



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

**FEDERAL CCR COMPLIANCE
ANNUAL GROUNDWATER MONITORING and
CORRECTIVE ACTION REPORT - 2024**

**Midwest Generation, LLC
Will County
259 E. 135th Street
Romeoville, Illinois**

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January 31, 2025

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OVERVIEW

Groundwater monitoring requirements in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Parts 257.94, 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 pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Will County Generating Station. The wells sampled were selected to meet the monitoring requirements of the CCR Rule for Ash Ponds 2 South (2S) and 3 South (3S). The CCR monitoring well network around these ponds consists of six monitoring wells (MW-05, MW-06, MW-09, MW-10, MW-11, and MW-12) as shown on Figure 1. Wells MW-05 and MW-06 are upgradient wells. In addition, two assessment wells were installed, MW-16 and MW-17, as part of defining the nature and extent of impacts in accordance with Section 257.95(g)(1).

This overview of the 2024 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 is operating under assessment monitoring in accordance with Section 257.95. The shift to assessment monitoring occurred on March 28, 2022.
- Section 257.90(e)(6)(iii) – The following confirmed potential statistically significant increases (SSIs) above established background for Appendix III detection monitoring constituents were noted during this monitoring period:
 - MW-09 – chloride (1st through 4th quarter)
 - MW-10 – fluoride (2nd through 4th quarters)
 - MW-12 – chloride (2nd through 4th quarters) and total dissolved solids (TDS) (1st through 4th quarters)

Wells MW-05 and MW-06 are upgradient monitoring points.

- Section 257.90(e)(6)(iv) – The following Appendix IV constituents were detected above the established Groundwater Protection Standards (GWPSs):
 - Arsenic – MW-10 (1st, 2nd and 4th quarters), MW-11 (1st and 2nd quarters)

- o Molybdenum: MW-10 (3rd through 4th quarters), MW-17 (1st through 4th quarters)

Well MW-17 is an assessment well installed to assist in defining the nature and extent of impacts (see Section 4.0). Based on fourth quarter 2022 assessment verification sampling data for arsenic, which was received on January 9, 2023, an Assessment of Corrective Measures (ACM) for Ponds 2S and 3S was initiated on February 14, 2023 and completed on May 11, 2023. Public meetings were held on June 7th and 8th, 2023 presenting the results of the ACM.

In accordance with Section 257.95(g)(1) work has been ongoing to define the nature and extent of the release. Results of the work are discussed in Section 4.0 of this annual report.

- 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 August 1, 2023) under the State CCR Rule program prior to being able to proceed with final remedy selection and subsequent implementation.
- Section 257.90(e)(6)(vi) – As noted above, because Midwest Generation is waiting for an approved Construction Permit Application from IEPA, remedial activities pursuant to Section 257.98 were not initiated during this reporting period.

1.0 INTRODUCTION

In the 2024 reporting period, assessment monitoring requirements in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Parts 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 pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Will County Generating Station. The wells sampled were selected to meet the monitoring requirements of the CCR Rule for Ash Ponds 2 South (2S) and 3 South (3S). The CCR monitoring well network around these ponds consists of six monitoring wells (MW-05, MW-06, MW-09, MW-10, MW-11, and MW-12) as shown on Figure 1. Wells MW-05 and MW-06 are upgradient wells.

This annual report covers the work performed relative to CCR groundwater monitoring for the calendar year 2024. It does not duplicate information or activities previously reported for prior years. 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 and summarizes the analytical data generated.

2.0 FIELD PROCEDURES AND GROUNDWATER FLOW EVALUATION

2.1 Field Procedures

As previously noted, the CCR groundwater monitoring network around the Ash Ponds 2S and 3S at the Will County facility consists of six wells (MW-05, MW-06, MW-09, MW-10, MW-11, and MW-12) 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). Wells MW-05, MW-06, and MW-09 were found in good condition with locked protector casings and intact concrete surface seals. Wells MW-10, MW-11, and MW-12 are completed with flush-mounts at ground surface and were also in good condition.

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. These maps are provided in Attachment 1. A review of the maps indicates a consistent westerly groundwater flow direction. In accordance with general groundwater sampling requirements under Section 257.93(c), Table 2 provides a summary of the flow direction 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 based on a re-evaluation of slug test data performed by Patrick Engineering as part of a hydrogeologic assessment dated

February 2011. The estimated effective porosity of the sandy materials (0.35) was obtained from literature (Applied Hydrogeology, Fetter, 1980).

3.0 ANALYTICAL DATA AND STATUS OF EVALUATIONS

3.1 Sampling Summary

The groundwater sampling summary from the 2024 reporting period is provided in Table 3, in accordance with 257.90 (e)(3).

3.2 Data Summary

The analytical data from the detection monitoring groundwater sampling for Appendix III parameters are provided in Table 4 which includes calculated Prediction Limits (PLs) established in the initial CCR Groundwater Monitoring Statistical Evaluation Summary dated January 2018 for data comparison purposes. The downgradient intrawell prediction limits were established for the three parameters which were part of the Alternate Source Demonstration (ASD) as recommended at the end of that evaluation. Table 5 includes a summary of Appendix IV sampling data generated as part of assessment monitoring which was initiated the 2nd quarter 2022. Table 4 includes calculated GWPSs for any Appendix IV constituents detected during the initial round of assessment monitoring data in accordance with Sections 257.95(h).

Quarterly groundwater sampling was completed during the 2024 reporting period. The full list of Appendix III and IV parameters were analyzed. The data summarized in Tables 4 and 5 include the sample dates and whether the specific well is considered upgradient or downgradient relative to groundwater flow and the regulated unit. The analytical data packages are provided in Attachment 2.

The following Appendix IV constituents were detected above the established Groundwater Protection Standards (GWPSs):

- o Arsenic – MW-10 (1st, 2nd and 4th quarters), MW-11 (1st and 2nd quarters)
- o Molybdenum: MW-10 (3rd through 4th quarters), MW-17 (1st through 4th quarters)

Well MW-17 is an assessment well installed to assist in defining the nature and extent of impacts (see Section 4.0).

3.3 Current Status

The site continues to be in assessment monitoring. Additional study is being performed for refining the definition of the extent of impacts in accordance with Section 257.95(g)(1), as discussed in Section 4.0.

4.0 OTHER REQUIRED SUBMITTALS

In accordance with Section 257.95(g)(1), a nature and extent of impacts evaluations has been initiated and is ongoing. As part of the nature and extent evaluation work completed to date, the CCR monitoring network was expanded to include assessment monitoring wells MW-16 and MW-17 located downgradient, to the west and southwest of the regulated units (see Figure 1). Several rounds of sampling at these wells have been completed and a Nature and Extent of Impacts Evaluation dated October 9, 2024 was issued. The objective of the study was to define the extent of groundwater impacts above the established GWPS downgradient of Ponds 2S and 3S to the west and southwest. The results of the study are summarized as follows:

- Arsenic and molybdenum were detected in CCR network monitoring wells above their respective site-specific GWPSs.
- With the installation of assessment monitoring wells MW-16 and MW-17, the extent of arsenic impacts has been fully defined, however, the extent of molybdenum impacts have not yet been fully defined to the south.

The study recommends installing one additional assessment well to the south of well MW-17 to further refine the extent of molybdenum impacts in that direction. This refinement work is ongoing.

5.0 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. The wells which showed concentrations of Appendix IV parameters above the established GWPSs were as follows:

- Arsenic – MW-10 (1st, 2nd and 4th quarters), MW-11 (1st and 2nd quarters)
- Molybdenum: MW-10 (3rd through 4th quarters), MW-17 (1st through 4th quarters)

Well MW-17 is an assessment well to installed assist in defining the nature and extent of impacts (see Section 4.0).

At this time, it is recommended to continue with assessment monitoring in accordance with Section 257.95 and formalize selection of remedy in accordance with Section 257.97 once the Initial Application for Initial Construction Permit submitted to IEPA on August 1, 2023, 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.

A refinement of the nature and extent of impacts evaluation is also currently ongoing in accordance with Section 257.95(g)(1). Results of the additional ongoing work will be provided under separate cover.

6.0 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.
- Patrick Engineering, Inc., Hydrogeologic Assessment Report – Will County Generating Station, Romeoville, IL. February 2011.
- KPRG and Associates, Inc., CCR Compliance Monitoring, Sampling and Analysis Plan, Midwest Generation, LLC Will County Generating Station. October 10, 2017.
- KPRG and Associates, Inc., CCR Compliance Statistical Approach for Groundwater Data Evaluation, Midwest Generation, LLC Will County Generating Station. October 10, 2017.
- KPRG and Associates, Inc., CCR Groundwater Monitoring Statistical Evaluation Summary - 2017, Midwest Generation, LLC Will County Generating Station. January 12, 2018.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2017, Midwest Generation, LLC Will County Generating Station. January 31, 2018.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2018, Midwest Generation, LLC Will County Generating Station. January 31, 2019.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2019, Midwest Generation, LLC Will County Generating Station. January 31, 2020.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2020, Midwest Generation, LLC Will County Generating Station. January 31, 2021.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2021, Midwest Generation, LLC Will County Generating Station. January 31, 2022.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2022, Midwest Generation, LLC Will County Generating Station. January 31, 2023.

- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2023, Midwest Generation, LLC Will County Generating Station. January 31, 2024.
- C.W. Fetter, Jr., Applied Hydrogeology. Charles E. Merrill Publishing Co., 1980.

FIGURE

SEWAGE
TREATMENT
PLANT

WASTEWATER
TREATMENT

N

DES PLAINES RIVER

MW-15
MW-01
ASH
POND
1-N
MW-07
MW-14
MW-02

MW-08
MW-13
ASH
POND
1-S
MW-03
MW-04

MW-09
ASH
POND
2-S
MW-05
MW-11
MW-16

MW-10
ASH
POND
3-S
MW-06
MW-12
MW-17

RETENTION
POND

LEGEND

- MW-13 ■ STATE CCR MONITORING WELL
- MW-12 ■ 2-S 3-S CCR MONITORING WELL

0 250'
APPROXIMATE SCALE

ENVIRONMENTAL CONSULTATION & REMEDIATION

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SITE MAP

WILL COUNTY STATION
ROMEOVILLE, ILLINOIS

Scale: 1" = 250'

Date: January 10, 2025

KPRG Project No. 12313.3

FIGURE 1

TABLES

Table 1. Groundwater Elevations - Midwest Generation, LLC, Will County Station, Romeoville, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-05	11/9/2015	992.87	9.99	982.88
	2/16/2016	992.87	9.91	982.96
	5/24/2016	992.87	9.94	982.93
	8/9/2016	992.87	10.09	982.78
	10/25/2016	992.87	9.02	983.85
	1/31/2017	992.87	9.81	983.06
	5/9/2017	992.87	9.63	983.24
	6/27/2017	992.87	10.26	982.61
	9/6/2017	992.87	10.48	982.39
	11/16/2017	992.87	10.02	982.85
	2/28/2018	992.87	9.40	983.29
	5/1/2018	992.87	9.94	982.93
	10/2/2018	992.87	10.64	982.23
	5/28/2019	992.87	8.73	984.14
	12/5/2019	992.87	9.92	982.95
	5/22/2020	992.87	9.39	983.48
	11/3/2020	992.87	10.48	982.39
	5/24/2021	992.87	10.21	982.66
	11/19/2021	992.87	10.25	982.62
	1/19/2022	992.87	10.54	982.33
	2/10/2022	992.87	10.85	982.02
	3/14/2022	992.87	9.90	982.97
	4/6/2022	992.87	9.59	983.28
	5/23/2022	992.87	10.06	982.81
	6/29/2022	992.87	10.68	982.19
	7/19/2022	992.87	10.40	982.47
	8/23/2022	992.87	10.26	982.61
	9/20/2022	992.87	10.17	982.70
	10/13/2022	992.87	11.09	981.78
	11/15/2022	992.87	10.66	982.21
	12/19/2022	992.87	9.96	982.91
	1/26/2023	992.87	10.03	982.84
	2/21/2023	992.87	9.88	982.99
	3/15/2023	992.87	9.92	982.95
	4/25/2023	992.87	10.29	982.58
	5/19/2023	992.87	10.68	982.19
	6/8/2023	992.87	11.50	981.37
	7/25/2023	992.87	10.19	982.68
	8/29/2023	992.87	10.47	982.40
	9/21/2023	992.87	9.97	982.90
	10/19/2023	992.87	10.11	982.76
	11/14/2023	992.87	10.51	982.36
	12/7/2023	992.87	10.03	982.84
	1/11/2024	992.87	9.84	983.03
	2/5/2024	992.87	9.87	983.00
	3/8/2024	992.87	9.94	982.93
	4/19/2024	992.87	10.03	982.84
	5/6/2024	992.87	9.79	983.08
	6/20/2024	992.87	10.45	982.42
	7/25/2024	992.87	10.26	982.61
	8/1/2024	992.87	10.53	982.34
	9/23/2024	992.87	11.04	981.83
	10/25/2024	992.87	11.62	981.25
	11/1/2024	992.87	11.76	981.11
	12/17/2024	992.87	10.78	982.09
MW-06	11/9/2015	993.18	9.96	983.22
	2/16/2016	993.18	11.37	981.81
	5/24/2016	993.18	11.37	981.81
	8/9/2016	993.18	11.54	981.64
	10/25/2016	993.18	11.37	981.81
	1/31/2017	993.18	11.24	981.94
	5/9/2017	993.18	10.86	982.32
	6/27/2017	993.18	11.55	981.63
	9/6/2017	993.18	11.77	981.41
	11/16/2017	993.18	11.49	981.69
	2/28/2018	993.18	10.91	982.27
	5/1/2018	993.18	11.47	981.71
	10/2/2018	993.18	11.89	981.29
	5/28/2019	993.18	10.18	983.00
	12/5/2019	993.18	11.51	981.67
	5/22/2020	993.18	10.55	982.63
	11/3/2020	993.18	11.86	981.32
	5/24/2021	993.18	11.85	981.33
	11/19/2021	993.18	11.85	981.33
	1/19/2022	993.18	12.07	981.11
	2/10/2022	993.18	12.20	980.98
	3/14/2022	993.18	11.61	981.57
	4/6/2022	993.18	11.07	982.11
	5/23/2022	993.18	11.62	981.56
	6/29/2022	993.18	12.21	980.97
	7/19/2022	993.18	11.88	981.30
	8/23/2022	993.18	12.57	980.61
	9/30/2022	993.18	11.78	981.40
	10/13/2022	993.18	12.37	980.81
	11/15/2022	993.18	12.14	981.04
	12/19/2022	993.18	11.53	981.65
	1/26/2023	993.18	11.66	981.52
	2/21/2023	993.18	11.57	981.61
	3/15/2023	993.18	11.61	981.57
	4/25/2023	993.18	11.98	981.20
	5/19/2023	993.18	12.21	980.97
	6/8/2023	993.18	12.83	980.35
	7/25/2023	993.18	11.96	981.22
	8/29/2023	993.18	12.06	981.12
	9/21/2023	993.18	11.58	981.60
	10/19/2023	993.18	11.72	981.46
	11/14/2023	993.18	12.13	981.05
	12/7/2023	993.18	11.59	981.59
	1/11/2024	993.18	11.38	981.80
	2/5/2024	993.18	11.62	981.56
	3/8/2024	993.18	11.54	981.64
	4/19/2024	993.18	11.80	981.38
	5/6/2024	993.18	11.49	981.69
	6/20/2024	993.18	12.11	981.07
	7/25/2024	993.18	11.87	981.31
	8/1/2024	993.18	12.06	981.12
	9/23/2024	993.18	12.22	980.96
	10/25/2024	993.18	12.77	980.41
	11/1/2024	993.18	12.85	980.33
	12/17/2024	993.18	12.24	980.94

Table 1. Groundwater Elevations - Midwest Generation, LLC, Will County Station, Romeoville, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-09	11/9/2015	992.87	11.38	981.49
	2/16/2016	992.87	11.03	981.84
	5/24/2016	992.87	11.35	981.52
	8/9/2016	992.87	11.43	981.44
	10/25/2016	992.87	10.74	982.13
	1/31/2017	992.87	11.15	981.72
	5/9/2017	992.87	10.45	982.42
	6/27/2017	992.87	11.66	981.21
	9/6/2017	992.87	11.95	980.92
	11/14/2017	992.87	11.54	981.33
	2/27/2018	992.87	10.13	982.74
	5/7/2018	992.87	11.39	981.48
	10/2/2018	992.87	11.91	980.96
	5/28/2019	992.87	9.65	983.22
	12/5/2019	992.87	11.17	981.70
	5/26/2020	992.87	9.67	983.20
	11/3/2020	992.87	11.90	980.97
	5/25/2021	992.87	12.62	980.25
	11/19/2021	992.87	11.84	981.03
	1/19/2022	992.87	12.04	980.83
	2/10/2022	992.87	12.12	980.75
	3/14/2022	992.87	11.48	981.39
	4/6/2022	992.87	10.46	982.41
	5/23/2022	992.87	11.22	981.65
	6/29/2022	992.87	12.20	980.67
	7/19/2022	992.87	11.86	981.01
	8/23/2022	992.87	11.59	981.28
	9/20/2022	992.87	11.39	981.48
	10/13/2022	992.87	11.97	980.90
	11/15/2022	992.87	12.25	980.62
	12/19/2022	992.87	11.34	981.53
	1/26/2023	992.87	11.59	981.28
	2/21/2023	992.87	11.28	981.59
	3/15/2023	992.87	11.07	981.80
	4/25/2023	992.87	11.80	981.07
	5/19/2023	992.87	12.18	980.71
	6/8/2023	992.87	12.79	980.08
	7/25/2023	992.87	11.89	980.98
	8/29/2023	992.87	12.08	980.79
	9/21/2023	992.87	11.35	981.52
	10/19/2023	992.87	11.45	981.42
	11/14/2023	992.87	12.23	980.64
	12/7/2023	992.87	11.56	981.31
	1/11/2024	992.87	11.13	981.74
	2/5/2024	992.87	11.01	981.86
	3/8/2024	992.87	11.11	981.76
	4/19/2024	992.87	11.44	981.43
	5/6/2024	992.87	11.01	981.86
	6/20/2024	992.87	12.15	980.72
	7/25/2024	992.87	11.08	981.79
	8/1/2024	992.87	11.46	981.41
	9/23/2024	992.87	12.07	980.80
	10/25/2024	992.87	12.71	980.16
	11/1/2024	992.87	12.81	980.06
	12/17/2024	992.87	12.21	980.66
MW-10	11/9/2015	990.96	10.65	980.31
	2/16/2016	990.96	10.41	980.55
	5/24/2016	990.96	10.72	980.24
	8/9/2016	990.96	11.12	979.84
	10/25/2016	990.96	10.71	980.23
	1/31/2017	990.96	10.37	980.59
	5/9/2017	990.96	9.78	981.18
	6/27/2017	990.96	11.09	979.87
	9/6/2017	990.96	11.20	979.76
	11/12/2017	990.96	10.76	980.20
	2/27/2018	990.96	9.54	981.42
	5/1/2018	990.96	10.64	980.32
	10/2/2018	990.96	11.12	979.84
	5/28/2019	990.96	9.02	981.94
	12/5/2019	990.96	10.28	980.68
	5/27/2020	990.96	8.89	982.07
	11/3/2020	990.96	10.68	980.28
	5/24/2021	990.96	11.06	979.90
	11/19/2021	990.96	10.72	980.24
	1/19/2022	990.96	11.00	979.96
	2/10/2022	990.96	10.95	980.01
	3/14/2022	990.96	10.57	980.39
	4/6/2022	990.96	9.74	981.22
	5/23/2022	990.96	8.99	981.97
	6/29/2022	990.96	11.50	979.46
	7/19/2022	990.96	11.03	979.93
	8/23/2022	990.96	10.86	980.10
	9/20/2022	990.96	10.35	980.61
	10/13/2022	990.96	11.06	979.90
	11/15/2022	990.96	11.15	979.81
	12/19/2022	990.96	10.62	980.34
	1/26/2023	990.96	10.59	980.46
	2/21/2023	990.96	10.26	980.70
	3/15/2023	990.96	10.06	980.90
	4/25/2023	990.96	10.77	980.19
	5/19/2023	990.96	11.14	979.82
	6/8/2023	990.96	11.77	979.19
	7/25/2023	990.96	11.62	979.34
	8/29/2023	990.96	11.13	979.83
	9/21/2023	990.96	10.34	980.62
	10/19/2023	990.96	10.33	980.63
	11/14/2023	990.96	11.11	979.85
	12/7/2023	990.96	10.35	980.61
	1/11/2024	990.96	10.10	980.86
	2/5/2024	990.96	10.03	980.93
	3/8/2024	990.96	9.96	981.00
	4/19/2024	990.96	10.47	980.49
	5/6/2024	990.96	10.12	980.84
	6/20/2024	990.96	10.23	980.73
	7/25/2024	990.96	9.67	981.29
	8/1/2024	990.96	10.23	980.73
	9/23/2024	990.96	11.01	979.95
	10/25/2024	990.96	11.58	979.38
	11/1/2024	990.96	11.55	979.41
	12/17/2024	990.96	10.89	980.07

Table 1. Groundwater Elevations - Midwest Generation, LLC, Will County Station, Romeoville, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-11	11/9/2015	990.69	10.28	980.41
	2/16/2016	990.69	10.15	980.54
	5/24/2016	990.69	10.25	980.44
	8/9/2016	990.69	10.66	980.03
	10/25/2016	990.69	10.42	980.27
	1/31/2017	990.69	9.91	980.78
	5/9/2017	990.69	9.21	981.48
	6/27/2017	990.69	10.48	980.21
	9/6/2017	990.69	10.73	979.96
	11/15/2017	990.69	10.43	980.26
	5/7/2018	990.69	10.18	980.51
	10/2/2018	990.69	10.59	980.10
	5/20/2019	990.69	8.32	982.37
	12/5/2019	990.69	9.85	980.84
	5/26/2020	990.69	8.99	981.69
	11/3/2020	990.69	10.58	980.11
	5/24/2021	990.69	10.76	979.93
	8/23/2021	990.69	10.75	979.94
	11/19/2021	990.69	10.60	980.09
	1/19/2022	990.69	10.67	980.02
	2/10/2022	990.69	11.21	979.48
	3/14/2022	990.69	10.24	980.45
	4/6/2022	990.69	9.14	981.55
	5/23/2022	990.69	9.72	980.97
	6/29/2022	990.69	11.00	979.69
	7/19/2022	990.69	10.44	980.25
	8/23/2022	990.69	10.35	980.34
	9/30/2022	990.69	9.82	980.87
	10/13/2022	990.69	10.44	980.25
	11/15/2022	990.69	10.92	979.77
	12/19/2022	990.69	9.77	980.92
	1/26/2023	990.69	10.68	980.01
	2/21/2023	990.69	9.82	980.87
	3/15/2023	990.69	9.54	981.15
	4/25/2023	990.69	10.39	980.30
	5/19/2023	990.69	10.72	979.97
	6/8/2023	990.69	11.33	979.36
	7/25/2023	990.69	10.32	980.37
	8/29/2023	990.69	10.66	980.03
	9/21/2023	990.69	9.86	980.83
	10/19/2023	990.69	9.91	980.78
	11/14/2023	990.69	10.94	979.75
	12/7/2023	990.69	10.11	980.58
	1/11/2024	990.69	9.52	981.17
	2/5/2024	990.69	9.49	981.20
	3/8/2024	990.69	9.44	981.25
	4/19/2024	990.69	9.93	980.76
	5/6/2024	990.69	9.52	981.17
	6/20/2024	990.69	10.68	980.01
	7/25/2024	990.69	9.22	981.47
	8/1/2024	990.69	9.76	980.93
	9/23/2024	990.69	10.44	980.25
	10/25/2024	990.69	11.15	979.54
	11/1/2024	990.69	11.23	979.46
	12/17/2024	990.69	10.69	980.00
MW-12	11/9/2015	990.81	10.15	980.66
	2/16/2016	990.81	10.24	980.57
	5/24/2016	990.81	10.31	980.50
	8/9/2016	990.81	10.73	980.08
	10/25/2016	990.81	10.45	980.36
	1/31/2017	990.81	10.18	980.63
	5/9/2017	990.81	9.88	980.93
	6/27/2017	990.81	10.62	980.19
	9/6/2017	990.81	10.61	980.20
	11/15/2017	990.81	10.20	980.61
	5/1/2018	990.81	10.30	980.51
	10/2/2018	990.81	10.77	980.04
	5/20/2019	990.81	9.17	981.64
	12/5/2019	990.81	10.15	980.66
	5/22/2020	990.81	9.88	980.93
	11/3/2020	990.81	10.49	980.32
	5/24/2021	990.81	10.65	980.16
	8/23/2021	990.81	11.05	979.76
	11/19/2021	990.81	10.48	980.33
	1/19/2022	990.81	10.63	980.18
	2/10/2022	990.81	10.65	980.16
	3/14/2022	990.81	10.24	980.57
	4/6/2022	990.81	9.83	980.98
	5/23/2022	990.81	10.18	980.63
	6/29/2022	990.81	11.15	979.66
	7/19/2022	990.81	10.62	980.19
	8/23/2022	990.81	10.34	980.47
	9/20/2022	990.81	10.22	980.59
	10/13/2022	990.81	10.78	980.03
	11/15/2022	990.81	10.77	980.04
	12/19/2022	990.81	9.97	980.84
	1/26/2023	990.81	10.18	980.63
	2/21/2023	990.81	10.12	980.69
	3/15/2023	990.81	10.03	980.78
	4/24/2023	990.81	10.77	980.04
	5/19/2023	990.81	10.64	980.17
	6/8/2023	990.81	11.46	979.35
	7/25/2023	990.81	10.57	980.24
	8/29/2023	990.81	10.77	980.04
	9/21/2023	990.81	10.15	980.66
	10/19/2023	990.81	10.17	980.64
	11/14/2023	990.81	10.67	980.14
	12/7/2023	990.81	10.14	980.67
	1/11/2024	990.81	10.03	980.78
	2/5/2024	990.81	9.99	980.82
	3/8/2024	990.81	9.99	980.82
	4/19/2024	990.81	10.13	980.68
	5/6/2024	990.81	10.01	980.80
	6/20/2024	990.81	10.78	980.03
	7/25/2024	990.81	9.76	981.05
	8/1/2024	990.81	10.16	980.65
	9/23/2024	990.81	11.62	979.19
	10/25/2024	990.81	11.30	979.51
	11/1/2024	990.81	11.26	979.55
	12/17/2024	990.81	10.56	980.25

Table 1. Groundwater Elevations - Midwest Generation, LLC, Will County Station, Romeoville, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-16	1/11/2024	585.26	4.82	580.44
	2/5/2024	585.26	4.67	580.59
	3/8/2024	585.26	4.53	580.73
	4/19/2024	585.26	5.13	580.13
	5/6/2024	585.26	4.88	580.38
	6/20/2024	585.26	6.22	579.04
	7/25/2024	585.26	4.24	581.02
	8/1/2024	585.26	4.81	580.45
	9/23/2024	585.26	5.49	579.77
	10/25/2024	585.26	6.35	578.91
	11/1/2024	585.26	6.56	578.70
	12/17/2024	585.26	5.62	579.64
MW-17	1/11/2024	585.43	5.16	580.27
	2/5/2024	585.43	5.09	580.34
	3/8/2024	585.43	5.03	580.4
	4/19/2024	585.43	5.54	579.89
	5/6/2024	585.43	5.30	580.13
	6/20/2024	585.43	6.31	579.12
	7/25/2024	585.43	4.57	580.86
	8/1/2024	585.43	5.22	580.21
	9/23/2024	585.43	5.69	579.74
	10/25/2024	585.43	6.03	579.40
	11/1/2024	585.43	6.39	579.04
	12/17/2024	585.43	5.67	579.76
MSL = Mean Sea Level				
TOC = Top of Casing				

Table 2. Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate - Will County Generation Station.

DATE	Groundwater Flow Direction	Kavg (ft/sec)*	Average Hydraulic Gradient (ft/ft)	Porosity (unitless)**	Estimated Seepage Velocity (ft/day)
4/26/2023	West	2.315E-04	0.0046	0.2	0.46
7/26/2023	West	2.315E-04	0.0060	0.2	0.60
10/24/2023	West	2.315E-04	0.0055	0.2	0.55
2/5/2024	West	2.315E-04	0.0053	0.2	0.53
5/14/2024	West	2.315E-04	0.0072	0.2	0.72
8/1/2024	West	2.315E-04	0.0080	0.2	0.80
11/1/2024	West	2.315E-04	0.0047	0.2	0.47

* Kavg - K values from re-evaluation of slug test data as part of groundwater modeling in support of Application for Construction Permit per Illinois State CCR Rule.

** - Porosity estimate from Groundwater, Freeze and Cherry, 1979.

Table 3. CCR Groundwater Sample Collection Summary for 2024 - Will County Generating Station

Well ID	Number of Groundwater Sampling Events	Dates Groundwater Sampling Events	Detection Monitoring (D) versus Assessment Monitoring (A)
MW-05 (Upgradient)	4	2/5/2024	A
		5/6/2024	A
		8/1/2024	A
		11/1/2024	A
MW-06 (Upgradient)	4	2/5/2024	A
		5/6/2024	A
		8/1/2024	A
		11/1/2024	A
MW-09 (Downgradient)	4	2/5/2024	A
		5/6/2024	A
		8/1/2024	A
		11/1/2024	A
MW-10 (Downgradient)	4	2/5/2024	A
		5/6/2024	A
		8/1/2024	A
		11/1/2024	A
MW-11 (Downgradient)	4	2/5/2024	A
		5/6/2024	A
		8/1/2024	A
		11/1/2024	A
MW-12 (Downgradient)	4	2/5/2024	A
		5/6/2024	A
		8/1/2024	A
		11/1/2024	A
MW-16 (Downgradient)	4	2/5/2024	A
		5/6/2024	A
		8/1/2024	A
		11/1/2024	A
MW-17 (Downgradient)	4	2/5/2024	A
		5/6/2024	A
		8/1/2024	A
		11/1/2024	A

Table 4. Appendix III Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
MW-05 up-gradient	11/11/2015	6.1	220	110	0.31	7.24	770	1,900
	2/18/2016	4.4	230	120	0.31	6.99	730	1,600
	5/26/2016	3.7	170	110	0.33	6.73	670	1,500
	8/19/2016	3.6	67	120	0.72	8.62	490	970
	10/26/2016	3.6	44	120	0.70	9.08	410	920
	2/1/2017	4.6	250	48	0.35	6.81	530	1,600
	5/11/2017	4.0	140	85	0.31	7.86	610	1,200
	6/27/2017	3.8	83	99	0.53	7.95	500	1,000
	Pred. Limit*	6.65	359	148	0.72	9.93-5.39	923	2,286
	9/8/2017	4.8	89	78	0.52	9.40	490	1,000
	11/16/2017	4.8	180	52	0.45	6.70	650	1,500
	5/2/2018	3.6	200	32	0.39	7.23	510	1,300
	10/3/2018	4.9	150	55	0.48	7.07	430	1,200
	5/29/2019	4.1	61	91	0.59	9.10	380	870
	12/6/2019	4.9	170	31	0.41	6.95	440	1,200
	5/22/2020	4.5	52	70	0.59	7.39	300	870
	11/4/2020	5.0	130	29	0.38	7.06	410	1,100
	5/24/2021	4.7	120	28	0.53	7.07	430	1,000
	11/23/2021	5.5	140	22	0.44	6.80	370	1,100
	2/24/2022	4.9	210	25	0.39	6.73	660	1,400
	6/16/2022	5.1	120	41	0.34	7.05	510	1,100
	8/25/2022	6.6	130	20	0.40	6.69	300	940
	11/15/2022	8.9	150	9.8	0.72	6.78	310	930
	2/23/2023	6.3	120	26	0.43	6.83	430	1,100
	4/26/2023	4.9	210	33	0.47	6.73	670	1,600
	7/26/2023	4.8	180	18	0.50	6.91	440	1,200
	10/24/2023	6.8	140	8.6	0.52	6.68	210	850
	12/7/2023 R	5.7	NS	NS	NS	NS	NS	NS
	2/7/2024	4.8	260	38	0.32	6.62	800	1900
	5/8/2024	5.3	83	34	0.65	7.36	450	930
	8/6/2024	5.2	120	31	0.52	6.72	420	1000
	11/5/2024	5.8	110	30	0.58	7.46	410	1000
MW-06 up-gradient	11/10/2015	3.0	52	100	0.55	8.63	300	660
	2/18/2016	2.5	74	150	0.47	8.58	280	650
	5/26/2016	2.7	86	92	0.44	7.79	250	800
	8/11/2016	3.6	110	58	0.35	7.74	330	840
	10/26/2016	3.8	86	74	0.40	8.16	220	800
	2/1/2017	3.4	70	83	0.41	7.88	260	700
	5/11/2017	3.0	75	84	0.28	8.68	330	570
	6/27/2017	3.1	65	74	0.38	8.15	330	710
	Pred. Limit*	4.29	122	162	0.62	9.21-7.19	415	956
	9/7/2017	3.5	75	67	0.40	8.20	300	740
	11/16/2017	3.9	88	54	0.39	7.59	280	810
	5/3/2018	3.0	91	52	0.26	6.91	530	750
	7/25/2018 R	NA	NA	NA	NA	7.47	280	NA
	10/3/2018	3.5	93	44	0.31	7.83	240	720
	5/29/2019	4.3	120	38	0.21	7.51	350	1,000
	7/3/2019 R	3.2	NA	NA	NA	NA	NA	740
	12/6/2019	4.2	98	31	0.33	7.91	210	740
	5/22/2020	3.4	98	56	0.31	7.47	180	710
	11/3/2020	3.3	100	43	0.36	7.29	170	700
	5/24/2021	2.6	99	46	0.33	7.65	160	610
	11/23/2021	2.6	85	43	0.37	7.48	150	720
	2/22/2022	2.8	130	35	0.33	7.29	260	940
	6/14/2022	2.5	110	22	0.35	7.06	210	610
	8/25/2022	2.7	110	20	0.42	7.31	170	750
	11/16/2022	3.2	110	19	0.47	7.41	160	600
	2/23/2023	3.0	110	17	0.35	7.54	190	680
	4/26/2023	2.0	100	15	0.36	7.42	150	610
	7/26/2023	2.5	110	16	0.42	7.60	170	610
	10/24/2023	2.5	100	13	0.40	7.34	140	580
	2/7/2024	2.5	96	12	0.39	7.39	150	570
	5/8/2024	2.3	110	13	0.37	7.66	180	630
	8/6/2024	2.3	110	15	0.38	7.34	180	580
	11/5/2024	2.8	120	11	0.42	7.61	160	720
MW-09 down-gradient	11/11/2015	1.9	56	190	0.55	9.12	460	750
	2/17/2016	1.8	47	160	0.55	9.10	250	600
	5/24/2016	1.6	48	180	0.51	8.79	240	640
	8/9/2016	2.2	53	140	0.48	8.35	280	750
	10/26/2016	2.2	33	130	0.81	9.16	230	660
	1/31/2017	2.0	61	250	0.57	8.59	180	710
	5/9/2017	1.8	66	340	0.38	8.58	250	900
	6/27/2017	1.9	64	330	0.51	7.76	240	940
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	9/6/2017	1.8	59	310	0.51	8.98	240	890
	11/14/2017	2.6	160	270	0.51	8.1	290	910
	5/1/2018	1.7	49	200	0.52	7.81	430	820
	7/25/2018 R	NA	NA	NA	NA	NA	320	NA
	10/2/2018	2.1	49	170	0.55	8.09	270	820
	5/29/2019	1.5	48	280	0.29	8.90	150	750
	12/6/2019	2.0	38	140	0.46	8.65	160	630
	5/26/2020	1.3	55	320	0.32	8.66	140	720
	11/3/2020	2.0	43	240	0.55	8.64	180	750
	5/26/2021	1.6	67	360	0.39	8.74	180	900
	11/23/2021	1.1	30	290	0.47	8.73	210	900
	2/22/2022	1.5	49	250	0.40	8.65	160	900
	6/15/2022	1.9	43	230	0.48	8.35	180	730
	8/25/2022	2.1	38	210	0.58	8.68	190	770
	11/16/2022	2.3	37	210	0.79	8.82	160	690
	2/23/2023	2.0	38	190	0.53	9.04	210	680
	4/26/2023	1.8	38	190	0.48	8.82	220	750
	7/26/2023	2.0	44	190	0.49	8.83	250	720
	10/24/2023	2.0	41	200	0.52	8.68	200	770
	2/7/2024	2.1	39	190	0.60	8.89	230	680
	5/8/2024	1.8	41	180	0.52	9.33	230	740
	8/5/2024	1.9	45	200	0.54	8.71	220	800
	11/4/2024	2.2	40	220	0.59	9.01	230	810

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

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

** - Based on pooled background from MW-5/MW-6. All others based on MW-6 as background.

Italics Date - First round of Detection Monitoring and resample after statistical background establishment.

NC - Not calculated.

BOLD D - Potential statistically significant increase relative to interwell Prediction Limit.

NA - Not analyzed. No confirmation resample required.

R - Resample

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

Table 4. Appendix III Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
MW-10 down-gradient	11/10/2015	3.9	140	140	0.77	7.34	310	980
	2/16/2016	3.6	150	240	0.79	7.29	290	950
	5/25/2016	3.6	120	140	0.83	7.26	260	1,000
	8/10/2016	4.3	150	120	0.78	7.22	230	970
	10/26/2016	3.0	160	74	0.52	7.30	220	1,000
	2/2/2017	3.7	180	81	0.54	7.16	160	930
	5/10/2017	3.0	150	100	0.44	7.83	340	860
	6/27/2017	2.8	130	110	0.67	7.49	250	930
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	9/7/2017	2.8	120	120	0.77	7.37	290	920
	11/15/2017	4.1	140	120	0.77	7.10	270	1,000
	5/1/2018	3.2	150	130	0.65	7.31	280	990
	10/3/2018	2.5	110	140	0.89	7.60	200	860
	5/29/2019	2.8	100	140	0.84	7.53	260	860
	12/5/2019	3.7	120	110	0.93	7.21	190	940
	5/27/2020	2.3	100	170	0.90	7.29	280	850
	11/3/2020	3.7	130	140	0.87	7.02	180	920
	5/25/2021	3.0	160	130	0.62	7.16	160	910
	11/23/2021	2.7	110	130	0.71	7.07	230	990
	2/24/2022	2.6	130	120	0.53	7.02	170	840
	6/14/2022	2.9	100	140	0.86	6.99	280	790
	8/25/2022	2.6	130	140	0.99	7.47	280	910
	11/16/2022	4.4	130	160	0.94	7.15	220	910
	2/23/2023	3.7	140	140	0.71	7.11	250	930
	4/26/2023	2.8	99	150	0.94	7.23	250	900
	7/26/2023	3.7	120	150	0.81	7.37	260	910
	10/24/2023	2.9	99	160	0.89	7.19	230	920
	2/7/2024	3.7	130	120	0.69	6.94	290	910
	5/8/2024	2.7	110	130	0.81	7.23	290	860
	8/5/2024	2.4	89	140	0.92	7.43	310	850
	11/4/2024	3.3	120	130	0.84	7.21	260	910
MW-11 down-gradient	11/10/2015	2.6	120	89	0.61	7.60	180	620
	2/16/2016	3.0	100	88	0.68	7.47	170	640
	5/25/2016	2.8	82	98	0.75	7.43	170	640
	8/10/2016	3.1	96	86	0.72	7.57	150	660
	10/26/2016	2.5	110	67	0.53	7.82	120	630
	2/1/2017	3.9	110	72	0.65	7.54	110	600
	5/10/2017	3.1	95	84	0.46	8.37	170	590
	6/27/2017	2.8	87	90	0.59	7.57	150	680
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	9/7/2017	2.8	90	94	0.58	7.40	150	730
	11/15/2017	2.9	96	100	0.65	7.41	160	750
	5/3/2018	3.8	73	110	0.69	6.74	190	670
	10/3/2018	3.1	78	110	0.66	7.65	120	680
	5/29/2019	2.2	86	110	0.49	7.55	120	610
	12/5/2019	2.5	100	80	0.55	7.26	91	600
	5/26/2020	2.3	89	100	0.54	7.4	90	540
	11/3/2020	4.3	85	140	0.72	7.17	68	710
	5/25/2021	3.8	94	130	0.74	7.68	57	660
	11/23/2021	2.0	130	150	0.48	6.94	94	810
	12/22/2021 R	NA	NA	150	NA	7.03	NA	NA
	2/23/2022	1.8	130	150	0.38	6.94	91	760
	6/13/2022	2.8	120	140	0.40	7.22	97	700
	8/23/2022	2.5	110	140	0.53	6.94	160	740
	11/16/2022	3.8	120	130	0.71	7.34	66	700
	2/21/2023	2.2	120	130	0.45	7.08	81	710
	4/25/2023	2.8	110	130	0.53	7.14	75	730
	7/25/2023	2.2	120	120	0.46	7.12	80	740
	10/19/2023	3.0	120	120	0.55	7.12	74	770
	2/5/2024	2.4	120	130	0.45	7.12	78	730
	5/6/2024	2.9	110	120	0.52	7.37	68	720
	8/1/2024	3.2	100	120	0.53	7.70	76	790
	11/1/2024	3.2	110	130	0.55	7.50	71	760
MW-12 down-gradient	11/10/2015	2.3	150	160	0.59	7.44	290	1,000
	2/16/2016	1.8	130	140	0.52	7.38	220	850
	5/25/2016	1.9	130	150	0.54	7.23	250	890
	8/10/2016	2.4	170	140	0.49	7.20	280	1000
	10/26/2016	2.6	140	120	0.49	7.44	220	980
	2/1/2017	2.0	160	120	0.48	7.30	150	900
	5/10/2017	2.3	200	240	0.30	7.65	260	1,300
	6/27/2017	2.4	180	280	0.44	7.31	260	1,300
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	9/6/2017	2.6	190	270	0.49	7.26	260	1,400
	11/15/2017	1.7	55	200	0.47	6.90	250	1,200
	5/3/2018	1.8	140	170	0.47	6.60	170	960
	10/2/2018	F1 2.2	150	160	0.49	7.30	170	1,100
	5/29/2019	1.9	140	140	0.42	7.23	190	930
	12/5/2019	2.1	140	71	0.53	7.02	110	820
	5/22/2020	1.9	180	120	0.4	6.95	140	1,100
	11/3/2020	2.2	160	190	0.52	7.27	160	1,000
	5/25/2021	1.8	140	170	0.49	7.37	180	930
	11/23/2021	2.3	180	210	0.44	7.01	180	1,200
	2/24/2022	1.7	150	150	0.4	7.06	150	1,000
	6/13/2022	1.9	160	140	0.45	7.03	170	1,000
	8/23/2022	1.9	150	170	0.37	6.62	160	1,000
	11/16/2022	2.3	160	180	0.97	7.34	180	1,000
	2/21/2023	1.6	150	150	0.41	7.15	180	980
	4/25/2023	1.8	150	170	0.42	6.91	180	980
	7/25/2023	2.1	180	180	0.44	6.96	190	1,100
	10/19/2023	2.2	180	180	0.47	6.99	170	1,100
	2/5/2024	2.2	170	140	0.36	7.07	160	1,100
	5/6/2024	1.9	180	190	0.42	7.02	160	1,100
	8/1/2024	2.2	180	F1 180	0.44	7.66	200	1,100
	11/1/2024	2.5	190	210	0.49	7.20	200	1,200

Notes: All units are in mg/L, except pH is in standard units.
 * - Interwell Prediction Limit. All others are interwell comparisons.
 ** - Based on pooled background from MW-5/MW-6. All others based on MW-6 as background.
 Italics Date - First round of Detection Monitoring and resample after statistical background establishment.

BOLD - Potential statistically significant increase relative to interwell Prediction Limit.

NA - Not analyzed. No confirmation resample required.
 R - Resample
 F1 - MS and/or MSD Recovery outside of limits.

