08

## Client Sample ID: G31S

Date Collected: 12/11/23 14:22

Date Received: 12/11/23 15:25

## Lab Sample ID: 500-243693-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 18:40
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 16:44
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 15:41
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 07:49
Total/NA	Analysis	SM 2540C		1	746384	CLB	EET CHI	12/12/23 20:21
Total/NA	Analysis	SM 4500 CI- E		10	747082	TR	EET CHI	12/17/23 12:26
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 18:01
Total/NA	Analysis	SM 4500 SO4 E		20	748771	TR	EET CHI	01/02/24 12:46
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/11/23 14:22

## Client Sample ID: T02S

Date Collected: 12/12/23 09:34

Date Received: 12/12/23 14:40

## Lab Sample ID: 500-243693-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 18:44
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 16:48
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 16:00

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Client Sample ID: T02S

Date Collected: 12/12/23 09:34

Date Received: 12/12/23 14:40

## Lab Sample ID: 500-243693-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	749594	RN	EET CHI	01/08/24 15:20
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 07:51
Total/NA	Analysis	SM 2540C		1	746384	CLB	EET CHI	12/12/23 20:23
Total/NA	Analysis	SM 4500 CI- E		10	747082	TR	EET CHI	12/17/23 15:27
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 18:06
Total/NA	Analysis	SM 4500 SO4 E		20	748935	TR	EET CHI	01/02/24 16:40
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/12/23 09:34

## Client Sample ID: T03S

Date Collected: 12/12/23 11:04

Date Received: 12/12/23 14:40

## Lab Sample ID: 500-243693-4

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 18:48
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 16:51
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 16:04
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 15:24
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 07:53
Total/NA	Analysis	SM 2540C		1	746384	CLB	EET CHI	12/12/23 20:26
Total/NA	Analysis	SM 4500 CI- E		10	747082	TR	EET CHI	12/17/23 15:27
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 18:10
Total/NA	Analysis	SM 4500 SO4 E		20	748935	TR	EET CHI	01/02/24 16:40
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/12/23 11:04

## Client Sample ID: T09S

Date Collected: 12/12/23 12:45

Date Received: 12/12/23 14:40

## Lab Sample ID: 500-243693-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 18:59
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 16:55
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 16:07
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	749594	RN	EET CHI	01/08/24 15:32

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Client Sample ID: T09S

## Lab Sample ID: 500-243693-5

Date Collected: 12/12/23 12:45

Matrix: Water

Date Received: 12/12/23 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 07:55
Total/NA	Analysis	SM 2540C		1	746384	CLB	EET CHI	12/12/23 20:29
Total/NA	Analysis	SM 4500 CI- E		2	747082	TR	EET CHI	12/17/23 15:27
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 18:25
Total/NA	Analysis	SM 4500 SO4 E		50	748771	TR	EET CHI	01/02/24 13:23
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/12/23 12:45

## Client Sample ID: T01S

## Lab Sample ID: 500-243693-6

Date Collected: 12/13/23 09:45

Matrix: Water

Date Received: 12/13/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:03
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 16:58
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 16:11
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	749594	RN	EET CHI	01/08/24 15:35
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 07:57
Total/NA	Analysis	SM 2540C		1	747027	CLB	EET CHI	12/18/23 00:35
Total/NA	Analysis	SM 4500 CI- E		10	747082	TR	EET CHI	12/17/23 15:28
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 18:30
Total/NA	Analysis	SM 4500 SO4 E		50	748771	TR	EET CHI	01/02/24 13:22
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/13/23 09:45

## Client Sample ID: T08S

## Lab Sample ID: 500-243693-7

Date Collected: 12/14/23 09:35

Matrix: Water

Date Received: 12/14/23 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:06
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:02
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 16:15
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	749594	RN	EET CHI	01/08/24 15:39
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 07:59