Table 5. Appendix IV Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-05 up-gradient	11/11/2015	< 0.003	0.0014	0.071	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	0.013	< 0.0002	0.0750	-0.168	0.031	< 0.002
	2/18/2016	< 0.003	0.0021	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	0.017	< 0.0002	0.079	0.468	0.019	< 0.002
	5/26/2016	< 0.003	0.0023	0.055	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.011	< 0.0002	0.077	< 0.402	0.019	< 0.002
	8/10/2016	< 0.003	0.0044	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	0.72	< 0.0005	< 0.010	F1 < 0.0002	0.14	< 0.394	0.0049	< 0.002
	10/26/2016	< 0.003	0.0047	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	0.70	< 0.0005	< 0.01	< 0.0002	0.12	< 0.592	< 0.0025	< 0.002
	2/1/2017	< 0.003	0.0015	0.058	* < 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.016	^ < 0.0002	0.048	< 0.424	0.029	< 0.002
	5/11/2017	< 0.003	0.0035	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	< 0.01	< 0.0002	0.093	< 0.388	< 0.0025	< 0.002
	6/27/2017	< 0.003	0.0037	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	0.53	< 0.0005	< 0.01	< 0.0002	0.11	< 0.412	< 0.0025	< 0.002
	9/8/2017	< 0.003	0.0038	V 0.069	< 0.001	< 0.0005	< 0.005	< 0.001	0.52	< 0.0005	< 0.01	< 0.0002	0.095	0.486	0.0047	< 0.002
	11/16/2017	< 0.003	0.0028	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	0.45	< 0.0005	0.021	< 0.0002	0.064	< 0.379	0.012	< 0.002
	5/2/2018	NA	NA	NA	NA	NA	NA	NA	0.39	NA	NA	NA	NA	NA	NA	NA
	5/24/2021	< 0.003	0.0011	0.046	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.53	< 0.0005	0.015	< 0.0002	0.063	< 0.492	0.042	< 0.002
	11/23/2021	< 0.003	0.0035	0.066	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.017	< 0.0002	0.066	0.784	0.012	< 0.002
	2/24/2022	< 0.003	0.0092	0.077	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.39	< 0.0005	0.014	< 0.0002	0.059	< 0.415	0.048	< 0.002
	6/16/2022	< 0.003	0.0037	0.055	< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	0.011	< 0.0002	0.064	< 0.471	0.008	< 0.002
	GWPS	NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS
	8/25/2022	< 0.003	0.0043	0.1	< 0.001	^1+ < 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.016	< 0.0002	0.061	< 0.6	0.0056	< 0.002
	11/15/2022	< 0.003	0.032	0.1	^+ < 0.001	0.004	0.0083	< 0.001	0.7	< 0.0005	0.02	< 0.0002	0.1	< 0.6	0.089	< 0.002
	12/29/2022 (R)	NS	0.0094	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.10	NS
	2/23/2023	< 0.003	0.0018	0.1	^1+ ^+ < 0.001	< 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.012	0.00027	0.067	< 0.7	0.02	< 0.002
	4/26/2023	< 0.0030	0.0022	0.040	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.47	< 0.00050	0.013	< 0.00020	0.055	< 0.479	0.039	< 0.0020
	7/26/2023	< 0.0030	0.0014	0.061	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.50	< 0.00050	0.021	< 0.00020	0.053	0.823	0.070	< 0.0020
	8/29/2023 (R)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.069	NS
	10/24/2023	< 0.0030	0.0014	0.074	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.52	< 0.00050	0.023	< 0.00020	0.071	< 0.967	0.077	< 0.0020
	2/7/2024	^1+ < 0.030	0.0018	0.060	^1+ < 0.010	^+ < 0.00050	< 0.0050	^+ < 0.0010	0.32	< 0.00050	0.017	< 0.00020	0.046	< 0.655	0.055	^+ < 0.0020
	5/8/2024	< 0.0030	0.0020	0.033	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.65	< 0.00050	< 0.050	< 0.00020	0.079	< 0.629	0.0054	< 0.0020
	8/6/2024	< 0.0030	0.0015	0.052	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.52	< 0.00050	0.018	< 0.00020	0.054	< 0.608	0.0049	< 0.0020
	11/5/2024	< 0.0030	0.0020	0.056	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.58	< 0.00050	0.015	< 0.00020	0.067	< 0.559	< 0.0025	< 0.0020
MW-06 up-gradient	11/10/2015	< 0.003	0.0016	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.55	< 0.0005	0.011	< 0.0002	0.0670	-0.383	0.0039	< 0.002
	2/18/2016	< 0.003	0.0014	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	0.47	< 0.0005	0.015	< 0.0002	0.0630	0.412	< 0.0025	< 0.002
	5/26/2016	< 0.003	0.002	0.068	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.012	< 0.0002	0.042	< 0.422	< 0.0025	< 0.002
	8/11/2016	< 0.003	0.0029	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.017	< 0.0002	0.038	< 0.339	< 0.0025	< 0.002
	10/26/2016	< 0.003	0.003	0.074	< 0.001	< 0.0005	< 0.005	< 0.001	0.40	< 0.0005	0.013	< 0.0002	0.043	< 0.531	< 0.0025	< 0.002
	2/1/2017	< 0.003	0.0043	0.068	* < 0.001	< 0.0005	< 0.005	< 0.001	0.41	< 0.0005	0.012	^ < 0.0002	0.05	< 0.511	0.0035	< 0.002
	5/11/2017	< 0.003	0.002	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	0.28	0.00054	0.011	< 0.0002	0.054	< 0.388	< 0.0025	< 0.002
	6/27/2017	< 0.003	0.0014	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	0.38	< 0.0005	0.012	< 0.0002	0.046	0.408	< 0.0025	< 0.002
	9/7/2017	< 0.003	0.0025	0.077	< 0.001	< 0.0005	< 0.005	< 0.001	0.40	< 0.0005	0.013	< 0.0002	0.044	0.397	< 0.0025	< 0.002
	11/16/2017	< 0.003	0.0028	0.077	< 0.001	< 0.0005	< 0.005	< 0.001	0.39	< 0.0005	0.017	< 0.0002	0.038	0.491	0.012	< 0.002
	5/3/2018	NA	NA	NA	NA	NA	NA	NA	0.26	NA	NA	NA	NA	NA	NA	NA
	5/24/2021	< 0.003	0.0025	0.08	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.016	< 0.0002	0.017	0.576	< 0.0025	< 0.002
	11/23/2021	< 0.003	0.002	0.07	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.37	< 0.0005	0.014	< 0.0002	0.017	1.020	< 0.0025	< 0.002
	2/22/2022	< 0.003	0.0019	0.09	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.018	< 0.0002	0.033	0.551	0.05	< 0.002
	6/14/2022	< 0.003	0.0018	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.014	< 0.0002	0.018	1.220	< 0.0025	< 0.002
	GWPS	NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS
	8/25/2022	< 0.003	0.0023	0.1	< 0.001	^1+ < 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.018	< 0.0002	0.021	< 0.519	< 0.0025	< 0.002
	11/16/2022	< 0.003	0.0017	0.1	^+ < 0.001	< 0.0005	< 0.005	< 0.001	0.5	< 0.0005	0.016	< 0.0002	0.021	1.080	< 0.0025	< 0.002
	2/23/2023	< 0.003	0.0023	0.1	^1+ ^+ < 0.001	< 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.016	< 0.0002	0.023	0.948	0.022	< 0.002
	4/26/2023	< 0.0030	0.0023	0.070	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.36	< 0.00050	0.014	< 0.00020	0.019	< 0.422	< 0.0025	< 0.0020
	7/26/2023	< 0.0030	0.0022	0.083	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.42	< 0.00050	0.018	< 0.00020	0.022	< 0.653	< 0.0025	< 0.0020
	10/24/2023	< 0.0030	0.0025	0.079	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.40	< 0.00050	0.020	< 0.00020	0.021	< 0.482	< 0.0025	< 0.0020
	2/7/2024	^1+ < 0.030	0.0017	0.077	^1+ < 0.010	^+ < 0.00050	< 0.0050	^+ < 0.0010	0.39	< 0.00050	0.015	< 0.00020	0.021	< 0.483	^+ < 0.0025	^+ < 0.0020
	5/8/2024	< 0.0030	0.0013	0.081	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.37	< 0.00050	0.015	< 0.00020	0.021	< 0.60	0.0065	< 0.0020
	8/6/2024	< 0.0030	0.0025	0.090	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.38	< 0.00050	0.019	< 0.00020	0.020	0.587	< 0.0025	< 0.0020
	11/5/2024	< 0.0030	0.0019	0.10	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.42	< 0.00050	0.017	< 0.00020	0.020	< 0.355	< 0.0025	< 0.0020
MW-09 down-gradient	11/11/2015	< 0.003	0.0047	0.027	< 0.001	< 0.0005	< 0.005	< 0.001	0.55	< 0.0005	< 0.01	< 0.0002	0.14	-0.2208	< 0.0025	< 0.002
	2/17/2016	< 0.003	0.0051	0.027	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.55	0.00065	< 0.01	< 0.0002	0.089	< 0.373	< 0.0025	< 0.002
	5/24/2016	< 0.003	0.0043	0.027	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.51	0.00071	< 0.01	< 0.0002	0.079	0.508	< 0.0025	< 0.002
	8/9/2016	< 0.003	0.0052	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	0.48	< 0.0005	< 0.01	< 0.0002	0.14	0.639	< 0.0025	< 0.002
	10/26/2016	< 0.003	0.0069	0.019	< 0.001	< 0.0005	< 0.005	< 0.0010	0.81	< 0.0005	< 0.01	< 0.0002	0.11	0.608	< 0.0025	< 0.002
	1/31/2017	< 0.003	0.0063	0.038	* < 0.001	< 0.0005	< 0.005	< 0.0010	0.57	0.0014	< 0.01	^ < 0.0002	0.09	< 0.45	< 0.0025	&lt

Table 5. Appendix IV Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-10 down-gradient	11/10/2015	< 0.003	0.015	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.77	< 0.0005	0.018	< 0.0002	0.068	1.341	< 0.0025	< 0.002
	2/16/2016	< 0.003	0.014	0.098	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.79	< 0.0005	0.021	< 0.0002	0.075	0.952	< 0.0025	< 0.002
	5/25/2016	< 0.003	0.034	0.096	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.83	0.00055	0.016	< 0.0002	0.065	0.51	< 0.0025	< 0.002
	8/10/2016	< 0.003	0.017	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.78	< 0.0005	0.021	< 0.0002	0.082	0.864	< 0.0025	< 0.002
	10/26/2016	< 0.003	0.022	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.52	< 0.0005	0.021	< 0.0002	0.030	0.458	< 0.0025	< 0.002
	2/2/2017	< 0.003	0.05	0.14	* < 0.001	< 0.0005	< 0.005	< 0.001	0.54	0.0013	0.02	^ < 0.0002	0.031	< 0.464	< 0.0025	< 0.002
	5/10/2017	< 0.003	0.02	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.015	< 0.0002	0.066	0.882	< 0.0025	< 0.002
	6/27/2017	< 0.003	0.0072	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.67	< 0.0005	0.017	< 0.0002	0.080	0.953	< 0.0025	< 0.002
	9/7/2017	< 0.003	0.0076	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.77	< 0.0005	0.014	0.00058	0.096	0.921	< 0.0025	< 0.002
	11/15/2017	< 0.003	0.015	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.77	< 0.0005	0.021	< 0.0002	0.071	0.893	< 0.0025	< 0.002
	5/1/2018	NA	NA	NA	NA	NA	NA	NA	0.65	NA	NA	NA	NA	NA	NA	NA
	5/25/2021	< 0.003	0.018	0.18	^1+ < 0.001	< 0.0005	< 0.005	0.0013	0.62	0.0054	0.02	< 0.0002	0.036	< 1.14	< 0.0025	< 0.002
	11/23/2021	< 0.003	0.012	0.091	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.71	0.0011	0.013	< 0.0002	0.048	2.22	< 0.0025	< 0.002
	2/24/2022	< 0.003	0.0072	0.1	^1+ < 0.001	< 0.0005	< 0.005	0.0012	0.53	0.001	0.014	< 0.0002	0.043	0.77	< 0.0025	< 0.002
	6/14/2022	< 0.003	0.008	0.081	< 0.001	< 0.0005	< 0.005	< 0.001	0.86	< 0.0005	0.015	< 0.0002	0.12	1.55	< 0.0025	< 0.002
	GWPS	NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	0.0002	0.1	5.0	0.056	NS
	8/25/2022	< 0.003	0.019	0.11	< 0.001	^1+ < 0.0005	0.0053	0.001	0.99	0.0077	0.015	< 0.0002	0.12	1.20	< 0.0025	< 0.002
	9/28/2022 (R)	NA	0.0088	NA	NA	NA	NA	NA	0.65	0.00093	NA	NA	NA	NA	NA	NA
	11/16/2022	< 0.003	0.015	0.1	^+ < 0.001	< 0.0005	< 0.005	< 0.001	0.94	0.002	0.018	< 0.0002	0.097	2.74	< 0.0025	< 0.002
	12/29/2022 (R)	NS	0.071	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/23/2023	< 0.003	0.015	0.12	^1+ ^+ < 0.001	< 0.0005	< 0.005	< 0.001	0.71	0.0008	0.016	< 0.0002	0.073	1.35	< 0.0025	< 0.002
	4/26/2023	< 0.0030	0.013	0.079	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.94	0.00067	0.015	< 0.00020	0.12	1.37	< 0.0025	< 0.0020
	6/8/2023(R)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.14	NA	NA	NA
	7/26/2023	< 0.0030	0.017	0.0990	< 0.0010	< 0.0005	< 0.0050	< 0.0010	0.8100	< 0.0005	0.0170	< 0.0002	0.097	0.9590	< 0.0025	< 0.0020
	10/24/2023	< 0.0030	0.0087	0.083	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.89	< 0.00050	0.015	< 0.00020	0.12	1.30	0.0025	0.0020
	2/7/2024	^1+ < 0.030	0.012	0.11	^1+ < 0.010	< 0.00050	< 0.0050	< 0.0010	0.69	< 0.00050	0.016	< 0.00020	0.082	1.52	0.0025	0.0020
	5/8/2024	< 0.0030	0.012	0.079	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.81	< 0.00050	0.016	< 0.00020	0.11	0.831	0.0025	0.0020
	8/5/2024	< 0.0030	0.0079	0.070	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.92	< 0.00050	0.016	< 0.00020	0.15	0.653	0.0025	0.0020
	11/4/2024	< 0.0030	0.013	0.098	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.84	< 0.00050	0.017	< 0.00020	0.11	0.786	0.0025	0.0020
	MW-11 down-gradient	11/10/2015	< 0.003	0.007	0.098	< 0.001	< 0.0005	< 0.005	< 0.001	0.61	0.00064	< 0.01	< 0.0002	0.0600	0.736	< 0.0025
2/16/2016		< 0.003	0.0059	0.11	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.68	< 0.0005	0.012	< 0.0002	0.078	1.14	< 0.0025	< 0.002
5/25/2016		< 0.003	0.0073	0.093	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.75	< 0.0005	< 0.01	< 0.0002	0.083	0.775	< 0.0025	< 0.002
8/10/2016		< 0.003	0.0072	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	0.72	< 0.0005	< 0.010	< 0.0002	0.087	0.807	< 0.0025	< 0.002
10/26/2016		< 0.003	0.0082	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.53	0.00052	< 0.01	< 0.0002	0.043	0.51	< 0.0025	< 0.002
2/1/2017		< 0.003	0.011	0.15	* < 0.001	< 0.0005	< 0.005	< 0.001	0.65	< 0.0005	< 0.01	< 0.0002	0.076	0.909	< 0.0025	< 0.002
5/10/2017		< 0.003	0.014	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	0.46	< 0.0005	< 0.01	< 0.0002	0.074	1.03	< 0.0025	< 0.002
6/27/2017		< 0.003	0.0058	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.59	< 0.0005	< 0.01	< 0.0002	0.069	0.692	< 0.0025	< 0.002
9/7/2017		< 0.003	0.0074	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.58	< 0.0005	< 0.01	< 0.0002	0.067	0.676	< 0.0025	< 0.002
11/15/2017		< 0.003	0.0082	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	0.65	< 0.0005	< 0.01	< 0.0002	0.075	1.04	< 0.0025	< 0.002
5/3/2018		NA	NA	NA	NA	NA	NA	NA	0.69	NA	NA	NA	NA	NA	NA	NA
5/25/2021		< 0.003	0.0067	0.16	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.74	< 0.0005	< 0.01	< 0.0002	0.077	1.29	< 0.0025	< 0.002
11/23/2021		< 0.003	0.0085	0.11	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.48	< 0.0005	< 0.01	< 0.0002	0.025	2.35	< 0.0025	< 0.002
2/23/2022		< 0.003	0.013	0.12	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.38	0.0006	0.011	< 0.0002	0.031	1.65	< 0.0025	< 0.002
6/13/2022		< 0.003	0.0088	0.17	< 0.001	< 0.0005	< 0.005	0.0022	0.4	0.0018	0.011	< 0.0002	0.058	1.44	< 0.0025	< 0.002
GWPS		NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	0.0002	0.1	5.0	0.056	NS
8/23/2022		< 0.003	0.0082	0.1	< 0.001	^1+ < 0.0005	< 0.005	< 0.001	0.5	< 0.0005	< 0.01	< 0.0002	0.033	2.0	< 0.0025	< 0.002
11/16/2022		< 0.003	0.013	0.1	^+ < 0.001	< 0.0005	< 0.005	0.0015	0.7	0.0014	0.01	< 0.0002	0.052	1.6	< 0.0025	< 0.002
12/29/2022 (R)		NS	0.015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/21/2023		< 0.003	0.016	0.2	< 0.001	< 0.0005	< 0.005	< 0.001	0.5	0.00096	< 0.01	< 0.0002	0.037	1.6	< 0.0025	< 0.002
4/25/2023		< 0.0030	0.015	0.18	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.53	< 0.00050	< 0.010	< 0.00020	0.043	< 0.734	< 0.0025	< 0.0020
7/25/2023		< 0.0030	0.0077	0.14	<											

Table 5. Appendix IV Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium
MW-16 down-gradient	GWPS	NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS
	2/5/2024	^1+ < 0.0030	0.0022	0.083	^+ < 0.0010	< 0.00050	< 0.0050	0.0014	0.36	< 0.00050	< 0.10	< 0.00020	0.012	1.21	< 0.0025	< 0.0020
	5/6/2024	< 0.0030	0.0031	0.072	< 0.0010	< 0.00050	< 0.0050	0.0014	0.41	< 0.00050	0.014	< 0.00020	0.012	0.728	< 0.0025	< 0.0020
	8/1/2024	< 0.0030	< 0.0010	0.071	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.35	< 0.00050	0.014	< 0.00020	0.018	1.87	< 0.0025	< 0.0020
	11/1/2024	< 0.0030	< 0.0010	0.076	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.34	< 0.00050	0.015	< 0.00020	0.022	1.99	< 0.0025	< 0.0020
MW-17 down-gradient	GWPS	NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS
	2/5/2024	^1+ < 0.0030	0.0052	0.050	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	0.85	< 0.00050	< 0.10	< 0.00020	0.14	< 0.536	< 0.0025	< 0.0020
	5/6/2024	< 0.0030	0.0054	0.049	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.79	< 0.00050	< 0.050	< 0.00020	0.13	< 0.655	< 0.0025	< 0.0020
	8/1/2024	< 0.0030	0.0064	0.054	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.75	< 0.00050	0.019	< 0.00020	0.13	0.597	< 0.0025	< 0.0020
	11/1/2024	< 0.0030	0.0067	0.055	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.76	< 0.00050	0.019	< 0.00020	0.13	2.3	< 0.0025	< 0.0020

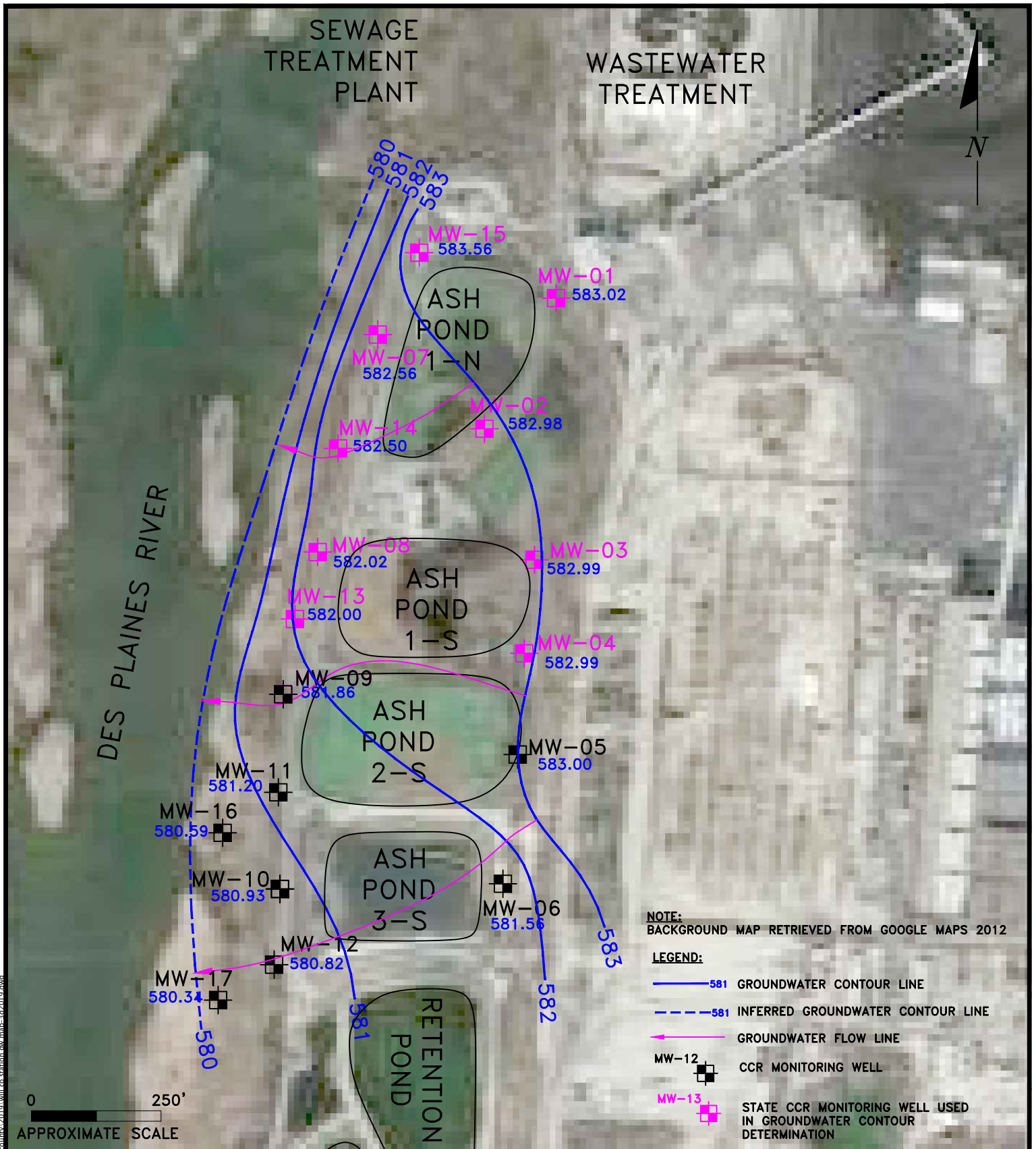
Notes:
All statistics use the detection limit for non-detect results.
All units are in mg/L except Radium is in pCi/L as noted.
Italics - Assessment Monitoring Conducted After Identification of Detected Appendix IV Compounds.

NS - No Standard
DNYA - Data Not Yet Available
R - Resample
GWPS - Groundwater Protection Standard

F1 - MS and/or MSD Recovery outside of limits.
^ - Denotes instrument related QC exceeds the control limits.
* - LCS or LCSD is outside acceptance limits.
NA- Not Analyzed; non-detect in previous monitoring.

^1 or ^+ - Initial or continuing calibration verification limits is outside acceptable limits, high biased.
BOLD - Exceeds established GWPS.
GWPS- Groundwater Protection Standard

ATTACHMENT 1
Groundwater Flow Contour Maps



ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

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

CCR GROUNDWATER CONTOUR 1Q2024

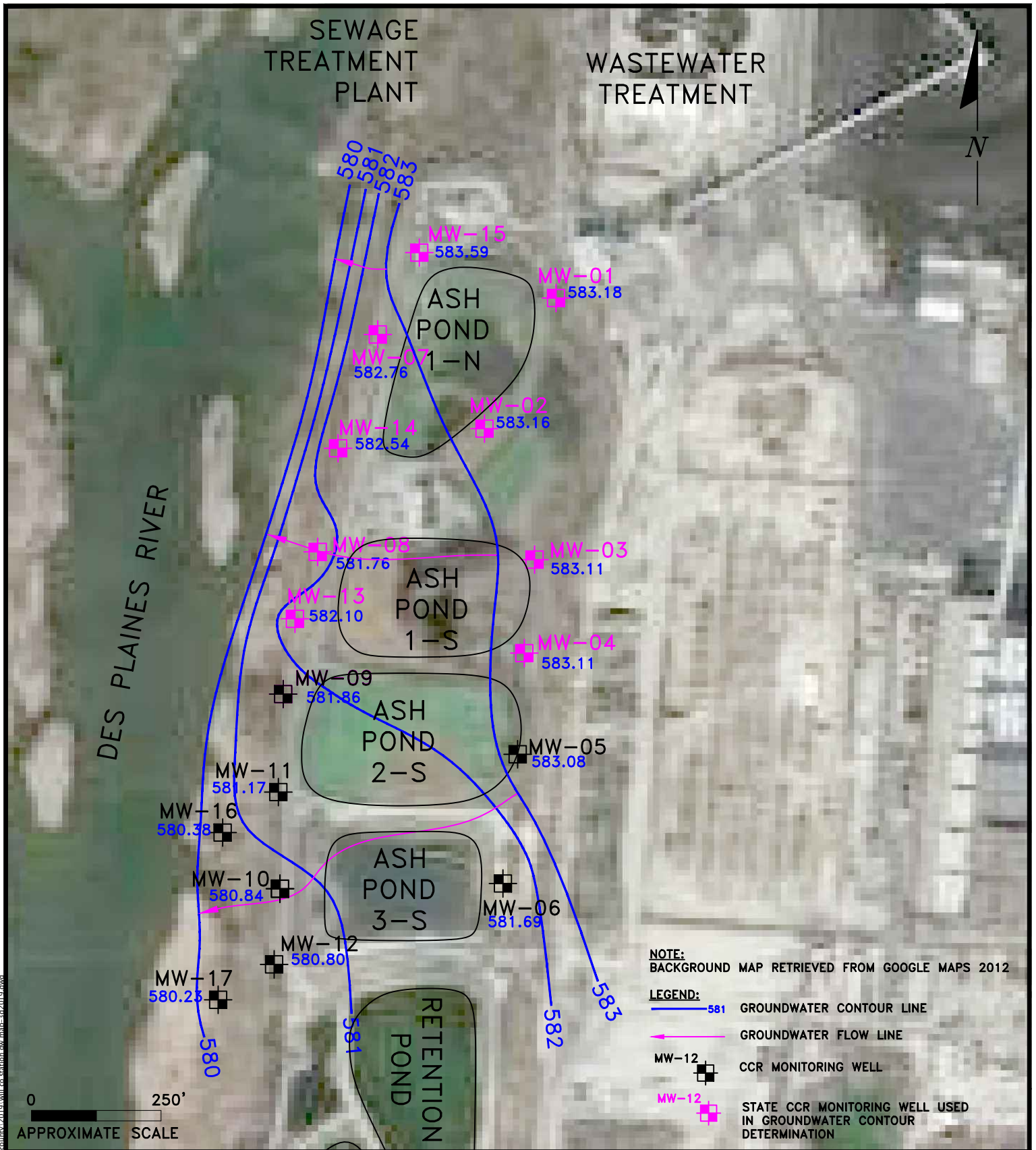
WILL COUNTY STATION
ROMEOWILLE, ILLINOIS

Scale: 1" = 250'

Date: January 21, 2025

KPRG Project No. 12313.3

ATTACHMENT 1



ENVIRONMENTAL CONSULTATION & REMEDIATION

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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

CCR GROUNDWATER CONTOUR 2Q2024

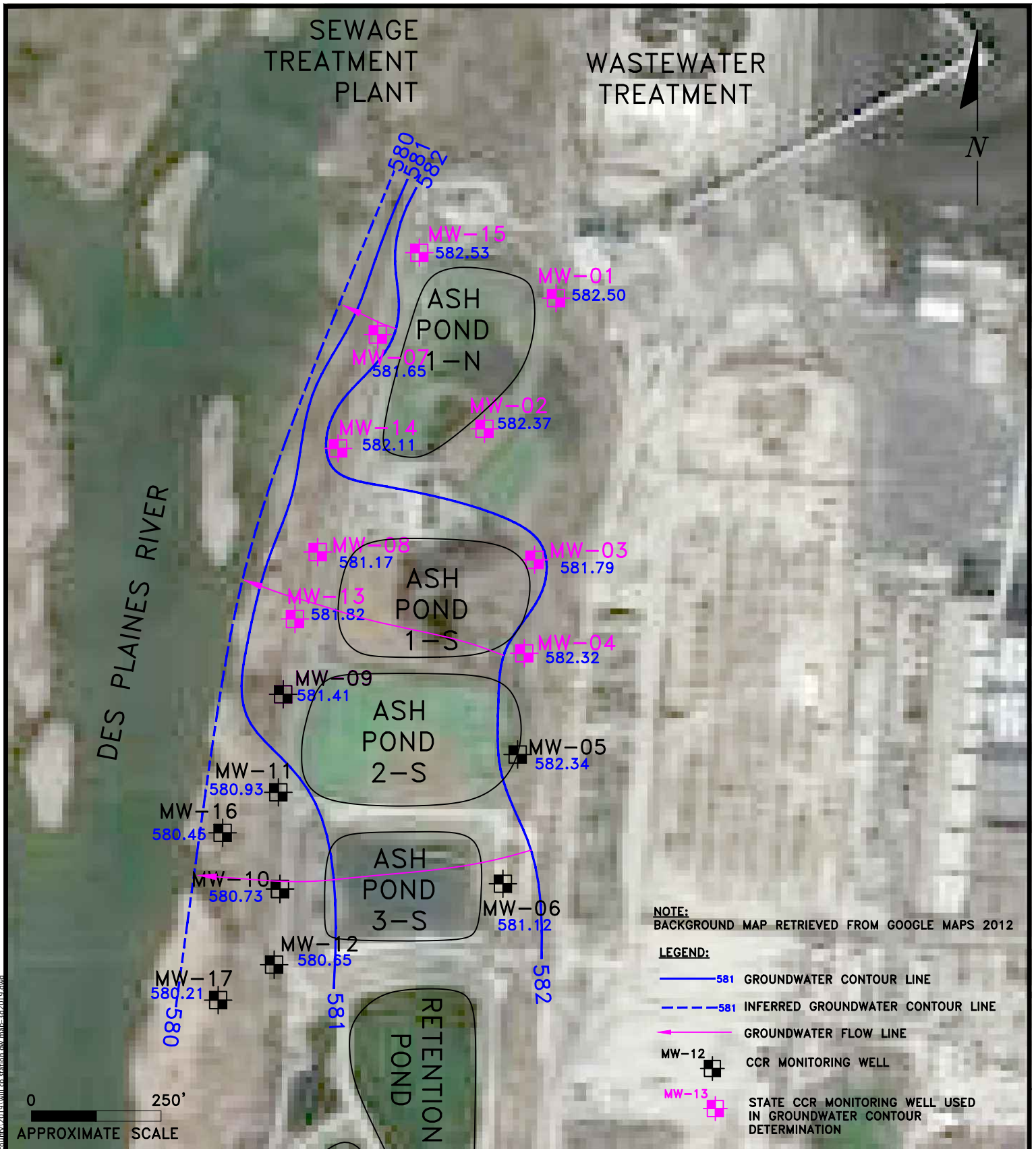
WILL COUNTY STATION
ROMEOLVILLE, ILLINOIS

Scale: 1" = 250'

Date: January 10, 2025

KPRG Project No. 12313.3

ATTACHMENT 1



ENVIRONMENTAL CONSULTATION & REMEDIATION

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

CCR GROUNDWATER CONTOUR 3Q2024

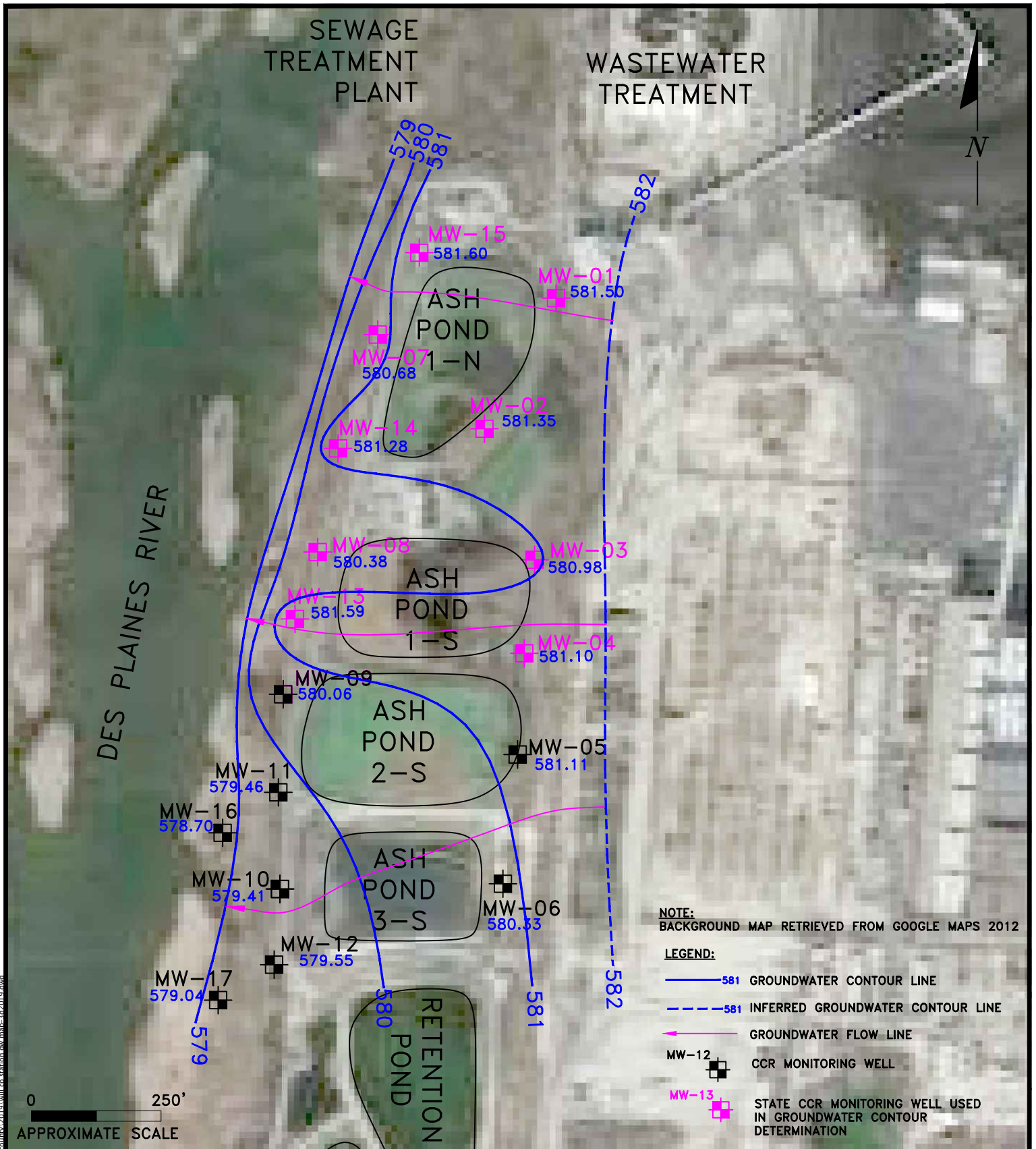
WILL COUNTY STATION
ROMEOWILLE, ILLINOIS

Scale: 1" = 250'

Date: January 21, 2025

KPRG Project No. 12313.3

ATTACHMENT 1



ENVIRONMENTAL CONSULTATION & REMEDIATION

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

CCR GROUNDWATER CONTOUR 4Q2024

WILL COUNTY STATION
ROMEOWILLE, ILLINOIS

Scale: 1" = 250'

Date: January 21, 2025

KPRG Project No. 12313.3

ATTACHMENT 1

ATTACHMENT 2
Analytical Data Packages

ANALYTICAL REPORT

PREPARED FOR

Attn: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 3/5/2024 1:57:56 PM

JOB DESCRIPTION

Will County CCR 2S/3S

JOB NUMBER

500-245763-1

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



Generated
3/5/2024 1:57:56 PM

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



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Case Narrative

Client: Midwest Generation EME LLC
Project: Will County CCR 2S/3S

Job ID: 500-245763-1

Job ID: 500-245763-1

Eurofins Chicago

Job Narrative 500-245763-1

Receipt

The samples were received on 2/6/2024 4:03 PM and 2/8/2024 9:02 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.4°C, 1.6°C and 2.4°C.

Metals

Method 6020B - Total Recoverable: The continuing calibration verification (CCV) associated with batch 753405 recovered above the upper control limit for Be. The samples associated with this CCV were below the reporting limit for the affected analyte; therefore, the data have been reported.

Method 6020B - Total Recoverable: The initial low level calibration verification (ICVL) result for batch 753405 was above the upper control limit. The affected analytes are: Sb. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020B - Total Recoverable: The continuing calibration verification (CCV) associated with batch 753633 recovered above the upper control limit for arsenic, cadmium, cobalt, nickel, selenium, thallium, and vanadium. The samples associated with this CCV were below the reporting 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

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: Will County CCR 2S/3S

Job ID: 500-245763-1

Method	Method Description	Protocol	Laboratory
6020B	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
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

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: Will County CCR 2S/3S

Job ID: 500-245763-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-245763-1	MW-11	Water	02/05/24 14:17	02/06/24 16:03
500-245763-2	MW-12	Water	02/05/24 11:35	02/06/24 16:03
500-245763-3	2S/3S Duplicate	Water	02/05/24 00:00	02/06/24 16:03
500-245763-4	MW-16	Water	02/05/24 13:26	02/06/24 16:03
500-245763-5	MW-17	Water	02/05/24 12:23	02/06/24 16:03
500-245763-6	MW-05	Water	02/07/24 09:10	02/08/24 09:02
500-245763-7	MW-06	Water	02/07/24 10:21	02/08/24 09:02
500-245763-8	MW-09	Water	02/07/24 12:58	02/08/24 09:02
500-245763-9	MW-10	Water	02/07/24 11:27	02/08/24 09:02

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-11

Lab Sample ID: 500-245763-1

Date Collected: 02/05/24 14:17

Matrix: Water

Date Received: 02/06/24 16:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.025		0.0010		mg/L		02/07/24 09:01	02/08/24 19:07	1
Boron	2.4		0.50		mg/L		02/07/24 09:01	02/14/24 13:47	10
Barium	0.18		0.0025		mg/L		02/07/24 09:01	02/08/24 19:07	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:07	1
Calcium	120		0.20		mg/L		02/07/24 09:01	02/08/24 19:07	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:07	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:07	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:07	1
Molybdenum	0.029		0.0050		mg/L		02/07/24 09:01	02/08/24 19:07	1
Lead	0.00056		0.00050		mg/L		02/07/24 09:01	02/08/24 19:07	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:07	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:07	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:07	1
Lithium	<0.10	F1	0.10		mg/L		02/07/24 09:01	02/14/24 13:47	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	730		10		mg/L			02/06/24 22:06	1
Chloride (SM 4500 Cl- E)	130		10		mg/L			02/07/24 15:32	5
Fluoride (SM 4500 F C)	0.45		0.10		mg/L			03/04/24 16:16	1
Sulfate (SM 4500 SO4 E)	78		10		mg/L			02/20/24 12:08	2

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-12

Lab Sample ID: 500-245763-2

Date Collected: 02/05/24 11:35

Matrix: Water

Date Received: 02/06/24 16:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0017		0.0010		mg/L		02/07/24 09:01	02/08/24 19:24	1
Boron	2.2		0.50		mg/L		02/07/24 09:01	02/14/24 14:07	10
Barium	0.18		0.0025		mg/L		02/07/24 09:01	02/08/24 19:24	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:24	1
Calcium	170		0.20		mg/L		02/07/24 09:01	02/08/24 19:24	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:24	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:24	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:24	1
Molybdenum	0.024		0.0050		mg/L		02/07/24 09:01	02/08/24 19:24	1
Lead	0.00060		0.00050		mg/L		02/07/24 09:01	02/08/24 19:24	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:24	1
Selenium	0.0044		0.0025		mg/L		02/07/24 09:01	02/08/24 19:24	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:24	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:07	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			02/06/24 22:09	1
Chloride (SM 4500 Cl- E)	140		10		mg/L			02/07/24 13:28	5
Fluoride (SM 4500 F C)	0.36		0.10		mg/L			03/04/24 16:21	1
Sulfate (SM 4500 SO4 E)	160		25		mg/L			02/20/24 12:09	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-245763-3

Date Collected: 02/05/24 00:00

Matrix: Water

Date Received: 02/06/24 16:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0022		0.0010		mg/L		02/07/24 09:01	02/08/24 19:28	1
Boron	0.95		0.50		mg/L		02/07/24 09:01	02/14/24 14:11	10
Barium	0.082		0.0025		mg/L		02/07/24 09:01	02/08/24 19:28	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:28	1
Calcium	120		0.20		mg/L		02/07/24 09:01	02/08/24 19:28	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:28	1
Cobalt	0.0013		0.0010		mg/L		02/07/24 09:01	02/08/24 19:28	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:28	1
Molybdenum	0.012		0.0050		mg/L		02/07/24 09:01	02/08/24 19:28	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:28	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:28	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:28	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:28	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:11	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	900		10		mg/L			02/06/24 22:11	1
Chloride (SM 4500 Cl- E)	160		10		mg/L			02/07/24 13:28	5
Fluoride (SM 4500 F C)	0.36		0.10		mg/L			03/04/24 16:25	1
Sulfate (SM 4500 SO4 E)	170		25		mg/L			02/20/24 12:05	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-16

Lab Sample ID: 500-245763-4

Date Collected: 02/05/24 13:26

Matrix: Water

Date Received: 02/06/24 16:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0022		0.0010		mg/L		02/07/24 09:01	02/08/24 19:31	1
Boron	1.0		0.50		mg/L		02/07/24 09:01	02/14/24 14:15	10
Barium	0.083		0.0025		mg/L		02/07/24 09:01	02/08/24 19:31	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:31	1
Calcium	130		0.20		mg/L		02/07/24 09:01	02/08/24 19:31	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:31	1
Cobalt	0.0014		0.0010		mg/L		02/07/24 09:01	02/08/24 19:31	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:31	1
Molybdenum	0.012		0.0050		mg/L		02/07/24 09:01	02/08/24 19:31	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:31	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:31	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:31	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:31	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:15	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	930		10		mg/L			02/06/24 22:14	1
Chloride (SM 4500 Cl- E)	160		10		mg/L			02/07/24 13:31	5
Fluoride (SM 4500 F C)	0.36		0.10		mg/L			03/04/24 16:30	1
Sulfate (SM 4500 SO4 E)	170		25		mg/L			02/20/24 12:08	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-17

Lab Sample ID: 500-245763-5

Date Collected: 02/05/24 12:23

Matrix: Water

Date Received: 02/06/24 16:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0052		0.0010		mg/L		02/07/24 09:01	02/08/24 19:42	1
Boron	3.1		0.50		mg/L		02/07/24 09:01	02/14/24 14:19	10
Barium	0.050		0.0025		mg/L		02/07/24 09:01	02/08/24 19:42	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:42	1
Calcium	65		0.20		mg/L		02/07/24 09:01	02/08/24 19:42	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:42	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:42	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:42	1
Molybdenum	0.14		0.0050		mg/L		02/07/24 09:01	02/08/24 19:42	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:42	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:42	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:42	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:42	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:19	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	850		10		mg/L			02/06/24 22:16	1
Chloride (SM 4500 Cl- E)	130		10		mg/L			02/07/24 13:31	5
Fluoride (SM 4500 F C)	0.85		0.10		mg/L			03/04/24 16:34	1
Sulfate (SM 4500 SO4 E)	340		50		mg/L			02/20/24 12:33	10

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-05

Lab Sample ID: 500-245763-6

Date Collected: 02/07/24 09:10

Matrix: Water

Date Received: 02/08/24 09:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0018		0.0010		mg/L		02/09/24 08:52	02/12/24 19:00	1
Boron	4.8		0.50		mg/L		02/09/24 08:52	02/13/24 15:15	10
Barium	0.060		0.0025		mg/L		02/09/24 08:52	02/12/24 19:00	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:15	10
Calcium	260		0.20		mg/L		02/09/24 08:52	02/12/24 19:00	1
Cadmium	<0.00050	^+	0.00050		mg/L		02/09/24 08:52	02/09/24 21:23	1
Cobalt	<0.0010	^+	0.0010		mg/L		02/09/24 08:52	02/09/24 21:23	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:00	1
Molybdenum	0.046		0.0050		mg/L		02/09/24 08:52	02/12/24 19:00	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:00	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:15	10
Selenium	0.055		0.0025		mg/L		02/09/24 08:52	02/12/24 19:00	1
Thallium	<0.0020	^+	0.0020		mg/L		02/09/24 08:52	02/09/24 21:23	1
Lithium	0.017		0.010		mg/L		02/09/24 08:52	02/12/24 19:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1900		10		mg/L			02/09/24 00:47	1
Chloride (SM 4500 Cl- E)	38		2.0		mg/L			02/11/24 14:24	1
Fluoride (SM 4500 F C)	0.32		0.10		mg/L			03/04/24 16:39	1
Sulfate (SM 4500 SO4 E)	800		100		mg/L			02/20/24 12:33	20

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-06

Lab Sample ID: 500-245763-7

Date Collected: 02/07/24 10:21

Matrix: Water

Date Received: 02/08/24 09:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0017		0.0010		mg/L		02/09/24 08:52	02/12/24 19:04	1
Boron	2.5		0.50		mg/L		02/09/24 08:52	02/13/24 15:26	10
Barium	0.077		0.0025		mg/L		02/09/24 08:52	02/12/24 19:04	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:26	10
Calcium	96		0.20		mg/L		02/09/24 08:52	02/12/24 19:04	1
Cadmium	<0.00050	^+	0.00050		mg/L		02/09/24 08:52	02/09/24 21:27	1
Cobalt	<0.0010	^+	0.0010		mg/L		02/09/24 08:52	02/09/24 21:27	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:04	1
Molybdenum	0.021		0.0050		mg/L		02/09/24 08:52	02/12/24 19:04	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:04	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:26	10
Selenium	<0.0025	^+	0.0025		mg/L		02/09/24 08:52	02/09/24 21:27	1
Thallium	<0.0020	^+	0.0020		mg/L		02/09/24 08:52	02/09/24 21:27	1
Lithium	0.015		0.010		mg/L		02/09/24 08:52	02/12/24 19:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	570		10		mg/L			02/09/24 00:49	1
Chloride (SM 4500 Cl- E)	12		2.0		mg/L			02/11/24 14:24	1
Fluoride (SM 4500 F C)	0.39		0.10		mg/L			03/04/24 16:44	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			02/20/24 12:33	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-09

Lab Sample ID: 500-245763-8

Date Collected: 02/07/24 12:58

Matrix: Water

Date Received: 02/08/24 09:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0082		0.0010		mg/L		02/09/24 08:52	02/09/24 21:38	1
Boron	2.1		0.50		mg/L		02/09/24 08:52	02/13/24 15:30	10
Barium	0.035		0.0025		mg/L		02/09/24 08:52	02/12/24 19:08	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:30	10
Calcium	39		0.20		mg/L		02/09/24 08:52	02/09/24 21:38	1
Cadmium	<0.00050		0.00050		mg/L		02/09/24 08:52	02/09/24 21:38	1
Cobalt	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 21:38	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:08	1
Molybdenum	0.068		0.0050		mg/L		02/09/24 08:52	02/09/24 21:38	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:08	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:30	10
Selenium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/09/24 21:38	1
Thallium	<0.0020		0.0020		mg/L		02/09/24 08:52	02/09/24 21:38	1
Lithium	<0.010		0.010		mg/L		02/09/24 08:52	02/12/24 19:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	680		10		mg/L			02/09/24 00:52	1
Chloride (SM 4500 Cl- E)	190		10		mg/L			02/11/24 14:42	5
Fluoride (SM 4500 F C)	0.60		0.10		mg/L			03/04/24 16:58	1
Sulfate (SM 4500 SO4 E)	230		25		mg/L			02/20/24 12:05	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-10

Lab Sample ID: 500-245763-9

Date Collected: 02/07/24 11:27

Matrix: Water

Date Received: 02/08/24 09:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012		0.0010		mg/L		02/09/24 08:52	02/09/24 21:42	1
Boron	3.7		0.50		mg/L		02/09/24 08:52	02/13/24 15:34	10
Barium	0.11		0.0025		mg/L		02/09/24 08:52	02/12/24 19:11	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:34	10
Calcium	130		0.20		mg/L		02/09/24 08:52	02/09/24 21:42	1
Cadmium	<0.00050		0.00050		mg/L		02/09/24 08:52	02/09/24 21:42	1
Cobalt	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 21:42	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:11	1
Molybdenum	0.082		0.0050		mg/L		02/09/24 08:52	02/09/24 21:42	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:11	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:34	10
Selenium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/09/24 21:42	1
Thallium	<0.0020		0.0020		mg/L		02/09/24 08:52	02/09/24 21:42	1
Lithium	0.016		0.010		mg/L		02/09/24 08:52	02/12/24 19:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	910		10		mg/L			02/09/24 00:54	1
Chloride (SM 4500 Cl- E)	120		10		mg/L			02/21/24 15:14	5
Fluoride (SM 4500 F C)	0.69		0.10		mg/L			03/04/24 17:03	1
Sulfate (SM 4500 SO4 E)	290		50		mg/L			02/20/24 14:02	10

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

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.
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: Will County CCR 2S/3S

Job ID: 500-245763-1

Metals

Prep Batch: 752999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total Recoverable	Water	3005A	
500-245763-2	MW-12	Total Recoverable	Water	3005A	
500-245763-3	2S/3S Duplicate	Total Recoverable	Water	3005A	
500-245763-4	MW-16	Total Recoverable	Water	3005A	
500-245763-5	MW-17	Total Recoverable	Water	3005A	
MB 500-752999/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-752999/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-245763-1 MS	MW-11	Total Recoverable	Water	3005A	
500-245763-1 MSD	MW-11	Total Recoverable	Water	3005A	
500-245763-1 DU	MW-11	Total Recoverable	Water	3005A	

Analysis Batch: 753405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total Recoverable	Water	6020B	752999
500-245763-2	MW-12	Total Recoverable	Water	6020B	752999
500-245763-3	2S/3S Duplicate	Total Recoverable	Water	6020B	752999
500-245763-4	MW-16	Total Recoverable	Water	6020B	752999
500-245763-5	MW-17	Total Recoverable	Water	6020B	752999
MB 500-752999/1-A	Method Blank	Total Recoverable	Water	6020B	752999
LCS 500-752999/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752999
500-245763-1 MS	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 MSD	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 DU	MW-11	Total Recoverable	Water	6020B	752999

Prep Batch: 753415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	3005A	
500-245763-7	MW-06	Total Recoverable	Water	3005A	
500-245763-8	MW-09	Total Recoverable	Water	3005A	
500-245763-9	MW-10	Total Recoverable	Water	3005A	
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 753633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	6020B	753415
500-245763-7	MW-06	Total Recoverable	Water	6020B	753415
500-245763-8	MW-09	Total Recoverable	Water	6020B	753415
500-245763-9	MW-10	Total Recoverable	Water	6020B	753415
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	6020B	753415
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	6020B	753415

Analysis Batch: 753801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	6020B	753415
500-245763-7	MW-06	Total Recoverable	Water	6020B	753415
500-245763-8	MW-09	Total Recoverable	Water	6020B	753415
500-245763-9	MW-10	Total Recoverable	Water	6020B	753415
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	6020B	753415
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	6020B	753415

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Metals

Analysis Batch: 753991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	6020B	753415
500-245763-7	MW-06	Total Recoverable	Water	6020B	753415
500-245763-8	MW-09	Total Recoverable	Water	6020B	753415
500-245763-9	MW-10	Total Recoverable	Water	6020B	753415
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	6020B	753415
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	6020B	753415

Analysis Batch: 754170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total Recoverable	Water	6020B	752999
500-245763-2	MW-12	Total Recoverable	Water	6020B	752999
500-245763-3	2S/3S Duplicate	Total Recoverable	Water	6020B	752999
500-245763-4	MW-16	Total Recoverable	Water	6020B	752999
500-245763-5	MW-17	Total Recoverable	Water	6020B	752999
MB 500-752999/1-A	Method Blank	Total Recoverable	Water	6020B	752999
LCS 500-752999/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752999
500-245763-1 MS	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 MSD	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 DU	MW-11	Total Recoverable	Water	6020B	752999

Prep Batch: 755030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	7470A	
500-245763-2	MW-12	Total/NA	Water	7470A	
500-245763-3	2S/3S Duplicate	Total/NA	Water	7470A	
500-245763-4	MW-16	Total/NA	Water	7470A	
500-245763-5	MW-17	Total/NA	Water	7470A	
500-245763-6	MW-05	Total/NA	Water	7470A	
500-245763-7	MW-06	Total/NA	Water	7470A	
500-245763-8	MW-09	Total/NA	Water	7470A	
500-245763-9	MW-10	Total/NA	Water	7470A	
MB 500-755030/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-755030/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 755246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	7470A	755030
500-245763-2	MW-12	Total/NA	Water	7470A	755030
500-245763-3	2S/3S Duplicate	Total/NA	Water	7470A	755030
500-245763-4	MW-16	Total/NA	Water	7470A	755030
500-245763-5	MW-17	Total/NA	Water	7470A	755030
500-245763-6	MW-05	Total/NA	Water	7470A	755030
500-245763-7	MW-06	Total/NA	Water	7470A	755030
500-245763-8	MW-09	Total/NA	Water	7470A	755030
500-245763-9	MW-10	Total/NA	Water	7470A	755030
MB 500-755030/12-A	Method Blank	Total/NA	Water	7470A	755030
LCS 500-755030/13-A	Lab Control Sample	Total/NA	Water	7470A	755030

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

General Chemistry

Analysis Batch: 752912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 2540C	
500-245763-2	MW-12	Total/NA	Water	SM 2540C	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 2540C	
500-245763-4	MW-16	Total/NA	Water	SM 2540C	
500-245763-5	MW-17	Total/NA	Water	SM 2540C	
MB 500-752912/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-752912/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 753095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-245763-2	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-245763-4	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-245763-5	MW-17	Total/NA	Water	SM 4500 Cl- E	
MB 500-753095/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-753095/70	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-753095/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-753095/71	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 753339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	SM 2540C	
500-245763-7	MW-06	Total/NA	Water	SM 2540C	
500-245763-8	MW-09	Total/NA	Water	SM 2540C	
500-245763-9	MW-10	Total/NA	Water	SM 2540C	
MB 500-753339/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-753339/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 753572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-245763-7	MW-06	Total/NA	Water	SM 4500 Cl- E	
500-245763-8	MW-09	Total/NA	Water	SM 4500 Cl- E	
MB 500-753572/109	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-753572/110	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 754863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-245763-2	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-245763-4	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-245763-5	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-245763-6	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-245763-7	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-245763-8	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-245763-9	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 500-754863/121	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-754863/70	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-754863/122	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

General Chemistry (Continued)

Analysis Batch: 754863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-754863/71	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 755087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-9	MW-10	Total/NA	Water	SM 4500 Cl- E	
MB 500-755087/4	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-755087/5	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 756829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 4500 F C	
500-245763-2	MW-12	Total/NA	Water	SM 4500 F C	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	
500-245763-4	MW-16	Total/NA	Water	SM 4500 F C	
500-245763-5	MW-17	Total/NA	Water	SM 4500 F C	
500-245763-6	MW-05	Total/NA	Water	SM 4500 F C	
500-245763-7	MW-06	Total/NA	Water	SM 4500 F C	
500-245763-8	MW-09	Total/NA	Water	SM 4500 F C	
500-245763-9	MW-10	Total/NA	Water	SM 4500 F C	
MB 500-756829/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-756829/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-752999/1-A
Matrix: Water
Analysis Batch: 753405

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:00	1
Barium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:00	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:00	1
Calcium	<0.20		0.20		mg/L		02/07/24 09:01	02/08/24 19:00	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:00	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Molybdenum	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:00	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:00	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:00	1

Lab Sample ID: MB 500-752999/1-A
Matrix: Water
Analysis Batch: 754170

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		02/07/24 09:01	02/14/24 13:43	1
Lithium	<0.010		0.010		mg/L		02/07/24 09:01	02/14/24 13:43	1

Lab Sample ID: LCS 500-752999/2-A
Matrix: Water
Analysis Batch: 753405

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	0.500	0.530		mg/L		106	80 - 120
Beryllium	0.0500	0.0580	^+	mg/L		116	80 - 120
Calcium	10.0	9.01		mg/L		90	80 - 120
Cadmium	0.0500	0.0521		mg/L		104	80 - 120
Cobalt	0.500	0.472		mg/L		94	80 - 120
Chromium	0.200	0.191		mg/L		96	80 - 120
Molybdenum	1.00	0.962		mg/L		96	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Antimony	0.500	0.521	^1+	mg/L		104	80 - 120
Selenium	0.100	0.0985		mg/L		98	80 - 120
Thallium	0.100	0.0990		mg/L		99	80 - 120

Lab Sample ID: LCS 500-752999/2-A
Matrix: Water
Analysis Batch: 754170

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.08		mg/L		108	80 - 120
Lithium	0.100	0.106		mg/L		106	80 - 120

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

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

Lab Sample ID: 500-245763-1 MS

Matrix: Water

Analysis Batch: 753405

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.025		0.100	0.126		mg/L		101	75 - 125
Barium	0.18		0.500	0.687		mg/L		101	75 - 125
Calcium	120		10.0	123	4	mg/L		41	75 - 125
Cadmium	<0.00050		0.0500	0.0513		mg/L		103	75 - 125
Cobalt	<0.0010		0.500	0.452		mg/L		90	75 - 125
Chromium	<0.0050		0.200	0.189		mg/L		94	75 - 125
Molybdenum	0.029		1.00	1.01		mg/L		98	75 - 125
Lead	0.00056		0.100	0.0988		mg/L		98	75 - 125
Antimony	<0.0030	^1+	0.500	0.521	^1+	mg/L		104	75 - 125
Selenium	<0.0025		0.100	0.0983		mg/L		98	75 - 125
Thallium	<0.0020		0.100	0.0958		mg/L		96	75 - 125

Lab Sample ID: 500-245763-1 MS

Matrix: Water

Analysis Batch: 754170

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2.4		1.00	3.63		mg/L		125	75 - 125
Lithium	<0.10	F1	0.100	0.134	F1	mg/L		134	75 - 125

Lab Sample ID: 500-245763-1 MSD

Matrix: Water

Analysis Batch: 753405

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.025		0.100	0.127		mg/L		102	75 - 125	1	20
Barium	0.18		0.500	0.690		mg/L		102	75 - 125	0	20
Calcium	120		10.0	125	4	mg/L		61	75 - 125	2	20
Cadmium	<0.00050		0.0500	0.0516		mg/L		103	75 - 125	1	20
Cobalt	<0.0010		0.500	0.460		mg/L		92	75 - 125	2	20
Chromium	<0.0050		0.200	0.189		mg/L		95	75 - 125	0	20
Molybdenum	0.029		1.00	1.03		mg/L		100	75 - 125	1	20
Lead	0.00056		0.100	0.0996		mg/L		99	75 - 125	1	20
Antimony	<0.0030	^1+	0.500	0.525	^1+	mg/L		105	75 - 125	1	20
Selenium	<0.0025		0.100	0.0991		mg/L		99	75 - 125	1	20
Thallium	<0.0020		0.100	0.0960		mg/L		96	75 - 125	0	20

Lab Sample ID: 500-245763-1 MSD

Matrix: Water

Analysis Batch: 754170

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	2.4		1.00	3.54		mg/L		115	75 - 125	3	20
Lithium	<0.10	F1	0.100	0.117		mg/L		117	75 - 125	13	20

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

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

Lab Sample ID: 500-245763-1 DU

Matrix: Water

Analysis Batch: 753405

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	0.025		0.0255		mg/L		1	20
Barium	0.18		0.184		mg/L		0.9	20
Beryllium	<0.0010	^+	<0.0010	^+	mg/L		NC	20
Calcium	120		119		mg/L		0.2	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Molybdenum	0.029		0.0286		mg/L		0.8	20
Lead	0.00056		0.000522		mg/L		7	20
Antimony	<0.0030	^1+	<0.0030	^1+	mg/L		NC	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-245763-1 DU

Matrix: Water

Analysis Batch: 754170

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Boron	2.4		2.56		mg/L		7	20
Lithium	<0.10	F1	<0.10		mg/L		NC	20

Lab Sample ID: MB 500-753415/1-A

Matrix: Water

Analysis Batch: 753633

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 753415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 20:08	1
Calcium	<0.20		0.20		mg/L		02/09/24 08:52	02/09/24 20:08	1
Cadmium	<0.00050		0.00050		mg/L		02/09/24 08:52	02/09/24 20:08	1
Cobalt	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 20:08	1
Molybdenum	<0.0050		0.0050		mg/L		02/09/24 08:52	02/09/24 20:08	1
Selenium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/09/24 20:08	1
Thallium	<0.0020		0.0020		mg/L		02/09/24 08:52	02/09/24 20:08	1

Lab Sample ID: MB 500-753415/1-A

Matrix: Water

Analysis Batch: 753801

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 753415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/12/24 16:33	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 16:33	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 16:33	1
Lithium	<0.010		0.010		mg/L		02/09/24 08:52	02/12/24 16:33	1

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

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

Lab Sample ID: MB 500-753415/1-A
Matrix: Water
Analysis Batch: 753991

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 753415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		02/09/24 08:52	02/13/24 14:07	1
Beryllium	<0.0010	^1+	0.0010		mg/L		02/09/24 08:52	02/13/24 14:07	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/09/24 08:52	02/13/24 14:07	1

Lab Sample ID: LCS 500-753415/2-A
Matrix: Water
Analysis Batch: 753633

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 753415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.114		mg/L		114	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Cadmium	0.0500	0.0602		mg/L		120	80 - 120
Cobalt	0.500	0.591		mg/L		118	80 - 120
Molybdenum	1.00	1.15		mg/L		115	80 - 120
Selenium	0.100	0.118		mg/L		118	80 - 120
Thallium	0.100	0.118		mg/L		118	80 - 120

Lab Sample ID: LCS 500-753415/2-A
Matrix: Water
Analysis Batch: 753801

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 753415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.490		mg/L		98	80 - 120
Chromium	0.200	0.191		mg/L		95	80 - 120
Lead	0.100	0.0947		mg/L		95	80 - 120
Lithium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: LCS 500-753415/2-A
Matrix: Water
Analysis Batch: 753991

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 753415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.04		mg/L		104	80 - 120
Beryllium	0.0500	0.0486	^1+	mg/L		97	80 - 120
Antimony	0.500	0.532	^1+	mg/L		106	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-755030/12-A
Matrix: Water
Analysis Batch: 755246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 755030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:21	1

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

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

Lab Sample ID: LCS 500-755030/13-A
Matrix: Water
Analysis Batch: 755246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 755030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00199		mg/L		99	80 - 120

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

Lab Sample ID: MB 500-752912/1
Matrix: Water
Analysis Batch: 752912

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			02/06/24 21:38	1

Lab Sample ID: LCS 500-752912/2
Matrix: Water
Analysis Batch: 752912

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	258		mg/L		103	80 - 120

Lab Sample ID: MB 500-753339/1
Matrix: Water
Analysis Batch: 753339

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			02/09/24 00:29	1

Lab Sample ID: LCS 500-753339/2
Matrix: Water
Analysis Batch: 753339

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

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-753095/16
Matrix: Water
Analysis Batch: 753095

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			02/07/24 13:03	1

Lab Sample ID: MB 500-753095/70
Matrix: Water
Analysis Batch: 753095

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			02/07/24 15:01	1

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 500-753095/17

Matrix: Water

Analysis Batch: 753095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.7		mg/L		104	85 - 115

Lab Sample ID: LCS 500-753095/71

Matrix: Water

Analysis Batch: 753095

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	21.8		mg/L		109	85 - 115

Lab Sample ID: MB 500-753572/109

Matrix: Water

Analysis Batch: 753572

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			02/11/24 14:22	1

Lab Sample ID: LCS 500-753572/110

Matrix: Water

Analysis Batch: 753572

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		110	85 - 115

Lab Sample ID: MB 500-755087/4

Matrix: Water

Analysis Batch: 755087

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			02/21/24 13:25	1

Lab Sample ID: LCS 500-755087/5

Matrix: Water

Analysis Batch: 755087

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	19.5		mg/L		98	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-756829/3

Matrix: Water

Analysis Batch: 756829

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			03/04/24 15:03	1

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-756829/4
Matrix: Water
Analysis Batch: 756829

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

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-754863/121
Matrix: Water
Analysis Batch: 754863

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			02/20/24 12:55	1

Lab Sample ID: MB 500-754863/70
Matrix: Water
Analysis Batch: 754863

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			02/20/24 11:48	1

Lab Sample ID: LCS 500-754863/122
Matrix: Water
Analysis Batch: 754863

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	23.2		mg/L		116	88 - 123

Lab Sample ID: LCS 500-754863/71
Matrix: Water
Analysis Batch: 754863

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	22.7		mg/L		113	88 - 123

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Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-245763-1

Login Number: 245763

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4, 1.6, 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 $<6\text{mm}$ (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: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-11

Date Collected: 02/05/24 14:17

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:07
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 13:47
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 07:55
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:06
Total/NA	Analysis	SM 4500 CI- E		5	753095	TR	EET CHI	02/07/24 15:32
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:16
Total/NA	Analysis	SM 4500 SO4 E		2	754863	TR	EET CHI	02/20/24 12:08

Client Sample ID: MW-12

Date Collected: 02/05/24 11:35

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:24
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:07
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 07:57
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:09
Total/NA	Analysis	SM 4500 CI- E		5	753095	TR	EET CHI	02/07/24 13:28
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:21
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:09

Client Sample ID: 2S/3S Duplicate

Date Collected: 02/05/24 00:00

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:28
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:11
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 07:59
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:11
Total/NA	Analysis	SM 4500 CI- E		5	753095	TR	EET CHI	02/07/24 13:28
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:25
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:05

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Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-16

Date Collected: 02/05/24 13:26

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:31
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:15
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:01
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:14
Total/NA	Analysis	SM 4500 Cl- E		5	753095	TR	EET CHI	02/07/24 13:31
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:30
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:08

Client Sample ID: MW-17

Date Collected: 02/05/24 12:23

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:42
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:19
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:03
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:16
Total/NA	Analysis	SM 4500 Cl- E		5	753095	TR	EET CHI	02/07/24 13:31
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:34
Total/NA	Analysis	SM 4500 SO4 E		10	754863	TR	EET CHI	02/20/24 12:33

Client Sample ID: MW-05

Date Collected: 02/07/24 09:10

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:23
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:00
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:15
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:09
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:47
Total/NA	Analysis	SM 4500 Cl- E		1	753572	TR	EET CHI	02/11/24 14:24
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:39
Total/NA	Analysis	SM 4500 SO4 E		20	754863	TR	EET CHI	02/20/24 12:33

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Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-06

Date Collected: 02/07/24 10:21

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:27
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:04
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:26
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:12
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:49
Total/NA	Analysis	SM 4500 Cl- E		1	753572	TR	EET CHI	02/11/24 14:24
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:44
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:33

Client Sample ID: MW-09

Date Collected: 02/07/24 12:58

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:38
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:08
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:30
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:14
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:52
Total/NA	Analysis	SM 4500 Cl- E		5	753572	TR	EET CHI	02/11/24 14:42
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:58
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:05

Client Sample ID: MW-10

Date Collected: 02/07/24 11:27

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:42
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:11
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:34
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:16

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Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-10
Date Collected: 02/07/24 11:27
Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:54
Total/NA	Analysis	SM 4500 Cl- E		5	755087	TR	EET CHI	02/21/24 15:14
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 17:03
Total/NA	Analysis	SM 4500 SO4 E		10	754863	TR	EET CHI	02/20/24 14:02

¹ 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: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 3/11/2024 1:33:44 PM

JOB DESCRIPTION

Will County CCR 2S/3S (RAD)

JOB NUMBER

500-245763-2

Eurofins Chicago

Job Notes

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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: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Job ID: 500-245763-2

Eurofins Chicago

Job Narrative 500-245763-2

Receipt

The samples were received on 2/6/2024 4:03 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.4° C, 1.6° C and 2.4° C.

RAD

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: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

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: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-245763-1	MW-11	Water	02/05/24 14:17	02/06/24 16:03
500-245763-2	MW-12	Water	02/05/24 11:35	02/06/24 16:03
500-245763-3	2S/3S Duplicate	Water	02/05/24 00:00	02/06/24 16:03
500-245763-4	MW-16	Water	02/05/24 13:26	02/06/24 16:03
500-245763-5	MW-17	Water	02/05/24 12:23	02/06/24 16:03
500-245763-6	MW-05	Water	02/07/24 09:10	02/08/24 09:02
500-245763-7	MW-06	Water	02/07/24 10:21	02/08/24 09:02
500-245763-8	MW-09	Water	02/07/24 12:58	02/08/24 09:02
500-245763-9	MW-10	Water	02/07/24 11:27	02/08/24 09:02

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-11

Lab Sample ID: 500-245763-1

Date Collected: 02/05/24 14:17

Matrix: Water

Date Received: 02/06/24 16:03

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	0.407		0.165	0.169	1.00	0.189	pCi/L	02/09/24 10:00	03/04/24 15:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					02/09/24 10:00	03/04/24 15:02	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		0.624	0.634	1.00	0.867	pCi/L	02/09/24 10:02	02/27/24 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					02/09/24 10:02	02/27/24 12:04	1
Y Carrier	72.1		30 - 110					02/09/24 10:02	02/27/24 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	1.65		0.645	0.656	5.00	0.867	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-12

Lab Sample ID: 500-245763-2

Date Collected: 02/05/24 11:35

Matrix: Water

Date Received: 02/06/24 16:03

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	0.0229	U	0.0636	0.0636	1.00	0.119	pCi/L	02/09/24 10:00	03/04/24 15:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/09/24 10:00	03/04/24 15:02	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	0.525	U	0.385	0.388	1.00	0.585	pCi/L	02/09/24 10:02	02/27/24 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/09/24 10:02	02/27/24 12:04	1
Y Carrier	74.4		30 - 110					02/09/24 10:02	02/27/24 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	0.548	U	0.390	0.393	5.00	0.585	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-245763-3

Date Collected: 02/05/24 00:00

Matrix: Water

Date Received: 02/06/24 16:03

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	0.395		0.123	0.128	1.00	0.110	pCi/L	02/09/24 10:00	03/06/24 09:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					02/09/24 10:00	03/06/24 09:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.531	U	0.409	0.412	1.00	0.626	pCi/L	02/09/24 10:02	02/27/24 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					02/09/24 10:02	02/27/24 12:05	1
Y Carrier	70.3		30 - 110					02/09/24 10:02	02/27/24 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	0.926		0.427	0.431	5.00	0.626	pCi/L		03/11/24 12:33	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-16

Lab Sample ID: 500-245763-4

Date Collected: 02/05/24 13:26

Matrix: Water

Date Received: 02/06/24 16:03

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	0.342		0.122	0.126	1.00	0.120	pCi/L	02/09/24 10:00	03/04/24 17:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/09/24 10:00	03/04/24 17:36	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	0.867		0.398	0.406	1.00	0.529	pCi/L	02/09/24 10:02	02/27/24 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/09/24 10:02	02/27/24 12:05	1
Y Carrier	79.3		30 - 110					02/09/24 10:02	02/27/24 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	1.21		0.416	0.425	5.00	0.529	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-17

Lab Sample ID: 500-245763-5

Date Collected: 02/05/24 12:23

Matrix: Water

Date Received: 02/06/24 16:03

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.262		0.125	0.128	1.00	0.157	pCi/L	02/09/24 10:00	03/04/24 17:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					02/09/24 10:00	03/04/24 17:37	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	0.0291	U	0.287	0.287	1.00	0.536	pCi/L	02/09/24 10:02	02/27/24 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					02/09/24 10:02	02/27/24 12:05	1
Y Carrier	76.3		30 - 110					02/09/24 10:02	02/27/24 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	0.291	U	0.313	0.314	5.00	0.536	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-05

Lab Sample ID: 500-245763-6

Date Collected: 02/07/24 09:10

Matrix: Water

Date Received: 02/08/24 09:02

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	0.0226	U	0.0486	0.0486	1.00	0.0894	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/13/24 10:25	03/07/24 17:42	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	0.543	U	0.423	0.426	1.00	0.655	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	69.9		30 - 110					02/13/24 10:31	02/26/24 11:59	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	0.565	U	0.426	0.429	5.00	0.655	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-06

Lab Sample ID: 500-245763-7

Date Collected: 02/07/24 10:21

Matrix: Water

Date Received: 02/08/24 09:02

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	0.0568	U	0.0571	0.0573	1.00	0.0891	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					02/13/24 10:25	03/07/24 17:42	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	0.364	U	0.308	0.310	1.00	0.483	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	80.4		30 - 110					02/13/24 10:31	02/26/24 11:59	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	0.421	U	0.313	0.315	5.00	0.483	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-09

Lab Sample ID: 500-245763-8

Date Collected: 02/07/24 12:58

Matrix: Water

Date Received: 02/08/24 09:02

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	0.105		0.0653	0.0660	1.00	0.0805	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					02/13/24 10:25	03/07/24 17:42	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	0.483		0.318	0.322	1.00	0.468	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	84.1		30 - 110					02/13/24 10:31	02/26/24 11:59	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	0.588		0.325	0.329	5.00	0.468	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-10

Lab Sample ID: 500-245763-9

Date Collected: 02/07/24 11:27

Matrix: Water

Date Received: 02/08/24 09:02

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	0.278		0.0980	0.101	1.00	0.0824	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					02/13/24 10:25	03/07/24 17:42	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		0.442	0.457	1.00	0.546	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	86.0		30 - 110					02/13/24 10:31	02/26/24 11:59	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	1.52		0.453	0.468	5.00	0.546	pCi/L		03/08/24 16:34	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Qualifiers

Rad

Qualifier	Qualifier Description
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: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Rad

Prep Batch: 647502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	PrecSep-21	
500-245763-2	MW-12	Total/NA	Water	PrecSep-21	
500-245763-3	2S/3S Duplicate	Total/NA	Water	PrecSep-21	
500-245763-4	MW-16	Total/NA	Water	PrecSep-21	
500-245763-5	MW-17	Total/NA	Water	PrecSep-21	
MB 160-647502/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-647502/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 647504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	PrecSep_0	
500-245763-2	MW-12	Total/NA	Water	PrecSep_0	
500-245763-3	2S/3S Duplicate	Total/NA	Water	PrecSep_0	
500-245763-4	MW-16	Total/NA	Water	PrecSep_0	
500-245763-5	MW-17	Total/NA	Water	PrecSep_0	
MB 160-647504/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-647504/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 647941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	PrecSep-21	
500-245763-7	MW-06	Total/NA	Water	PrecSep-21	
500-245763-8	MW-09	Total/NA	Water	PrecSep-21	
500-245763-9	MW-10	Total/NA	Water	PrecSep-21	
MB 160-647941/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-647941/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 647942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	PrecSep_0	
500-245763-7	MW-06	Total/NA	Water	PrecSep_0	
500-245763-8	MW-09	Total/NA	Water	PrecSep_0	
500-245763-9	MW-10	Total/NA	Water	PrecSep_0	
MB 160-647942/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-647942/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-647502/1-A

Matrix: Water

Analysis Batch: 650942

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647502

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01998	U	0.0467	0.0468	1.00	0.0887	pCi/L	02/09/24 10:00	03/04/24 13:10	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					02/09/24 10:00	03/04/24 13:10	1

Lab Sample ID: LCS 160-647502/2-A

Matrix: Water

Analysis Batch: 650947

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 647502

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	10.79		1.13	1.00	0.128	pCi/L	95	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	98.0		30 - 110							

Lab Sample ID: MB 160-647941/1-A

Matrix: Water

Analysis Batch: 651424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647941

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02484	U	0.0473	0.0473	1.00	0.0855	pCi/L	02/13/24 10:25	03/07/24 16:13	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					02/13/24 10:25	03/07/24 16:13	1

Lab Sample ID: LCS 160-647941/2-A

Matrix: Water

Analysis Batch: 651424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 647941

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	9.806		1.03	1.00	0.137	pCi/L	87	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	98.3		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-647504/1-A

Matrix: Water

Analysis Batch: 650045

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647504

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.09967	U	0.294	0.294	1.00	0.522	pCi/L	02/09/24 10:02	02/27/24 12:03	1

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110	02/09/24 10:02	02/27/24 12:03	1
Y Carrier	83.7		30 - 110	02/09/24 10:02	02/27/24 12:03	1

Lab Sample ID: LCS 160-647504/2-A
Matrix: Water
Analysis Batch: 650045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647504

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.17	9.558		1.27	1.00	0.464	pCi/L	104	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.0		30 - 110
Y Carrier	84.1		30 - 110

Lab Sample ID: MB 160-647942/1-A
Matrix: Water
Analysis Batch: 649794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647942

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3657	U	0.302	0.304	1.00	0.469	pCi/L	02/13/24 10:31	02/26/24 11:48	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110	02/13/24 10:31	02/26/24 11:48	1
Y Carrier	84.1		30 - 110	02/13/24 10:31	02/26/24 11:48	1

Lab Sample ID: LCS 160-647942/2-A
Matrix: Water
Analysis Batch: 649794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647942

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.18	9.134		1.22	1.00	0.466	pCi/L	100	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.3		30 - 110
Y Carrier	85.6		30 - 110

 eurofins | Environment Testing

- 1
- 2
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- 4
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Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-245763-2

Login Number: 245763

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4, 1.6, 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 $<6\text{mm}$ (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: 500-245763-2

Login Number: 245763

List Number: 2

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 02/08/24 02:33 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (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: 500-245763-2

Login Number: 245763

List Number: 3

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/12/24 08:53 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (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: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-11

Date Collected: 02/05/24 14:17

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650947	SCB	EET SL	03/04/24 15:02
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:04
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Client Sample ID: MW-12

Date Collected: 02/05/24 11:35

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650947	SCB	EET SL	03/04/24 15:02
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:04
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Client Sample ID: 2S/3S Duplicate

Date Collected: 02/05/24 00:00

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	651294	SWS	EET SL	03/06/24 09:55
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:05
Total/NA	Analysis	Ra226_Ra228		1	651940	CAH	EET SL	03/11/24 12:33

Client Sample ID: MW-16

Date Collected: 02/05/24 13:26

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650944	SCB	EET SL	03/04/24 17:36
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:05
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-17

Date Collected: 02/05/24 12:23

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650944	SCB	EET SL	03/04/24 17:37
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:05
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Client Sample ID: MW-05

Date Collected: 02/07/24 09:10

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Client Sample ID: MW-06

Date Collected: 02/07/24 10:21

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Client Sample ID: MW-09

Date Collected: 02/07/24 12:58

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-10
Date Collected: 02/07/24 11:27
Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

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: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

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)					
500-245763-1	MW-11	88.8					
500-245763-2	MW-12	93.0					
500-245763-3	2S/3S Duplicate	88.5					
500-245763-4	MW-16	92.5					
500-245763-5	MW-17	92.3					
500-245763-6	MW-05	93.0					
500-245763-7	MW-06	105					
500-245763-8	MW-09	97.8					
500-245763-9	MW-10	87.0					
LCS 160-647502/2-A	Lab Control Sample	98.0					
LCS 160-647941/2-A	Lab Control Sample	98.3					
MB 160-647502/1-A	Method Blank	97.0					
MB 160-647941/1-A	Method Blank	97.3					
Tracer/Carrier Legend							
Ba = Ba Carrier							

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba	Y				
		(30-110)	(30-110)				
500-245763-1	MW-11	88.8	72.1				
500-245763-2	MW-12	93.0	74.4				
500-245763-3	2S/3S Duplicate	88.5	70.3				
500-245763-4	MW-16	92.5	79.3				
500-245763-5	MW-17	92.3	76.3				
500-245763-6	MW-05	93.0	69.9				
500-245763-7	MW-06	105	80.4				
500-245763-8	MW-09	97.8	84.1				
500-245763-9	MW-10	87.0	86.0				
LCS 160-647504/2-A	Lab Control Sample	98.0	84.1				
LCS 160-647942/2-A	Lab Control Sample	98.3	85.6				
MB 160-647504/1-A	Method Blank	97.0	83.7				
MB 160-647942/1-A	Method Blank	97.3	84.1				
Tracer/Carrier Legend							
Ba = Ba Carrier							
Y = Y Carrier							

ANALYTICAL REPORT

PREPARED FOR

Attn: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 5/31/2024 10:43:28 AM

JOB DESCRIPTION

Will County CCR

JOB NUMBER

500-250106-1

Eurofins Chicago

Job Notes

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Authorization



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Case Narrative

Client: Midwest Generation EME LLC
Project: Will County CCR

Job ID: 500-250106-1

Job ID: 500-250106-1

Eurofins Chicago

Job Narrative 500-250106-1

Receipt

The samples were received on 5/7/2024 2:55 PM and 5/9/2024 8:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.7°C, 1.8°C, 1.8°C and 2.0°C.

Metals

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

General Chemistry

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: Will County CCR

Job ID: 500-250106-1

Method	Method Description	Protocol	Laboratory
6020B	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
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

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: Will County CCR

Job ID: 500-250106-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-250106-1	MW-11	Water	05/06/24 12:35	05/07/24 14:55
500-250106-2	MW-12	Water	05/06/24 10:49	05/07/24 14:55
500-250106-3	2S/3S Duplicate	Water	05/06/24 00:00	05/07/24 14:55
500-250106-4	MW-16	Water	05/06/24 13:59	05/07/24 14:55
500-250106-5	MW-17	Water	05/06/24 11:49	05/07/24 14:55
500-250106-6	MW-05	Water	05/08/24 09:41	05/09/24 08:05
500-250106-7	MW-06	Water	05/08/24 11:00	05/09/24 08:05
500-250106-8	MW-09	Water	05/08/24 15:57	05/09/24 08:05
500-250106-9	MW-10	Water	05/08/24 12:13	05/09/24 08:05

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-11

Lab Sample ID: 500-250106-1

Date Collected: 05/06/24 12:35

Matrix: Water

Date Received: 05/07/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.032		0.0010		mg/L		05/16/24 09:39	05/21/24 14:02	1
Boron	2.9		0.050		mg/L		05/16/24 09:39	05/22/24 14:18	1
Barium	0.17		0.0025		mg/L		05/16/24 09:39	05/21/24 14:02	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:02	1
Calcium	110		0.20		mg/L		05/16/24 09:39	05/22/24 14:18	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:02	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:02	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:02	1
Molybdenum	0.037		0.0050		mg/L		05/16/24 09:39	05/21/24 14:02	1
Lead	0.00056		0.00050		mg/L		05/16/24 09:39	05/21/24 14:02	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:02	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 14:02	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:02	1
Lithium	0.010		0.010		mg/L		05/16/24 09:39	05/22/24 14:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	720		10		mg/L			05/08/24 06:13	1
Chloride (SM 4500 Cl- E)	120		10		mg/L			05/13/24 15:43	5
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			05/28/24 16:23	1
Sulfate (SM 4500 SO4 E)	68		10		mg/L			05/19/24 13:34	2

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-12

Lab Sample ID: 500-250106-2

Date Collected: 05/06/24 10:49

Matrix: Water

Date Received: 05/07/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011		0.0010		mg/L		05/16/24 09:39	05/21/24 14:04	1
Boron	1.9		0.050		mg/L		05/16/24 09:39	05/22/24 14:20	1
Barium	0.13		0.0025		mg/L		05/16/24 09:39	05/21/24 14:04	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:04	1
Calcium	180		0.20		mg/L		05/16/24 09:39	05/22/24 14:20	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:04	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:04	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:04	1
Molybdenum	0.020		0.0050		mg/L		05/16/24 09:39	05/21/24 14:04	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:04	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:04	1
Selenium	0.0041		0.0025		mg/L		05/16/24 09:39	05/21/24 14:04	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:04	1
Lithium	0.013		0.010		mg/L		05/16/24 09:39	05/22/24 14:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			05/08/24 06:15	1
Chloride (SM 4500 Cl- E)	190		10		mg/L			05/13/24 15:40	5
Fluoride (SM 4500 F C)	0.42		0.10		mg/L			05/28/24 16:38	1
Sulfate (SM 4500 SO4 E)	160		25		mg/L			05/19/24 13:34	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-250106-3

Date Collected: 05/06/24 00:00

Matrix: Water

Date Received: 05/07/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011		0.0010		mg/L		05/16/24 09:39	05/21/24 14:06	1
Boron	1.9		0.050		mg/L		05/16/24 09:39	05/22/24 14:22	1
Barium	0.13		0.0025		mg/L		05/16/24 09:39	05/21/24 14:06	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:06	1
Calcium	180		0.20		mg/L		05/16/24 09:39	05/22/24 14:22	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:06	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:06	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:06	1
Molybdenum	0.020		0.0050		mg/L		05/16/24 09:39	05/21/24 14:06	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:06	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:06	1
Selenium	0.0040		0.0025		mg/L		05/16/24 09:39	05/21/24 14:06	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:06	1
Lithium	0.014		0.010		mg/L		05/16/24 09:39	05/22/24 14:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			05/08/24 06:18	1
Chloride (SM 4500 Cl- E)	190		10		mg/L			05/13/24 15:40	5
Fluoride (SM 4500 F C)	0.41		0.10		mg/L			05/28/24 16:43	1
Sulfate (SM 4500 SO4 E)	160		25		mg/L			05/20/24 17:12	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-16

Lab Sample ID: 500-250106-4

Date Collected: 05/06/24 13:59

Matrix: Water

Date Received: 05/07/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0031		0.0010		mg/L		05/16/24 09:39	05/21/24 14:08	1
Boron	0.82		0.050		mg/L		05/16/24 09:39	05/22/24 14:24	1
Barium	0.072		0.0025		mg/L		05/16/24 09:39	05/21/24 14:08	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:08	1
Calcium	130		0.20		mg/L		05/16/24 09:39	05/22/24 14:24	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:08	1
Cobalt	0.0014		0.0010		mg/L		05/16/24 09:39	05/21/24 14:08	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:08	1
Molybdenum	0.012		0.0050		mg/L		05/16/24 09:39	05/21/24 14:08	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:08	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:08	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 14:08	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:08	1
Lithium	0.014		0.010		mg/L		05/16/24 09:39	05/22/24 14:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	840		10		mg/L			05/08/24 06:20	1
Chloride (SM 4500 Cl- E)	150		10		mg/L			05/13/24 15:39	5
Fluoride (SM 4500 F C)	0.41		0.10		mg/L			05/30/24 22:46	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			05/19/24 13:34	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-17

Lab Sample ID: 500-250106-5

Date Collected: 05/06/24 11:49

Matrix: Water

Date Received: 05/07/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0054		0.0010		mg/L		05/16/24 09:39	05/21/24 14:11	1
Boron	3.1		0.25		mg/L		05/16/24 09:39	05/22/24 14:26	5
Barium	0.049		0.0025		mg/L		05/16/24 09:39	05/21/24 14:11	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:11	1
Calcium	63		1.0		mg/L		05/16/24 09:39	05/22/24 14:26	5
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:11	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:11	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:11	1
Molybdenum	0.13		0.0050		mg/L		05/16/24 09:39	05/21/24 14:11	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:11	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:11	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 14:11	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:11	1
Lithium	<0.050		0.050		mg/L		05/16/24 09:39	05/22/24 14:26	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	820		10		mg/L			05/08/24 06:23	1
Chloride (SM 4500 Cl- E)	120		10		mg/L			05/13/24 15:43	5
Fluoride (SM 4500 F C)	0.79		0.10		mg/L			05/30/24 22:51	1
Sulfate (SM 4500 SO4 E)	330		50		mg/L			05/19/24 13:45	10

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-05

Lab Sample ID: 500-250106-6

Date Collected: 05/08/24 09:41

Matrix: Water

Date Received: 05/09/24 08:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0020		0.0010		mg/L		05/16/24 09:39	05/21/24 14:13	1
Boron	5.3		0.25		mg/L		05/16/24 09:39	05/22/24 14:28	5
Barium	0.033		0.0025		mg/L		05/16/24 09:39	05/21/24 14:13	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:13	1
Calcium	83		1.0		mg/L		05/16/24 09:39	05/22/24 14:28	5
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:13	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:13	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:13	1
Molybdenum	0.079		0.0050		mg/L		05/16/24 09:39	05/21/24 14:13	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:13	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:13	1
Selenium	0.0054		0.0025		mg/L		05/16/24 09:39	05/21/24 14:13	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:13	1
Lithium	<0.050		0.050		mg/L		05/16/24 09:39	05/22/24 14:28	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	930		10		mg/L			05/14/24 00:57	1
Chloride (SM 4500 Cl- E)	34		2.0		mg/L			05/13/24 15:14	1
Fluoride (SM 4500 F C)	0.65		0.10		mg/L			05/29/24 01:36	1
Sulfate (SM 4500 SO4 E)	450		50		mg/L			05/19/24 13:32	10

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-06

Lab Sample ID: 500-250106-7

Date Collected: 05/08/24 11:00

Matrix: Water

Date Received: 05/09/24 08:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0013		0.0010		mg/L		05/16/24 09:39	05/21/24 14:23	1
Boron	2.3		0.050		mg/L		05/16/24 09:39	05/22/24 14:30	1
Barium	0.081		0.0025		mg/L		05/16/24 09:39	05/21/24 14:23	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:23	1
Calcium	110		0.20		mg/L		05/16/24 09:39	05/22/24 14:30	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:23	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:23	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:23	1
Molybdenum	0.021		0.0050		mg/L		05/16/24 09:39	05/21/24 14:23	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:23	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:23	1
Selenium	0.0065		0.0025		mg/L		05/16/24 09:39	05/21/24 14:23	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:23	1
Lithium	0.015		0.010		mg/L		05/16/24 09:39	05/22/24 14:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	630		10		mg/L			05/14/24 01:00	1
Chloride (SM 4500 Cl- E)	13		2.0		mg/L			05/13/24 15:15	1
Fluoride (SM 4500 F C)	0.37		0.10		mg/L			05/29/24 01:52	1
Sulfate (SM 4500 SO4 E)	180		25		mg/L			05/19/24 13:35	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-09