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Client Sample ID: T08S

## Lab Sample ID: 500-243693-7

Date Collected: 12/14/23 09:35

Matrix: Water

Date Received: 12/14/23 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	747027	CLB	EET CHI	12/18/23 00:43
Total/NA	Analysis	SM 4500 Cl- E		10	747082	TR	EET CHI	12/17/23 15:26
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 18:34
Total/NA	Analysis	SM 4500 SO4 E		50	748771	TR	EET CHI	01/02/24 13:22
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/14/23 09:35

## Client Sample ID: T06S

## Lab Sample ID: 500-243693-8

Date Collected: 12/14/23 11:35

Matrix: Water

Date Received: 12/14/23 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:10
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:05
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 16:46
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 15:43
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 08:06
Total/NA	Analysis	SM 2540C		1	747027	CLB	EET CHI	12/18/23 00:48
Total/NA	Analysis	SM 4500 Cl- E		1	747082	TR	EET CHI	12/17/23 15:03
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 18:38
Total/NA	Analysis	SM 4500 SO4 E		5	748771	TR	EET CHI	01/02/24 12:19
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/14/23 11:35

## Client Sample ID: T05S

## Lab Sample ID: 500-243693-9

Date Collected: 12/14/23 13:25

Matrix: Water

Date Received: 12/14/23 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:14
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:15
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 16:50
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	749594	RN	EET CHI	01/08/24 15:47
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 08:08
Total/NA	Analysis	SM 2540C		1	747027	CLB	EET CHI	12/18/23 00:51
Total/NA	Analysis	SM 4500 Cl- E		10	747082	TR	EET CHI	12/17/23 15:28

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# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Client Sample ID: T05S

## Lab Sample ID: 500-243693-9

Date Collected: 12/14/23 13:25

Matrix: Water

Date Received: 12/14/23 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 18:53
Total/NA	Analysis	SM 4500 SO4 E		50	748771	TR	EET CHI	01/02/24 13:22
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/14/23 13:25

## Client Sample ID: G33S

## Lab Sample ID: 500-243693-10

Date Collected: 12/15/23 09:30

Matrix: Water

Date Received: 12/15/23 12:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:18
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:19
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 16:54
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 16:11
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 08:16
Total/NA	Analysis	SM 2540C		1	747027	CLB	EET CHI	12/18/23 00:53
Total/NA	Analysis	SM 4500 CI- E		1	747082	TR	EET CHI	12/17/23 15:02
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 19:00
Total/NA	Analysis	SM 4500 SO4 E		5	748771	TR	EET CHI	01/02/24 12:19
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/15/23 09:30

## Client Sample ID: G39S

## Lab Sample ID: 500-243693-11

Date Collected: 12/18/23 09:27

Matrix: Water

Date Received: 12/18/23 15:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:22
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:22
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 16:58
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 16:22
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 08:18
Total/NA	Analysis	SM 2540C		1	747193	CLB	EET CHI	12/18/23 18:57
Total/NA	Analysis	SM 4500 CI- E		1	747850	TR	EET CHI	12/21/23 18:36
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 19:04
Total/NA	Analysis	SM 4500 SO4 E		1	748771	TR	EET CHI	01/02/24 12:47

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# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Client Sample ID: G39S

Date Collected: 12/18/23 09:27

Date Received: 12/18/23 15:18

## Lab Sample ID: 500-243693-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/18/23 09:27

## Client Sample ID: T11S

Date Collected: 12/18/23 10:20

Date Received: 12/18/23 15:18

## Lab Sample ID: 500-243693-12

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:26
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:26
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 17:02
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 16:26
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 08:20
Total/NA	Analysis	SM 2540C		1	747193	CLB	EET CHI	12/18/23 19:06
Total/NA	Analysis	SM 4500 CI- E		1	747850	TR	EET CHI	12/21/23 18:36
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 19:09
Total/NA	Analysis	SM 4500 SO4 E		20	748771	TR	EET CHI	01/02/24 13:23
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/18/23 10:20