Lab Sample ID: 500-250106-8

Date Collected: 05/08/24 15:57

Matrix: Water

Date Received: 05/09/24 08:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0075		0.0010		mg/L		05/16/24 09:39	05/21/24 14:25	1
Boron	1.8		0.050		mg/L		05/16/24 09:39	05/22/24 14:39	1
Barium	0.031		0.0025		mg/L		05/16/24 09:39	05/21/24 14:25	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:25	1
Calcium	41		0.20		mg/L		05/16/24 09:39	05/22/24 14:39	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:25	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:25	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:25	1
Molybdenum	0.063		0.0050		mg/L		05/16/24 09:39	05/21/24 14:25	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:25	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:25	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 14:25	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:25	1
Lithium	<0.010	^+	0.010		mg/L		05/16/24 09:39	05/21/24 14:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020		mg/L		05/24/24 10:55	05/28/24 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	740		10		mg/L			05/14/24 01:03	1
Chloride (SM 4500 Cl- E)	180		10		mg/L			05/13/24 15:42	5
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			05/29/24 01:57	1
Sulfate (SM 4500 SO4 E)	230		25		mg/L			05/19/24 13:35	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-10

Lab Sample ID: 500-250106-9

Date Collected: 05/08/24 12:13

Matrix: Water

Date Received: 05/09/24 08:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012		0.0010		mg/L		05/16/24 09:39	05/21/24 14:27	1
Boron	2.7		0.050		mg/L		05/16/24 09:39	05/22/24 14:41	1
Barium	0.079		0.0025		mg/L		05/16/24 09:39	05/21/24 14:27	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:27	1
Calcium	110		0.20		mg/L		05/16/24 09:39	05/22/24 14:41	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:27	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:27	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:27	1
Molybdenum	0.11		0.0050		mg/L		05/16/24 09:39	05/21/24 14:27	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:27	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:27	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 14:27	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:27	1
Lithium	0.016		0.010		mg/L		05/16/24 09:39	05/22/24 14:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	860		10		mg/L			05/14/24 01:05	1
Chloride (SM 4500 Cl- E)	130		10		mg/L			05/13/24 15:41	5
Fluoride (SM 4500 F C)	0.81		0.10		mg/L			05/29/24 02:02	1
Sulfate (SM 4500 SO4 E)	290		50		mg/L			05/19/24 13:46	10

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

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: Will County CCR

Job ID: 500-250106-1

Metals

Prep Batch: 768239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total Recoverable	Water	3005A	
500-250106-2	MW-12	Total Recoverable	Water	3005A	
500-250106-3	2S/3S Duplicate	Total Recoverable	Water	3005A	
500-250106-4	MW-16	Total Recoverable	Water	3005A	
500-250106-5	MW-17	Total Recoverable	Water	3005A	
500-250106-6	MW-05	Total Recoverable	Water	3005A	
500-250106-7	MW-06	Total Recoverable	Water	3005A	
500-250106-8	MW-09	Total Recoverable	Water	3005A	
500-250106-9	MW-10	Total Recoverable	Water	3005A	
MB 500-768239/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-768239/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 769045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total Recoverable	Water	6020B	768239
500-250106-2	MW-12	Total Recoverable	Water	6020B	768239
500-250106-3	2S/3S Duplicate	Total Recoverable	Water	6020B	768239
500-250106-4	MW-16	Total Recoverable	Water	6020B	768239
500-250106-5	MW-17	Total Recoverable	Water	6020B	768239
500-250106-6	MW-05	Total Recoverable	Water	6020B	768239
500-250106-7	MW-06	Total Recoverable	Water	6020B	768239
500-250106-8	MW-09	Total Recoverable	Water	6020B	768239
500-250106-9	MW-10	Total Recoverable	Water	6020B	768239
MB 500-768239/1-A	Method Blank	Total Recoverable	Water	6020B	768239
LCS 500-768239/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768239

Analysis Batch: 769274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total Recoverable	Water	6020B	768239
500-250106-2	MW-12	Total Recoverable	Water	6020B	768239
500-250106-3	2S/3S Duplicate	Total Recoverable	Water	6020B	768239
500-250106-4	MW-16	Total Recoverable	Water	6020B	768239
500-250106-5	MW-17	Total Recoverable	Water	6020B	768239
500-250106-6	MW-05	Total Recoverable	Water	6020B	768239
500-250106-7	MW-06	Total Recoverable	Water	6020B	768239
500-250106-8	MW-09	Total Recoverable	Water	6020B	768239
500-250106-9	MW-10	Total Recoverable	Water	6020B	768239
MB 500-768239/1-A	Method Blank	Total Recoverable	Water	6020B	768239
LCS 500-768239/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768239

Analysis Batch: 769360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-768239/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768239

Prep Batch: 769539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	7470A	
500-250106-2	MW-12	Total/NA	Water	7470A	
500-250106-3	2S/3S Duplicate	Total/NA	Water	7470A	
500-250106-4	MW-16	Total/NA	Water	7470A	
500-250106-5	MW-17	Total/NA	Water	7470A	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Metals (Continued)

Prep Batch: 769539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6	MW-05	Total/NA	Water	7470A	
500-250106-7	MW-06	Total/NA	Water	7470A	
500-250106-8	MW-09	Total/NA	Water	7470A	
500-250106-9	MW-10	Total/NA	Water	7470A	
MB 500-769539/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-769539/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-250106-7 MS	MW-06	Total/NA	Water	7470A	
500-250106-7 MSD	MW-06	Total/NA	Water	7470A	
500-250106-7 DU	MW-06	Total/NA	Water	7470A	

Analysis Batch: 769797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	7470A	769539
500-250106-2	MW-12	Total/NA	Water	7470A	769539
500-250106-3	2S/3S Duplicate	Total/NA	Water	7470A	769539
500-250106-4	MW-16	Total/NA	Water	7470A	769539
500-250106-5	MW-17	Total/NA	Water	7470A	769539
500-250106-6	MW-05	Total/NA	Water	7470A	769539
500-250106-7	MW-06	Total/NA	Water	7470A	769539
500-250106-8	MW-09	Total/NA	Water	7470A	769539
500-250106-9	MW-10	Total/NA	Water	7470A	769539
MB 500-769539/12-A	Method Blank	Total/NA	Water	7470A	769539
LCS 500-769539/13-A	Lab Control Sample	Total/NA	Water	7470A	769539
500-250106-7 MS	MW-06	Total/NA	Water	7470A	769539
500-250106-7 MSD	MW-06	Total/NA	Water	7470A	769539
500-250106-7 DU	MW-06	Total/NA	Water	7470A	769539

General Chemistry

Analysis Batch: 766884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	SM 2540C	
500-250106-2	MW-12	Total/NA	Water	SM 2540C	
500-250106-3	2S/3S Duplicate	Total/NA	Water	SM 2540C	
500-250106-4	MW-16	Total/NA	Water	SM 2540C	
500-250106-5	MW-17	Total/NA	Water	SM 2540C	
MB 500-766884/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-766884/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 767735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6	MW-05	Total/NA	Water	SM 2540C	
500-250106-7	MW-06	Total/NA	Water	SM 2540C	
500-250106-8	MW-09	Total/NA	Water	SM 2540C	
500-250106-9	MW-10	Total/NA	Water	SM 2540C	
MB 500-767735/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-767735/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 767769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	SM 4500 Cl- E	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

General Chemistry (Continued)

Analysis Batch: 767769 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-2	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-250106-3	2S/3S Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-250106-4	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-250106-5	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-250106-6	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-250106-7	MW-06	Total/NA	Water	SM 4500 Cl- E	
500-250106-8	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-250106-9	MW-10	Total/NA	Water	SM 4500 Cl- E	
MB 500-767769/106	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-767769/107	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 768618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-250106-2	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-250106-4	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-250106-5	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-250106-6	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-250106-7	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-250106-8	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-250106-9	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 500-768618/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-768618/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 768879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-3	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-768879/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-768879/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 769992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	SM 4500 F C	
500-250106-2	MW-12	Total/NA	Water	SM 4500 F C	
500-250106-3	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-769992/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-769992/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-769992/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-769992/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-250106-3 MS	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	
500-250106-3 MSD	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 769993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6	MW-05	Total/NA	Water	SM 4500 F C	
500-250106-7	MW-06	Total/NA	Water	SM 4500 F C	
500-250106-8	MW-09	Total/NA	Water	SM 4500 F C	
500-250106-9	MW-10	Total/NA	Water	SM 4500 F C	
MB 500-769993/53	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-769993/54	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-250106-6 MS	MW-05	Total/NA	Water	SM 4500 F C	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

General Chemistry (Continued)

Analysis Batch: 769993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6 MSD	MW-05	Total/NA	Water	SM 4500 F C	

Analysis Batch: 770352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-4	MW-16	Total/NA	Water	SM 4500 F C	
500-250106-5	MW-17	Total/NA	Water	SM 4500 F C	
MB 500-770352/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-770352/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-768239/1-A
Matrix: Water
Analysis Batch: 769045

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 768239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 13:18	1
Barium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 13:18	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 13:18	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 13:18	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 13:18	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 13:18	1
Molybdenum	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 13:18	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 13:18	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 13:18	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 13:18	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 13:18	1
Lithium	<0.010		0.010		mg/L		05/16/24 09:39	05/21/24 13:18	1

Lab Sample ID: MB 500-768239/1-A
Matrix: Water
Analysis Batch: 769274

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 768239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		05/16/24 09:39	05/22/24 13:34	1
Calcium	<0.20		0.20		mg/L		05/16/24 09:39	05/22/24 13:34	1

Lab Sample ID: LCS 500-768239/2-A
Matrix: Water
Analysis Batch: 769045

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 768239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0978		mg/L		98	80 - 120
Barium	0.500	0.477		mg/L		95	80 - 120
Beryllium	0.0500	0.0523		mg/L		105	80 - 120
Cadmium	0.0500	0.0482		mg/L		96	80 - 120
Cobalt	0.500	0.534		mg/L		107	80 - 120
Chromium	0.200	0.211		mg/L		106	80 - 120
Molybdenum	1.00	0.935		mg/L		94	80 - 120
Lead	0.100	0.0988		mg/L		99	80 - 120
Antimony	0.500	0.472		mg/L		94	80 - 120
Selenium	0.100	0.0921		mg/L		92	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120
Lithium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LCS 500-768239/2-A
Matrix: Water
Analysis Batch: 769274

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 768239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

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

Lab Sample ID: LCS 500-768239/2-A
Matrix: Water
Analysis Batch: 769360

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 768239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	10.0	8.11		mg/L		81	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-769539/12-A
Matrix: Water
Analysis Batch: 769797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 769539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:28	1

Lab Sample ID: LCS 500-769539/13-A
Matrix: Water
Analysis Batch: 769797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 769539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00197		mg/L		98	80 - 120

Lab Sample ID: 500-250106-7 MS
Matrix: Water
Analysis Batch: 769797

Client Sample ID: MW-06
Prep Type: Total/NA
Prep Batch: 769539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00102		mg/L		102	75 - 125

Lab Sample ID: 500-250106-7 MSD
Matrix: Water
Analysis Batch: 769797

Client Sample ID: MW-06
Prep Type: Total/NA
Prep Batch: 769539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000934		mg/L		93	75 - 125	9	20

Lab Sample ID: 500-250106-7 DU
Matrix: Water
Analysis Batch: 769797

Client Sample ID: MW-06
Prep Type: Total/NA
Prep Batch: 769539

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

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

Lab Sample ID: MB 500-766884/1
Matrix: Water
Analysis Batch: 766884

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			05/08/24 05:24	1

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

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

Lab Sample ID: LCS 500-766884/2
Matrix: Water
Analysis Batch: 766884

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	258		mg/L		103	80 - 120

Lab Sample ID: MB 500-767735/1
Matrix: Water
Analysis Batch: 767735

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			05/14/24 00:14	1

Lab Sample ID: LCS 500-767735/2
Matrix: Water
Analysis Batch: 767735

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

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-767769/106
Matrix: Water
Analysis Batch: 767769

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			05/13/24 15:13	1

Lab Sample ID: LCS 500-767769/107
Matrix: Water
Analysis Batch: 767769

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

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-769992/3
Matrix: Water
Analysis Batch: 769992

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			05/28/24 14:07	1

Lab Sample ID: MB 500-769992/31
Matrix: Water
Analysis Batch: 769992

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			05/28/24 16:27	1

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-769992/32

Matrix: Water

Analysis Batch: 769992

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	9.73		mg/L		97	90 - 119

Lab Sample ID: LCS 500-769992/4

Matrix: Water

Analysis Batch: 769992

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	9.73		mg/L		97	90 - 119

Lab Sample ID: 500-250106-3 MS

Matrix: Water

Analysis Batch: 769992

Client Sample ID: 2S/3S Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.41		5.00	5.46		mg/L		101	75 - 125

Lab Sample ID: 500-250106-3 MSD

Matrix: Water

Analysis Batch: 769992

Client Sample ID: 2S/3S Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.41		5.00	5.46		mg/L		101	75 - 125	0	20

Lab Sample ID: MB 500-769993/53

Matrix: Water

Analysis Batch: 769993

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			05/29/24 01:25	1

Lab Sample ID: LCS 500-769993/54

Matrix: Water

Analysis Batch: 769993

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	9.95		mg/L		100	90 - 119

Lab Sample ID: 500-250106-6 MS

Matrix: Water

Analysis Batch: 769993

Client Sample ID: MW-05

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.65		5.00	5.76		mg/L		102	75 - 125

Lab Sample ID: 500-250106-6 MSD

Matrix: Water

Analysis Batch: 769993

Client Sample ID: MW-05

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.65		5.00	5.84		mg/L		104	75 - 125	1	20

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-770352/31
Matrix: Water
Analysis Batch: 770352

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			05/30/24 20:53	1

Lab Sample ID: LCS 500-770352/32
Matrix: Water
Analysis Batch: 770352

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

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-768618/16
Matrix: Water
Analysis Batch: 768618

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			05/19/24 12:58	1

Lab Sample ID: LCS 500-768618/17
Matrix: Water
Analysis Batch: 768618

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.6		mg/L		108	88 - 123

Lab Sample ID: MB 500-768879/16
Matrix: Water
Analysis Batch: 768879

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			05/20/24 17:02	1

Lab Sample ID: LCS 500-768879/17
Matrix: Water
Analysis Batch: 768879

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	20.9		mg/L		105	88 - 123

Chain of Custody Record

[illegible]

eurofins | Environment Testing

Client Information Client Contact: Mr. Tim Stohner Company: KPRG and Associates, Inc. Address: 414 Plaza Drive Suite 106 City: Westmont State, Zip: IL, 60559 Phone: Email: tims@kprginc.com Project Name: Will County 2S/3S Event Desc: Quarterly GW Monitoring Site: Illinois		Sampler: IA 204 HONIESON Phone: 630 290 6850		Lab PM: Mockler, Diana J E-Mail: Diana.Mockler@et.eurofinsus.com		Carrier Tracking Label: 		COC No: 500-123089-48726 1	
		PWSID:		Analysis Rec:		Job #: 500-250106			
Due Date Requested:		TAT Requested (days):		Compliance Project. ☐ Yes ☐ No		PO #: 4502116506		WO #: Project #: 50011609	
SSOW#:		Field Filtered Sample (Yes or No)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Total Number of Containers		Preservation Codes:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Special Instructions/Note:	
MW-05		5-8-24		09:41		G		Water	
MW-06		5-8-24		11:00		G		Water	
MW-09		5-8-24		15:57		G		Water	
MW-10		5-8-24		12:13		G		Water	
MW-11		_____		_____		_____		Water	
MW-12		_____		_____		_____		Water	
2S/3S Duplicate		_____		_____		_____		Water	
MW-16		_____		_____		_____		Water	
MW-17		_____		_____		_____		Water	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For _____ Months	
Deliverable Requested I, II, III, IV, Other (specify)		Special Instructions/QC Requirements		Empty Kit Relinquished by:		Date		Time	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		1.7+18, 1.9+20		Method of Shipment:	

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-250106-1

Login Number: 250106

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7,1.8,1.8,2.0
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 $<6\text{mm}$ (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: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-11

Date Collected: 05/06/24 12:35

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:02
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:18
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:32
Total/NA	Analysis	SM 2540C		1	766884	CLB	EET CHI	05/08/24 06:13
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:43
Total/NA	Analysis	SM 4500 F C		1	769992	PFK	EET CHI	05/28/24 16:23
Total/NA	Analysis	SM 4500 SO4 E		2	768618	TR	EET CHI	05/19/24 13:34

Client Sample ID: MW-12

Date Collected: 05/06/24 10:49

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:04
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:20
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:35
Total/NA	Analysis	SM 2540C		1	766884	CLB	EET CHI	05/08/24 06:15
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:40
Total/NA	Analysis	SM 4500 F C		1	769992	PFK	EET CHI	05/28/24 16:38
Total/NA	Analysis	SM 4500 SO4 E		5	768618	TR	EET CHI	05/19/24 13:34

Client Sample ID: 2S/3S Duplicate

Date Collected: 05/06/24 00:00

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:06
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:22
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:37
Total/NA	Analysis	SM 2540C		1	766884	CLB	EET CHI	05/08/24 06:18
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:40
Total/NA	Analysis	SM 4500 F C		1	769992	PFK	EET CHI	05/28/24 16:43
Total/NA	Analysis	SM 4500 SO4 E		5	768879	TR	EET CHI	05/20/24 17:12

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-16

Date Collected: 05/06/24 13:59

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:08
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:24
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:39
Total/NA	Analysis	SM 2540C		1	766884	CLB	EET CHI	05/08/24 06:20
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:39
Total/NA	Analysis	SM 4500 F C		1	770352	SO	EET CHI	05/30/24 22:46
Total/NA	Analysis	SM 4500 SO4 E		5	768618	TR	EET CHI	05/19/24 13:34

Client Sample ID: MW-17

Date Collected: 05/06/24 11:49

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:11
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		5	769274	RN	EET CHI	05/22/24 14:26
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:41
Total/NA	Analysis	SM 2540C		1	766884	CLB	EET CHI	05/08/24 06:23
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:43
Total/NA	Analysis	SM 4500 F C		1	770352	SO	EET CHI	05/30/24 22:51
Total/NA	Analysis	SM 4500 SO4 E		10	768618	TR	EET CHI	05/19/24 13:45

Client Sample ID: MW-05

Date Collected: 05/08/24 09:41

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:13
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		5	769274	RN	EET CHI	05/22/24 14:28
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:43
Total/NA	Analysis	SM 2540C		1	767735	CLB	EET CHI	05/14/24 00:57
Total/NA	Analysis	SM 4500 CI- E		1	767769	TR	EET CHI	05/13/24 15:14
Total/NA	Analysis	SM 4500 F C		1	769993	PFK	EET CHI	05/29/24 01:36
Total/NA	Analysis	SM 4500 SO4 E		10	768618	TR	EET CHI	05/19/24 13:32

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Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-06

Date Collected: 05/08/24 11:00

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:23
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:30
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:45
Total/NA	Analysis	SM 2540C		1	767735	CLB	EET CHI	05/14/24 01:00
Total/NA	Analysis	SM 4500 CI- E		1	767769	TR	EET CHI	05/13/24 15:15
Total/NA	Analysis	SM 4500 F C		1	769993	PFK	EET CHI	05/29/24 01:52
Total/NA	Analysis	SM 4500 SO4 E		5	768618	TR	EET CHI	05/19/24 13:35

Client Sample ID: MW-09

Date Collected: 05/08/24 15:57

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:25
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:39
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 08:27
Total/NA	Analysis	SM 2540C		1	767735	CLB	EET CHI	05/14/24 01:03
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:42
Total/NA	Analysis	SM 4500 F C		1	769993	PFK	EET CHI	05/29/24 01:57
Total/NA	Analysis	SM 4500 SO4 E		5	768618	TR	EET CHI	05/19/24 13:35

Client Sample ID: MW-10

Date Collected: 05/08/24 12:13

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:27
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:41
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 08:29
Total/NA	Analysis	SM 2540C		1	767735	CLB	EET CHI	05/14/24 01:05
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:41
Total/NA	Analysis	SM 4500 F C		1	769993	PFK	EET CHI	05/29/24 02:02
Total/NA	Analysis	SM 4500 SO4 E		10	768618	TR	EET CHI	05/19/24 13:46

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Laboratory References:

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 6/7/2024 8:05:56 AM

JOB DESCRIPTION

Will County CCR (RAD)

JOB NUMBER

500-250106-2

Eurofins Chicago

Job Notes

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Authorization



Generated
6/7/2024 8:05:56 AM

Authorized for release by
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Case Narrative

Client: Midwest Generation EME LLC
Project: Will County CCR (RAD)

Job ID: 500-250106-2

Job ID: 500-250106-2

Eurofins Chicago

Job Narrative 500-250106-2

Receipt

The samples were received on 5/7/2024 2:55 PM and 5/9/2024 8:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.7°C, 1.8°C, 1.8°C and 2.0°C.

Gas Flow Proportional Counter

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: Will County CCR (RAD)

Job ID: 500-250106-2

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: Will County CCR (RAD)

Job ID: 500-250106-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-250106-1	MW-11	Water	05/06/24 12:35	05/07/24 14:55
500-250106-2	MW-12	Water	05/06/24 10:49	05/07/24 14:55
500-250106-3	2S/3S Duplicate	Water	05/06/24 00:00	05/07/24 14:55
500-250106-4	MW-16	Water	05/06/24 13:59	05/07/24 14:55
500-250106-5	MW-17	Water	05/06/24 11:49	05/07/24 14:55
500-250106-6	MW-05	Water	05/08/24 09:41	05/09/24 08:05
500-250106-7	MW-06	Water	05/08/24 11:00	05/09/24 08:05
500-250106-8	MW-09	Water	05/08/24 15:57	05/09/24 08:05
500-250106-9	MW-10	Water	05/08/24 12:13	05/09/24 08:05

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-11

Lab Sample ID: 500-250106-1

Date Collected: 05/06/24 12:35

Matrix: Water

Date Received: 05/07/24 14:55

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	0.337		0.122	0.125	1.00	0.124	pCi/L	05/09/24 09:03	06/04/24 10:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110					05/09/24 09:03	06/04/24 10:05	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	0.480	U	0.383	0.386	1.00	0.592	pCi/L	05/09/24 09:07	05/24/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110					05/09/24 09:07	05/24/24 11:43	1
Y Carrier	79.3		30 - 110					05/09/24 09:07	05/24/24 11:43	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	0.817		0.402	0.406	5.00	0.592	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-12

Lab Sample ID: 500-250106-2

Date Collected: 05/06/24 10:49

Matrix: Water

Date Received: 05/07/24 14:55

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	0.117		0.0695	0.0703	1.00	0.0861	pCi/L	05/09/24 09:03	06/04/24 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					05/09/24 09:03	06/04/24 12:15	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.522		0.325	0.328	1.00	0.467	pCi/L	05/09/24 09:07	05/24/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					05/09/24 09:07	05/24/24 11:43	1
Y Carrier	83.4		30 - 110					05/09/24 09:07	05/24/24 11:43	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	0.638		0.332	0.335	5.00	0.467	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-250106-3

Date Collected: 05/06/24 00:00

Matrix: Water

Date Received: 05/07/24 14:55

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	0.103	U	0.0740	0.0746	1.00	0.106	pCi/L	05/09/24 09:03	06/04/24 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					05/09/24 09:03	06/04/24 12:07	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	0.333	U	0.307	0.309	1.00	0.486	pCi/L	05/09/24 09:07	05/24/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					05/09/24 09:07	05/24/24 11:43	1
Y Carrier	82.2		30 - 110					05/09/24 09:07	05/24/24 11:43	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	0.436	U	0.316	0.318	5.00	0.486	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-16

Lab Sample ID: 500-250106-4

Date Collected: 05/06/24 13:59

Matrix: Water

Date Received: 05/07/24 14:55

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	0.504		0.131	0.139	1.00	0.114	pCi/L	05/09/24 09:03	06/04/24 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					05/09/24 09:03	06/04/24 12:07	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	0.224	U	0.333	0.334	1.00	0.563	pCi/L	05/09/24 09:07	05/24/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					05/09/24 09:07	05/24/24 11:43	1
Y Carrier	82.6		30 - 110					05/09/24 09:07	05/24/24 11:43	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	0.728		0.358	0.362	5.00	0.563	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-17

Lab Sample ID: 500-250106-5

Date Collected: 05/06/24 11:49

Matrix: Water

Date Received: 05/07/24 14:55

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	0.444		0.122	0.128	1.00	0.103	pCi/L	05/09/24 09:03	06/04/24 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					05/09/24 09:03	06/04/24 12:07	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	-0.191	U	0.324	0.324	1.00	0.655	pCi/L	05/09/24 09:07	05/24/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					05/09/24 09:07	05/24/24 11:43	1
Y Carrier	72.5		30 - 110					05/09/24 09:07	05/24/24 11:43	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	0.252	U	0.346	0.348	5.00	0.655	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-05

Lab Sample ID: 500-250106-6

Date Collected: 05/08/24 09:41

Matrix: Water

Date Received: 05/09/24 08:05

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	0.0176	U	0.0939	0.0939	1.00	0.178	pCi/L	05/13/24 10:09	06/04/24 23:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		30 - 110					05/13/24 10:09	06/04/24 23:16	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00762	U	0.337	0.337	1.00	0.629	pCi/L	05/13/24 10:14	05/31/24 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		30 - 110					05/13/24 10:14	05/31/24 12:14	1
Y Carrier	81.1		30 - 110					05/13/24 10:14	05/31/24 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0253	U	0.350	0.350	5.00	0.629	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-06

Lab Sample ID: 500-250106-7

Date Collected: 05/08/24 11:00

Matrix: Water

Date Received: 05/09/24 08:05

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	0.216		0.108	0.110	1.00	0.131	pCi/L	05/13/24 10:09	06/04/24 23:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		30 - 110					05/13/24 10:09	06/04/24 23:16	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0642	U	0.316	0.316	1.00	0.600	pCi/L	05/13/24 10:14	05/31/24 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		30 - 110					05/13/24 10:14	05/31/24 12:14	1
Y Carrier	81.9		30 - 110					05/13/24 10:14	05/31/24 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.152	U	0.334	0.335	5.00	0.600	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-09

Lab Sample ID: 500-250106-8

Date Collected: 05/08/24 15:57

Matrix: Water

Date Received: 05/09/24 08:05

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	0.0102	U	0.101	0.101	1.00	0.211	pCi/L	05/14/24 09:06	06/05/24 14:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					05/14/24 09:06	06/05/24 14:14	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.215	U	0.371	0.372	1.00	0.634	pCi/L	05/14/24 09:11	06/04/24 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					05/14/24 09:11	06/04/24 12:11	1
Y Carrier	87.1		30 - 110					05/14/24 09:11	06/04/24 12:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.225	U	0.385	0.385	5.00	0.634	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-10

Lab Sample ID: 500-250106-9

Date Collected: 05/08/24 12:13

Matrix: Water

Date Received: 05/09/24 08:05

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	0.287		0.167	0.169	1.00	0.204	pCi/L	05/14/24 09:06	06/05/24 14:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		30 - 110					05/14/24 09:06	06/05/24 14:14	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.543		0.354	0.358	1.00	0.520	pCi/L	05/14/24 09:11	06/04/24 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		30 - 110					05/14/24 09:11	06/04/24 12:11	1
Y Carrier	83.7		30 - 110					05/14/24 09:11	06/04/24 12:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.831		0.391	0.396	5.00	0.520	pCi/L		06/06/24 14:38	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Qualifiers

Rad

Qualifier	Qualifier Description
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: Will County CCR (RAD)

Job ID: 500-250106-2

Rad

Prep Batch: 660926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	PrecSep-21	
500-250106-2	MW-12	Total/NA	Water	PrecSep-21	
500-250106-3	2S/3S Duplicate	Total/NA	Water	PrecSep-21	
500-250106-4	MW-16	Total/NA	Water	PrecSep-21	
500-250106-5	MW-17	Total/NA	Water	PrecSep-21	
MB 160-660926/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-660926/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-250106-1 DU	MW-11	Total/NA	Water	PrecSep-21	

Prep Batch: 660927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	PrecSep_0	
500-250106-2	MW-12	Total/NA	Water	PrecSep_0	
500-250106-3	2S/3S Duplicate	Total/NA	Water	PrecSep_0	
500-250106-4	MW-16	Total/NA	Water	PrecSep_0	
500-250106-5	MW-17	Total/NA	Water	PrecSep_0	
MB 160-660927/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-660927/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-250106-1 DU	MW-11	Total/NA	Water	PrecSep_0	

Prep Batch: 661407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6	MW-05	Total/NA	Water	PrecSep-21	
500-250106-7	MW-06	Total/NA	Water	PrecSep-21	
MB 160-661407/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-661407/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 661408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6	MW-05	Total/NA	Water	PrecSep_0	
500-250106-7	MW-06	Total/NA	Water	PrecSep_0	
MB 160-661408/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-661408/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 661579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-8	MW-09	Total/NA	Water	PrecSep-21	
500-250106-9	MW-10	Total/NA	Water	PrecSep-21	
MB 160-661579/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-661579/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 661580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-8	MW-09	Total/NA	Water	PrecSep_0	
500-250106-9	MW-10	Total/NA	Water	PrecSep_0	
MB 160-661580/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-661580/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-660926/1-A

Matrix: Water

Analysis Batch: 664625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 660926

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.007787	U	0.0443	0.0443	1.00	0.0899	pCi/L	05/09/24 09:03	06/04/24 10:05	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					05/09/24 09:03	06/04/24 10:05	1

Lab Sample ID: LCS 160-660926/2-A

Matrix: Water

Analysis Batch: 664625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 660926

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	10.95		1.13	1.00	0.0934	pCi/L	97	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	93.3		30 - 110							

Lab Sample ID: 500-250106-1 DU

Matrix: Water

Analysis Batch: 664625

Client Sample ID: MW-11

Prep Type: Total/NA

Prep Batch: 660926

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.337		0.5105		0.133	1.00	0.0842	pCi/L	0.67	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	96.3		30 - 110							

Lab Sample ID: MB 160-661407/1-A

Matrix: Water

Analysis Batch: 664625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 661407

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02375	U	0.0739	0.0740	1.00	0.140	pCi/L	05/13/24 10:09	06/04/24 23:24	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					05/13/24 10:09	06/04/24 23:24	1

Lab Sample ID: LCS 160-661407/2-A

Matrix: Water

Analysis Batch: 664625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 661407

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	10.80		1.17	1.00	0.134	pCi/L	95	75 - 125

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

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

Lab Sample ID: LCS 160-661407/2-A
Matrix: Water
Analysis Batch: 664625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661407

LCS		LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.8		30 - 110

Lab Sample ID: MB 160-661579/1-A
Matrix: Water
Analysis Batch: 664836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661579

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.06966	U	0.0884	0.0886	1.00	0.228	pCi/L	05/14/24 09:06	06/05/24 14:13	1
MB		MB	Limits		Prepared		Analyzed		Dil Fac	
Carrier	%Yield	Qualifier								
Ba Carrier	99.0		30 - 110		05/14/24 09:06		06/05/24 14:13		1	

Lab Sample ID: LCS 160-661579/2-A
Matrix: Water
Analysis Batch: 664836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661579

Analyte	Spike Added	LCS		Total	RL	MDC	Unit	%Rec	%Rec Limits	
		Result	Qual	Uncert. (2σ+/-)						
Radium-226	11.3	11.23		1.32	1.00	0.218	pCi/L	99	75 - 125	
LCS		LCS	Limits		Prepared		Analyzed		Dil Fac	
Carrier	%Yield	Qualifier								
Ba Carrier	98.0		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-660927/1-A
Matrix: Water
Analysis Batch: 663323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660927

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4190	U	0.323	0.326	1.00	0.492	pCi/L	05/09/24 09:07	05/24/24 11:43	1
MB		MB	Limits		Prepared		Analyzed		Dil Fac	
Carrier	%Yield	Qualifier								
Ba Carrier	93.3		30 - 110		05/09/24 09:07		05/24/24 11:43		1	
Y Carrier	79.3		30 - 110		05/09/24 09:07		05/24/24 11:43		1	

Lab Sample ID: LCS 160-660927/2-A
Matrix: Water
Analysis Batch: 663323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660927

Analyte	Spike Added	LCS		Total	RL	MDC	Unit	%Rec	%Rec Limits	
		Result	Qual	Uncert. (2σ+/-)						
Radium-228	8.91	10.59		1.40	1.00	0.497	pCi/L	119	75 - 125	

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

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

Lab Sample ID: LCS 160-660927/2-A
Matrix: Water
Analysis Batch: 663323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660927

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.3		30 - 110
Y Carrier	80.4		30 - 110

Lab Sample ID: 500-250106-1 DU
Matrix: Water
Analysis Batch: 663180

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 660927

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
Radium-228	0.480	U	0.9288		0.412	1.00	0.533	pCi/L	0.56	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	96.3		30 - 110
Y Carrier	80.0		30 - 110

Lab Sample ID: MB 160-661408/1-A
Matrix: Water
Analysis Batch: 664147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661408

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4504	U	0.376	0.379	1.00	0.587	pCi/L	05/13/24 10:14	05/31/24 12:17	1

	MB	MB						Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	92.8		30 - 110					05/13/24 10:14	05/31/24 12:17	1
Y Carrier	81.5		30 - 110					05/13/24 10:14	05/31/24 12:17	1

Lab Sample ID: LCS 160-661408/2-A
Matrix: Water
Analysis Batch: 664147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661408

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	Limits
Radium-228	8.89	10.14		1.40	1.00	0.585	pCi/L	114	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.8		30 - 110
Y Carrier	81.5		30 - 110

Lab Sample ID: MB 160-661580/1-A
Matrix: Water
Analysis Batch: 664625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661580

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.02770	U	0.269	0.269	1.00	0.494	pCi/L	05/14/24 09:11	06/04/24 12:10	1

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

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

Lab Sample ID: MB 160-661580/1-A
Matrix: Water
Analysis Batch: 664625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661580

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	99.0		30 - 110
Y Carrier	88.6		30 - 110

Prepared	Analyzed	Dil Fac
05/14/24 09:11	06/04/24 12:10	1
05/14/24 09:11	06/04/24 12:10	1

Lab Sample ID: LCS 160-661580/2-A
Matrix: Water
Analysis Batch: 664625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661580

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.88	9.856		1.31	1.00	0.503	pCi/L	111	75 - 125

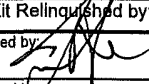
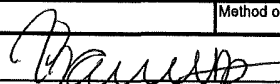
	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.0		30 - 110
Y Carrier	87.1		30 - 110

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Ver 06/08/2021 6/7/2024

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

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Client Information Client Contact: Mr Tim Stohner Company: KPRG and Associates, Inc. Address: 414 Plaza Drive Suite 106 City: Westmont State, Zip: IL, 60559 Phone: Email: tims@kprginc.com Project Name: Will County 2S/3S Event Desc: Quarterly GW Monitoring Site: Illinois		Sampler IA 204 HONIESON Phone: 630 290 6850		Lab PM Mockler, Diana J E-Mail: Diana.Mockler@et.eurofinsus.com		Carrier Tracking Label: 		COC No: 500-123089-48726 1 Page: Page 1 of 1 Job #: 500-250106			
		PWSID:		Analysis Rec 500-250106 COC							
Due Date Requested. TAT Requested (days): Compliance Project. Δ Yes Δ No PO #: 4502116506 WO #: Project #: 50011609 SSOW#:		Field Filtered Sample (Yes or No) 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SMA4500_CI_E, SMA4500_SO4_E		Total Number of Containers 5		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)		Other:			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Preservation Code		Special Instructions/Note:	
CCR											
MW-05		5-8-24	09:41	G	Water	N N X X X				5	
MW-06		5-8-24	11:00	G	Water	N N X X X				5	
MW-09		5-8-24	15:57	G	Water	N N X X X				5	
MW-10		5-8-24	12:13	G	Water	N N X X X				5	
MW-11					Water						
MW-12					Water						
2S/3S Duplicate					Water						
MW-16					Water						
MW-17					Water						
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months									
Deliverable Requested I, II, III, IV, Other (specify)		Special Instructions/QC Requirements									
Empty Kit Relinquished by:		Date		Time		Method of Shipment:					
Relinquished by: 		Date/Time: 5-9-24 08:05		Company: KPRG		Received by: 		Date/Time: 05/09/24 0805		Company: EETA	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact Δ Yes Δ No		Custody Seal No.,		Cooler Temperature(s) °C and Other Remarks. 1.7+18, 1.9+20							



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

Sampler:				Lab PM:				Carrier Tracking No(s)				COC No.			
				Mockler, Diana J								500-187962.1			
Phone:				E-Mail:				State of Origin:				Page:			
				Diana Mockler@et.eurofins.com				Illinois				Page 1 of 1			
Company:				Accreditations Required (See note):				Job #:				Preservation Codes:			
TestAmerica Laboratories, Inc.				NELAP - Illinois								500-250106-2			
Address:				Due Date Requested:				Analysis Requested				Total Number of Containers			
13715 Rider Trail North,				6/5/2024											
City:				TAT Requested (days):											
Earth City															
State, Zip:				PO #:											
MO., 63045															
Phone:				WO #:											
314-298-8566(Tel) 314-298-8757(Fax)															
Email:				Project #:											
				50011609											
Site:				SSOW#:											
NRG Midwest Generation Will County															
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other)	Field Filtered Sample (Yes or No)	903.0/PrecSep. 21 Standard Target List	904.0/PrecSep. 0 Standard Target List	Ra226Ra228_GFPc	Special Instructions/Note:			
MW-11 (500-250106-1)	5/6/24	12:35 Central	Water	X	X	X	X	X	X	X	Batch QC must be performed (dup. spikes, etc.) - no NCMs concerning limited volume;				
MW-12 (500-250106-2)	5/6/24	10:49 Central	Water	X	X	X	X	X	X	X	Batch QC must be performed (dup. spikes, etc.) - no NCMs concerning limited volume;				
2S/3S Duplicate (500-250106-3)	5/6/24	Central	Water	X	X	X	X	X	X	X	Batch QC must be performed (dup. spikes, etc.) - no NCMs concerning limited volume;				
MW-16 (500-250106-4)	5/6/24	13:59 Central	Water	X	X	X	X	X	X	X	Batch QC must be performed (dup. spikes, etc.) - no NCMs concerning limited volume;				
MW-17 (500-250106-5)	5/6/24	11:49 Central	Water	X	X	X	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/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: _____ Time: _____ Method of Shipment: _____

Relinquished by: _____ Company: _____ Received by: _____ Date/Time: _____ May 30 2024 0835 EWRN

Relinquished by: _____ Company: _____ Received by: _____ Date/Time: _____ MAY 30 2024 0835 EWRN

Relinquished by: _____ Company: _____ Received by: _____ Date/Time: _____ MAY 30 2024 0835 EWRN

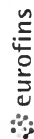
Custody Seal Intact: Δ Yes Δ No _____ CUSTODY SEAL NO.: _____ Cooler Temperature(s) °C and Other Remarks: _____

2417 Bond Street

University Park, IL 60484

Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-250106-2

Login Number: 250106

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7,1.8,1.8,2.0
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 $<6\text{mm}$ (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: 500-250106-2

Login Number: 250106

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 05/08/24 12:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (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: 500-250106-2

Login Number: 250106

List Number: 3

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 05/10/24 02:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (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: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-11

Date Collected: 05/06/24 12:35

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			660926	MLT	EET SL	05/09/24 09:03
Total/NA	Analysis	903.0		1	664625	SCB	EET SL	06/04/24 10:05
Total/NA	Prep	PrecSep_0			660927	MLT	EET SL	05/09/24 09:07
Total/NA	Analysis	904.0		1	663323	SCB	EET SL	05/24/24 11:43
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: MW-12

Date Collected: 05/06/24 10:49

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			660926	MLT	EET SL	05/09/24 09:03
Total/NA	Analysis	903.0		1	664625	SCB	EET SL	06/04/24 12:15
Total/NA	Prep	PrecSep_0			660927	MLT	EET SL	05/09/24 09:07
Total/NA	Analysis	904.0		1	663180	SCB	EET SL	05/24/24 11:43
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: 2S/3S Duplicate

Date Collected: 05/06/24 00:00

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			660926	MLT	EET SL	05/09/24 09:03
Total/NA	Analysis	903.0		1	664627	SCB	EET SL	06/04/24 12:07
Total/NA	Prep	PrecSep_0			660927	MLT	EET SL	05/09/24 09:07
Total/NA	Analysis	904.0		1	663180	SCB	EET SL	05/24/24 11:43
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: MW-16

Date Collected: 05/06/24 13:59

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			660926	MLT	EET SL	05/09/24 09:03
Total/NA	Analysis	903.0		1	664627	SCB	EET SL	06/04/24 12:07
Total/NA	Prep	PrecSep_0			660927	MLT	EET SL	05/09/24 09:07
Total/NA	Analysis	904.0		1	663180	SCB	EET SL	05/24/24 11:43
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-17

Date Collected: 05/06/24 11:49

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			660926	MLT	EET SL	05/09/24 09:03
Total/NA	Analysis	903.0		1	664627	SCB	EET SL	06/04/24 12:07
Total/NA	Prep	PrecSep_0			660927	MLT	EET SL	05/09/24 09:07
Total/NA	Analysis	904.0		1	663180	SCB	EET SL	05/24/24 11:43
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: MW-05

Date Collected: 05/08/24 09:41

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			661407	KAK	EET SL	05/13/24 10:09
Total/NA	Analysis	903.0		1	664517	SCB	EET SL	06/04/24 23:16
Total/NA	Prep	PrecSep_0			661408	KAK	EET SL	05/13/24 10:14
Total/NA	Analysis	904.0		1	664149	SCB	EET SL	05/31/24 12:14
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: MW-06

Date Collected: 05/08/24 11:00

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			661407	KAK	EET SL	05/13/24 10:09
Total/NA	Analysis	903.0		1	664517	SCB	EET SL	06/04/24 23:16
Total/NA	Prep	PrecSep_0			661408	KAK	EET SL	05/13/24 10:14
Total/NA	Analysis	904.0		1	664149	SCB	EET SL	05/31/24 12:14
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: MW-09

Date Collected: 05/08/24 15:57

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			661579	MLT	EET SL	05/14/24 09:06
Total/NA	Analysis	903.0		1	664836	SCB	EET SL	06/05/24 14:14
Total/NA	Prep	PrecSep_0			661580	MLT	EET SL	05/14/24 09:11
Total/NA	Analysis	904.0		1	664625	SCB	EET SL	06/04/24 12:11
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-10
Date Collected: 05/08/24 12:13
Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			661579	MLT	EET SL	05/14/24 09:06
Total/NA	Analysis	903.0		1	664836	SCB	EET SL	06/05/24 14:14
Total/NA	Prep	PrecSep_0			661580	MLT	EET SL	05/14/24 09:11
Total/NA	Analysis	904.0		1	664625	SCB	EET SL	06/04/24 12:11
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

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: Will County CCR (RAD)

Job ID: 500-250106-2

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)					
500-250106-1	MW-11	84.1					
500-250106-1 DU	MW-11	96.3					
500-250106-2	MW-12	93.3					
500-250106-3	2S/3S Duplicate	94.3					
500-250106-4	MW-16	92.5					
500-250106-5	MW-17	94.3					
500-250106-6	MW-05	88.6					
500-250106-7	MW-06	99.5					
500-250106-8	MW-09	88.3					
500-250106-9	MW-10	90.3					
LCS 160-660926/2-A	Lab Control Sample	93.3					
LCS 160-661407/2-A	Lab Control Sample	91.8					
LCS 160-661579/2-A	Lab Control Sample	98.0					
MB 160-660926/1-A	Method Blank	93.3					
MB 160-661407/1-A	Method Blank	92.8					
MB 160-661579/1-A	Method Blank	99.0					
Tracer/Carrier Legend							
Ba = Ba Carrier							

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba	Y				
		(30-110)	(30-110)				
500-250106-1	MW-11	84.1	79.3				
500-250106-1 DU	MW-11	96.3	80.0				
500-250106-2	MW-12	93.3	83.4				
500-250106-3	2S/3S Duplicate	94.3	82.2				
500-250106-4	MW-16	92.5	82.6				
500-250106-5	MW-17	94.3	72.5				
500-250106-6	MW-05	88.6	81.1				
500-250106-7	MW-06	99.5	81.9				
500-250106-8	MW-09	88.3	87.1				
500-250106-9	MW-10	90.3	83.7				
LCS 160-660927/2-A	Lab Control Sample	93.3	80.4				
LCS 160-661408/2-A	Lab Control Sample	91.8	81.5				
LCS 160-661580/2-A	Lab Control Sample	98.0	87.1				
MB 160-660927/1-A	Method Blank	93.3	79.3				
MB 160-661408/1-A	Method Blank	92.8	81.5				
MB 160-661580/1-A	Method Blank	99.0	88.6				
Tracer/Carrier Legend							
Ba = Ba Carrier							
Y = Y Carrier							

ANALYTICAL REPORT

PREPARED FOR

Attn: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 8/21/2024 2:46:19 PM

JOB DESCRIPTION

Will County CCR

JOB NUMBER

500-254554-1

Eurofins Chicago

Job Notes

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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: Will County CCR

Job ID: 500-254554-1

Job ID: 500-254554-1

Eurofins Chicago

Job Narrative 500-254554-1

Receipt

The samples were received on 8/2/2024 11:05 AM, 8/5/2024 4:27 PM and 8/7/2024 8:40 AM. 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 2.2°C, 2.2°C, 2.5°C, 2.8°C, 3.7°C and 4.7°C.

Metals

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

General Chemistry

Method SM4500_Cl_E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-780589 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: Will County CCR

Job ID: 500-254554-1

Method	Method Description	Protocol	Laboratory
6020B	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
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

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: Will County CCR

Job ID: 500-254554-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254554-1	MW-11	Water	08/01/24 11:47	08/02/24 11:05
500-254554-2	MW-12	Water	08/01/24 14:54	08/02/24 11:05
500-254554-3	2S/3S Duplicate	Water	08/01/24 00:00	08/02/24 11:05
500-254554-4	MW-16	Water	08/01/24 13:08	08/02/24 11:05
500-254554-5	MW-17	Water	08/01/24 14:12	08/02/24 11:05
500-254554-6	MW-09	Water	08/05/24 12:47	08/05/24 16:27
500-254554-7	MW-10	Water	08/05/24 14:03	08/05/24 16:27
500-254554-8	MW-05	Water	08/06/24 15:10	08/07/24 08:40
500-254554-9	MW-06	Water	08/06/24 10:24	08/07/24 08:40

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Client Sample ID: MW-11

Lab Sample ID: 500-254554-1

Date Collected: 08/01/24 11:47

Matrix: Water

Date Received: 08/02/24 11:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0075		0.0010		mg/L		08/15/24 09:25	08/19/24 18:04	1
Boron	3.2		0.25		mg/L		08/15/24 09:25	08/20/24 15:27	5
Barium	0.14		0.0025		mg/L		08/15/24 09:25	08/19/24 18:04	1
Beryllium	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:04	1
Calcium	100		0.20		mg/L		08/15/24 09:25	08/19/24 18:04	1
Cadmium	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:04	1
Cobalt	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:04	1
Chromium	<0.0050		0.0050		mg/L		08/15/24 09:25	08/19/24 18:04	1
Molybdenum	0.045		0.0050		mg/L		08/15/24 09:25	08/19/24 18:04	1
Lead	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:04	1
Antimony	<0.0030		0.0030		mg/L		08/15/24 09:25	08/19/24 18:04	1
Selenium	<0.0025		0.0025		mg/L		08/15/24 09:25	08/19/24 18:04	1
Thallium	<0.0020		0.0020		mg/L		08/15/24 09:25	08/19/24 18:04	1
Lithium	<0.010		0.010		mg/L		08/15/24 09:25	08/19/24 18:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/19/24 11:45	08/20/24 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	790		10		mg/L			08/06/24 00:57	1
Chloride (SM 4500 Cl- E)	120		10		mg/L			08/08/24 14:26	5
Fluoride (SM 4500 F C)	0.53		0.10		mg/L			08/15/24 13:33	1
Sulfate (SM 4500 SO4 E)	76		10		mg/L			08/12/24 14:47	2

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Client Sample ID: MW-12

Lab Sample ID: 500-254554-2

Date Collected: 08/01/24 14:54

Matrix: Water

Date Received: 08/02/24 11:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011		0.0010		mg/L		08/15/24 09:25	08/19/24 18:06	1
Boron	2.2		0.25		mg/L		08/15/24 09:25	08/20/24 15:30	5
Barium	0.15		0.0025		mg/L		08/15/24 09:25	08/19/24 18:06	1
Beryllium	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:06	1
Calcium	180		0.20		mg/L		08/15/24 09:25	08/19/24 18:06	1
Cadmium	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:06	1
Cobalt	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:06	1
Chromium	<0.0050		0.0050		mg/L		08/15/24 09:25	08/19/24 18:06	1
Molybdenum	0.027		0.0050		mg/L		08/15/24 09:25	08/19/24 18:06	1
Lead	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:06	1
Antimony	<0.0030		0.0030		mg/L		08/15/24 09:25	08/19/24 18:06	1
Selenium	0.014		0.0025		mg/L		08/15/24 09:25	08/19/24 18:06	1
Thallium	<0.0020		0.0020		mg/L		08/15/24 09:25	08/19/24 18:06	1
Lithium	0.015		0.010		mg/L		08/15/24 09:25	08/19/24 18:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/19/24 11:45	08/20/24 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			08/06/24 01:00	1
Chloride (SM 4500 Cl- E)	180	F1	10		mg/L			08/08/24 14:26	5
Fluoride (SM 4500 F C)	0.44		0.10		mg/L			08/15/24 13:37	1
Sulfate (SM 4500 SO4 E)	200		25		mg/L			08/12/24 14:48	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-254554-3

Date Collected: 08/01/24 00:00

Matrix: Water

Date Received: 08/02/24 11:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0077		0.0010		mg/L		08/15/24 09:25	08/19/24 18:09	1
Boron	3.1		0.25		mg/L		08/15/24 09:25	08/20/24 15:32	5
Barium	0.15		0.0025		mg/L		08/15/24 09:25	08/19/24 18:09	1
Beryllium	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:09	1
Calcium	110		0.20		mg/L		08/15/24 09:25	08/19/24 18:09	1
Cadmium	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:09	1
Cobalt	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:09	1
Chromium	<0.0050		0.0050		mg/L		08/15/24 09:25	08/19/24 18:09	1
Molybdenum	0.046		0.0050		mg/L		08/15/24 09:25	08/19/24 18:09	1
Lead	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:09	1
Antimony	<0.0030		0.0030		mg/L		08/15/24 09:25	08/19/24 18:09	1
Selenium	<0.0025		0.0025		mg/L		08/15/24 09:25	08/19/24 18:09	1
Thallium	<0.0020		0.0020		mg/L		08/15/24 09:25	08/19/24 18:09	1
Lithium	<0.010		0.010		mg/L		08/15/24 09:25	08/19/24 18:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/19/24 11:45	08/20/24 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	770		10		mg/L			08/06/24 01:03	1
Chloride (SM 4500 Cl- E)	120		10		mg/L			08/08/24 17:44	5
Fluoride (SM 4500 F C)	0.59		0.10		mg/L			08/15/24 13:42	1
Sulfate (SM 4500 SO4 E)	71		10		mg/L			08/12/24 14:48	2

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Client Sample ID: MW-16

Lab Sample ID: 500-254554-4

Date Collected: 08/01/24 13:08

Matrix: Water

Date Received: 08/02/24 11:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:11	1
Boron	0.83		0.050		mg/L		08/15/24 09:25	08/20/24 15:34	1
Barium	0.071		0.0025		mg/L		08/15/24 09:25	08/19/24 18:11	1
Beryllium	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:11	1
Calcium	110		0.20		mg/L		08/15/24 09:25	08/19/24 18:11	1
Cadmium	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:11	1
Cobalt	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:11	1
Chromium	<0.0050		0.0050		mg/L		08/15/24 09:25	08/19/24 18:11	1
Molybdenum	0.018		0.0050		mg/L		08/15/24 09:25	08/19/24 18:11	1
Lead	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:11	1
Antimony	<0.0030		0.0030		mg/L		08/15/24 09:25	08/19/24 18:11	1
Selenium	<0.0025		0.0025		mg/L		08/15/24 09:25	08/19/24 18:11	1
Thallium	<0.0020		0.0020		mg/L		08/15/24 09:25	08/19/24 18:11	1
Lithium	0.014		0.010		mg/L		08/15/24 09:25	08/19/24 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		08/19/24 11:45	08/20/24 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	820		10		mg/L			08/06/24 01:05	1
Chloride (SM 4500 Cl- E)	140		10		mg/L			08/08/24 17:45	5
Fluoride (SM 4500 F C)	0.35		0.10		mg/L			08/15/24 13:46	1
Sulfate (SM 4500 SO4 E)	140		25		mg/L			08/12/24 15:04	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Client Sample ID: MW-17

Lab Sample ID: 500-254554-5

Date Collected: 08/01/24 14:12

Matrix: Water

Date Received: 08/02/24 11:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0064		0.0010		mg/L		08/15/24 09:25	08/19/24 18:18	1
Boron	2.9		0.25		mg/L		08/15/24 09:25	08/20/24 15:37	5
Barium	0.054		0.0025		mg/L		08/15/24 09:25	08/19/24 18:18	1
Beryllium	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:18	1
Calcium	63		0.20		mg/L		08/15/24 09:25	08/19/24 18:18	1
Cadmium	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:18	1
Cobalt	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:18	1
Chromium	<0.0050		0.0050		mg/L		08/15/24 09:25	08/19/24 18:18	1
Molybdenum	0.13		0.0050		mg/L		08/15/24 09:25	08/19/24 18:18	1
Lead	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:18	1
Antimony	<0.0030		0.0030		mg/L		08/15/24 09:25	08/19/24 18:18	1
Selenium	<0.0025		0.0025		mg/L		08/15/24 09:25	08/19/24 18:18	1
Thallium	<0.0020		0.0020		mg/L		08/15/24 09:25	08/19/24 18:18	1
Lithium	0.019		0.010		mg/L		08/15/24 09:25	08/19/24 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		08/19/24 11:45	08/20/24 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	810		10		mg/L			08/06/24 01:08	1
Chloride (SM 4500 Cl- E)	120		10		mg/L			08/08/24 17:45	5
Fluoride (SM 4500 F C)	0.75		0.10		mg/L			08/15/24 13:51	1
Sulfate (SM 4500 SO4 E)	340		50		mg/L			08/12/24 15:05	10

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Client Sample ID: MW-09

Lab Sample ID: 500-254554-6

Date Collected: 08/05/24 12:47

Matrix: Water

Date Received: 08/05/24 16:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0095		0.0010		mg/L		08/15/24 09:25	08/19/24 18:21	1
Boron	1.9		0.25		mg/L		08/15/24 09:25	08/20/24 15:43	5
Barium	0.042		0.0025		mg/L		08/15/24 09:25	08/19/24 18:21	1
Beryllium	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:21	1
Calcium	45		0.20		mg/L		08/15/24 09:25	08/19/24 18:21	1
Cadmium	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:21	1
Cobalt	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:21	1
Chromium	<0.0050		0.0050		mg/L		08/15/24 09:25	08/19/24 18:21	1
Molybdenum	0.073		0.0050		mg/L		08/15/24 09:25	08/19/24 18:21	1
Lead	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:21	1
Antimony	<0.0030		0.0030		mg/L		08/15/24 09:25	08/19/24 18:21	1
Selenium	<0.0025		0.0025		mg/L		08/15/24 09:25	08/19/24 18:21	1
Thallium	<0.0020		0.0020		mg/L		08/15/24 09:25	08/19/24 18:21	1
Lithium	<0.010		0.010		mg/L		08/15/24 09:25	08/19/24 18:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/19/24 11:45	08/20/24 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	800		10		mg/L			08/06/24 01:10	1
Chloride (SM 4500 Cl- E)	200		10		mg/L			08/08/24 17:45	5
Fluoride (SM 4500 F C)	0.54		0.10		mg/L			08/15/24 13:56	1
Sulfate (SM 4500 SO4 E)	220		25		mg/L			08/12/24 14:49	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Client Sample ID: MW-10

Lab Sample ID: 500-254554-7

Date Collected: 08/05/24 14:03

Matrix: Water

Date Received: 08/05/24 16:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0079		0.0010		mg/L		08/15/24 09:25	08/19/24 18:23	1
Boron	2.4		0.25		mg/L		08/15/24 09:25	08/20/24 15:46	5
Barium	0.070		0.0025		mg/L		08/15/24 09:25	08/19/24 18:23	1
Beryllium	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:23	1
Calcium	89		0.20		mg/L		08/15/24 09:25	08/19/24 18:23	1
Cadmium	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:23	1
Cobalt	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:23	1
Chromium	<0.0050		0.0050		mg/L		08/15/24 09:25	08/19/24 18:23	1
Molybdenum	0.15		0.0050		mg/L		08/15/24 09:25	08/19/24 18:23	1
Lead	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:23	1
Antimony	<0.0030		0.0030		mg/L		08/15/24 09:25	08/19/24 18:23	1
Selenium	<0.0025		0.0025		mg/L		08/15/24 09:25	08/19/24 18:23	1
Thallium	<0.0020		0.0020		mg/L		08/15/24 09:25	08/19/24 18:23	1
Lithium	0.016		0.010		mg/L		08/15/24 09:25	08/19/24 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		08/19/24 11:45	08/20/24 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	850		10		mg/L			08/06/24 01:13	1
Chloride (SM 4500 Cl- E)	140		10		mg/L			08/08/24 17:46	5
Fluoride (SM 4500 F C)	0.92		0.10		mg/L			08/15/24 14:01	1
Sulfate (SM 4500 SO4 E)	310		50		mg/L			08/12/24 15:05	10

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Client Sample ID: MW-05

Lab Sample ID: 500-254554-8

Date Collected: 08/06/24 15:10

Matrix: Water

Date Received: 08/07/24 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0015		0.0010		mg/L		08/15/24 09:25	08/19/24 18:26	1
Boron	5.2		0.25		mg/L		08/15/24 09:25	08/20/24 15:48	5
Barium	0.052		0.0025		mg/L		08/15/24 09:25	08/19/24 18:26	1
Beryllium	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:26	1
Calcium	120		0.20		mg/L		08/15/24 09:25	08/19/24 18:26	1
Cadmium	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:26	1
Cobalt	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:26	1
Chromium	<0.0050		0.0050		mg/L		08/15/24 09:25	08/19/24 18:26	1
Molybdenum	0.054		0.0050		mg/L		08/15/24 09:25	08/19/24 18:26	1
Lead	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:26	1
Antimony	<0.0030		0.0030		mg/L		08/15/24 09:25	08/19/24 18:26	1
Selenium	0.0049		0.0025		mg/L		08/15/24 09:25	08/19/24 18:26	1
Thallium	<0.0020		0.0020		mg/L		08/15/24 09:25	08/19/24 18:26	1
Lithium	0.018		0.010		mg/L		08/15/24 09:25	08/19/24 18:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/19/24 11:45	08/20/24 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			08/11/24 22:55	1
Chloride (SM 4500 Cl- E)	31		2.0		mg/L			08/08/24 16:10	1
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			08/15/24 14:06	1
Sulfate (SM 4500 SO4 E)	420		50		mg/L			08/12/24 15:05	10

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Client Sample ID: MW-06

Lab Sample ID: 500-254554-9

Date Collected: 08/06/24 10:24

Matrix: Water

Date Received: 08/07/24 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0025		0.0010		mg/L		08/15/24 09:25	08/19/24 18:35	1
Boron	2.3		0.25		mg/L		08/15/24 09:25	08/20/24 15:50	5
Barium	0.090		0.0025		mg/L		08/15/24 09:25	08/19/24 18:35	1
Beryllium	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:35	1
Calcium	110		0.20		mg/L		08/15/24 09:25	08/19/24 18:35	1
Cadmium	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:35	1
Cobalt	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 18:35	1
Chromium	<0.0050		0.0050		mg/L		08/15/24 09:25	08/19/24 18:35	1
Molybdenum	0.020		0.0050		mg/L		08/15/24 09:25	08/19/24 18:35	1
Lead	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 18:35	1
Antimony	<0.0030		0.0030		mg/L		08/15/24 09:25	08/19/24 18:35	1
Selenium	<0.0025		0.0025		mg/L		08/15/24 09:25	08/19/24 18:35	1
Thallium	<0.0020		0.0020		mg/L		08/15/24 09:25	08/19/24 18:35	1
Lithium	0.019		0.010		mg/L		08/15/24 09:25	08/19/24 18:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/19/24 11:45	08/20/24 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	580		10		mg/L			08/11/24 22:57	1
Chloride (SM 4500 Cl- E)	15		2.0		mg/L			08/08/24 16:10	1
Fluoride (SM 4500 F C)	0.38		0.10		mg/L			08/15/24 14:11	1
Sulfate (SM 4500 SO4 E)	180		25		mg/L			08/12/24 14:50	5

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
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: Will County CCR

Job ID: 500-254554-1

Metals

Prep Batch: 781599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-1	MW-11	Total Recoverable	Water	3005A	
500-254554-2	MW-12	Total Recoverable	Water	3005A	
500-254554-3	2S/3S Duplicate	Total Recoverable	Water	3005A	
500-254554-4	MW-16	Total Recoverable	Water	3005A	
500-254554-5	MW-17	Total Recoverable	Water	3005A	
500-254554-6	MW-09	Total Recoverable	Water	3005A	
500-254554-7	MW-10	Total Recoverable	Water	3005A	
500-254554-8	MW-05	Total Recoverable	Water	3005A	
500-254554-9	MW-06	Total Recoverable	Water	3005A	
MB 500-781599/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781599/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 782177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-1	MW-11	Total/NA	Water	7470A	
500-254554-2	MW-12	Total/NA	Water	7470A	
500-254554-3	2S/3S Duplicate	Total/NA	Water	7470A	
500-254554-4	MW-16	Total/NA	Water	7470A	
500-254554-5	MW-17	Total/NA	Water	7470A	
500-254554-6	MW-09	Total/NA	Water	7470A	
500-254554-7	MW-10	Total/NA	Water	7470A	
500-254554-8	MW-05	Total/NA	Water	7470A	
500-254554-9	MW-06	Total/NA	Water	7470A	
MB 500-782177/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-782177/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-254554-8 MS	MW-05	Total/NA	Water	7470A	
500-254554-8 MSD	MW-05	Total/NA	Water	7470A	
500-254554-8 DU	MW-05	Total/NA	Water	7470A	

Analysis Batch: 782311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-1	MW-11	Total Recoverable	Water	6020B	781599
500-254554-2	MW-12	Total Recoverable	Water	6020B	781599
500-254554-3	2S/3S Duplicate	Total Recoverable	Water	6020B	781599
500-254554-4	MW-16	Total Recoverable	Water	6020B	781599
500-254554-5	MW-17	Total Recoverable	Water	6020B	781599
500-254554-6	MW-09	Total Recoverable	Water	6020B	781599
500-254554-7	MW-10	Total Recoverable	Water	6020B	781599
500-254554-8	MW-05	Total Recoverable	Water	6020B	781599
500-254554-9	MW-06	Total Recoverable	Water	6020B	781599
MB 500-781599/1-A	Method Blank	Total Recoverable	Water	6020B	781599
LCS 500-781599/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781599

Analysis Batch: 782389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-1	MW-11	Total/NA	Water	7470A	782177
500-254554-2	MW-12	Total/NA	Water	7470A	782177
500-254554-3	2S/3S Duplicate	Total/NA	Water	7470A	782177
500-254554-4	MW-16	Total/NA	Water	7470A	782177
500-254554-5	MW-17	Total/NA	Water	7470A	782177
500-254554-6	MW-09	Total/NA	Water	7470A	782177

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Metals (Continued)

Analysis Batch: 782389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-7	MW-10	Total/NA	Water	7470A	782177
500-254554-8	MW-05	Total/NA	Water	7470A	782177
500-254554-9	MW-06	Total/NA	Water	7470A	782177
MB 500-782177/12-A	Method Blank	Total/NA	Water	7470A	782177
LCS 500-782177/13-A	Lab Control Sample	Total/NA	Water	7470A	782177
500-254554-8 MS	MW-05	Total/NA	Water	7470A	782177
500-254554-8 MSD	MW-05	Total/NA	Water	7470A	782177
500-254554-8 DU	MW-05	Total/NA	Water	7470A	782177

Analysis Batch: 782541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-1	MW-11	Total Recoverable	Water	6020B	781599
500-254554-2	MW-12	Total Recoverable	Water	6020B	781599
500-254554-3	2S/3S Duplicate	Total Recoverable	Water	6020B	781599
500-254554-4	MW-16	Total Recoverable	Water	6020B	781599
500-254554-5	MW-17	Total Recoverable	Water	6020B	781599
500-254554-6	MW-09	Total Recoverable	Water	6020B	781599
500-254554-7	MW-10	Total Recoverable	Water	6020B	781599
500-254554-8	MW-05	Total Recoverable	Water	6020B	781599
500-254554-9	MW-06	Total Recoverable	Water	6020B	781599

General Chemistry

Analysis Batch: 779992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-1	MW-11	Total/NA	Water	SM 2540C	
500-254554-2	MW-12	Total/NA	Water	SM 2540C	
500-254554-3	2S/3S Duplicate	Total/NA	Water	SM 2540C	
500-254554-4	MW-16	Total/NA	Water	SM 2540C	
500-254554-5	MW-17	Total/NA	Water	SM 2540C	
500-254554-6	MW-09	Total/NA	Water	SM 2540C	
500-254554-7	MW-10	Total/NA	Water	SM 2540C	
MB 500-779992/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779992/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-1	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-254554-2	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-254554-3	2S/3S Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-254554-4	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-254554-5	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-254554-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-254554-7	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-254554-8	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-254554-9	MW-06	Total/NA	Water	SM 4500 Cl- E	
MB 500-780589/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-780589/67	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-780589/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-780589/68	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-254554-2 MS	MW-12	Total/NA	Water	SM 4500 Cl- E	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

General Chemistry (Continued)

Analysis Batch: 780589 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-2 MSD	MW-12	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 780826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-8	MW-05	Total/NA	Water	SM 2540C	
500-254554-9	MW-06	Total/NA	Water	SM 2540C	
MB 500-780826/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-780826/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 781040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-1	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-254554-2	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-254554-3	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-254554-4	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-254554-5	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-254554-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-254554-7	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-254554-8	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-254554-9	MW-06	Total/NA	Water	SM 4500 SO4 E	
MB 500-781040/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-781040/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 781815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-1	MW-11	Total/NA	Water	SM 4500 F C	
500-254554-2	MW-12	Total/NA	Water	SM 4500 F C	
500-254554-3	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	
500-254554-4	MW-16	Total/NA	Water	SM 4500 F C	
500-254554-5	MW-17	Total/NA	Water	SM 4500 F C	
500-254554-6	MW-09	Total/NA	Water	SM 4500 F C	
500-254554-7	MW-10	Total/NA	Water	SM 4500 F C	
500-254554-8	MW-05	Total/NA	Water	SM 4500 F C	
500-254554-9	MW-06	Total/NA	Water	SM 4500 F C	
MB 500-781815/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-781815/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781599/1-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 17:31	1
Boron	<0.050		0.050		mg/L		08/15/24 09:25	08/19/24 17:31	1
Barium	<0.0025		0.0025		mg/L		08/15/24 09:25	08/19/24 17:31	1
Beryllium	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 17:31	1
Calcium	<0.20		0.20		mg/L		08/15/24 09:25	08/19/24 17:31	1
Cadmium	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 17:31	1
Cobalt	<0.0010		0.0010		mg/L		08/15/24 09:25	08/19/24 17:31	1
Chromium	<0.0050		0.0050		mg/L		08/15/24 09:25	08/19/24 17:31	1
Molybdenum	<0.0050		0.0050		mg/L		08/15/24 09:25	08/19/24 17:31	1
Lead	<0.00050		0.00050		mg/L		08/15/24 09:25	08/19/24 17:31	1
Antimony	<0.0030		0.0030		mg/L		08/15/24 09:25	08/19/24 17:31	1
Selenium	<0.0025		0.0025		mg/L		08/15/24 09:25	08/19/24 17:31	1
Thallium	<0.0020		0.0020		mg/L		08/15/24 09:25	08/19/24 17:31	1
Lithium	<0.010		0.010		mg/L		08/15/24 09:25	08/19/24 17:31	1

Lab Sample ID: LCS 500-781599/2-A
Matrix: Water
Analysis Batch: 782311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.0960		mg/L		96	80 - 120
Boron	1.00	1.02		mg/L		102	80 - 120
Barium	0.500	0.489		mg/L		98	80 - 120
Beryllium	0.0500	0.0497		mg/L		99	80 - 120
Calcium	10.0	8.34		mg/L		83	80 - 120
Cadmium	0.0500	0.0493		mg/L		99	80 - 120
Cobalt	0.500	0.510		mg/L		102	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Molybdenum	1.00	0.946		mg/L		95	80 - 120
Lead	0.100	0.0980		mg/L		98	80 - 120
Antimony	0.500	0.491		mg/L		98	80 - 120
Selenium	0.100	0.0951		mg/L		95	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120
Lithium	0.100	0.105		mg/L		105	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-782177/12-A
Matrix: Water
Analysis Batch: 782389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 782177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/19/24 11:45	08/20/24 09:26	1

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

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

Lab Sample ID: LCS 500-782177/13-A
Matrix: Water
Analysis Batch: 782389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 782177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00204		mg/L		102	80 - 120

Lab Sample ID: 500-254554-8 MS
Matrix: Water
Analysis Batch: 782389

Client Sample ID: MW-05
Prep Type: Total/NA
Prep Batch: 782177

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.000999	0.000989		mg/L		99	75 - 125

Lab Sample ID: 500-254554-8 MSD
Matrix: Water
Analysis Batch: 782389

Client Sample ID: MW-05
Prep Type: Total/NA
Prep Batch: 782177

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.000999	0.000968		mg/L		97	75 - 125	2	20

Lab Sample ID: 500-254554-8 DU
Matrix: Water
Analysis Batch: 782389

Client Sample ID: MW-05
Prep Type: Total/NA
Prep Batch: 782177

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

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

Lab Sample ID: MB 500-779992/1
Matrix: Water
Analysis Batch: 779992

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			08/06/24 00:14	1

Lab Sample ID: LCS 500-779992/2
Matrix: Water
Analysis Batch: 779992

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: MB 500-780826/1
Matrix: Water
Analysis Batch: 780826

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			08/11/24 22:32	1

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

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

Lab Sample ID: LCS 500-780826/2
Matrix: Water
Analysis Batch: 780826

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

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-780589/16
Matrix: Water
Analysis Batch: 780589

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			08/08/24 13:36	1

Lab Sample ID: MB 500-780589/67
Matrix: Water
Analysis Batch: 780589

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			08/08/24 16:09	1

Lab Sample ID: LCS 500-780589/17
Matrix: Water
Analysis Batch: 780589

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	19.1		mg/L		96	85 - 115

Lab Sample ID: LCS 500-780589/68
Matrix: Water
Analysis Batch: 780589

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		96	85 - 115

Lab Sample ID: 500-254554-2 MS
Matrix: Water
Analysis Batch: 780589

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	180	F1	100	199	F1	mg/L		14	75 - 125

Lab Sample ID: 500-254554-2 MSD
Matrix: Water
Analysis Batch: 780589

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	180	F1	100	194	F1	mg/L		10	75 - 125	2	20

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-781815/3

Matrix: Water

Analysis Batch: 781815

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			08/15/24 12:36	1

Lab Sample ID: LCS 500-781815/4

Matrix: Water

Analysis Batch: 781815

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	9.52		mg/L		95	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-781040/16

Matrix: Water

Analysis Batch: 781040

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			08/12/24 14:32	1

Lab Sample ID: LCS 500-781040/17

Matrix: Water

Analysis Batch: 781040

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	21.4		mg/L		107	88 - 123

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5/7/5/8 55 1234

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		Sampler: <u>JAN JOHN HOWISON</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-126447-48726 1							
Client Contact: Mr Tim Stohner		Phone: <u>630 290 6850</u>		E-Mail: Diana Mockler@et.eurofinsus.com		State of Origin		Page 1 of 1							
Company: KPRG and Associates, Inc		PWSID:		Analysis Requested						Job #: <u>500-254554</u>					
Address: 414 Plaza Drive Suite 106		Due Date Requested:		Field Filtered Sample (Yes/No) 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E Total Number of Containers						Preservation Codes: D - HNO3 N - None					
City: Westmont		TAT Requested (days):								Other:					
State, Zip: IL, 60559		Compliance Project: ☐ Yes ☐ No													
Phone:		PO #: 4502116506													
Email: tims@kprginc.com		WO #:													
Project Name: Will County 2S/3S Event Desc: Quarterly GW Monitoring <u>CCR</u>		Project #: 50011609		Special Instructions/Note:											
Site: Illinois		SSOW#:													
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, ST=Tissue, A=Air)		Preservation Code		Special Instructions/Note:			
MW-05		—		—		—		Water		D					
MW-06		—		—		—		Water		D					
MW-09		8-5-24		12:47		G		Water		N		X X X			
MW-10		8-5-24		14:03		G		Water		N		X X X			
MW-11		—		—		—		Water		D					
MW-12		—		—		—		Water		D					
2S/3S Duplicate		—		—		—		Water		D					
MW-16		—		—		—		Water		D					
MW-17		—		—		—		Water		D					
Possible Hazard Identification												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological												☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested I, II, III, IV, Other (specify)												Special Instructions/QC Requirements			
Empty Kit Relinquished by: <u>[Signature]</u>				Date: 8-5-24		Time: 16:27		Company: KPRG		Received by: <u>[Signature]</u>		Date/Time: 8/5/24 1627		Company: <u>[Signature]</u>	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:			
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>23 → 2.2</u>											

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Ver: 04/02/2024 8/21/2024

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-254554-1

Login Number: 254554

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2,2.8,4.7,2.2,3.7,2.5
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 $<6\text{mm}$ (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: Will County CCR

Job ID: 500-254554-1

Client Sample ID: MW-11

Date Collected: 08/01/24 11:47

Date Received: 08/02/24 11:05

Lab Sample ID: 500-254554-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:04
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		5	782541	RN	EET CHI	08/20/24 15:27
Total/NA	Prep	7470A			782177	MJG	EET CHI	08/19/24 11:45 - 08/19/24 13:45 ¹
Total/NA	Analysis	7470A		1	782389	MJG	EET CHI	08/20/24 09:31
Total/NA	Analysis	SM 2540C		1	779992	CLB	EET CHI	08/06/24 00:57
Total/NA	Analysis	SM 4500 CI- E		5	780589	TR	EET CHI	08/08/24 14:26
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 13:33
Total/NA	Analysis	SM 4500 SO4 E		2	781040	TR	EET CHI	08/12/24 14:47

Client Sample ID: MW-12

Date Collected: 08/01/24 14:54

Date Received: 08/02/24 11:05

Lab Sample ID: 500-254554-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:06
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		5	782541	RN	EET CHI	08/20/24 15:30
Total/NA	Prep	7470A			782177	MJG	EET CHI	08/19/24 11:45 - 08/19/24 13:45 ¹
Total/NA	Analysis	7470A		1	782389	MJG	EET CHI	08/20/24 09:33
Total/NA	Analysis	SM 2540C		1	779992	CLB	EET CHI	08/06/24 01:00
Total/NA	Analysis	SM 4500 CI- E		5	780589	TR	EET CHI	08/08/24 14:26
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 13:37
Total/NA	Analysis	SM 4500 SO4 E		5	781040	TR	EET CHI	08/12/24 14:48

Client Sample ID: 2S/3S Duplicate

Date Collected: 08/01/24 00:00

Date Received: 08/02/24 11:05

Lab Sample ID: 500-254554-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:09
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		5	782541	RN	EET CHI	08/20/24 15:32
Total/NA	Prep	7470A			782177	MJG	EET CHI	08/19/24 11:45 - 08/19/24 13:45 ¹
Total/NA	Analysis	7470A		1	782389	MJG	EET CHI	08/20/24 09:35
Total/NA	Analysis	SM 2540C		1	779992	CLB	EET CHI	08/06/24 01:03
Total/NA	Analysis	SM 4500 CI- E		5	780589	TR	EET CHI	08/08/24 17:44
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 13:42
Total/NA	Analysis	SM 4500 SO4 E		2	781040	TR	EET CHI	08/12/24 14:48

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Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Client Sample ID: MW-16

Date Collected: 08/01/24 13:08

Date Received: 08/02/24 11:05

Lab Sample ID: 500-254554-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:11
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782541	RN	EET CHI	08/20/24 15:34
Total/NA	Prep	7470A			782177	MJG	EET CHI	08/19/24 11:45 - 08/19/24 13:45 ¹
Total/NA	Analysis	7470A		1	782389	MJG	EET CHI	08/20/24 09:37
Total/NA	Analysis	SM 2540C		1	779992	CLB	EET CHI	08/06/24 01:05
Total/NA	Analysis	SM 4500 CI- E		5	780589	TR	EET CHI	08/08/24 17:45
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 13:46
Total/NA	Analysis	SM 4500 SO4 E		5	781040	TR	EET CHI	08/12/24 15:04

Client Sample ID: MW-17

Date Collected: 08/01/24 14:12

Date Received: 08/02/24 11:05

Lab Sample ID: 500-254554-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:18
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		5	782541	RN	EET CHI	08/20/24 15:37
Total/NA	Prep	7470A			782177	MJG	EET CHI	08/19/24 11:45 - 08/19/24 13:45 ¹
Total/NA	Analysis	7470A		1	782389	MJG	EET CHI	08/20/24 09:39
Total/NA	Analysis	SM 2540C		1	779992	CLB	EET CHI	08/06/24 01:08
Total/NA	Analysis	SM 4500 CI- E		5	780589	TR	EET CHI	08/08/24 17:45
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 13:51
Total/NA	Analysis	SM 4500 SO4 E		10	781040	TR	EET CHI	08/12/24 15:05

Client Sample ID: MW-09

Date Collected: 08/05/24 12:47

Date Received: 08/05/24 16:27

Lab Sample ID: 500-254554-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:21
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		5	782541	RN	EET CHI	08/20/24 15:43
Total/NA	Prep	7470A			782177	MJG	EET CHI	08/19/24 11:45 - 08/19/24 13:45 ¹
Total/NA	Analysis	7470A		1	782389	MJG	EET CHI	08/20/24 09:41
Total/NA	Analysis	SM 2540C		1	779992	CLB	EET CHI	08/06/24 01:10
Total/NA	Analysis	SM 4500 CI- E		5	780589	TR	EET CHI	08/08/24 17:45
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 13:56
Total/NA	Analysis	SM 4500 SO4 E		5	781040	TR	EET CHI	08/12/24 14:49

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Client Sample ID: MW-10

Date Collected: 08/05/24 14:03

Date Received: 08/05/24 16:27

Lab Sample ID: 500-254554-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:23
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		5	782541	RN	EET CHI	08/20/24 15:46
Total/NA	Prep	7470A			782177	MJG	EET CHI	08/19/24 11:45 - 08/19/24 13:45 ¹
Total/NA	Analysis	7470A		1	782389	MJG	EET CHI	08/20/24 09:43
Total/NA	Analysis	SM 2540C		1	779992	CLB	EET CHI	08/06/24 01:13
Total/NA	Analysis	SM 4500 CI- E		5	780589	TR	EET CHI	08/08/24 17:46
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 14:01
Total/NA	Analysis	SM 4500 SO4 E		10	781040	TR	EET CHI	08/12/24 15:05

Client Sample ID: MW-05

Date Collected: 08/06/24 15:10

Date Received: 08/07/24 08:40

Lab Sample ID: 500-254554-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:26
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		5	782541	RN	EET CHI	08/20/24 15:48
Total/NA	Prep	7470A			782177	MJG	EET CHI	08/19/24 11:45 - 08/19/24 13:45 ¹
Total/NA	Analysis	7470A		1	782389	MJG	EET CHI	08/20/24 10:03
Total/NA	Analysis	SM 2540C		1	780826	CLB	EET CHI	08/11/24 22:55
Total/NA	Analysis	SM 4500 CI- E		1	780589	TR	EET CHI	08/08/24 16:10
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 14:06
Total/NA	Analysis	SM 4500 SO4 E		10	781040	TR	EET CHI	08/12/24 15:05

Client Sample ID: MW-06

Date Collected: 08/06/24 10:24

Date Received: 08/07/24 08:40

Lab Sample ID: 500-254554-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		1	782311	RN	EET CHI	08/19/24 18:35
Total Recoverable	Prep	3005A			781599	BDE	EET CHI	08/15/24 09:25 - 08/15/24 15:25 ¹
Total Recoverable	Analysis	6020B		5	782541	RN	EET CHI	08/20/24 15:50
Total/NA	Prep	7470A			782177	MJG	EET CHI	08/19/24 11:45 - 08/19/24 13:45 ¹
Total/NA	Analysis	7470A		1	782389	MJG	EET CHI	08/20/24 10:28
Total/NA	Analysis	SM 2540C		1	780826	CLB	EET CHI	08/11/24 22:57
Total/NA	Analysis	SM 4500 CI- E		1	780589	TR	EET CHI	08/08/24 16:10
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 14:11
Total/NA	Analysis	SM 4500 SO4 E		5	781040	TR	EET CHI	08/12/24 14:50

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-254554-1

Laboratory References:

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 9/5/2024 12:47:59 PM

JOB DESCRIPTION

Will County CCR (RAD)

JOB NUMBER

500-254554-2

Eurofins Chicago

Job Notes

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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: Will County CCR (RAD)

Job ID: 500-254554-2

Job ID: 500-254554-2

Eurofins Chicago

Job Narrative
500-254554-2

Receipt

The samples were received on 8/2/2024 11:05 AM, 8/5/2024 4:27 PM and 8/7/2024 8:40 AM. 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 2.2°C, 2.2°C, 2.5°C, 2.8°C, 3.7°C and 4.7°C.

Gas Flow Proportional Counter

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: Will County CCR (RAD)

Job ID: 500-254554-2

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: Will County CCR (RAD)

Job ID: 500-254554-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254554-1	MW-11	Water	08/01/24 11:47	08/02/24 11:05
500-254554-2	MW-12	Water	08/01/24 14:54	08/02/24 11:05
500-254554-3	2S/3S Duplicate	Water	08/01/24 00:00	08/02/24 11:05
500-254554-4	MW-16	Water	08/01/24 13:08	08/02/24 11:05
500-254554-5	MW-17	Water	08/01/24 14:12	08/02/24 11:05
500-254554-6	MW-09	Water	08/05/24 12:47	08/05/24 16:27
500-254554-7	MW-10	Water	08/05/24 14:03	08/05/24 16:27
500-254554-8	MW-05	Water	08/06/24 15:10	08/07/24 08:40
500-254554-9	MW-06	Water	08/06/24 10:24	08/07/24 08:40

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: MW-11

Lab Sample ID: 500-254554-1

Date Collected: 08/01/24 11:47

Matrix: Water

Date Received: 08/02/24 11:05

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	0.287		0.0982	0.102	1.00	0.0930	pCi/L	08/06/24 16:56	08/29/24 15:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					08/06/24 16:56	08/29/24 15:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.26		0.480	0.494	1.00	0.586	pCi/L	08/06/24 17:02	08/14/24 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					08/06/24 17:02	08/14/24 12:58	1
Y Carrier	77.8		30 - 110					08/06/24 17:02	08/14/24 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	1.55		0.490	0.504	5.00	0.586	pCi/L		09/05/24 10:20	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: MW-12

Lab Sample ID: 500-254554-2

Date Collected: 08/01/24 14:54

Matrix: Water

Date Received: 08/02/24 11:05

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	0.0186	U	0.0476	0.0477	1.00	0.0892	pCi/L	08/06/24 16:56	08/29/24 15:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					08/06/24 16:56	08/29/24 15:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.518	U	0.408	0.410	1.00	0.629	pCi/L	08/06/24 17:02	08/14/24 12:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					08/06/24 17:02	08/14/24 12:59	1
Y Carrier	77.8		30 - 110					08/06/24 17:02	08/14/24 12:59	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	0.537	U	0.411	0.413	5.00	0.629	pCi/L		09/05/24 10:20	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-254554-3

Date Collected: 08/01/24 00:00

Matrix: Water

Date Received: 08/02/24 11:05

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	0.330		0.103	0.107	1.00	0.0871	pCi/L	08/06/24 16:56	08/29/24 15:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/06/24 16:56	08/29/24 15:56	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.572	U	0.423	0.426	1.00	0.646	pCi/L	08/06/24 17:02	08/14/24 12:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					08/06/24 17:02	08/14/24 12:59	1
Y Carrier	81.5		30 - 110					08/06/24 17:02	08/14/24 12:59	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	0.902		0.435	0.439	5.00	0.646	pCi/L		09/05/24 10:20	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: MW-16

Lab Sample ID: 500-254554-4

Date Collected: 08/01/24 13:08

Matrix: Water

Date Received: 08/02/24 11:05

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	0.732		0.147	0.161	1.00	0.0870	pCi/L	08/06/24 16:56	08/29/24 15:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		30 - 110					08/06/24 16:56	08/29/24 15:58	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.14		0.467	0.478	1.00	0.594	pCi/L	08/06/24 17:02	08/14/24 12:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		30 - 110					08/06/24 17:02	08/14/24 12:59	1
Y Carrier	81.1		30 - 110					08/06/24 17:02	08/14/24 12:59	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	1.87		0.490	0.504	5.00	0.594	pCi/L		09/05/24 10:20	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: MW-17

Lab Sample ID: 500-254554-5

Date Collected: 08/01/24 14:12

Matrix: Water

Date Received: 08/02/24 11:05

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	0.333		0.0992	0.104	1.00	0.0787	pCi/L	08/06/24 16:56	08/29/24 15:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		30 - 110					08/06/24 16:56	08/29/24 15:58	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.264	U	0.339	0.340	1.00	0.565	pCi/L	08/06/24 17:02	08/14/24 12:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		30 - 110					08/06/24 17:02	08/14/24 12:59	1
Y Carrier	79.6		30 - 110					08/06/24 17:02	08/14/24 12:59	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	0.597		0.353	0.356	5.00	0.565	pCi/L		09/05/24 10:20	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: MW-09

Lab Sample ID: 500-254554-6

Date Collected: 08/05/24 12:47

Matrix: Water

Date Received: 08/05/24 16:27

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129		0.0684	0.0694	1.00	0.0746	pCi/L	08/08/24 07:47	09/03/24 14:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.7		30 - 110					08/08/24 07:47	09/03/24 14:50	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	0.256	U	0.345	0.346	1.00	0.578	pCi/L	08/08/24 07:52	08/16/24 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.7		30 - 110					08/08/24 07:52	08/16/24 11:50	1
Y Carrier	84.9		30 - 110					08/08/24 07:52	08/16/24 11:50	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	0.385	U	0.352	0.353	5.00	0.578	pCi/L		09/05/24 10:11	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: MW-10

Lab Sample ID: 500-254554-7

Date Collected: 08/05/24 14:03

Matrix: Water

Date Received: 08/05/24 16:27

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.164		0.0822	0.0835	1.00	0.101	pCi/L	08/08/24 07:47	09/03/24 14:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		30 - 110					08/08/24 07:47	09/03/24 14:53	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.489		0.320	0.323	1.00	0.472	pCi/L	08/08/24 07:52	08/16/24 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		30 - 110					08/08/24 07:52	08/16/24 11:50	1
Y Carrier	86.4		30 - 110					08/08/24 07:52	08/16/24 11:50	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	0.653		0.330	0.334	5.00	0.472	pCi/L		09/05/24 10:11	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: MW-05

Date Collected: 08/06/24 15:10

Date Received: 08/07/24 08:40

Lab Sample ID: 500-254554-8

Matrix: Water

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	0.0820	U	0.0762	0.0766	1.00	0.118	pCi/L	08/09/24 08:06	09/03/24 23:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					08/09/24 08:06	09/03/24 23:10	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	0.510	U	0.397	0.400	1.00	0.608	pCi/L	08/09/24 08:14	08/20/24 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					08/09/24 08:14	08/20/24 12:14	1
Y Carrier	71.0		30 - 110					08/09/24 08:14	08/20/24 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.592	U	0.404	0.407	5.00	0.608	pCi/L		09/05/24 10:20	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: MW-06

Lab Sample ID: 500-254554-9

Date Collected: 08/06/24 10:24

Matrix: Water

Date Received: 08/07/24 08:40

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	0.188		0.0839	0.0856	1.00	0.0903	pCi/L	08/09/24 08:06	09/03/24 23:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					08/09/24 08:06	09/03/24 23:10	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	0.399	U	0.346	0.348	1.00	0.539	pCi/L	08/09/24 08:14	08/20/24 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					08/09/24 08:14	08/20/24 12:14	1
Y Carrier	74.8		30 - 110					08/09/24 08:14	08/20/24 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.587		0.356	0.358	5.00	0.539	pCi/L		09/05/24 10:20	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Qualifiers

Rad

Qualifier	Qualifier Description
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: Will County CCR (RAD)