## Client Sample ID: G47S

Date Collected: 12/18/23 11:31

Date Received: 12/18/23 15:18

## Lab Sample ID: 500-243693-13

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:29
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:29
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 17:05
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	749594	RN	EET CHI	01/08/24 16:30
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 08:23
Total/NA	Analysis	SM 2540C		1	747193	CLB	EET CHI	12/18/23 19:12
Total/NA	Analysis	SM 4500 CI- E		10	747850	TR	EET CHI	12/21/23 19:00
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 19:24
Total/NA	Analysis	SM 4500 SO4 E		50	748771	TR	EET CHI	01/02/24 13:21
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/18/23 11:31

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G48S**

**Lab Sample ID: 500-243693-14**

**Date Collected: 12/18/23 12:45**

**Matrix: GW**

**Date Received: 12/18/23 15:18**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:33
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:33
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 17:09
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	749594	RN	EET CHI	01/08/24 16:34
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 08:25
Total/NA	Analysis	SM 2540C		1	747193	CLB	EET CHI	12/18/23 19:15
Total/NA	Analysis	SM 4500 CI- E		10	747850	TR	EET CHI	12/21/23 19:00
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 19:28
Total/NA	Analysis	SM 4500 SO4 E		20	748771	TR	EET CHI	01/02/24 12:45
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/18/23 12:45

**Client Sample ID: T12S**

**Lab Sample ID: 500-243693-15**

**Date Collected: 12/18/23 14:04**

**Matrix: Water**

**Date Received: 12/18/23 15:18**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:44
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:36
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 17:38
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	749594	RN	EET CHI	01/08/24 17:00
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 08:31
Total/NA	Analysis	SM 2540C		1	747193	CLB	EET CHI	12/18/23 19:18
Total/NA	Analysis	SM 4500 CI- E		2	747850	TR	EET CHI	12/21/23 19:00
Total/NA	Analysis	SM 4500 F C		1	747509	SO	EET CHI	12/19/23 19:41
Total/NA	Analysis	SM 4500 SO4 E		20	748771	TR	EET CHI	01/02/24 12:45
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/18/23 14:04

**Client Sample ID: G30S**

**Lab Sample ID: 500-243693-16**

**Date Collected: 12/19/23 09:08**

**Matrix: GW**

**Date Received: 12/19/23 15:07**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:48

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# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: G30S**

**Lab Sample ID: 500-243693-16**

Date Collected: 12/19/23 09:08

Matrix: GW

Date Received: 12/19/23 15:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:39
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 17:42
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	749594	RN	EET CHI	01/08/24 17:04
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 08:33
Total/NA	Analysis	SM 2540C		1	747450	CLB	EET CHI	12/19/23 20:54
Total/NA	Analysis	SM 4500 Cl- E		10	747850	TR	EET CHI	12/21/23 19:00
Total/NA	Analysis	SM 4500 F C		1	749028	SO	EET CHI	01/03/24 10:56
Total/NA	Analysis	SM 4500 SO4 E		50	748771	TR	EET CHI	01/02/24 13:21
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/19/23 09:08

**Client Sample ID: R32S**

**Lab Sample ID: 500-243693-17**

Date Collected: 12/19/23 11:01

Matrix: GW

Date Received: 12/19/23 15:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:52
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:43
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 17:45
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 16:45
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 08:35
Total/NA	Analysis	SM 2540C		1	747450	CLB	EET CHI	12/19/23 21:03
Total/NA	Analysis	SM 4500 Cl- E		1	747850	TR	EET CHI	12/21/23 18:36
Total/NA	Analysis	SM 4500 F C		1	749028	SO	EET CHI	01/03/24 10:33
Total/NA	Analysis	SM 4500 SO4 E		20	748771	TR	EET CHI	01/02/24 12:45
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/19/23 11:01