Job ID: 500-254554-2

Rad

Prep Batch: 674048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-1	MW-11	Total/NA	Water	PrecSep-21	
500-254554-2	MW-12	Total/NA	Water	PrecSep-21	
500-254554-3	2S/3S Duplicate	Total/NA	Water	PrecSep-21	
500-254554-4	MW-16	Total/NA	Water	PrecSep-21	
500-254554-5	MW-17	Total/NA	Water	PrecSep-21	
MB 160-674048/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-674048/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 674049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-1	MW-11	Total/NA	Water	PrecSep_0	
500-254554-2	MW-12	Total/NA	Water	PrecSep_0	
500-254554-3	2S/3S Duplicate	Total/NA	Water	PrecSep_0	
500-254554-4	MW-16	Total/NA	Water	PrecSep_0	
500-254554-5	MW-17	Total/NA	Water	PrecSep_0	
MB 160-674049/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-674049/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 674253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-6	MW-09	Total/NA	Water	PrecSep-21	
500-254554-7	MW-10	Total/NA	Water	PrecSep-21	
MB 160-674253/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-674253/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 674254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-6	MW-09	Total/NA	Water	PrecSep_0	
500-254554-7	MW-10	Total/NA	Water	PrecSep_0	
MB 160-674254/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-674254/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 674443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-8	MW-05	Total/NA	Water	PrecSep-21	
500-254554-9	MW-06	Total/NA	Water	PrecSep-21	
MB 160-674443/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-674443/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 674444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254554-8	MW-05	Total/NA	Water	PrecSep_0	
500-254554-9	MW-06	Total/NA	Water	PrecSep_0	
MB 160-674444/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-674444/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-674048/1-A
Matrix: Water
Analysis Batch: 677217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674048

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01755	U	0.0410	0.0411	1.00	0.0768	pCi/L	08/06/24 16:56	08/29/24 15:54	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		30 - 110					08/06/24 16:56	08/29/24 15:54	1

Lab Sample ID: LCS 160-674048/2-A
Matrix: Water
Analysis Batch: 677217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674048

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	9.436		0.982	1.00	0.0766	pCi/L	99	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	95.6		30 - 110							

Lab Sample ID: MB 160-674253/1-A
Matrix: Water
Analysis Batch: 677423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674253

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04662	U	0.0624	0.0626	1.00	0.105	pCi/L	08/08/24 07:47	08/30/24 17:51	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					08/08/24 07:47	08/30/24 17:51	1

Lab Sample ID: LCS 160-674253/2-A
Matrix: Water
Analysis Batch: 677423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674253

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	10.16		1.05	1.00	0.0926	pCi/L	106	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	94.1		30 - 110							

Lab Sample ID: MB 160-674443/1-A
Matrix: Water
Analysis Batch: 677928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674443

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01754	U	0.0406	0.0407	1.00	0.0931	pCi/L	08/09/24 08:06	09/03/24 20:26	1

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

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

Lab Sample ID: MB 160-674443/1-A
Matrix: Water
Analysis Batch: 677928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674443

	MB	MB									
Carrier	%Yield	Qualifier	Limits						Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110						08/09/24 08:06	09/03/24 20:26	1

Lab Sample ID: LCS 160-674443/2-A
Matrix: Water
Analysis Batch: 677928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674443

					Total						
Analyte		Spike	LCS	LCS	Uncert.	RL	MDC	Unit	%Rec	%Rec	
		Added	Result	Qual	(2σ+/-)					Limits	
Radium-226		9.58	7.362		0.785	1.00	0.0920	pCi/L	77	75 - 125	
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	105		30 - 110								

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-674049/1-A
Matrix: Water
Analysis Batch: 674941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674049

	MB	MB	Count	Total							
Analyte	Result	Qualifier	Uncert.	Uncert.	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
			(2σ+/-)	(2σ+/-)							
Radium-228	0.5494		0.365	0.369	1.00	0.543	pCi/L	08/06/24 17:02	08/14/24 12:57	1	
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac	
Ba Carrier	98.5		30 - 110					08/06/24 17:02	08/14/24 12:57	1	
Y Carrier	84.1		30 - 110					08/06/24 17:02	08/14/24 12:57	1	

Lab Sample ID: LCS 160-674049/2-A
Matrix: Water
Analysis Batch: 674941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674049

					Total						
Analyte		Spike	LCS	LCS	Uncert.	RL	MDC	Unit	%Rec	%Rec	
		Added	Result	Qual	(2σ+/-)					Limits	
Radium-228		8.68	10.40		1.43	1.00	0.649	pCi/L	120	75 - 125	
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	95.6		30 - 110								
Y Carrier	83.0		30 - 110								

Lab Sample ID: MB 160-674254/1-A
Matrix: Water
Analysis Batch: 675292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674254

	MB	MB	Count	Total							
Analyte	Result	Qualifier	Uncert.	Uncert.	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
			(2σ+/-)	(2σ+/-)							
Radium-228	0.3593	U	0.420	0.421	1.00	0.691	pCi/L	08/08/24 07:52	08/16/24 11:48	1	

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

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

Lab Sample ID: MB 160-674254/1-A
Matrix: Water
Analysis Batch: 675292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674254

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	94.8		30 - 110
Y Carrier	68.8		30 - 110

Prepared	Analyzed	Dil Fac
08/08/24 07:52	08/16/24 11:48	1
08/08/24 07:52	08/16/24 11:48	1

Lab Sample ID: LCS 160-674254/2-A
Matrix: Water
Analysis Batch: 675292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674254

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.60	9.886		1.31	1.00	0.502	pCi/L	115	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	94.1		30 - 110
Y Carrier	86.0		30 - 110

Lab Sample ID: MB 160-674444/1-A
Matrix: Water
Analysis Batch: 675777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674444

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6358		0.348	0.353	1.00	0.485	pCi/L	08/09/24 08:14	08/20/24 12:13	1

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	101		30 - 110
Y Carrier	74.4		30 - 110

Prepared	Analyzed	Dil Fac
08/09/24 08:14	08/20/24 12:13	1
08/09/24 08:14	08/20/24 12:13	1

Lab Sample ID: LCS 160-674444/2-A
Matrix: Water
Analysis Batch: 675777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674444

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.58	9.222		1.24	1.00	0.465	pCi/L	107	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	105		30 - 110
Y Carrier	78.1		30 - 110

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University Park, IL 60484
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[illegible]

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-254554-2

Login Number: 254554

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2,2.8,4.7,2.2,3.7,2.5
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 $<6\text{mm}$ (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: 500-254554-2

Login Number: 254554

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/06/24 09:01 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (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: 500-254554-2

Login Number: 254554

List Number: 3

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 08/07/24 12:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (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: 500-254554-2

Login Number: 254554

List Number: 4

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/08/24 11:40 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (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: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: MW-11

Date Collected: 08/01/24 11:47

Date Received: 08/02/24 11:05

Lab Sample ID: 500-254554-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674048	MLT	EET SL	08/06/24 16:56
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 15:56
Total/NA	Prep	PrecSep_0			674049	MLT	EET SL	08/06/24 17:02
Total/NA	Analysis	904.0		1	674941	SCB	EET SL	08/14/24 12:58
Total/NA	Analysis	Ra226_Ra228		1	677882	FLC	EET SL	09/05/24 10:20

Client Sample ID: MW-12

Date Collected: 08/01/24 14:54

Date Received: 08/02/24 11:05

Lab Sample ID: 500-254554-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674048	MLT	EET SL	08/06/24 16:56
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 15:56
Total/NA	Prep	PrecSep_0			674049	MLT	EET SL	08/06/24 17:02
Total/NA	Analysis	904.0		1	674941	SCB	EET SL	08/14/24 12:59
Total/NA	Analysis	Ra226_Ra228		1	677882	FLC	EET SL	09/05/24 10:20

Client Sample ID: 2S/3S Duplicate

Date Collected: 08/01/24 00:00

Date Received: 08/02/24 11:05

Lab Sample ID: 500-254554-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674048	MLT	EET SL	08/06/24 16:56
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 15:56
Total/NA	Prep	PrecSep_0			674049	MLT	EET SL	08/06/24 17:02
Total/NA	Analysis	904.0		1	674941	SCB	EET SL	08/14/24 12:59
Total/NA	Analysis	Ra226_Ra228		1	677882	FLC	EET SL	09/05/24 10:20

Client Sample ID: MW-16

Date Collected: 08/01/24 13:08

Date Received: 08/02/24 11:05

Lab Sample ID: 500-254554-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674048	MLT	EET SL	08/06/24 16:56
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 15:58
Total/NA	Prep	PrecSep_0			674049	MLT	EET SL	08/06/24 17:02
Total/NA	Analysis	904.0		1	674941	SCB	EET SL	08/14/24 12:59
Total/NA	Analysis	Ra226_Ra228		1	677882	FLC	EET SL	09/05/24 10:20

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: MW-17

Date Collected: 08/01/24 14:12

Date Received: 08/02/24 11:05

Lab Sample ID: 500-254554-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674048	MLT	EET SL	08/06/24 16:56
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 15:58
Total/NA	Prep	PrecSep_0			674049	MLT	EET SL	08/06/24 17:02
Total/NA	Analysis	904.0		1	674941	SCB	EET SL	08/14/24 12:59
Total/NA	Analysis	Ra226_Ra228		1	677882	FLC	EET SL	09/05/24 10:20

Client Sample ID: MW-09

Date Collected: 08/05/24 12:47

Date Received: 08/05/24 16:27

Lab Sample ID: 500-254554-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674253	MLT	EET SL	08/08/24 07:47
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 14:50
Total/NA	Prep	PrecSep_0			674254	MLT	EET SL	08/08/24 07:52
Total/NA	Analysis	904.0		1	675292	SWS	EET SL	08/16/24 11:50
Total/NA	Analysis	Ra226_Ra228		1	677882	FLC	EET SL	09/05/24 10:11

Client Sample ID: MW-10

Date Collected: 08/05/24 14:03

Date Received: 08/05/24 16:27

Lab Sample ID: 500-254554-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674253	MLT	EET SL	08/08/24 07:47
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 14:53
Total/NA	Prep	PrecSep_0			674254	MLT	EET SL	08/08/24 07:52
Total/NA	Analysis	904.0		1	675292	SWS	EET SL	08/16/24 11:50
Total/NA	Analysis	Ra226_Ra228		1	677882	FLC	EET SL	09/05/24 10:11

Client Sample ID: MW-05

Date Collected: 08/06/24 15:10

Date Received: 08/07/24 08:40

Lab Sample ID: 500-254554-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674443	BMW	EET SL	08/09/24 08:06
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 23:10
Total/NA	Prep	PrecSep_0			674444	BMW	EET SL	08/09/24 08:14
Total/NA	Analysis	904.0		1	675777	CMM	EET SL	08/20/24 12:14
Total/NA	Analysis	Ra226_Ra228		1	677882	FLC	EET SL	09/05/24 10:20

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-254554-2

Client Sample ID: MW-06
Date Collected: 08/06/24 10:24
Date Received: 08/07/24 08:40

Lab Sample ID: 500-254554-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674443	BMW	EET SL	08/09/24 08:06
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 23:10
Total/NA	Prep	PrecSep_0			674444	BMW	EET SL	08/09/24 08:14
Total/NA	Analysis	904.0		1	675777	CMM	EET SL	08/20/24 12:14
Total/NA	Analysis	Ra226_Ra228		1	677882	FLC	EET SL	09/05/24 10:20

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: Will County CCR (RAD)

Job ID: 500-254554-2

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)					
500-254554-1	MW-11	90.7					
500-254554-2	MW-12	91.6					
500-254554-3	2S/3S Duplicate	90.2					
500-254554-4	MW-16	89.4					
500-254554-5	MW-17	95.3					
500-254554-6	MW-09	85.7					
500-254554-7	MW-10	93.4					
500-254554-8	MW-05	86.2					
500-254554-9	MW-06	88.5					
LCS 160-674048/2-A	Lab Control Sample	95.6					
LCS 160-674253/2-A	Lab Control Sample	94.1					
LCS 160-674443/2-A	Lab Control Sample	105					
MB 160-674048/1-A	Method Blank	98.5					
MB 160-674253/1-A	Method Blank	94.8					
MB 160-674443/1-A	Method Blank	101					
Tracer/Carrier Legend							
Ba = Ba Carrier							

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba	Y				
		(30-110)	(30-110)				
500-254554-1	MW-11	90.7	77.8				
500-254554-2	MW-12	91.6	77.8				
500-254554-3	2S/3S Duplicate	90.2	81.5				
500-254554-4	MW-16	89.4	81.1				
500-254554-5	MW-17	95.3	79.6				
500-254554-6	MW-09	85.7	84.9				
500-254554-7	MW-10	93.4	86.4				
500-254554-8	MW-05	86.2	71.0				
500-254554-9	MW-06	88.5	74.8				
LCS 160-674049/2-A	Lab Control Sample	95.6	83.0				
LCS 160-674254/2-A	Lab Control Sample	94.1	86.0				
LCS 160-674444/2-A	Lab Control Sample	105	78.1				
MB 160-674049/1-A	Method Blank	98.5	84.1				
MB 160-674254/1-A	Method Blank	94.8	68.8				
MB 160-674444/1-A	Method Blank	101	74.4				
Tracer/Carrier Legend							
Ba = Ba Carrier							
Y = Y Carrier							

ANALYTICAL REPORT

PREPARED FOR

Attn: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 11/25/2024 5:11:53 PM

JOB DESCRIPTION

Will County CCR

JOB NUMBER

500-259529-1

Eurofins Chicago

Job Notes

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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: Will County CCR

Job ID: 500-259529-1

Job ID: 500-259529-1

Eurofins Chicago

Job Narrative 500-259529-1

Receipt

The samples were received on 11/4/2024 4:25 PM and 11/6/2024 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.9°C, 2.7°C, 3.9°C, 4.1°C and 5.4°C.

Metals

Method 6020B - Total Recoverable: The following samples were diluted to mitigate any potential carry-over from high concentrations of Boron: MW-09 (500-259529-1), MW-10 (500-259529-2), MW-11 (500-259529-3), MW-12 (500-259529-4), 2S/3S Duplicate (500-259529-5), MW-17 (500-259529-7), MW-05 (500-259529-8) and MW-06 (500-259529-9). 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

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: Will County CCR

Job ID: 500-259529-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 F C	Fluoride	SM	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: Will County CCR

Job ID: 500-259529-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-259529-1	MW-09	Water	11/04/24 09:40	11/04/24 16:25
500-259529-2	MW-10	Water	11/04/24 08:42	11/04/24 16:25
500-259529-3	MW-11	Water	11/01/24 14:35	11/04/24 16:25
500-259529-4	MW-12	Water	11/01/24 12:11	11/04/24 16:25
500-259529-5	2S/3S Duplicate	Water	11/01/24 00:00	11/04/24 16:25
500-259529-6	MW-16	Water	11/01/24 13:33	11/04/24 16:25
500-259529-7	MW-17	Water	11/01/24 11:04	11/04/24 16:25
500-259529-8	MW-05	Water	11/05/24 09:47	11/06/24 08:35
500-259529-9	MW-06	Water	11/05/24 08:51	11/06/24 08:35

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Client Sample ID: MW-09

Lab Sample ID: 500-259529-1

Date Collected: 11/04/24 09:40

Matrix: Water

Date Received: 11/04/24 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/22/24 06:45	11/22/24 17:50	1
Arsenic	0.010		0.0010		mg/L		11/22/24 06:45	11/22/24 17:50	1
Barium	0.037		0.0025		mg/L		11/22/24 06:45	11/22/24 17:50	1
Beryllium	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 17:50	1
Boron	2.2		0.25		mg/L		11/22/24 06:45	11/25/24 12:15	5
Cadmium	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 17:50	1
Calcium	40		0.20		mg/L		11/22/24 06:45	11/22/24 17:50	1
Chromium	<0.0050		0.0050		mg/L		11/22/24 06:45	11/22/24 17:50	1
Cobalt	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 17:50	1
Lead	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 17:50	1
Lithium	<0.010		0.010		mg/L		11/22/24 06:45	11/22/24 17:50	1
Molybdenum	0.080		0.0050		mg/L		11/22/24 06:45	11/22/24 17:50	1
Selenium	<0.0025		0.0025		mg/L		11/22/24 06:45	11/22/24 17:50	1
Thallium	<0.0020		0.0020		mg/L		11/22/24 06:45	11/22/24 17:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/19/24 11:00	11/19/24 18:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	220		10		mg/L			11/19/24 18:51	10
Sulfate (EPA 300.0)	230		10		mg/L			11/19/24 18:51	10
Total Dissolved Solids (SM 2540C)	810		10		mg/L			11/08/24 00:46	1
Fluoride (SM 4500 F C)	0.59		0.10		mg/L			11/20/24 19:06	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Client Sample ID: MW-10

Lab Sample ID: 500-259529-2

Date Collected: 11/04/24 08:42

Matrix: Water

Date Received: 11/04/24 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/22/24 06:45	11/22/24 17:53	1
Arsenic	0.013		0.0010		mg/L		11/22/24 06:45	11/22/24 17:53	1
Barium	0.098		0.0025		mg/L		11/22/24 06:45	11/22/24 17:53	1
Beryllium	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 17:53	1
Boron	3.3		0.25		mg/L		11/22/24 06:45	11/25/24 12:18	5
Cadmium	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 17:53	1
Calcium	120		0.20		mg/L		11/22/24 06:45	11/22/24 17:53	1
Chromium	<0.0050		0.0050		mg/L		11/22/24 06:45	11/22/24 17:53	1
Cobalt	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 17:53	1
Lead	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 17:53	1
Lithium	0.017		0.010		mg/L		11/22/24 06:45	11/22/24 17:53	1
Molybdenum	0.11		0.0050		mg/L		11/22/24 06:45	11/22/24 17:53	1
Selenium	<0.0025		0.0025		mg/L		11/22/24 06:45	11/22/24 17:53	1
Thallium	<0.0020		0.0020		mg/L		11/22/24 06:45	11/22/24 17:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/19/24 11:00	11/19/24 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	130		10		mg/L			11/19/24 19:07	10
Sulfate (EPA 300.0)	260		10		mg/L			11/19/24 19:07	10
Total Dissolved Solids (SM 2540C)	910		10		mg/L			11/08/24 00:49	1
Fluoride (SM 4500 F C)	0.84		0.10		mg/L			11/20/24 19:10	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Client Sample ID: MW-11

Lab Sample ID: 500-259529-3

Date Collected: 11/01/24 14:35

Matrix: Water

Date Received: 11/04/24 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/22/24 06:45	11/22/24 17:55	1
Arsenic	0.0073		0.0010		mg/L		11/22/24 06:45	11/22/24 17:55	1
Barium	0.16		0.0025		mg/L		11/22/24 06:45	11/22/24 17:55	1
Beryllium	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 17:55	1
Boron	3.2		0.25		mg/L		11/22/24 06:45	11/25/24 12:25	5
Cadmium	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 17:55	1
Calcium	110		0.20		mg/L		11/22/24 06:45	11/22/24 17:55	1
Chromium	<0.0050		0.0050		mg/L		11/22/24 06:45	11/22/24 17:55	1
Cobalt	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 17:55	1
Lead	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 17:55	1
Lithium	<0.010		0.010		mg/L		11/22/24 06:45	11/22/24 17:55	1
Molybdenum	0.042		0.0050		mg/L		11/22/24 06:45	11/22/24 17:55	1
Selenium	<0.0025		0.0025		mg/L		11/22/24 06:45	11/22/24 17:55	1
Thallium	<0.0020		0.0020		mg/L		11/22/24 06:45	11/22/24 17:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/19/24 11:00	11/19/24 18:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	130		5.0		mg/L			11/19/24 19:22	5
Sulfate (EPA 300.0)	71		5.0		mg/L			11/19/24 19:22	5
Total Dissolved Solids (SM 2540C)	760		10		mg/L			11/07/24 02:54	1
Fluoride (SM 4500 F C)	0.55		0.10		mg/L			11/20/24 20:15	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Client Sample ID: MW-12

Lab Sample ID: 500-259529-4

Date Collected: 11/01/24 12:11

Matrix: Water

Date Received: 11/04/24 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/22/24 06:45	11/22/24 17:57	1
Arsenic	0.0012		0.0010		mg/L		11/22/24 06:45	11/22/24 17:57	1
Barium	0.16		0.0025		mg/L		11/22/24 06:45	11/22/24 17:57	1
Beryllium	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 17:57	1
Boron	2.5		0.25		mg/L		11/22/24 06:45	11/25/24 12:27	5
Cadmium	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 17:57	1
Calcium	190		0.20		mg/L		11/22/24 06:45	11/22/24 17:57	1
Chromium	<0.0050		0.0050		mg/L		11/22/24 06:45	11/22/24 17:57	1
Cobalt	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 17:57	1
Lead	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 17:57	1
Lithium	0.017		0.010		mg/L		11/22/24 06:45	11/22/24 17:57	1
Molybdenum	0.028		0.0050		mg/L		11/22/24 06:45	11/22/24 17:57	1
Selenium	0.0068		0.0025		mg/L		11/22/24 06:45	11/22/24 17:57	1
Thallium	<0.0020		0.0020		mg/L		11/22/24 06:45	11/22/24 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		11/19/24 11:00	11/19/24 18:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	210		10		mg/L			11/19/24 20:09	10
Sulfate (EPA 300.0)	200		10		mg/L			11/19/24 20:09	10
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			11/07/24 02:56	1
Fluoride (SM 4500 F C)	0.49		0.10		mg/L			11/20/24 20:20	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-259529-5

Date Collected: 11/01/24 00:00

Matrix: Water

Date Received: 11/04/24 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/22/24 06:45	11/22/24 18:00	1
Arsenic	0.0013		0.0010		mg/L		11/22/24 06:45	11/22/24 18:00	1
Barium	0.16		0.0025		mg/L		11/22/24 06:45	11/22/24 18:00	1
Beryllium	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 18:00	1
Boron	2.5		0.25		mg/L		11/22/24 06:45	11/25/24 12:29	5
Cadmium	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 18:00	1
Calcium	190		0.20		mg/L		11/22/24 06:45	11/22/24 18:00	1
Chromium	<0.0050		0.0050		mg/L		11/22/24 06:45	11/22/24 18:00	1
Cobalt	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 18:00	1
Lead	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 18:00	1
Lithium	0.017		0.010		mg/L		11/22/24 06:45	11/22/24 18:00	1
Molybdenum	0.028		0.0050		mg/L		11/22/24 06:45	11/22/24 18:00	1
Selenium	0.0080		0.0025		mg/L		11/22/24 06:45	11/22/24 18:00	1
Thallium	<0.0020		0.0020		mg/L		11/22/24 06:45	11/22/24 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		11/19/24 11:00	11/19/24 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	210		10		mg/L			11/19/24 20:24	10
Sulfate (EPA 300.0)	200		10		mg/L			11/19/24 20:24	10
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			11/07/24 02:59	1
Fluoride (SM 4500 F C)	0.49		0.10		mg/L			11/20/24 20:25	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Client Sample ID: MW-16

Lab Sample ID: 500-259529-6

Date Collected: 11/01/24 13:33

Matrix: Water

Date Received: 11/04/24 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/22/24 06:45	11/22/24 18:02	1
Arsenic	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 18:02	1
Barium	0.076		0.0025		mg/L		11/22/24 06:45	11/22/24 18:02	1
Beryllium	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 18:02	1
Boron	0.80		0.050		mg/L		11/22/24 06:45	11/25/24 12:32	1
Cadmium	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 18:02	1
Calcium	120		0.20		mg/L		11/22/24 06:45	11/22/24 18:02	1
Chromium	<0.0050		0.0050		mg/L		11/22/24 06:45	11/22/24 18:02	1
Cobalt	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 18:02	1
Lead	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 18:02	1
Lithium	0.015		0.010		mg/L		11/22/24 06:45	11/22/24 18:02	1
Molybdenum	0.022		0.0050		mg/L		11/22/24 06:45	11/22/24 18:02	1
Selenium	<0.0025		0.0025		mg/L		11/22/24 06:45	11/22/24 18:02	1
Thallium	<0.0020		0.0020		mg/L		11/22/24 06:45	11/22/24 18:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/19/24 11:00	11/19/24 18:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	140		10		mg/L			11/19/24 20:40	10
Sulfate (EPA 300.0)	120		10		mg/L			11/19/24 20:40	10
Total Dissolved Solids (SM 2540C)	950		10		mg/L			11/07/24 03:01	1
Fluoride (SM 4500 F C)	0.34		0.10		mg/L			11/20/24 20:41	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Client Sample ID: MW-17

Lab Sample ID: 500-259529-7

Date Collected: 11/01/24 11:04

Matrix: Water

Date Received: 11/04/24 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/22/24 06:45	11/22/24 18:09	1
Arsenic	0.0067		0.0010		mg/L		11/22/24 06:45	11/22/24 18:09	1
Barium	0.055		0.0025		mg/L		11/22/24 06:45	11/22/24 18:09	1
Beryllium	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 18:09	1
Boron	3.0		0.25		mg/L		11/22/24 06:45	11/25/24 12:34	5
Cadmium	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 18:09	1
Calcium	65		0.20		mg/L		11/22/24 06:45	11/22/24 18:09	1
Chromium	<0.0050		0.0050		mg/L		11/22/24 06:45	11/22/24 18:09	1
Cobalt	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 18:09	1
Lead	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 18:09	1
Lithium	0.019		0.010		mg/L		11/22/24 06:45	11/22/24 18:09	1
Molybdenum	0.13		0.0050		mg/L		11/22/24 06:45	11/22/24 18:09	1
Selenium	<0.0025		0.0025		mg/L		11/22/24 06:45	11/22/24 18:09	1
Thallium	<0.0020		0.0020		mg/L		11/22/24 06:45	11/22/24 18:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/19/24 11:00	11/19/24 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	120		10		mg/L			11/19/24 20:56	10
Sulfate (EPA 300.0)	330		10		mg/L			11/19/24 20:56	10
Total Dissolved Solids (SM 2540C)	850		10		mg/L			11/07/24 03:04	1
Fluoride (SM 4500 F C)	0.76		0.10		mg/L			11/20/24 20:47	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Client Sample ID: MW-05

Lab Sample ID: 500-259529-8

Date Collected: 11/05/24 09:47

Matrix: Water

Date Received: 11/06/24 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/22/24 06:45	11/22/24 18:12	1
Arsenic	0.0020		0.0010		mg/L		11/22/24 06:45	11/22/24 18:12	1
Barium	0.056		0.0025		mg/L		11/22/24 06:45	11/22/24 18:12	1
Beryllium	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 18:12	1
Boron	5.8		0.25		mg/L		11/22/24 06:45	11/25/24 12:37	5
Cadmium	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 18:12	1
Calcium	110		0.20		mg/L		11/22/24 06:45	11/22/24 18:12	1
Chromium	<0.0050		0.0050		mg/L		11/22/24 06:45	11/22/24 18:12	1
Cobalt	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 18:12	1
Lead	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 18:12	1
Lithium	0.015		0.010		mg/L		11/22/24 06:45	11/22/24 18:12	1
Molybdenum	0.067		0.0050		mg/L		11/22/24 06:45	11/22/24 18:12	1
Selenium	<0.0025		0.0025		mg/L		11/22/24 06:45	11/22/24 18:12	1
Thallium	<0.0020		0.0020		mg/L		11/22/24 06:45	11/22/24 18:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/20/24 09:30	11/20/24 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	30		20		mg/L			11/19/24 21:11	20
Sulfate (EPA 300.0)	410		20		mg/L			11/19/24 21:11	20
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			11/11/24 00:50	1
Fluoride (SM 4500 F C)	0.58		0.10		mg/L			11/20/24 20:52	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Client Sample ID: MW-06

Lab Sample ID: 500-259529-9

Date Collected: 11/05/24 08:51

Matrix: Water

Date Received: 11/06/24 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/22/24 06:45	11/22/24 18:26	1
Arsenic	0.0019		0.0010		mg/L		11/22/24 06:45	11/22/24 18:26	1
Barium	0.10		0.0025		mg/L		11/22/24 06:45	11/22/24 18:26	1
Beryllium	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 18:26	1
Boron	2.8		0.25		mg/L		11/22/24 06:45	11/25/24 12:39	5
Cadmium	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 18:26	1
Calcium	120		0.20		mg/L		11/22/24 06:45	11/22/24 18:26	1
Chromium	<0.0050		0.0050		mg/L		11/22/24 06:45	11/22/24 18:26	1
Cobalt	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 18:26	1
Lead	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 18:26	1
Lithium	0.017		0.010		mg/L		11/22/24 06:45	11/22/24 18:26	1
Molybdenum	0.020		0.0050		mg/L		11/22/24 06:45	11/22/24 18:26	1
Selenium	<0.0025		0.0025		mg/L		11/22/24 06:45	11/22/24 18:26	1
Thallium	<0.0020		0.0020		mg/L		11/22/24 06:45	11/22/24 18:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/20/24 09:30	11/20/24 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	11		10		mg/L			11/19/24 21:27	10
Sulfate (EPA 300.0)	160		10		mg/L			11/19/24 21:27	10
Total Dissolved Solids (SM 2540C)	720		10		mg/L			11/11/24 00:52	1
Fluoride (SM 4500 F C)	0.42		0.10		mg/L			11/20/24 20:59	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

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: Will County CCR

Job ID: 500-259529-1

Metals

Prep Batch: 796023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-1	MW-09	Total/NA	Water	7470A	
500-259529-2	MW-10	Total/NA	Water	7470A	
MB 500-796023/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-796023/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 796024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-3	MW-11	Total/NA	Water	7470A	
500-259529-4	MW-12	Total/NA	Water	7470A	
500-259529-5	2S/3S Duplicate	Total/NA	Water	7470A	
500-259529-6	MW-16	Total/NA	Water	7470A	
500-259529-7	MW-17	Total/NA	Water	7470A	
MB 500-796024/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-796024/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-259529-3 MS	MW-11	Total/NA	Water	7470A	
500-259529-3 MSD	MW-11	Total/NA	Water	7470A	
500-259529-3 DU	MW-11	Total/NA	Water	7470A	

Prep Batch: 796123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-8	MW-05	Total/NA	Water	7470A	
500-259529-9	MW-06	Total/NA	Water	7470A	
MB 500-796123/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-796123/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 796189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-1	MW-09	Total/NA	Water	7470A	796023
500-259529-2	MW-10	Total/NA	Water	7470A	796023
500-259529-3	MW-11	Total/NA	Water	7470A	796024
500-259529-4	MW-12	Total/NA	Water	7470A	796024
500-259529-5	2S/3S Duplicate	Total/NA	Water	7470A	796024
500-259529-6	MW-16	Total/NA	Water	7470A	796024
500-259529-7	MW-17	Total/NA	Water	7470A	796024
MB 500-796023/12-A	Method Blank	Total/NA	Water	7470A	796023
MB 500-796024/12-A	Method Blank	Total/NA	Water	7470A	796024
LCS 500-796023/13-A	Lab Control Sample	Total/NA	Water	7470A	796023
LCS 500-796024/13-A	Lab Control Sample	Total/NA	Water	7470A	796024
500-259529-3 MS	MW-11	Total/NA	Water	7470A	796024
500-259529-3 MSD	MW-11	Total/NA	Water	7470A	796024
500-259529-3 DU	MW-11	Total/NA	Water	7470A	796024

Analysis Batch: 796326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-8	MW-05	Total/NA	Water	7470A	796123
500-259529-9	MW-06	Total/NA	Water	7470A	796123
MB 500-796123/12-A	Method Blank	Total/NA	Water	7470A	796123
LCS 500-796123/13-A	Lab Control Sample	Total/NA	Water	7470A	796123

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Metals

Prep Batch: 796509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-1	MW-09	Total Recoverable	Water	3005A	
500-259529-2	MW-10	Total Recoverable	Water	3005A	
500-259529-3	MW-11	Total Recoverable	Water	3005A	
500-259529-4	MW-12	Total Recoverable	Water	3005A	
500-259529-5	2S/3S Duplicate	Total Recoverable	Water	3005A	
500-259529-6	MW-16	Total Recoverable	Water	3005A	
500-259529-7	MW-17	Total Recoverable	Water	3005A	
500-259529-8	MW-05	Total Recoverable	Water	3005A	
500-259529-9	MW-06	Total Recoverable	Water	3005A	
MB 500-796509/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-796509/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 796821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-1	MW-09	Total Recoverable	Water	6020B	796509
500-259529-2	MW-10	Total Recoverable	Water	6020B	796509
500-259529-3	MW-11	Total Recoverable	Water	6020B	796509
500-259529-4	MW-12	Total Recoverable	Water	6020B	796509
500-259529-5	2S/3S Duplicate	Total Recoverable	Water	6020B	796509
500-259529-6	MW-16	Total Recoverable	Water	6020B	796509
500-259529-7	MW-17	Total Recoverable	Water	6020B	796509
500-259529-8	MW-05	Total Recoverable	Water	6020B	796509
500-259529-9	MW-06	Total Recoverable	Water	6020B	796509
MB 500-796509/1-A	Method Blank	Total Recoverable	Water	6020B	796509
LCS 500-796509/2-A	Lab Control Sample	Total Recoverable	Water	6020B	796509

Analysis Batch: 796945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-1	MW-09	Total Recoverable	Water	6020B	796509
500-259529-2	MW-10	Total Recoverable	Water	6020B	796509
500-259529-3	MW-11	Total Recoverable	Water	6020B	796509
500-259529-4	MW-12	Total Recoverable	Water	6020B	796509
500-259529-5	2S/3S Duplicate	Total Recoverable	Water	6020B	796509
500-259529-6	MW-16	Total Recoverable	Water	6020B	796509
500-259529-7	MW-17	Total Recoverable	Water	6020B	796509
500-259529-8	MW-05	Total Recoverable	Water	6020B	796509
500-259529-9	MW-06	Total Recoverable	Water	6020B	796509

General Chemistry

Analysis Batch: 794246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-3	MW-11	Total/NA	Water	SM 2540C	
500-259529-4	MW-12	Total/NA	Water	SM 2540C	
500-259529-5	2S/3S Duplicate	Total/NA	Water	SM 2540C	
500-259529-6	MW-16	Total/NA	Water	SM 2540C	
500-259529-7	MW-17	Total/NA	Water	SM 2540C	
MB 500-794246/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-794246/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

General Chemistry

Analysis Batch: 794440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-1	MW-09	Total/NA	Water	SM 2540C	
500-259529-2	MW-10	Total/NA	Water	SM 2540C	
MB 500-794440/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-794440/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 794697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-8	MW-05	Total/NA	Water	SM 2540C	
500-259529-9	MW-06	Total/NA	Water	SM 2540C	
MB 500-794697/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-794697/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 796079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-1	MW-09	Total/NA	Water	300.0	
500-259529-2	MW-10	Total/NA	Water	300.0	
500-259529-3	MW-11	Total/NA	Water	300.0	
500-259529-4	MW-12	Total/NA	Water	300.0	
500-259529-5	2S/3S Duplicate	Total/NA	Water	300.0	
500-259529-6	MW-16	Total/NA	Water	300.0	
500-259529-7	MW-17	Total/NA	Water	300.0	
500-259529-8	MW-05	Total/NA	Water	300.0	
500-259529-9	MW-06	Total/NA	Water	300.0	
MB 500-796079/3	Method Blank	Total/NA	Water	300.0	
LCS 500-796079/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 796396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-1	MW-09	Total/NA	Water	SM 4500 F C	
500-259529-2	MW-10	Total/NA	Water	SM 4500 F C	
500-259529-3	MW-11	Total/NA	Water	SM 4500 F C	
500-259529-4	MW-12	Total/NA	Water	SM 4500 F C	
500-259529-5	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	
500-259529-6	MW-16	Total/NA	Water	SM 4500 F C	
500-259529-7	MW-17	Total/NA	Water	SM 4500 F C	
500-259529-8	MW-05	Total/NA	Water	SM 4500 F C	
500-259529-9	MW-06	Total/NA	Water	SM 4500 F C	
MB 500-796396/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-796396/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-796509/1-A
Matrix: Water
Analysis Batch: 796821

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 796509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/22/24 06:45	11/22/24 16:55	1
Arsenic	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 16:55	1
Barium	<0.0025		0.0025		mg/L		11/22/24 06:45	11/22/24 16:55	1
Beryllium	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 16:55	1
Boron	<0.050		0.050		mg/L		11/22/24 06:45	11/22/24 16:55	1
Cadmium	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 16:55	1
Calcium	<0.20		0.20		mg/L		11/22/24 06:45	11/22/24 16:55	1
Chromium	<0.0050		0.0050		mg/L		11/22/24 06:45	11/22/24 16:55	1
Cobalt	<0.0010		0.0010		mg/L		11/22/24 06:45	11/22/24 16:55	1
Lead	<0.00050		0.00050		mg/L		11/22/24 06:45	11/22/24 16:55	1
Lithium	<0.010		0.010		mg/L		11/22/24 06:45	11/22/24 16:55	1
Molybdenum	<0.0050		0.0050		mg/L		11/22/24 06:45	11/22/24 16:55	1
Selenium	<0.0025		0.0025		mg/L		11/22/24 06:45	11/22/24 16:55	1
Thallium	<0.0020		0.0020		mg/L		11/22/24 06:45	11/22/24 16:55	1

Lab Sample ID: LCS 500-796509/2-A
Matrix: Water
Analysis Batch: 796821

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 796509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.530		mg/L		106	80 - 120
Arsenic	0.100	0.0990		mg/L		99	80 - 120
Barium	0.500	0.507		mg/L		101	80 - 120
Beryllium	0.0500	0.0483		mg/L		97	80 - 120
Boron	1.00	0.953		mg/L		95	80 - 120
Cadmium	0.0500	0.0509		mg/L		102	80 - 120
Calcium	10.0	8.50		mg/L		85	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.521		mg/L		104	80 - 120
Lead	0.100	0.0983		mg/L		98	80 - 120
Lithium	0.100	0.0962		mg/L		96	80 - 120
Molybdenum	1.00	0.977		mg/L		98	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.0996		mg/L		100	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-796023/12-A
Matrix: Water
Analysis Batch: 796189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 796023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/19/24 11:00	11/19/24 17:10	1

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

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

Lab Sample ID: LCS 500-796023/13-A
Matrix: Water
Analysis Batch: 796189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 796023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00216		mg/L		108	80 - 120

Lab Sample ID: MB 500-796024/12-A
Matrix: Water
Analysis Batch: 796189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 796024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/19/24 11:00	11/19/24 18:06	1

Lab Sample ID: LCS 500-796024/13-A
Matrix: Water
Analysis Batch: 796189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 796024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00213		mg/L		107	80 - 120

Lab Sample ID: 500-259529-3 MS
Matrix: Water
Analysis Batch: 796189

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 796024

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.000999	0.00116		mg/L		97	75 - 125

Lab Sample ID: 500-259529-3 MSD
Matrix: Water
Analysis Batch: 796189

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 796024

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.000999	0.00109		mg/L		90	75 - 125	6	20

Lab Sample ID: 500-259529-3 DU
Matrix: Water
Analysis Batch: 796189

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 796024

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 500-796123/12-A
Matrix: Water
Analysis Batch: 796326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 796123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/20/24 09:30	11/20/24 14:40	1

Lab Sample ID: LCS 500-796123/13-A
Matrix: Water
Analysis Batch: 796326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 796123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00203		mg/L		102	80 - 120

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-796079/3

Matrix: Water

Analysis Batch: 796079

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			11/19/24 17:02	1
Sulfate	<1.0		1.0		mg/L			11/19/24 17:02	1

Lab Sample ID: LCS 500-796079/4

Matrix: Water

Analysis Batch: 796079

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	90 - 110
Sulfate	20.0	20.8		mg/L		104	90 - 110

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

Lab Sample ID: MB 500-794246/1

Matrix: Water

Analysis Batch: 794246

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			11/07/24 02:05	1

Lab Sample ID: LCS 500-794246/2

Matrix: Water

Analysis Batch: 794246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	258		mg/L		103	80 - 120

Lab Sample ID: MB 500-794440/1

Matrix: Water

Analysis Batch: 794440

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			11/07/24 23:50	1

Lab Sample ID: LCS 500-794440/2

Matrix: Water

Analysis Batch: 794440

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: MB 500-794697/1

Matrix: Water

Analysis Batch: 794697

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			11/11/24 00:09	1

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

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

Lab Sample ID: LCS 500-794697/2
Matrix: Water
Analysis Batch: 794697

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	256		mg/L		102	80 - 120

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-796396/31
Matrix: Water
Analysis Batch: 796396

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			11/20/24 18:53	1

Lab Sample ID: LCS 500-796396/32
Matrix: Water
Analysis Batch: 796396

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.3		mg/L		103	90 - 119

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		Sampler: <u>Tim Stohner</u>		Lab PM: <u>Mockler, Diana J</u>		Carrier Tracking No(s)		COC No: <u>500-129758-48726 1</u>			
Client Contact: <u>Mr Tim Stohner</u>		Phone: <u>830 290 6850</u>		E-Mail: <u>Diana.Mockler@et.eurofinsus.com</u>		State of Origin:		Page: <u>Page 1 of 1</u>			
Company: <u>KPRG and Associates, Inc.</u>		PWSID:		Analysis Requested						Job #: <u>500-259529</u>	
Address: <u>414 Plaza Drive Suite 106</u>		Due Date Requested:		Total Number of Containers						Preservation Codes: D HNO3 N None	
City: <u>Westmont</u>		TAT Requested (days):									
State Zip: <u>IL, 60559</u>		Compliance Project. ☐ Yes ☐ No									
Phone: <u>500-259529 COC</u>		PO #: <u>4502116506</u>									
Email: <u>tims@kprginc.com</u>		WO #:		Field Filtered Sample (Yes or No)						Other:	
Project Name: <u>Will County 2S/3S Event Desc: Quarterly GW Monitoring CCR</u>		Project #: <u>50011609</u>		Perform MS/MSD (Yes or No)							
Site: <u>Illinois</u>		SSOW#:		903.0, 904.0							
				6010C, 6020A, 7470A							
				2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:	
						Preservation Code:					
MW-05		—		—		—		Water			
MW-06		—		—		—		Water			
MW-09		11-4-24		09:40		G		Water		5	
MW-10		11-4-24		08:42		G		Water		5	
MW-11		11-1-24		14:35		G		Water		5	
MW-12		11-1-24		12:11		G		Water		5	
2S/3S Duplicate		11-1-24		—		G		Water		5	
MW-16		11-1-24		13:33		G		Water		5	
MW-17		11-1-24		11:04		G		Water		5	

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological				☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested I, II, III, IV, Other (specify)				Special Instructions/QC Requirements			
Empty Kit Relinquished by:		Date		Time		Method of Shipment:	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>11-4-24 16:25</u>		Company: <u>KPRK</u>		Received by: <u>[Signature]</u> Date/Time: <u>11/4/24 16:25</u> Company: <u>ERTH</u>	
Relinquished by:		Date/Time:		Company:		Received by: Date/Time: Company:	
Relinquished by:		Date/Time:		Company:		Received by: Date/Time: Company:	
Custody Seals Intact. ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>20-21.4, 40-23.9, 55-75.24</u>			

eurofins | Environment Testing

11/25/2024

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-259529-1

Login Number: 259529

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9,3.9,5.4,2.7,4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: Will County CCR

Job ID: 500-259529-1

Client Sample ID: MW-09

Date Collected: 11/04/24 09:40

Date Received: 11/04/24 16:25

Lab Sample ID: 500-259529-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		1	796821	RN	EET CHI	11/22/24 17:50
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		5	796945	RN	EET CHI	11/25/24 12:15
Total/NA	Prep	7470A			796023	S1Z	EET CHI	11/19/24 11:00 - 11/19/24 13:00 ¹
Total/NA	Analysis	7470A		1	796189	S1Z	EET CHI	11/19/24 18:02
Total/NA	Analysis	300.0		10	796079	MM	EET CHI	11/19/24 18:51
Total/NA	Analysis	SM 2540C		1	794440	CLB	EET CHI	11/08/24 00:46
Total/NA	Analysis	SM 4500 F C		1	796396	SO	EET CHI	11/20/24 19:06

Client Sample ID: MW-10

Date Collected: 11/04/24 08:42

Date Received: 11/04/24 16:25

Lab Sample ID: 500-259529-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		1	796821	RN	EET CHI	11/22/24 17:53
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		5	796945	RN	EET CHI	11/25/24 12:18
Total/NA	Prep	7470A			796023	S1Z	EET CHI	11/19/24 11:00 - 11/19/24 13:00 ¹
Total/NA	Analysis	7470A		1	796189	S1Z	EET CHI	11/19/24 18:04
Total/NA	Analysis	300.0		10	796079	MM	EET CHI	11/19/24 19:07
Total/NA	Analysis	SM 2540C		1	794440	CLB	EET CHI	11/08/24 00:49
Total/NA	Analysis	SM 4500 F C		1	796396	SO	EET CHI	11/20/24 19:10

Client Sample ID: MW-11

Date Collected: 11/01/24 14:35

Date Received: 11/04/24 16:25

Lab Sample ID: 500-259529-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		1	796821	RN	EET CHI	11/22/24 17:55
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		5	796945	RN	EET CHI	11/25/24 12:25
Total/NA	Prep	7470A			796024	S1Z	EET CHI	11/19/24 11:00 - 11/19/24 13:00 ¹
Total/NA	Analysis	7470A		1	796189	S1Z	EET CHI	11/19/24 18:09
Total/NA	Analysis	300.0		5	796079	MM	EET CHI	11/19/24 19:22
Total/NA	Analysis	SM 2540C		1	794246	CLB	EET CHI	11/07/24 02:54
Total/NA	Analysis	SM 4500 F C		1	796396	SO	EET CHI	11/20/24 20:15

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Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Client Sample ID: MW-12

Date Collected: 11/01/24 12:11

Date Received: 11/04/24 16:25

Lab Sample ID: 500-259529-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		1	796821	RN	EET CHI	11/22/24 17:57
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		5	796945	RN	EET CHI	11/25/24 12:27
Total/NA	Prep	7470A			796024	S1Z	EET CHI	11/19/24 11:00 - 11/19/24 13:00 ¹
Total/NA	Analysis	7470A		1	796189	S1Z	EET CHI	11/19/24 18:21
Total/NA	Analysis	300.0		10	796079	MM	EET CHI	11/19/24 20:09
Total/NA	Analysis	SM 2540C		1	794246	CLB	EET CHI	11/07/24 02:56
Total/NA	Analysis	SM 4500 F C		1	796396	SO	EET CHI	11/20/24 20:20

Client Sample ID: 2S/3S Duplicate

Date Collected: 11/01/24 00:00

Date Received: 11/04/24 16:25

Lab Sample ID: 500-259529-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		1	796821	RN	EET CHI	11/22/24 18:00
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		5	796945	RN	EET CHI	11/25/24 12:29
Total/NA	Prep	7470A			796024	S1Z	EET CHI	11/19/24 11:00 - 11/19/24 13:00 ¹
Total/NA	Analysis	7470A		1	796189	S1Z	EET CHI	11/19/24 18:23
Total/NA	Analysis	300.0		10	796079	MM	EET CHI	11/19/24 20:24
Total/NA	Analysis	SM 2540C		1	794246	CLB	EET CHI	11/07/24 02:59
Total/NA	Analysis	SM 4500 F C		1	796396	SO	EET CHI	11/20/24 20:25

Client Sample ID: MW-16

Date Collected: 11/01/24 13:33

Date Received: 11/04/24 16:25

Lab Sample ID: 500-259529-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		1	796821	RN	EET CHI	11/22/24 18:02
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		1	796945	RN	EET CHI	11/25/24 12:32
Total/NA	Prep	7470A			796024	S1Z	EET CHI	11/19/24 11:00 - 11/19/24 13:00 ¹
Total/NA	Analysis	7470A		1	796189	S1Z	EET CHI	11/19/24 18:24
Total/NA	Analysis	300.0		10	796079	MM	EET CHI	11/19/24 20:40
Total/NA	Analysis	SM 2540C		1	794246	CLB	EET CHI	11/07/24 03:01
Total/NA	Analysis	SM 4500 F C		1	796396	SO	EET CHI	11/20/24 20:41

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Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-259529-1

Client Sample ID: MW-17

Date Collected: 11/01/24 11:04

Date Received: 11/04/24 16:25

Lab Sample ID: 500-259529-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		1	796821	RN	EET CHI	11/22/24 18:09
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		5	796945	RN	EET CHI	11/25/24 12:34
Total/NA	Prep	7470A			796024	S1Z	EET CHI	11/19/24 11:00 - 11/19/24 13:00 ¹
Total/NA	Analysis	7470A		1	796189	S1Z	EET CHI	11/19/24 18:26
Total/NA	Analysis	300.0		10	796079	MM	EET CHI	11/19/24 20:56
Total/NA	Analysis	SM 2540C		1	794246	CLB	EET CHI	11/07/24 03:04
Total/NA	Analysis	SM 4500 F C		1	796396	SO	EET CHI	11/20/24 20:47

Client Sample ID: MW-05

Date Collected: 11/05/24 09:47

Date Received: 11/06/24 08:35

Lab Sample ID: 500-259529-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		1	796821	RN	EET CHI	11/22/24 18:12
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		5	796945	RN	EET CHI	11/25/24 12:37
Total/NA	Prep	7470A			796123	S1Z	EET CHI	11/20/24 09:30 - 11/20/24 11:30 ¹
Total/NA	Analysis	7470A		1	796326	S1Z	EET CHI	11/20/24 14:44
Total/NA	Analysis	300.0		20	796079	MM	EET CHI	11/19/24 21:11
Total/NA	Analysis	SM 2540C		1	794697	CLB	EET CHI	11/11/24 00:50
Total/NA	Analysis	SM 4500 F C		1	796396	SO	EET CHI	11/20/24 20:52

Client Sample ID: MW-06

Date Collected: 11/05/24 08:51

Date Received: 11/06/24 08:35

Lab Sample ID: 500-259529-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		1	796821	RN	EET CHI	11/22/24 18:26
Total Recoverable	Prep	3005A			796509	DAJ	EET CHI	11/22/24 06:45 - 11/22/24 12:45 ¹
Total Recoverable	Analysis	6020B		5	796945	RN	EET CHI	11/25/24 12:39
Total/NA	Prep	7470A			796123	S1Z	EET CHI	11/20/24 09:30 - 11/20/24 11:30 ¹
Total/NA	Analysis	7470A		1	796326	S1Z	EET CHI	11/20/24 14:46
Total/NA	Analysis	300.0		10	796079	MM	EET CHI	11/19/24 21:27
Total/NA	Analysis	SM 2540C		1	794697	CLB	EET CHI	11/11/24 00:52
Total/NA	Analysis	SM 4500 F C		1	796396	SO	EET CHI	11/20/24 20:59

¹ 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

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ANALYTICAL REPORT

PREPARED FOR

Attn: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 12/10/2024 9:56:16 AM

JOB DESCRIPTION

Will County CCR (RAD)

JOB NUMBER

500-259529-2

Eurofins Chicago

Job Notes

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Authorization



Generated
12/10/2024 9:56:16 AM

Authorized for release by
Diana Mockler, Project Manager I
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Case Narrative

Client: Midwest Generation EME LLC
Project: Will County CCR (RAD)

Job ID: 500-259529-2

Job ID: 500-259529-2

Eurofins Chicago

Job Narrative 500-259529-2

Receipt

The samples were received on 11/4/2024 4:25 PM and 11/6/2024 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.9°C, 2.7°C, 3.9°C, 4.1°C and 5.4°C.