**Client Sample ID: T13S**

**Lab Sample ID: 500-243693-18**

Date Collected: 12/19/23 12:08

Matrix: Water

Date Received: 12/19/23 15:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 19:56
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:46

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Client Sample ID: T13S

Date Collected: 12/19/23 12:08

Date Received: 12/19/23 15:07

## Lab Sample ID: 500-243693-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 17:49
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 16:49
Total/NA	Prep	7470A			748249	MJG	EET CHI	12/27/23 12:30 - 12/27/23 14:30 <sup>1</sup>
Total/NA	Analysis	7470A		1	748389	MJG	EET CHI	12/28/23 08:37
Total/NA	Analysis	SM 2540C		1	747450	CLB	EET CHI	12/19/23 21:08
Total/NA	Analysis	SM 4500 CI- E		1	747850	TR	EET CHI	12/21/23 18:37
Total/NA	Analysis	SM 4500 F C		1	749028	SO	EET CHI	01/03/24 11:00
Total/NA	Analysis	SM 4500 SO4 E		10	748771	TR	EET CHI	01/02/24 12:44
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/19/23 12:08

## Client Sample ID: T13S Dup

Date Collected: 12/19/23 12:08

Date Received: 12/19/23 15:07

## Lab Sample ID: 500-243693-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 20:00
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 17:57
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 17:53
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 16:53
Total/NA	Prep	7470A			748407	MJG	EET CHI	12/28/23 14:20 - 12/28/23 16:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	748531	MJG	EET CHI	12/29/23 07:52
Total/NA	Analysis	SM 2540C		1	747450	CLB	EET CHI	12/19/23 21:11
Total/NA	Analysis	SM 4500 CI- E		1	747850	TR	EET CHI	12/21/23 18:37
Total/NA	Analysis	SM 4500 F C		1	749028	SO	EET CHI	01/03/24 11:04
Total/NA	Analysis	SM 4500 SO4 E		10	748771	TR	EET CHI	01/02/24 12:44
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/19/23 12:08

## Client Sample ID: G44S

Date Collected: 12/19/23 13:39

Date Received: 12/19/23 15:07

## Lab Sample ID: 500-243693-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748512	RN	EET CHI	12/22/23 20:03
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748679	RN	EET CHI	12/29/23 18:00
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	748874	RN	EET CHI	01/02/24 17:57

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

## Client Sample ID: G44S

Date Collected: 12/19/23 13:39

Date Received: 12/19/23 15:07

## Lab Sample ID: 500-243693-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747852	MC	EET CHI	12/21/23 19:31 - 12/22/23 00:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 16:56
Total/NA	Prep	7470A			748407	MJG	EET CHI	12/28/23 14:20 - 12/28/23 16:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	748531	MJG	EET CHI	12/29/23 07:55
Total/NA	Analysis	SM 2540C		1	747450	CLB	EET CHI	12/19/23 21:14
Total/NA	Analysis	SM 4500 CI- E		2	747850	TR	EET CHI	12/21/23 19:01
Total/NA	Analysis	SM 4500 F C		1	749028	SO	EET CHI	01/03/24 11:22
Total/NA	Analysis	SM 4500 SO4 E		10	748771	TR	EET CHI	01/02/24 12:44
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/19/23 13:39