Gas Flow Proportional Counter

Method 904.0: Radium 228 batch 687303

The detection goal was not met for the following sample due to the reduced sample volume attributed to the presence of matrix interferences: MW-17 (500-259529-7). Analytical results are reported with the detection limit achieved.

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

Rad

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: Will County CCR (RAD)

Job ID: 500-259529-2

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: Will County CCR (RAD)

Job ID: 500-259529-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-259529-1	MW-09	Water	11/04/24 09:40	11/04/24 16:25
500-259529-2	MW-10	Water	11/04/24 08:42	11/04/24 16:25
500-259529-3	MW-11	Water	11/01/24 14:35	11/04/24 16:25
500-259529-4	MW-12	Water	11/01/24 12:11	11/04/24 16:25
500-259529-5	2S/3S Duplicate	Water	11/01/24 00:00	11/04/24 16:25
500-259529-6	MW-16	Water	11/01/24 13:33	11/04/24 16:25
500-259529-7	MW-17	Water	11/01/24 11:04	11/04/24 16:25
500-259529-8	MW-05	Water	11/05/24 09:47	11/06/24 08:35
500-259529-9	MW-06	Water	11/05/24 08:51	11/06/24 08:35

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: MW-09

Lab Sample ID: 500-259529-1

Date Collected: 11/04/24 09:40

Matrix: Water

Date Received: 11/04/24 16:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0914	U	0.0769	0.0773	1.00	0.112	pCi/L	11/07/24 08:36	12/01/24 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					11/07/24 08:36	12/01/24 14:49	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	0.635		0.391	0.396	1.00	0.563	pCi/L	11/07/24 08:40	11/25/24 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					11/07/24 08:40	11/25/24 12:00	1
Y Carrier	76.6		30 - 110					11/07/24 08:40	11/25/24 12:00	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	0.726		0.398	0.403	5.00	0.563	pCi/L		12/03/24 22:52	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: MW-10

Lab Sample ID: 500-259529-2

Date Collected: 11/04/24 08:42

Matrix: Water

Date Received: 11/04/24 16:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.199		0.0964	0.0981	1.00	0.108	pCi/L	11/07/24 08:36	12/01/24 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					11/07/24 08:36	12/01/24 14:49	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	0.587	U	0.477	0.480	1.00	0.745	pCi/L	11/07/24 08:40	11/25/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					11/07/24 08:40	11/25/24 11:59	1
Y Carrier	66.2		30 - 110					11/07/24 08:40	11/25/24 11:59	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	0.786		0.487	0.490	5.00	0.745	pCi/L		12/03/24 22:52	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: MW-11

Lab Sample ID: 500-259529-3

Date Collected: 11/01/24 14:35

Matrix: Water

Date Received: 11/04/24 16:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.387		0.134	0.138	1.00	0.124	pCi/L	11/07/24 08:36	12/01/24 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		30 - 110					11/07/24 08:36	12/01/24 14:49	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	1.04		0.436	0.447	1.00	0.563	pCi/L	11/07/24 08:40	11/25/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		30 - 110					11/07/24 08:40	11/25/24 11:59	1
Y Carrier	86.4		30 - 110					11/07/24 08:40	11/25/24 11:59	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	1.43		0.456	0.468	5.00	0.563	pCi/L		12/03/24 22:52	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: MW-12

Lab Sample ID: 500-259529-4

Date Collected: 11/01/24 12:11

Matrix: Water

Date Received: 11/04/24 16:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0769	U	0.0843	0.0846	1.00	0.135	pCi/L	11/07/24 08:36	12/01/24 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					11/07/24 08:36	12/01/24 14:49	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	0.700		0.445	0.449	1.00	0.667	pCi/L	11/07/24 08:40	11/25/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					11/07/24 08:40	11/25/24 11:59	1
Y Carrier	84.5		30 - 110					11/07/24 08:40	11/25/24 11:59	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	0.777		0.453	0.457	5.00	0.667	pCi/L		12/03/24 22:52	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-259529-5

Date Collected: 11/01/24 00:00

Matrix: Water

Date Received: 11/04/24 16:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.191		0.103	0.105	1.00	0.124	pCi/L	11/07/24 08:36	12/01/24 14:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		30 - 110					11/07/24 08:36	12/01/24 14:50	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	0.990		0.432	0.442	1.00	0.558	pCi/L	11/07/24 08:40	11/25/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		30 - 110					11/07/24 08:40	11/25/24 11:59	1
Y Carrier	82.6		30 - 110					11/07/24 08:40	11/25/24 11:59	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	1.18		0.444	0.454	5.00	0.558	pCi/L		12/03/24 22:52	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: MW-16

Lab Sample ID: 500-259529-6

Date Collected: 11/01/24 13:33

Matrix: Water

Date Received: 11/04/24 16:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.797		0.173	0.187	1.00	0.101	pCi/L	11/07/24 08:36	12/01/24 14:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		30 - 110					11/07/24 08:36	12/01/24 14:50	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	1.20		0.519	0.530	1.00	0.719	pCi/L	11/07/24 08:40	11/25/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		30 - 110					11/07/24 08:40	11/25/24 11:59	1
Y Carrier	78.1		30 - 110					11/07/24 08:40	11/25/24 11:59	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	1.99		0.547	0.562	5.00	0.719	pCi/L		12/03/24 22:52	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: MW-17

Lab Sample ID: 500-259529-7

Date Collected: 11/01/24 11:04

Matrix: Water

Date Received: 11/04/24 16:25

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.573		0.246	0.251	1.00	0.283	pCi/L	11/07/24 08:36	12/01/24 14:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					11/07/24 08:36	12/01/24 14:54	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	G	0.876	0.890	1.00	1.23	pCi/L	11/07/24 08:40	11/25/24 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					11/07/24 08:40	11/25/24 11:56	1
Y Carrier	78.9		30 - 110					11/07/24 08:40	11/25/24 11:56	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	2.30		0.910	0.925	5.00	1.23	pCi/L		12/03/24 22:52	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: MW-05

Date Collected: 11/05/24 09:47

Date Received: 11/06/24 08:35

Lab Sample ID: 500-259529-8

Matrix: Water

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	0.0308	U	0.0826	0.0826	1.00	0.152	pCi/L	11/08/24 08:28	12/02/24 20:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					11/08/24 08:28	12/02/24 20:57	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.529	U	0.437	0.440	1.00	0.676	pCi/L	11/08/24 08:30	11/26/24 15:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					11/08/24 08:30	11/26/24 15:06	1
Y Carrier	74.4		30 - 110					11/08/24 08:30	11/26/24 15:06	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	0.559	U	0.445	0.448	5.00	0.676	pCi/L		12/06/24 18:06	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: MW-06

Lab Sample ID: 500-259529-9

Date Collected: 11/05/24 08:51

Matrix: Water

Date Received: 11/06/24 08:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.132	U	0.0948	0.0956	1.00	0.136	pCi/L	11/08/24 08:28	12/02/24 20:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					11/08/24 08:28	12/02/24 20:57	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.223	U	0.385	0.386	1.00	0.660	pCi/L	11/08/24 08:30	11/26/24 15:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					11/08/24 08:30	11/26/24 15:06	1
Y Carrier	79.6		30 - 110					11/08/24 08:30	11/26/24 15:06	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	0.355	U	0.396	0.398	5.00	0.660	pCi/L		12/06/24 18:06	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

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.
☼	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: Will County CCR (RAD)

Job ID: 500-259529-2

Rad

Prep Batch: 687302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-1	MW-09	Total/NA	Water	PrecSep-21	
500-259529-2	MW-10	Total/NA	Water	PrecSep-21	
500-259529-3	MW-11	Total/NA	Water	PrecSep-21	
500-259529-4	MW-12	Total/NA	Water	PrecSep-21	
500-259529-5	2S/3S Duplicate	Total/NA	Water	PrecSep-21	
500-259529-6	MW-16	Total/NA	Water	PrecSep-21	
500-259529-7	MW-17	Total/NA	Water	PrecSep-21	
MB 160-687302/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-687302/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-259529-1 DU	MW-09	Total/NA	Water	PrecSep-21	

Prep Batch: 687303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-1	MW-09	Total/NA	Water	PrecSep_0	
500-259529-2	MW-10	Total/NA	Water	PrecSep_0	
500-259529-3	MW-11	Total/NA	Water	PrecSep_0	
500-259529-4	MW-12	Total/NA	Water	PrecSep_0	
500-259529-5	2S/3S Duplicate	Total/NA	Water	PrecSep_0	
500-259529-6	MW-16	Total/NA	Water	PrecSep_0	
500-259529-7	MW-17	Total/NA	Water	PrecSep_0	
MB 160-687303/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-687303/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-259529-1 DU	MW-09	Total/NA	Water	PrecSep_0	

Prep Batch: 687522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-8	MW-05	Total/NA	Water	PrecSep-21	
500-259529-9	MW-06	Total/NA	Water	PrecSep-21	
MB 160-687522/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-687522/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-259529-8 DU	MW-05	Total/NA	Water	PrecSep-21	

Prep Batch: 687524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259529-8	MW-05	Total/NA	Water	PrecSep_0	
500-259529-9	MW-06	Total/NA	Water	PrecSep_0	
MB 160-687524/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-687524/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-259529-8 DU	MW-05	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-687302/1-A

Matrix: Water

Analysis Batch: 691257

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 687302

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01010	U	0.0574	0.0575	1.00	0.117	pCi/L	11/07/24 08:36	12/01/24 14:46	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		30 - 110					11/07/24 08:36	12/01/24 14:46	1

Lab Sample ID: LCS 160-687302/2-A

Matrix: Water

Analysis Batch: 691257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 687302

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	8.139		0.899	1.00	0.117	pCi/L	85	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	92.7		30 - 110							

Lab Sample ID: 500-259529-1 DU

Matrix: Water

Analysis Batch: 691257

Client Sample ID: MW-09

Prep Type: Total/NA

Prep Batch: 687302

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0914	U	0.1163		0.0821	1.00	0.109	pCi/L	0.16	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	86.6		30 - 110							

Lab Sample ID: MB 160-687522/1-A

Matrix: Water

Analysis Batch: 691381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 687522

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01892	U	0.0430	0.0430	1.00	0.106	pCi/L	11/08/24 08:28	12/02/24 20:55	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					11/08/24 08:28	12/02/24 20:55	1

Lab Sample ID: LCS 160-687522/2-A

Matrix: Water

Analysis Batch: 691381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 687522

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	10.17		1.11	1.00	0.167	pCi/L	106	75 - 125

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

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

Lab Sample ID: LCS 160-687522/2-A

Matrix: Water

Analysis Batch: 691381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 687522

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	86.6		30 - 110

Lab Sample ID: 500-259529-8 DU

Matrix: Water

Analysis Batch: 691381

Client Sample ID: MW-05

Prep Type: Total/NA

Prep Batch: 687522

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0308	U	0.02871	U	0.0637	1.00	0.116	pCi/L	0.01	1
	DU	DU								
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	91.9		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-687303/1-A

Matrix: Water

Analysis Batch: 690403

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 687303

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2452	U	0.334	0.335	1.00	0.561	pCi/L	11/07/24 08:40	11/25/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		30 - 110					11/07/24 08:40	11/25/24 11:59	1
Y Carrier	80.7		30 - 110					11/07/24 08:40	11/25/24 11:59	1

Lab Sample ID: LCS 160-687303/2-A

Matrix: Water

Analysis Batch: 690403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 687303

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.31	9.559		1.33	1.00	0.616	pCi/L	115	75 - 125
	LCS	LCS							
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	92.7		30 - 110						
Y Carrier	78.9		30 - 110						

Lab Sample ID: 500-259529-1 DU

Matrix: Water

Analysis Batch: 690403

Client Sample ID: MW-09

Prep Type: Total/NA

Prep Batch: 687303

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.635		0.3546	U	0.337	1.00	0.532	pCi/L	0.38	1

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

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

Lab Sample ID: 500-259529-1 DU
Matrix: Water
Analysis Batch: 690403

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 687303

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	86.6		30 - 110
Y Carrier	81.9		30 - 110

Lab Sample ID: MB 160-687524/1-A
Matrix: Water
Analysis Batch: 690619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687524

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2295	U	0.399	0.400	1.00	0.683	pCi/L	11/08/24 08:30	11/26/24 15:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					11/08/24 08:30	11/26/24 15:05	1
Y Carrier	75.9		30 - 110					11/08/24 08:30	11/26/24 15:05	1

Lab Sample ID: LCS 160-687524/2-A
Matrix: Water
Analysis Batch: 690619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687524

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.31	8.722		1.30	1.00	0.649	pCi/L	105	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	86.6		30 - 110						
Y Carrier	81.1		30 - 110						

Lab Sample ID: 500-259529-8 DU
Matrix: Water
Analysis Batch: 690619

Client Sample ID: MW-05
Prep Type: Total/NA
Prep Batch: 687524

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.529	U	0.3401	U	0.404	1.00	0.664	pCi/L	0.22	1
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	91.9		30 - 110							
Y Carrier	74.8		30 - 110							

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		Sampler: <u>Tim Stohner</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-129758-48726 1																																							
Client Contact: Mr Tim Stohner		Phone: <u>830 290 6850</u>		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1																																							
Company: KPRG and Associates, Inc.		PWSID		Analysis Requested						Job #: <u>500-259529</u>																																					
Address: 414 Plaza Drive Suite 106		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_Cl_E, SM4500_S04_E Total Number of Containers						Preservation Codes: D HNO3 N None																																					
City: Westmont		TAT Requested (days)								Other:																																					
State Zip: IL, 60559		Compliance Project. ☐ Yes ☐ No																																													
Phone: 500-259529 COC		PO #: 4502116506																																													
Email: tims@kprginc.com		WO #:																																													
Project Name: Will County 2S/3S Event Desc: Quarterly GW Monitoring CCR		Project #: 50011609																																													
Site: Illinois		SSOW#:																																													
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		903.0, 904.0		6010C, 6020A, 7470A		2540C, 4500_F_C, SM4500_Cl_E, SM4500_S04_E		Total Number of Containers		Special Instructions/Note:																									
						Preservation Code:																																									
MW-05		—		—		—		Water																																							
MW-06		—		—		—		Water																																							
MW-09		11-4-24		09:40		G		Water		N		N		X		X		X																													
MW-10		11-4-24		08:42		G		Water		N		N		X		X		X																													
MW-11		11-1-24		14:35		G		Water		N		N		X		X		X																													
MW-12		11-1-24		12:11		G		Water		N		N		X		X		X																													
2S/3S Duplicate		11-1-24		—		G		Water		N		N		X		X		X																													
MW-16		11-1-24		13:33		G		Water		N		N		X		X		X																													
MW-17		11-1-24		11:04		G		Water		N		N		X		X		X																													
Possible Hazard Identification																								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological																								☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																							
Deliverable Requested I, II, III, IV, Other (specify)																								Special Instructions/QC Requirements																							
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____																																															
Relinquished by: _____ Date/Time: 11-4-24 16:25 Company: KPRG																								Received by: _____ Date/Time: 11/4/24 16:25 Company: ERTA																							
Relinquished by: _____ Date/Time: _____ Company: _____																								Received by: _____ Date/Time: _____ Company: _____																							
Relinquished by: _____ Date/Time: _____ Company: _____																								Received by: _____ Date/Time: _____ Company: _____																							
Custody Seals Intact. ☐ Yes ☐ No																								Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks: 20-21.4, 40-23.9, 55-75.24																							

Phone 708-534 5200 Fax 708-534 5211

Chain of Custody Record

Client Information		Sampler IAN Scott Howland	Lab PM Mockler, Diana J	Carrier Tracking No(s)	COC No 500-129758-48726 1					
Client Contact Mr Tim Stohner		Phone 630 290 6250	E-Mail Diana.Mockler@et.eurofinsus.com	State of Origin	Page Page 1 of 1					
Company KPRG and Associates, Inc		PWSID	Analysis Requested							
Address 414 Plaza Drive Suite 106		Due Date Requested	 500-259529 COC							
City Westmont		TAT Requested (days)								
State Zip IL, 60559		Compliance Project Δ Yes Δ No								
Phone		PO # 4502116506								
Email tims@kprginc.com		WO #								
Project Name Will County 2S/3S Event Desc Quarterly GW Monitoring		Project # 50011609	Total Number of containers							
Site Illinois		SSOW#								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Parform MS/SP (Yes or No)	903.0, 904.0	6010C, 6020A, 7470A	2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E	Preservation Codes D HNO3 N None
MW-05	11-5-24	09:47	G	Water	N	N	K	K	X	
MW-06	11-5-24	08:51	G	Water	N	N	X	X	X	
MW-09	-	-	-	Water						
MW-10	-	-	-	Water						
MW-11	-	-	-	Water						
MW-12	-	-	-	Water						
2S/3S Duplicate	-	-	-	Water						
MW-16	-	-	-	Water						
MW-17	-	-	-	Water						
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements					
Empty Kit Relinquished by		Date	Time		Method of Shipment.					
Relinquished by		Date/Time	Company		Received by		Date/Time		Company	
Relinquished by		Date/Time	Company		Received by		Date/Time		Company	
Relinquished by		Date/Time	Company		Received by		Date/Time		Company	
Custody Seals Intact Δ Yes Δ No		Custody Seal No			Cooler Temperature(s) °C and Other Remarks:					

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)					
Sampler:	N/A	Lab PW:	Diana J Mockler	Carrier Tracking No(s):	COC No: 500-194788.1
Client Contact:	Phone N/A	E-Mail:	Diana Mockler@et-eurofinsus.com	State of Origin:	Page: Illinois Page 1 of 1
Company TestAmerica Laboratories, Inc.			Accreditations Required (See note) NELAP - Illinois		
Address 13715 Rider Trail North, City Earth City MO. 63045					
Telephone 314-298-8566(Tel) 314-298-8757(Fax)					
Email N/A					
Project Name: Will County CCR (RAD)					
Site NRG Midwest Generation Will County					
SSOW# N/A					
PO # N/A					
WO # N/A					
TAT Requested (days): N/A					
Due Date Requested: 11/25/2024					
Analysis Requested					
Field Filtered Sample (Yes or No)					
Perform MS/MSD (Yes or No)					
903.0/PrecSep_21 Standard Target List					
904.0/PrecSep_0 Standard Target List					
Raz26Ra228_GFPc					
Total Number of containers					
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,					
Other: N/A					
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 <i>Unconfirmed</i>					
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Relinquished by: [Signature]					
Date/Time	11/6/24	16:00	Received by:	[Signature]	Date/Time
Date/Time			Received by:	Cheyenne Forrest	Date/Time
Date/Time			Received by:		Date/Time
Custody Seals Intact: Δ Yes Δ No					
Cooler Temperature(s) °C and Other Remarks:					

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-259529-2

Login Number: 259529

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9,3.9,5.4,2.7,4.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Chicago

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-259529-2

Login Number: 259529

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 11/06/24 11:59 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Chicago

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-259529-2

Login Number: 259529

List Number: 3

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 11/07/24 12:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: MW-09

Date Collected: 11/04/24 09:40

Date Received: 11/04/24 16:25

Lab Sample ID: 500-259529-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			687302	BCE	EET SL	11/07/24 08:36
Total/NA	Analysis	903.0		1	691257	FLC	EET SL	12/01/24 14:49
Total/NA	Prep	PrecSep_0			687303	BCE	EET SL	11/07/24 08:40
Total/NA	Analysis	904.0		1	690403	FLC	EET SL	11/25/24 12:00
Total/NA	Analysis	Ra226_Ra228		1	691727	EMH	EET SL	12/03/24 22:52

Client Sample ID: MW-10

Date Collected: 11/04/24 08:42

Date Received: 11/04/24 16:25

Lab Sample ID: 500-259529-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			687302	BCE	EET SL	11/07/24 08:36
Total/NA	Analysis	903.0		1	691257	FLC	EET SL	12/01/24 14:49
Total/NA	Prep	PrecSep_0			687303	BCE	EET SL	11/07/24 08:40
Total/NA	Analysis	904.0		1	690403	FLC	EET SL	11/25/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	691727	EMH	EET SL	12/03/24 22:52

Client Sample ID: MW-11

Date Collected: 11/01/24 14:35

Date Received: 11/04/24 16:25

Lab Sample ID: 500-259529-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			687302	BCE	EET SL	11/07/24 08:36
Total/NA	Analysis	903.0		1	691257	FLC	EET SL	12/01/24 14:49
Total/NA	Prep	PrecSep_0			687303	BCE	EET SL	11/07/24 08:40
Total/NA	Analysis	904.0		1	690403	FLC	EET SL	11/25/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	691727	EMH	EET SL	12/03/24 22:52

Client Sample ID: MW-12

Date Collected: 11/01/24 12:11

Date Received: 11/04/24 16:25

Lab Sample ID: 500-259529-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			687302	BCE	EET SL	11/07/24 08:36
Total/NA	Analysis	903.0		1	691257	FLC	EET SL	12/01/24 14:49
Total/NA	Prep	PrecSep_0			687303	BCE	EET SL	11/07/24 08:40
Total/NA	Analysis	904.0		1	690403	FLC	EET SL	11/25/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	691727	EMH	EET SL	12/03/24 22:52

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-259529-5

Date Collected: 11/01/24 00:00

Matrix: Water

Date Received: 11/04/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			687302	BCE	EET SL	11/07/24 08:36
Total/NA	Analysis	903.0		1	691257	FLC	EET SL	12/01/24 14:50
Total/NA	Prep	PrecSep_0			687303	BCE	EET SL	11/07/24 08:40
Total/NA	Analysis	904.0		1	690403	FLC	EET SL	11/25/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	691727	EMH	EET SL	12/03/24 22:52

Client Sample ID: MW-16

Lab Sample ID: 500-259529-6

Date Collected: 11/01/24 13:33

Matrix: Water

Date Received: 11/04/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			687302	BCE	EET SL	11/07/24 08:36
Total/NA	Analysis	903.0		1	691257	FLC	EET SL	12/01/24 14:50
Total/NA	Prep	PrecSep_0			687303	BCE	EET SL	11/07/24 08:40
Total/NA	Analysis	904.0		1	690403	FLC	EET SL	11/25/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	691727	EMH	EET SL	12/03/24 22:52

Client Sample ID: MW-17

Lab Sample ID: 500-259529-7

Date Collected: 11/01/24 11:04

Matrix: Water

Date Received: 11/04/24 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			687302	BCE	EET SL	11/07/24 08:36
Total/NA	Analysis	903.0		1	691384	FLC	EET SL	12/01/24 14:54
Total/NA	Prep	PrecSep_0			687303	BCE	EET SL	11/07/24 08:40
Total/NA	Analysis	904.0		1	690408	FLC	EET SL	11/25/24 11:56
Total/NA	Analysis	Ra226_Ra228		1	691727	EMH	EET SL	12/03/24 22:52

Client Sample ID: MW-05

Lab Sample ID: 500-259529-8

Date Collected: 11/05/24 09:47

Matrix: Water

Date Received: 11/06/24 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			687522	BCE	EET SL	11/08/24 08:28
Total/NA	Analysis	903.0		1	691381	FLC	EET SL	12/02/24 20:57
Total/NA	Prep	PrecSep_0			687524	BCE	EET SL	11/08/24 08:30
Total/NA	Analysis	904.0		1	690619	FLC	EET SL	11/26/24 15:06
Total/NA	Analysis	Ra226_Ra228		1	692301	FLC	EET SL	12/06/24 18:06

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-259529-2

Client Sample ID: MW-06
Date Collected: 11/05/24 08:51
Date Received: 11/06/24 08:35

Lab Sample ID: 500-259529-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			687522	BCE	EET SL	11/08/24 08:28
Total/NA	Analysis	903.0		1	691381	FLC	EET SL	12/02/24 20:57
Total/NA	Prep	PrecSep_0			687524	BCE	EET SL	11/08/24 08:30
Total/NA	Analysis	904.0		1	690619	FLC	EET SL	11/26/24 15:06
Total/NA	Analysis	Ra226_Ra228		1	692301	FLC	EET SL	12/06/24 18:06

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: Will County CCR (RAD)

Job ID: 500-259529-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba					
Lab Sample ID	Client Sample ID	(30-110)					
500-259529-1	MW-09	84.8					
500-259529-1 DU	MW-09	86.6					
500-259529-2	MW-10	88.1					
500-259529-3	MW-11	82.3					
500-259529-4	MW-12	86.6					
500-259529-5	2S/3S Duplicate	79.2					
500-259529-6	MW-16	89.9					
500-259529-7	MW-17	86.6					
500-259529-8	MW-05	86.1					
500-259529-8 DU	MW-05	91.9					
500-259529-9	MW-06	93.7					
LCS 160-687302/2-A	Lab Control Sample	92.7					
LCS 160-687522/2-A	Lab Control Sample	86.6					
MB 160-687302/1-A	Method Blank	81.3					
MB 160-687522/1-A	Method Blank	94.4					
Tracer/Carrier Legend							
Ba = Ba Carrier							

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba	Y				
Lab Sample ID	Client Sample ID	(30-110)	(30-110)				
500-259529-1	MW-09	84.8	76.6				
500-259529-1 DU	MW-09	86.6	81.9				
500-259529-2	MW-10	88.1	66.2				
500-259529-3	MW-11	82.3	86.4				
500-259529-4	MW-12	86.6	84.5				
500-259529-5	2S/3S Duplicate	79.2	82.6				
500-259529-6	MW-16	89.9	78.1				
500-259529-7	MW-17	86.6	78.9				
500-259529-8	MW-05	86.1	74.4				
500-259529-8 DU	MW-05	91.9	74.8				
500-259529-9	MW-06	93.7	79.6				
LCS 160-687303/2-A	Lab Control Sample	92.7	78.9				
LCS 160-687524/2-A	Lab Control Sample	86.6	81.1				
MB 160-687303/1-A	Method Blank	81.3	80.7				
MB 160-687524/1-A	Method Blank	94.4	75.9				
Tracer/Carrier Legend							
Ba = Ba Carrier							
Y = Y Carrier							

ATTACHMENT 3

**Federal CCR Compliance Nature and Extent of Impacts Evaluation,
Will County Stations Ponds 2 South and 3 South**



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

**FEDERAL CCR COMPLIANCE
NATURE AND EXTENT OF IMPACTS EVALUATION
WILL COUNTY STATION
PONDS 2 SOUTH AND 3 SOUTH**

**Midwest Generation, LLC
Will County Generating Station
529 E. 135th Street
Romeoville, Illinois 60446**

Prepared By: KPRG and Associates, Inc.
14665 West Lisbon Road, Suite 1A
Brookfield, WI 53005

October 9, 2024

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5 – Proposed Additional Assessment Monitoring Wells

APPENDICES

A – Boring Logs, Well Construction Summaries and Survey Data

B – Analytical Data Packages

1.0 INTRODUCTION

1.1 Background

The Midwest Generation, LLC (Midwest Generation) Will County Generating Station, Ponds 2 South (2S) and 3 South (3S) are currently in Assessment Monitoring in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Part 257.95, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule dated April 17, 2015 (CCR Rule). The initial CCR monitoring well network for these ponds consists of six monitoring wells (MW-05, MW-06, MW-09, MW-10, MW-11 and MW-12) as shown on Figure 1. Wells MW-05 and MW-06 are considered background monitoring wells.

Since there were detections of Appendix IV constituents, specifically arsenic and molybdenum, above established Groundwater Protection Standards (GWPSs) and the source may be attributed to the regulated unit, a nature and extent of impacts evaluation in accordance with Section 257.95 (g)(iii) has been ongoing. As part of this initial nature and extent evaluation, the CCR monitoring network was expanded to include assessment monitoring wells MW-16 and MW-17 located downgradient, to the west and southwest of the regulated units (see Figure 1). Several rounds of sampling at these wells have been completed and this report summarizes the current findings and provides conclusions/recommendations.

1.2 Objectives

The objective of this study was to define the extent of groundwater impacts downgradient of Ponds 2S and 3S to the west and southwest. To do this, two additional monitoring wells (MW-16 and MW-17) were installed and sampled at locations shown on Figure 1 to assist in defining the impacts. It is noted that the Des Plaines River is located just west of these two locations and is considered the downgradient discharge boundary for the local groundwater flow system.

1.3 Organization of Report

This report documents the work performed and resulting data interpretation. Section 1.0 provides an introduction, Section 2.0 documents the field procedures used, and the analytical results and data interpretations are included in Section 3.0. Conclusions and Recommendations are provided in Section 4.0.

2.0 FIELD PROCEDURES

2.1 Mobilization

Prior to drilling, access to the drilling locations needed to be constructed. This included opening the existing fence line, installing a new access gate and constructing an access road and drilling pad at each proposed well location. The drilling locations for the new wells were then marked and JULIE was contacted to mark standard underground utilities prior to mobilization.

KPRG mobilized to the site along with drilling contractor, Earth Solutions.

2.2 Well Installations

Drilling began with hollow-stem augers until refusal was encountered at the top of the bedrock which was encountered at four feet and two feet below ground surface, respectively, at well locations MW-16 and MW-17. At that point air rotary drilling techniques were used until the target depth was reached (approximate elevation 570 to 572 feet above mean sea level (amsl)). Borings were logged visually from drill cuttings by a KPRG geologist. Wells MW-16 and MW-17 were completed at depths of approximately 15 feet and 13 feet, respectively. Logs were consistent with those of other wells drilled in the area. Completed boring logs are provided in Appendix A.

Once the respective target depths were reached, each well was constructed of a 2-inch inner diameter, schedule 40 PVC with a 10-foot long, 0.010-slot screen. Sand pack material was placed to approximately two feet above the well screen. Bentonite chips were added up to 1.5 feet below ground surface (bgs) at MW-16 and up to 2 feet bgs at MW-17. A concrete seal was added in the last 0.5 feet bgs at both MW-16 and MW-17.

Surface completion of both MW-16 and MW-17 included a locked metal stick-up protective casing approximately three feet tall and anchored in a half of a foot of concrete. Well construction details are included on the boring logs in Appendix A. Once installed, the well locations were surveyed including ground elevation, top of protective casing elevation and top of well casing elevation. The survey data for these wells is also included in Appendix A.

After at least 24 hours following drilling, well development was started. Well MW-16 was developed using a surge and pump technique with a submersible development pump. It was pumped intermittently to provide surging for 23 minutes at a rate of approximately 2.28 gallons/minute until the water ran clear. Color of the water varied from an opaque light brown to a cloudy tan to colorless. Approximately 52 gallons were pumped out of the well.

MW-17 was also developed using a surge and pump technique with a submersible pump. It was pumped intermittently to provide surging for 24 minutes at a rate of approximately 1.20 gallons/minute. Approximately 28 gallons were purged. Water appearance began opaque tan color and ran a slightly cloudy by the conclusion of development.

Dedicated QED bladder pumps were installed at each well. The pumps consist of a PVC shell and inlet screen, with a Teflon bladder. High density polyethylene (HDPE) twin-bonded tubing leads to air and water surface connections for sampling. The sample collection in-take points for wells MW-16 and MW-17 were placed just above the base of each well.

2.3 Groundwater Sampling

Groundwater samples were collected by KPRG and analyzed by Eurofins Analytical (Eurofins). Prior to sampling, water level elevations were measured using an electronic water level probe from all sampled wells to calculate groundwater elevations. These measurements are summarized in Table 1. All groundwater samples were collected using low flow sampling techniques with a dedicated bladder pump. KPRG collected field parameters (pH, specific conductance, temperature) until stable conditions were recorded. Samples were collected unfiltered and placed directly into laboratory prepared jars with preservation as necessary and placed on ice. One duplicate sample was collected for quality assurance purposes. All groundwater samples were analyzed for the CCR Appendix III and IV parameters. The analytical data packages are provided in Appendix B.

3.0 ANALYTICAL RESULTS

3.1 Data Summary

Groundwater samples were collected from a total of eight monitoring wells, six initial CCR monitoring network wells and two assessment wells which include the two new installed monitoring wells discussed above. All samples were analyzed for the full list of Appendix III and IV parameters. The analytical data packages are included in Appendix B. Monitoring well network data along with the data from the two new assessment wells are summarized in Tables 2 and 3. Table 2 includes Appendix III data with previously calculated interwell Prediction Limits (PLs) for each parameter. Table 3 includes Appendix IV parameters with previously established site-specific GWPSs.

A review of the Appendix IV data in Tables 3 indicates two parameters above their established GWPSs in the second quarter 2024 sampling. Specifically, these were arsenic and molybdenum. It is noted that selenium has been occasionally detected above the GWPS of 0.056 mg/l in upgradient well MW-05, however, has never been detected above the GWPS in any of the downgradient wells. All other parameters were either historically not detected or have not exceeded the established GWPSs. A review of the data trends for those parameters indicates a consistent range of detections (i.e., stable conditions). Further discussion on the extent of arsenic and molybdenum impacts is provided in Section 3.3.

3.2 Groundwater Flow Conditions

As noted above, groundwater elevations collected prior to sampling are summarized in Table 1. A groundwater flow map based on the second quarter 2024 water levels is provided on Figure 2. A review of the map indicates groundwater flow to the west and southwest from Ponds 2S and 3S. This is consistent with historical flow conditions.

3.3 Extent of Impacts

3.3.1 Arsenic

The established site-specific GWPS for arsenic is 0.010 mg/l (10 ug/l). An isoconcentration contour map for arsenic using the most recent data from second quarter 2024 sampling is provided on Figure 3. A review of Figure 3 indicates that the extent of arsenic impacts above the GWPS has been fully defined in all directions by monitoring well data. The highest concentration of arsenic was recorded at well MW-11 at 0.032 mg/l.

3.3.2 Molybdenum

The established site-specific GWPS for molybdenum is 0.10 mg/l (100 ug/l). An isoconcentration contour map for molybdenum using the most recent data from second quarter 2024 is provided on Figure 4. A review of Figure 4 indicates that the extent of molybdenum impacts is sufficiently defined to the north, east, and west, but appears to remain undefined in the southern direction

with new assessment monitoring well MW-17 still detecting molybdenum at 0.13 mg/l.

4.0 CONCLUSIONS/RECOMMENDATIONS

4.1 Conclusions

Based on the data presentation and discussions above, arsenic and molybdenum were detected in monitoring wells above their respective site-specific GWPSs in the second quarter 2024. The extent of arsenic impacts has been fully defined, however, the extent of molybdenum impacts have not yet been fully defined to the south.

4.2 Recommendations

Based on the conclusions presented above, it is recommended to install one additional assessment well to the south of well MW-17. The purpose of this well is to assist in further defining the extent of molybdenum impacts in the southerly direction. The proposed well location is shown on Figure 5.