## Client Sample ID: G46S

Date Collected: 12/20/23 09:42

Date Received: 12/20/23 12:35

## Lab Sample ID: 500-243693-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747992	BDE	EET CHI	12/22/23 09:26 - 12/22/23 15:26 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749056	RN	EET CHI	01/03/24 20:05
Total Recoverable	Prep	3005A			747992	BDE	EET CHI	12/22/23 09:26 - 12/22/23 15:26 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749452	RN	EET CHI	01/05/24 17:22
Total Recoverable	Prep	3005A			747992	BDE	EET CHI	12/22/23 09:26 - 12/22/23 15:26 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 17:23
Total Recoverable	Prep	3005A			747992	BDE	EET CHI	12/22/23 09:26 - 12/22/23 15:26 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	749594	RN	EET CHI	01/08/24 17:38
Total/NA	Prep	7470A			748407	MJG	EET CHI	12/28/23 14:20 - 12/28/23 16:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	748531	MJG	EET CHI	12/29/23 07:57
Total/NA	Analysis	SM 2540C		1	747668	CLB	EET CHI	12/20/23 21:00
Total/NA	Analysis	SM 4500 CI- E		2	748435	TR	EET CHI	12/28/23 11:07
Total/NA	Analysis	SM 4500 F C		1	749028	SO	EET CHI	01/03/24 11:26
Total/NA	Analysis	SM 4500 SO4 E		50	748771	TR	EET CHI	01/02/24 13:21
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/20/23 09:42

## Client Sample ID: R08S

Date Collected: 12/20/23 10:37

Date Received: 12/20/23 12:35

## Lab Sample ID: 500-243693-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747992	BDE	EET CHI	12/22/23 09:26 - 12/22/23 15:26 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749056	RN	EET CHI	01/03/24 20:09
Total Recoverable	Prep	3005A			747992	BDE	EET CHI	12/22/23 09:26 - 12/22/23 15:26 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749452	RN	EET CHI	01/05/24 17:26
Total Recoverable	Prep	3005A			747992	BDE	EET CHI	12/22/23 09:26 - 12/22/23 15:26 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 17:27
Total Recoverable	Prep	3005A			747992	BDE	EET CHI	12/22/23 09:26 - 12/22/23 15:26 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	749594	RN	EET CHI	01/08/24 17:42

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 4Q23

Job ID: 500-243693-1

**Client Sample ID: R08S**

**Lab Sample ID: 500-243693-22**

Date Collected: 12/20/23 10:37

Matrix: Water

Date Received: 12/20/23 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			748407	MJG	EET CHI	12/28/23 14:20 - 12/28/23 16:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	748531	MJG	EET CHI	12/29/23 07:59
Total/NA	Analysis	SM 2540C		1	747668	CLB	EET CHI	12/20/23 21:07
Total/NA	Analysis	SM 4500 CI- E		2	748435	TR	EET CHI	12/28/23 11:08
Total/NA	Analysis	SM 4500 F C		1	749028	SO	EET CHI	01/03/24 11:31
Total/NA	Analysis	SM 4500 SO4 E		20	748771	TR	EET CHI	01/02/24 12:43
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/20/23 10:37

**Client Sample ID: G45S**

**Lab Sample ID: 500-243693-23**

Date Collected: 12/20/23 11:29

Matrix: Water

Date Received: 12/20/23 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			747992	BDE	EET CHI	12/22/23 09:26 - 12/22/23 15:26 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749056	RN	EET CHI	01/03/24 20:13
Total Recoverable	Prep	3005A			747992	BDE	EET CHI	12/22/23 09:26 - 12/22/23 15:26 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749452	RN	EET CHI	01/05/24 17:29
Total Recoverable	Prep	3005A			747992	BDE	EET CHI	12/22/23 09:26 - 12/22/23 15:26 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	749594	RN	EET CHI	01/08/24 17:31
Total/NA	Prep	7470A			748407	MJG	EET CHI	12/28/23 14:20 - 12/28/23 16:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	748531	MJG	EET CHI	12/29/23 08:01
Total/NA	Analysis	SM 2540C		1	747668	CLB	EET CHI	12/20/23 21:13
Total/NA	Analysis	SM 4500 CI- E		10	748435	TR	EET CHI	12/28/23 11:09
Total/NA	Analysis	SM 4500 F C		1	749028	SO	EET CHI	01/03/24 11:36
Total/NA	Analysis	SM 4500 SO4 E		10	748771	TR	EET CHI	01/02/24 12:47
Total/NA	Analysis	Field Sampling		1	746654	JVB	EET CHI	12/20/23 11:29

<sup>1</sup> This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

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