TABLES

Table 1. Groundwater Elevations 2Q2022 to 2Q2024 - Midwest Generation, LLC, Will County Station, Romeoville, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-05	4/6/2022	502.87	9.59	503.28
	5/23/2022	502.87	10.06	502.81
	6/29/2022	502.87	10.68	502.19
	7/19/2022	502.87	10.40	502.47
	8/23/2022	502.87	10.26	502.61
	9/20/2022	502.87	10.17	502.70
	10/13/2022	502.87	11.09	501.78
	11/15/2022	502.87	10.66	502.21
	12/19/2022	502.87	9.96	502.91
	1/26/2023	502.87	10.03	502.84
	2/21/2023	502.87	9.88	502.99
	3/15/2023	502.87	9.92	502.95
	4/25/2023	502.87	10.29	502.58
	5/19/2023	502.87	10.68	502.19
	6/8/2023	502.87	11.50	501.37
	7/25/2023	502.87	10.19	502.68
	8/29/2023	502.87	10.47	502.40
	9/21/2023	502.87	9.97	502.90
	10/19/2023	502.87	10.11	502.76
	11/14/2023	502.87	10.51	502.36
	12/7/2023	502.87	10.03	502.84
	1/11/2024	502.87	9.84	503.03
	2/5/2024	502.87	9.87	503.00
	3/8/2024	502.87	9.94	502.93
	4/19/2024	502.87	10.03	502.84
	5/6/2024	502.87	9.79	503.08
MW-06	4/6/2022	503.18	11.07	502.11
	5/23/2022	503.18	11.62	501.56
	6/29/2022	503.18	12.21	500.97
	7/19/2022	503.18	11.88	501.30
	8/23/2022	503.18	12.57	500.61
	9/20/2022	503.18	11.78	501.40
	10/13/2022	503.18	12.37	500.81
	11/15/2022	503.18	12.14	501.04
	12/19/2022	503.18	11.53	501.65
	1/26/2023	503.18	11.66	501.52
	2/21/2023	503.18	11.57	501.61
	3/15/2023	503.18	11.61	501.57
	4/25/2023	503.18	11.98	501.20
	5/19/2023	503.18	12.21	500.97
	6/8/2023	503.18	12.83	500.35
	7/25/2023	503.18	11.96	501.22
	8/29/2023	503.18	12.06	501.12
	9/21/2023	503.18	11.58	501.60
	10/19/2023	503.18	11.72	501.46
	11/14/2023	503.18	12.13	501.05
	12/7/2023	503.18	11.59	501.59
	1/11/2024	503.18	11.38	501.80
	2/5/2024	503.18	11.62	501.56
	3/8/2024	503.18	11.54	501.64
	4/19/2024	503.18	11.80	501.38
	5/6/2024	503.18	11.49	501.69
MW-09	4/6/2022	502.87	10.46	502.41
	5/23/2022	502.87	11.22	501.65
	6/29/2022	502.87	12.20	500.67
	7/19/2022	502.87	11.86	501.01
	8/23/2022	502.87	11.59	501.28
	9/20/2022	502.87	11.39	501.48
	10/13/2022	502.87	11.97	500.90
	11/15/2022	502.87	12.25	500.62
	12/19/2022	502.87	11.34	501.53
	1/26/2023	502.87	11.59	501.28
	2/21/2023	502.87	11.28	501.59
	3/15/2023	502.87	11.07	501.80
	4/25/2023	502.87	11.80	501.07
	5/19/2023	502.87	12.16	500.71
	6/8/2023	502.87	12.79	500.08
	7/25/2023	502.87	11.89	500.98
	8/29/2023	502.87	12.08	500.79
	9/21/2023	502.87	11.35	501.52
	10/19/2023	502.87	11.45	501.42
	11/14/2023	502.87	12.23	500.64
	12/7/2023	502.87	11.56	501.31
	1/11/2024	502.87	11.13	501.74
	2/5/2024	502.87	11.01	501.86
	3/8/2024	502.87	11.11	501.76
	4/19/2024	502.87	11.44	501.43
	5/6/2024	502.87	11.01	501.86

Table 1. Groundwater Elevations 2Q2022 to 2Q2024 - Midwest Generation, LLC, Will County Station, Romeoville, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-10	4/6/2022	590.96	9.74	581.22
	5/23/2022	590.96	8.99	581.97
	6/29/2022	590.96	11.50	579.46
	7/19/2022	590.96	11.03	579.93
	8/23/2022	590.96	10.86	580.10
	9/20/2022	590.96	10.35	580.61
	10/13/2022	590.96	11.06	579.90
	11/15/2022	590.96	11.15	579.81
	12/19/2022	590.96	10.02	580.94
	1/26/2023	590.96	10.50	580.46
	2/21/2023	590.96	10.26	580.70
	3/15/2023	590.96	10.06	580.90
	4/25/2023	590.96	10.77	580.19
	5/19/2023	590.96	11.14	579.82
	6/8/2023	590.96	11.77	579.19
	7/25/2023	590.96	11.02	579.94
	8/29/2023	590.96	11.13	579.83
	9/21/2023	590.96	10.34	580.62
	10/19/2023	590.96	10.33	580.63
	11/14/2023	590.96	11.11	579.85
	12/7/2023	590.96	10.35	580.61
	1/11/2024	590.96	10.10	580.86
	2/5/2024	590.96	10.03	580.93
	3/8/2024	590.96	9.96	581.00
	4/19/2024	590.96	10.47	580.49
	5/6/2024	590.96	10.12	580.84
MW-11	4/6/2022	590.69	9.14	581.55
	5/23/2022	590.69	9.72	580.97
	6/29/2022	590.69	11.00	579.69
	7/19/2022	590.69	10.44	580.25
	8/23/2022	590.69	10.35	580.34
	9/20/2022	590.69	9.82	580.87
	10/13/2022	590.69	10.44	580.25
	11/15/2022	590.69	10.92	579.77
	12/19/2022	590.69	9.77	580.92
	1/26/2023	590.69	10.68	580.01
	2/21/2023	590.69	9.82	580.87
	3/15/2023	590.69	9.54	581.15
	4/25/2023	590.69	10.39	580.30
	5/19/2023	590.69	10.72	579.97
	6/8/2023	590.69	11.33	579.36
	7/25/2023	590.69	10.52	580.17
	8/29/2023	590.69	10.66	580.03
	9/21/2023	590.69	9.86	580.83
	10/19/2023	590.69	9.91	580.78
	11/14/2023	590.69	10.94	579.75
	12/7/2023	590.69	10.11	580.58
	1/11/2024	590.69	9.52	581.17
	2/5/2024	590.69	9.49	581.20
	3/8/2024	590.69	9.44	581.25
	4/19/2024	590.69	9.93	580.76
	5/6/2024	590.69	9.52	581.17
MW-12	4/6/2022	590.81	9.83	580.98
	5/23/2022	590.81	10.18	580.63
	6/29/2022	590.81	11.15	579.66
	7/19/2022	590.81	10.62	580.19
	8/23/2022	590.81	10.34	580.47
	9/20/2022	590.81	10.22	580.59
	10/13/2022	590.81	10.78	580.03
	11/15/2022	590.81	10.77	580.04
	12/19/2022	590.81	9.97	580.84
	1/26/2023	590.81	10.18	580.63
	2/21/2023	590.81	10.12	580.69
	3/15/2023	590.81	10.03	580.78
	4/24/2023	590.81	10.37	580.44
	5/19/2023	590.81	10.64	580.17
	6/8/2023	590.81	11.46	579.35
	7/25/2023	590.81	10.57	580.24
	8/29/2023	590.81	10.77	580.04
	9/21/2023	590.81	10.15	580.66
	10/19/2023	590.81	10.17	580.64
	11/14/2023	590.81	10.67	580.14
	12/7/2023	590.81	10.14	580.67
	1/11/2024	590.81	10.03	580.78
	2/5/2024	590.81	9.99	580.82
	3/8/2024	590.81	9.99	580.82
	4/19/2024	590.81	10.13	580.68
	5/6/2024	590.81	10.01	580.80

Table 1. Groundwater Elevations 2Q2022 to 2Q2024 - Midwest Generation, LLC, Will County Station, Romeoville, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TDC)	Groundwater Elevation (ft above MSL)
MW-16	1/11/2024	505.26	4.82	500.44
	2/5/2024	505.26	4.67	500.59
	3/8/2024	505.26	4.53	500.73
	4/19/2024	505.26	5.13	500.13
	5/6/2024	505.26	4.88	500.38
MW-17	1/11/2024	505.43	5.16	500.27
	2/5/2024	505.43	5.09	500.34
	3/8/2024	505.43	5.03	500.40
	4/19/2024	505.43	5.54	579.89
	5/6/2024	505.43	5.20	500.23

MSL - Mean Sea Level
TDC - Top of Casing

Table 2. Appendix III Groundwater Analytical Results - Midwest Generation, LLC, Ponds 25/3S Will County Station, Romeoville, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
MW-05 up-gradient	11/11/2015	6.1	220	110	0.31	7.24	770	1,900
	2/18/2016	4.4	230	120	0.31	6.99	730	1,600
	5/26/2016	3.7	170	110	0.33	6.73	670	1,500
	8/19/2016	3.6	67	120	0.72	8.62	490	970
	10/26/2016	3.6	44	120	0.70	9.08	410	920
	2/1/2017	4.6	250	48	0.35	6.81	530	1,600
	5/11/2017	4.0	140	85	0.31	7.86	610	1,200
	6/27/2017	3.8	83	99	0.53	7.95	500	1,000
	Pred. Limit*	6.65	359	148	0.72	9.93-5.39	923	2,286
	9/8/2017	4.8	89	78	0.52	9.40	490	1,000
	11/16/2017	4.8	180	52	0.45	6.70	650	1,500
	5/2/2018	3.6	200	32	0.39	7.23	510	1,300
	10/3/2018	4.9	150	55	0.48	7.07	430	1,200
	5/29/2019	4.1	61	91	0.59	9.10	380	870
	12/6/2019	4.9	170	31	0.41	6.95	440	1,200
	5/22/2020	4.5	52	70	0.59	7.39	300	870
	11/4/2020	5.0	130	29	0.38	7.06	410	1,100
	5/24/2021	4.7	120	28	0.53	7.07	430	1,000
	11/23/2021	5.5	140	22	0.44	6.80	370	1,100
	2/24/2022	4.9	210	25	0.39	6.73	660	1,400
	6/16/2022	5.1	120	41	0.34	7.05	510	1,100
	8/25/2022	6.6	130	20	0.40	6.69	300	940
	11/15/2022	8.9	150	9.8	0.72	6.78	310	930
	2/23/2023	6.2	120	26	0.43	6.83	430	1,100
	4/26/2023	4.9	210	33	0.47	6.73	670	1,600
	7/26/2023	4.8	180	18	0.50	6.91	440	1,200
	10/24/2023	6.8	140	8.6	0.52	6.68	210	850
	12/7/2023 R	5.7	NS	NS	NS	NS	NS	NS
	2/7/2024	4.8	260	38	0.32	6.62	800	1900
	5/8/2024	5.3	83	34	0.65	7.36	450	930
MW-06 up-gradient	11/10/2015	3.0	52	100	0.55	8.63	300	660
	2/18/2016	2.5	74	150	0.47	8.58	280	650
	5/26/2016	2.7	86	92	0.44	7.79	350	800
	8/11/2016	3.6	110	58	0.35	7.74	330	840
	10/26/2016	3.8	86	74	0.40	8.16	220	800
	2/1/2017	3.4	70	83	0.41	7.88	260	700
	5/11/2017	3.0	75	84	0.28	8.68	330	570
	6/27/2017	3.1	65	74	0.38	8.15	330	710
	Pred. Limit*	4.29	122	162	0.62	9.21-7.19	415	956
	9/7/2017	3.5	75	67	0.40	8.20	300	740
	11/16/2017	3.9	88	54	0.39	7.59	280	810
	5/3/2018	3.0	91	52	0.26	6.91	530	750
	7/25/2018 R	NA	NA	NA	NA	7.47	280	NA
	10/3/2018	3.5	93	44	0.31	7.83	240	720
	5/29/2019	4.2	120	38	0.21	7.51	350	1,000
	7/9/2019 R	3.2	NA	NA	NA	NA	NA	740
	12/6/2019	4.2	98	31	0.33	7.91	210	740
	5/22/2020	3.4	98	56	0.31	7.47	180	710
	11/3/2020	3.3	100	43	0.36	7.29	170	700
	5/24/2021	2.6	99	46	0.33	7.65	160	610
	11/23/2021	2.6	85	43	0.37	7.48	150	720
	2/22/2022	2.8	130	35	0.33	7.29	260	940
	6/14/2022	2.5	110	22	0.35	7.06	210	610
	8/25/2022	2.7	110	20	0.42	7.31	170	750
	11/16/2022	3.2	110	19	0.47	7.41	160	600
	2/23/2023	3.0	110	17	0.35	7.54	190	680
	4/26/2023	2.0	100	15	0.36	7.42	150	610
	7/26/2023	2.5	110	16	0.42	7.60	170	610
	10/24/2023	2.5	100	13	0.40	7.34	140	580
	2/7/2024	2.5	96	12	0.39	7.39	150	570
	5/8/2024	2.3	110	13	0.37	7.66	180	630
MW-09 down-gradient	11/11/2015	1.9	56	190	0.55	9.12	460	750
	2/17/2016	1.8	47	160	0.55	9.10	250	600
	5/24/2016	1.6	48	180	0.51	8.79	240	640
	8/9/2016	2.2	53	140	0.48	8.35	280	750
	10/26/2016	2.2	33	130	0.81	9.16	230	660
	1/31/2017	2.0	61	250	0.57	8.59	180	710
	5/9/2017	1.8	66	340	0.38	8.58	250	900
	6/27/2017	1.9	64	330	0.51	7.76	240	940
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	9/6/2017	1.8	59	310	0.51	8.98	240	890
	11/14/2017	2.6	160	270	0.51	8.1	290	910
	5/1/2018	1.7	49	200	0.52	7.81	430	820
	7/25/2018 R	NA	NA	NA	NA	NA	320	NA
	10/2/2018	2.1	49	170	0.55	8.09	270	820
	5/29/2019	1.5	48	280	0.29	8.90	150	750
	12/6/2019	2.0	38	140	0.46	8.65	160	630
	5/26/2020	1.3	55	320	0.32	8.66	140	720
	11/3/2020	2.0	43	240	0.55	8.64	180	750
	5/26/2021	1.6	67	360	0.39	8.74	180	900
	11/23/2021	1.1	30	290	0.47	8.73	210	900
	2/22/2022	1.5	49	250	0.40	8.65	160	900
	6/15/2022	1.9	43	230	0.48	8.35	180	730
	8/25/2022	2.1	38	210	0.58	8.68	190	770
	11/16/2022	2.3	37	210	0.79	8.82	160	690
	2/23/2023	2.0	38	190	0.53	9.04	210	680
	4/26/2023	1.8	38	190	0.48	8.82	220	750
	7/26/2023	2.0	44	190	0.49	8.83	250	720
	10/24/2023	2.0	41	200	0.52	8.68	200	770
	2/7/2024	2.1	39	190	0.60	8.89	230	680
	5/8/2024	1.8	41	180	0.52	9.33	230	740

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

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

** - Based on pooled background from MW-5/MW-6. All others based on MW-6 as background.

Indices Date - First round of Detection Monitoring and re-sample after statistical background establishment.

NC - Not calculated.

BOLD - Potential statistically significant increase relative to interwell Prediction Limit.

NA - Not analyzed. No confirmation re-sample required.

R - Resample

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

Table 2. Appendix III Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
MW-10 down-gradient	11/10/2015	3.9	140	140	0.77	7.34	310	980
	2/16/2016	3.6	150	240	0.79	7.29	290	950
	5/25/2016	3.6	120	140	0.83	7.26	260	1,000
	8/10/2016	4.3	150	120	0.78	7.22	230	970
	10/26/2016	3.0	160	74	0.52	7.30	220	1,000
	2/2/2017	3.7	180	81	0.54	7.16	160	930
	5/10/2017	3.0	150	100	0.44	7.83	340	860
	6/27/2017	2.8	130	110	0.67	7.49	250	930
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	9/7/2017	2.8	120	120	0.77	7.37	290	920
	11/15/2017	4.1	140	120	0.77	7.10	270	1,000
	5/1/2018	3.2	150	130	0.65	7.31	280	990
	10/3/2018	2.5	110	140	0.89	7.60	200	860
	5/29/2019	2.8	100	140	0.84	7.53	260	860
	12/5/2019	3.7	120	110	0.93	7.21	190	940
	5/27/2020	2.3	100	170	0.90	7.29	280	850
	11/3/2020	3.7	130	140	0.87	7.02	180	920
	5/25/2021	3.0	160	130	0.62	7.16	160	910
	11/23/2021	2.7	110	130	0.71	7.07	230	990
	2/24/2022	2.6	130	120	0.53	7.02	170	840
	6/14/2022	2.9	100	140	0.86	6.99	280	790
	8/25/2022	2.6	130	140	0.99	7.47	280	910
	11/16/2022	4.4	130	160	0.94	7.15	220	910
	2/23/2023	3.7	140	140	0.71	7.11	250	930
	4/26/2023	2.8	99	150	0.94	7.23	250	900
	7/26/2023	3.7	120	150	0.81	7.37	260	910
	10/24/2023	2.9	99	160	0.89	7.19	230	920
	2/7/2024	3.7	130	120	0.69	6.94	290	910
	5/8/2024	2.7	110	130	0.81	7.23	290	860
MW-11 down-gradient	11/10/2015	2.6	120	89	0.61	7.60	180	620
	2/16/2016	3.0	100	88	0.68	7.47	170	640
	5/25/2016	2.8	82	98	0.75	7.43	170	640
	8/10/2016	3.1	96	86	0.72	7.57	150	660
	10/26/2016	2.5	110	67	0.53	7.82	120	630
	2/1/2017	3.9	110	72	0.65	7.54	110	600
	5/10/2017	3.1	95	84	0.46	8.37	170	590
	6/27/2017	2.8	87	90	0.59	7.57	150	680
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	9/7/2017	2.8	90	94	0.58	7.40	150	730
	11/15/2017	2.9	96	100	0.65	7.41	160	750
	5/3/2018	3.8	73	110	0.69	6.74	190	670
	10/3/2018	3.1	78	110	0.66	7.65	120	680
	5/29/2019	2.2	86	110	0.49	7.55	120	610
	12/5/2019	2.5	100	80	0.55	7.26	91	600
	5/26/2020	2.3	89	100	0.54	7.4	90	540
	11/3/2020	4.3	85	140	0.72	7.17	68	710
	5/25/2021	3.8	94	130	0.74	7.68	57	660
	11/23/2021	2.0	130	150	0.48	6.94	94	810
	12/22/2021 R	NA	NA	150	NA	7.03	NA	NA
	2/23/2022	1.8	130	150	0.38	6.94	91	760
	6/13/2022	2.8	120	140	0.40	7.22	97	700
	8/23/2022	2.5	110	140	0.53	6.94	160	740
	11/16/2022	3.8	120	130	0.71	7.34	66	700
	2/21/2023	2.2	120	130	0.45	7.08	81	710
	4/25/2023	2.8	110	130	0.53	7.14	75	730
	7/25/2023	2.2	120	120	0.46	7.12	80	740
	10/19/2023	3.0	120	120	0.55	7.12	74	770
	2/5/2024	2.4	120	130	0.45	7.12	78	730
	5/6/2024	2.9	110	120	0.52	7.37	68	720
MW-12 down-gradient	11/10/2015	2.3	150	160	0.59	7.44	290	1,000
	2/16/2016	1.8	130	140	0.52	7.38	220	850
	5/25/2016	1.9	130	150	0.54	7.23	250	890
	8/10/2016	2.4	170	140	0.49	7.20	280	1000
	10/26/2016	2.6	140	120	0.49	7.44	220	980
	2/1/2017	2.0	160	120	0.40	7.30	150	900
	5/10/2017	2.3	200	240	0.30	7.65	260	1,300
	6/27/2017	2.4	180	280	0.44	7.31	260	1,300
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	9/6/2017	2.6	190	270	0.49	7.26	260	1,400
	11/15/2017	1.7	55	200	0.47	6.90	250	1,200
	5/3/2018	1.8	140	170	0.47	6.60	170	960
	10/2/2018	F1 2.2	150	160	0.49	7.30	170	1,100
	5/29/2019	1.9	140	140	0.42	7.23	190	930
	12/5/2019	2.1	140	71	0.53	7.02	110	820
	5/22/2020	1.9	180	120	0.4	6.95	140	1,100
	11/3/2020	2.2	160	190	0.52	7.27	160	1,000
	5/25/2021	1.8	140	170	0.49	7.37	180	930
	11/23/2021	2.3	180	210	0.44	7.01	180	1,200
	2/24/2022	1.7	150	150	0.4	7.06	150	1,000
	6/13/2022	1.9	160	210	0.45	7.03	170	1,000
	8/23/2022	1.9	150	170	0.37	6.62	160	1,000
	11/16/2022	2.3	160	180	0.97	7.34	180	1,000
	2/21/2023	1.6	150	150	0.41	7.15	180	980
	4/25/2023	1.8	150	170	0.42	6.91	180	980
	7/25/2023	2.1	180	180	0.44	6.96	190	1,100
	10/19/2023	2.2	180	180	0.47	6.99	170	1,100
	2/5/2024	2.2	170	140	0.36	7.07	160	1,100
	5/6/2024	1.9	180	190	0.42	7.02	160	1,100
MW-16 down-gradient	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	2/5/2024	1.0	130	160	0.36	6.98	170	930
	5/6/2024	0.82	130	150	0.41	7.24	150	840
MW-17 down-gradient	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	2/5/2024	3.1	65	130	0.85	8.39	340	850
	5/6/2024	3.1	63	120	0.79	8.58	330	820

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

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

** - Based on pooled background from MW-5/MW-6. All others based on MW-6 as background.

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

BOLD - Potential statistically significant increase relative to interwell Prediction Limit.

NA - Not analyzed. No confirmation resample required.

R - Resample

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

Table 3. Appendix IV Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-05 up-gradient	11/11/2015	< 0.003	0.0014	0.071	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	0.013	< 0.0002	0.0750	-0.168	0.031	< 0.002
	2/18/2016	< 0.003	0.0021	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	0.017	< 0.0002	0.079	0.468	0.019	< 0.002
	5/26/2016	< 0.003	0.0023	0.055	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.011	< 0.0002	0.077	< 0.402	0.019	< 0.002
	8/10/2016	< 0.003	0.0044	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	0.72	< 0.0005	< 0.010	F1 < 0.0002	0.14	< 0.394	0.0049	< 0.002
	10/26/2016	< 0.003	0.0047	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	0.70	< 0.0005	< 0.01	< 0.0002	0.12	0.592	< 0.0025	< 0.002
	2/1/2017	< 0.003	0.0015	0.058	* < 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.016	^ < 0.0002	0.048	< 0.424	0.029	< 0.002
	5/11/2017	< 0.003	0.0035	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	< 0.01	< 0.0002	0.093	< 0.388	< 0.0025	< 0.002
	6/27/2017	< 0.003	0.0037	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	0.53	< 0.0005	< 0.01	< 0.0002	0.11	0.412	< 0.0025	< 0.002
	9/8/2017	< 0.003	0.0038	V 0.069	< 0.001	< 0.0005	< 0.005	< 0.001	0.52	< 0.0005	< 0.01	< 0.0002	0.095	0.486	0.0047	< 0.002
	11/16/2017	< 0.003	0.0028	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	0.45	< 0.0005	0.021	< 0.0002	0.064	< 0.379	0.012	< 0.002
	5/2/2018	NA	NA	NA	NA	NA	NA	NA	0.39	NA	NA	NA	NA	NA	NA	NA
	5/24/2021	< 0.003	0.0011	0.046	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.53	< 0.0005	0.015	< 0.0002	0.063	< 0.492	0.042	< 0.002
	11/23/2021	< 0.003	0.0035	0.066	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.017	< 0.0002	0.066	0.784	0.012	< 0.002
	2/24/2022	< 0.003	0.0092	0.077	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.39	< 0.0005	0.014	< 0.0002	0.059	< 0.415	0.048	< 0.002
	6/16/2022	< 0.003	0.0037	0.055	< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	0.011	< 0.0002	0.064	< 0.471	0.008	< 0.002
	GWPS	NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS
	8/25/2022	< 0.003	0.0043	0.1	< 0.001	^1+ < 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.016	< 0.0002	0.061	< 0.6	0.0056	< 0.002
	11/15/2022	< 0.003	0.032	0.1	^+ < 0.001	0.004	0.0083	< 0.001	0.7	< 0.0005	0.02	< 0.0002	0.1	< 0.6	0.089	< 0.002
	12/29/2022 (R)	NS	0.0094	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.10	NS
	2/23/2023	< 0.003	0.0018	0.1	^1+ ^+ < 0.001	< 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.012	0.00027	0.067	< 0.7	0.02	< 0.002
	4/26/2023	< 0.0030	0.0022	0.040	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.47	< 0.00050	0.013	< 0.00020	0.055	< 0.479	0.039	< 0.0020
	7/26/2023	< 0.0030	0.0014	0.061	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.50	< 0.00050	0.021	< 0.00020	0.053	0.823	0.070	< 0.0020
	8/29/2023 (R)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.069	NS
	10/24/2023	< 0.0030	0.0014	0.074	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.52	< 0.00050	0.023	< 0.00020	0.071	< 0.967	0.077	< 0.0020
	2/7/2024	^1+ < 0.030	0.0018	0.060	^1+ < 0.010	^+ < 0.00050	< 0.0050	^+ < 0.0010	0.32	< 0.00050	0.017	< 0.00020	0.046	< 0.655	0.055	^+ < 0.0020
	5/8/2024	< 0.0030	0.0020	0.033	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.65	< 0.00050	< 0.050	< 0.00020	0.079	< 0.629	0.0054	< 0.0020
MW-06 up-gradient	11/10/2015	< 0.003	0.0016	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.55	< 0.0005	0.011	< 0.0002	0.0670	-0.383	0.0039	< 0.002
	2/18/2016	< 0.003	0.0014	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	0.47	< 0.0005	0.015	< 0.0002	0.0630	0.412	< 0.0025	< 0.002
	5/26/2016	< 0.003	0.002	0.068	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.012	< 0.0002	0.042	< 0.422	< 0.0025	< 0.002
	8/11/2016	< 0.003	0.0029	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.017	< 0.0002	0.038	< 0.339	< 0.0025	< 0.002
	10/26/2016	< 0.003	0.003	0.074	< 0.001	< 0.0005	< 0.005	< 0.001	0.40	< 0.0005	0.013	< 0.0002	0.043	< 0.531	< 0.0025	< 0.002
	2/1/2017	< 0.003	0.0043	0.068	* < 0.001	< 0.0005	< 0.005	< 0.001	0.41	< 0.0005	0.012	^ < 0.0002	0.05	< 0.511	0.0035	< 0.002
	5/11/2017	< 0.003	0.002	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	0.28	0.00054	0.011	< 0.0002	0.054	< 0.388	< 0.0025	< 0.002
	6/27/2017	< 0.003	0.0014	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	0.38	< 0.0005	0.012	< 0.0002	0.046	0.408	< 0.0025	< 0.002
	9/7/2017	< 0.003	0.0025	0.077	< 0.001	< 0.0005	< 0.005	< 0.001	0.40	< 0.0005	0.013	< 0.0002	0.044	0.397	< 0.0025	< 0.002
	11/16/2017	< 0.003	0.0028	0.077	< 0.001	< 0.0005	< 0.005	< 0.001	0.39	< 0.0005	0.017	< 0.0002	0.038	0.491	0.012	< 0.002
	5/3/2018	NA	NA	NA	NA	NA	NA	NA	0.26	NA	NA	NA	NA	NA	NA	NA
	5/24/2021	< 0.003	0.0025	0.08	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.016	< 0.0002	0.017	0.576	< 0.0025	< 0.002
	11/23/2021	< 0.003	0.002	0.07	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.37	< 0.0005	0.014	< 0.0002	0.017	1.020	< 0.0025	< 0.002
	2/22/2022	< 0.003	0.0019	0.09	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.018	< 0.0002	0.033	0.551	0.05	< 0.002
	6/14/2022	< 0.003	0.0018	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.014	< 0.0002	0.018	1.220	< 0.0025	< 0.002
	GWPS	NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS
	8/25/2022	< 0.003	0.0023	0.1	< 0.001	^1+ < 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.018	< 0.0002	0.021	< 0.519	< 0.0025	< 0.002
	11/16/2022	< 0.003	0.0017	0.1	^+ < 0.001	< 0.0005	< 0.005	< 0.001	0.5	< 0.0005	0.016	< 0.0002	0.021	1.080	< 0.0025	< 0.002
	2/23/2023	< 0.003	0.0023	0.1	^1+ ^+ < 0.001	< 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.016	< 0.0002	0.023	0.948	0.022	< 0.002
	4/26/2023	< 0.0030	0.0023	0.070	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.36	< 0.00050	0.014	< 0.00020	0.019	< 0.422	< 0.0025	< 0.0020
	7/26/2023	< 0.0030	0.0022	0.083	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.42	< 0.00050	0.018	< 0.00020	0.022	< 0.653	< 0.0025	< 0.0020
	10/24/2023	< 0.0030	0.0025	0.079	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.40	< 0.00050	0.020	< 0.00020	0.021	< 0.482	< 0.0025	< 0.0020
	2/7/2024	^1+ < 0.030	0.0017	0.077	^1+ < 0.010	^+ < 0.00050	< 0.0050	^+ < 0.0010	0.39	< 0.00050	0.015	< 0.00020				

Table 3. Appendix IV Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-10 down-gradient	11/10/2015	< 0.003	0.015	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.77	< 0.0005	0.018	< 0.0002	0.068	1.341	< 0.0025	< 0.002
	2/16/2016	< 0.003	0.014	0.098	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.79	< 0.0005	0.021	< 0.0002	0.075	0.952	< 0.0025	< 0.002
	5/25/2016	< 0.003	0.034	0.096	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.83	< 0.00055	0.016	< 0.0002	0.065	0.51	< 0.0025	< 0.002
	8/10/2016	< 0.003	0.017	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.78	< 0.0005	0.021	< 0.0002	0.082	0.864	< 0.0025	< 0.002
	10/26/2016	< 0.003	0.022	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.52	< 0.0005	0.021	< 0.0002	0.030	0.458	< 0.0025	< 0.002
	2/2/2017	< 0.003	0.05	0.14	* < 0.001	< 0.0005	< 0.005	< 0.001	0.54	< 0.0013	0.02	^ < 0.0002	0.031	< 0.464	< 0.0025	< 0.002
	5/10/2017	< 0.003	0.02	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.015	< 0.0002	0.066	0.882	< 0.0025	< 0.002
	6/27/2017	< 0.003	0.0072	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.67	< 0.0005	0.017	< 0.0002	0.080	0.953	< 0.0025	< 0.002
	9/7/2017	< 0.003	0.0076	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.77	< 0.0005	0.014	0.00058	0.096	0.921	< 0.0025	< 0.002
	11/15/2017	< 0.003	0.015	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.77	< 0.0005	0.021	< 0.0002	0.071	0.893	< 0.0025	< 0.002
	5/1/2018	NA	NA	NA	NA	NA	NA	NA	0.65	NA	NA	NA	NA	NA	NA	NA
	5/25/2021	< 0.003	0.018	0.18	^1+ < 0.001	< 0.0005	< 0.005	0.0013	0.62	0.0054	0.02	< 0.0002	0.036	< 1.14	< 0.0025	< 0.002
	11/23/2021	< 0.003	0.012	0.091	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.71	0.0011	0.013	< 0.0002	0.048	2.22	< 0.0025	< 0.002
	2/24/2022	< 0.003	0.0072	0.1	^1+ < 0.001	< 0.0005	< 0.005	0.0012	0.53	0.001	0.014	< 0.0002	0.043	0.77	< 0.0025	< 0.002
	6/14/2022	< 0.003	0.008	0.081	< 0.001	< 0.0005	< 0.005	< 0.001	0.86	< 0.0005	0.015	< 0.0002	0.12	1.55	< 0.0025	< 0.002
	GWPS	NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS
	8/25/2022	< 0.003	0.019	0.11	< 0.001	^1+ < 0.0005	0.0053	0.001	0.99	0.0077	0.015	< 0.0002	0.12	1.20	< 0.0025	< 0.002
	9/28/2022 (R)	NA	0.0088	NA	NA	NA	NA	NA	0.65	0.00093	NA	NA	NA	NA	NA	NA
	11/16/2022	< 0.003	0.015	0.1	^+ < 0.001	< 0.0005	< 0.005	< 0.001	0.94	0.002	0.018	< 0.0002	0.097	2.74	< 0.0025	< 0.002
	12/29/2022 (R)	NS	0.071	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/23/2023	< 0.003	0.015	0.12	^1+ ^+ < 0.001	< 0.0005	< 0.005	< 0.001	0.71	0.0008	0.016	< 0.0002	0.073	1.35	< 0.0025	< 0.002
	4/26/2023	< 0.0030	0.013	0.079	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.94	0.00067	0.015	< 0.00020	0.12	1.37	< 0.0025	< 0.0020
	6/8/2023(R)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.14	NA	NA	NA
	7/26/2023	< 0.0030	0.017	0.0990	< 0.0010	< 0.0005	< 0.0050	< 0.0010	0.8100	< 0.0005	0.0170	< 0.0002	0.097	0.9590	< 0.0025	< 0.0020
	10/24/2023	< 0.0030	0.0087	0.083	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.89	< 0.00050	0.015	< 0.00020	0.12	1.30	0.0025	0.0020
	2/7/2024	^1+ < 0.030	0.012	0.11	^1+ < 0.010	< 0.00050	< 0.0050	< 0.0010	0.69	< 0.00050	0.016	< 0.00020	0.082	1.52	0.0025	0.0020
	5/8/2024	< 0.0030	0.012	0.079	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.81	< 0.00050	0.016	< 0.00020	0.11	0.831	0.0025	0.0020
MW-11 down-gradient	11/10/2015	< 0.003	0.007	0.098	< 0.001	< 0.0005	< 0.005	< 0.001	0.61	0.00064	< 0.01	< 0.0002	0.0600	0.736	< 0.0025	< 0.002
	2/16/2016	< 0.003	0.0059	0.11	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.68	< 0.0005	0.012	< 0.0002	0.078	1.14	< 0.0025	< 0.002
	5/25/2016	< 0.003	0.0073	0.093	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.75	< 0.0005	< 0.01	< 0.0002	0.083	0.775	< 0.0025	< 0.002
	8/10/2016	< 0.003	0.0072	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	0.72	< 0.0005	< 0.010	< 0.0002	0.087	0.807	< 0.0025	< 0.002
	10/26/2016	< 0.003	0.0082	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.53	0.00052	< 0.01	< 0.0002	0.043	0.51	< 0.0025	< 0.002
	2/1/2017	< 0.003	0.011	0.15	* < 0.001	< 0.0005	< 0.005	< 0.001	0.65	< 0.0005	< 0.01	< 0.0002	0.076	0.909	< 0.0025	< 0.002
	5/10/2017	< 0.003	0.014	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	0.46	< 0.0005	< 0.01	< 0.0002	0.074	1.03	< 0.0025	< 0.002
	6/27/2017	< 0.003	0.0058	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.59	< 0.0005	< 0.01	< 0.0002	0.069	0.692	< 0.0025	< 0.002
	9/7/2017	< 0.003	0.0074	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.58	< 0.0005	< 0.01	< 0.0002	0.067	0.676	< 0.0025	< 0.002
	11/15/2017	< 0.003	0.0082	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	0.65	< 0.0005	< 0.01	< 0.0002	0.075	1.04	< 0.0025	< 0.002
	5/3/2018	NA	NA	NA	NA	NA	NA	NA	0.69	NA	NA	NA	NA	NA	NA	NA
	5/25/2021	< 0.003	0.0067	0.16	^1+< 0.001	< 0.0005	< 0.005	< 0.001	0.74	< 0.0005	< 0.01	< 0.0002	0.077	1.29	< 0.0025	< 0.002
	11/23/2021	< 0.003	0.0085	0.11	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.48	< 0.0005	< 0.01	< 0.0002	0.025	2.35	< 0.0025	< 0.002
	2/23/2022	< 0.003	0.013	0.12	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.38	0.0006	0.011	< 0.0002	0.031	1.65	< 0.0025	< 0.002
	6/13/2022	< 0.003	0.0088	0.17	< 0.001	< 0.0005	< 0.005	0.0022	0.4	0.0018	0.011	< 0.0002	0.058	1.44	< 0.0025	< 0.002
	GWPS	NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS
	8/23/2022	< 0.003	0.0082	0.1	< 0.001	^1+ < 0.0005	< 0.005	< 0.001	0.5	< 0.0005	< 0.01	< 0.0002	0.033	2.0	< 0.0025	< 0.002
	11/16/2022	< 0.003	0.013	0.1	^+ < 0.001	< 0.0005	< 0.005	0.0015	0.7	0.0014	0.01	< 0.0002	0.052	1.6	< 0.0025	< 0.002
	12/29/2022 (R)	NS	0.015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/21/2023	< 0.003	0.016	0.2	< 0.001	< 0.0005	< 0.005	< 0.001	0.5	0.00096	< 0.01	< 0.0002	0.037	1.6	< 0.0025	< 0.002
	4/25/2023	< 0.0030	0.015	0.18	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.53	< 0.00050	< 0.010	< 0.00020	0.043	< 0.734	< 0.0025	< 0.0020
	7/25/2023	< 0.0030	0.0077	0.14	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.46	< 0.00050	< 0.010	< 0.00020	0.031	1.02	< 0.0025	< 0.0020
	10/19/2023	< 0.0030	0.010	0.16	** ^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	0.55	< 0.00050	< 0.010	< 0.00020	0			

Table 3. Appendix IV Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium
MW-16 down-gradient	GWPS	NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS
	<i>2/5/2024</i>	[^] 1+ < 0.0030	0.0022	0.083	[^] + < 0.0010	< 0.00050	< 0.0050	0.0014	0.36	< 0.00050	< 0.10	< 0.00020	0.012	1.21	< 0.0025	< 0.0020
	<i>5/6/2024</i>	< 0.0030	0.0031	0.072	< 0.0010	< 0.00050	< 0.0050	0.0014	0.41	< 0.00050	0.014	< 0.00020	0.012	0.728	< 0.0025	< 0.0020
MW-17 down-gradient	GWPS	NS	0.01	2.0	0.004	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS
	<i>2/5/2024</i>	[^] 1+ < 0.0030	0.0052	0.050	[^] + < 0.0010	< 0.00050	< 0.0050	< 0.0010	0.85	< 0.00050	< 0.10	< 0.00020	0.14	< 0.536	< 0.0025	< 0.0020
	<i>5/6/2024</i>	< 0.0030	0.0054	0.049	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.79	< 0.00050	< 0.050	< 0.00020	0.13	< 0.655	< 0.0025	< 0.0020

Notes:
All statistics use the detection limit for non-detect results.
All units are in mg/L except Radium is in pCi/L as noted.
Italics - Assessment Monitoring Conducted After Identification of Detected Appendix IV Compounds.

NS - No Standard
DNYA - Data Not Yet Available
R - Resample
GWPS - Groundwater Protection Standard

F1 - MS and/or MSD Recovery outside of limits.
[^] - Denotes instrument related QC exceeds the control limits.
* - LCS or LCSD is outside acceptance limits.
NA- Not Analyzed; non-detect in previous monitoring.

[^]1 or [^]+ - Initial or continuing calibration verification limits is outside acceptable limits, high biased.
BOLD - Exceeds established GWPS.
GWPS- Groundwater Protection Standard

FIGURES



W:\projects\midwest\generation\attorney-client\privilege\pw evaluations\will county map.dwg

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, inc.

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

14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

CCR MONITORING WELL SITE MAP

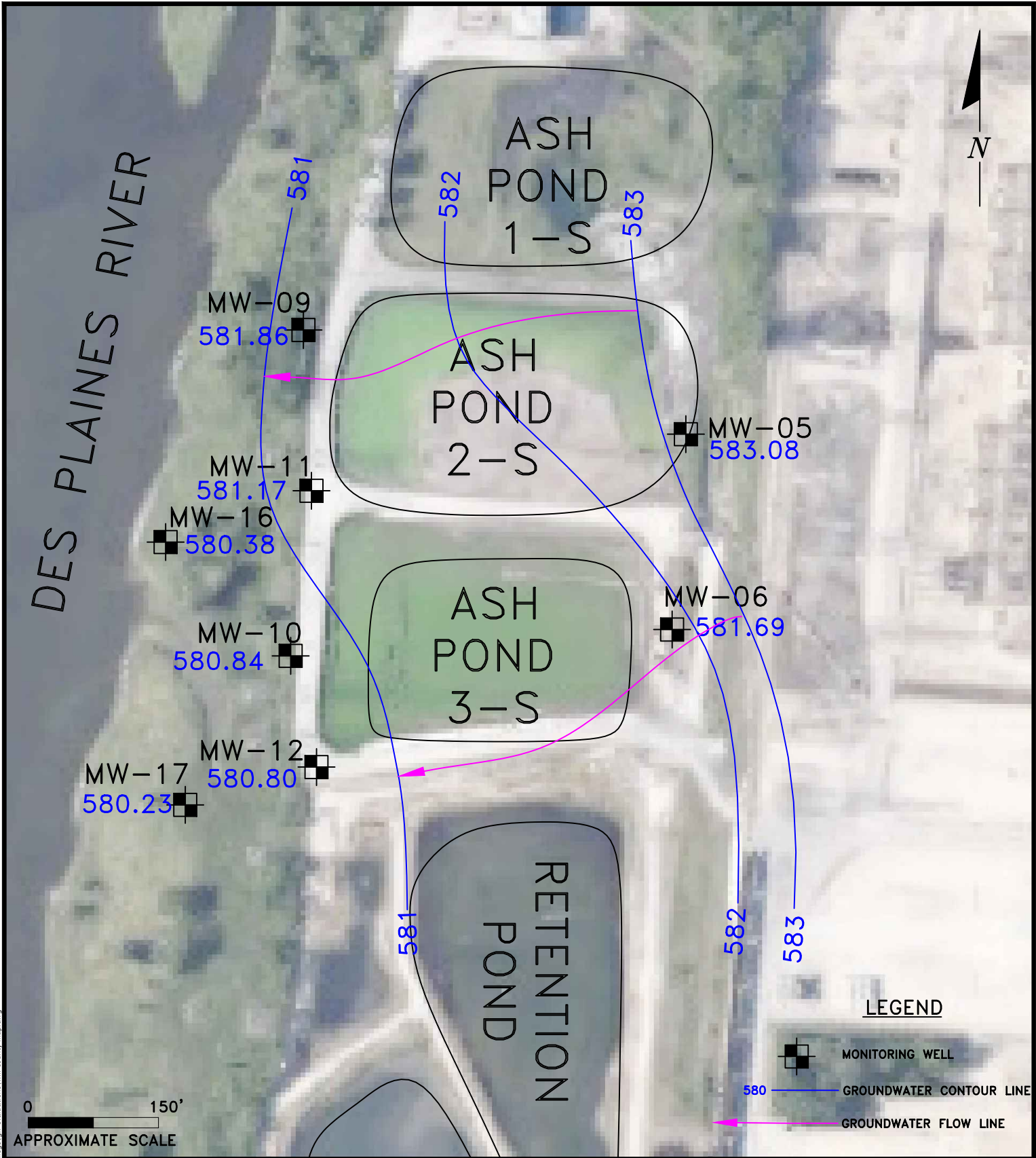
WILL COUNTY STATION
ROMEDEVILLE, ILLINOIS

Scale: 1" = 150'

Date: August 1, 2024

KPRG Project No. 12313.3

FIGURE 1



ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

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14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

GROUNDWATER CONTOUR MAY 2024

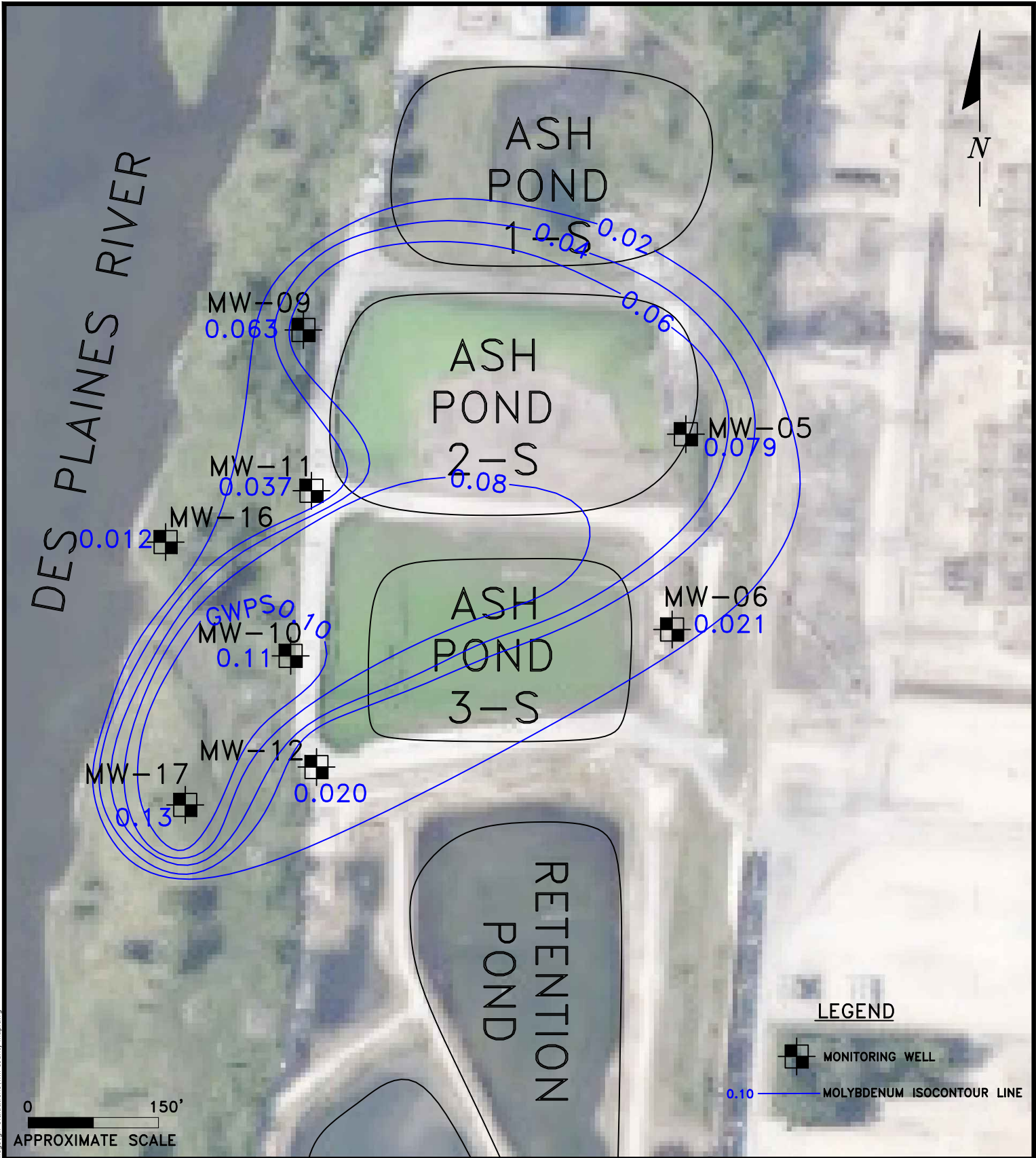
WILL COUNTY STATION
ROMEVOILLE, ILLINOIS

Scale: 1" = 150'

Date: October 8, 2024

KPRG Project No. 12313.31

FIGURE 2



ENVIRONMENTAL CONSULTATION & REMEDIATION

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14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

MOLYBDENUM CONCENTRATION MAP MAY 2024

WILL COUNTY STATION
ROMEDEVILLE, ILLINOIS

Scale: 1" = 150'

Date: September 9, 2024

KPRG Project No. 12313.31

FIGURE 4



ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, inc.

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

14665 West Lisbon Road, Suite 28 Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

PROPOSED ADDITIONAL ASSESSMENT MONITORING WELLS

WILL COUNTY STATION
ROMEDEVILLE, ILLINOIS

Scale: 1" = 150'

Date: October 7, 2024

KPRG Project No. 12313.31

FIGURE 5

APPENDIX A

Boring Logs, Well Construction Summaries and Survey Data

K P R G

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

GEOLOGIC LOG OF MW-16

(Page 1 of 1)

Midwest Generation, LLC
Will County Station
Romeoville, Illinois

Project No. 12313

Date Started : 12/18/23
Date Well Set : 12/18/23
Drilling Tools : 4 1/4" HSA
Bedrock Tools : 4" Tri-cone
Drill Rig : Deitrich D-120
Driller Name/Co : J. Luna / Earth SolutionsTotal Boring Depth : 15.0 feet
Well Bottom Depth : 12.5 feet
Surface Elev. : 582.35 feet above MSL
TOC Elev. : 585.26 feet above MSL
Groundwater Elev. : 580.44 feet above MSL
Riser Material : 2" Sch 40 PVC
Screen Material : 2" Sch 40 PVC, 0.010 slot
Coordinate N : 1809024.869
Coordinate E : 1056688.113
Logged By : J. Misner & K. SperleDepth
in
Feet

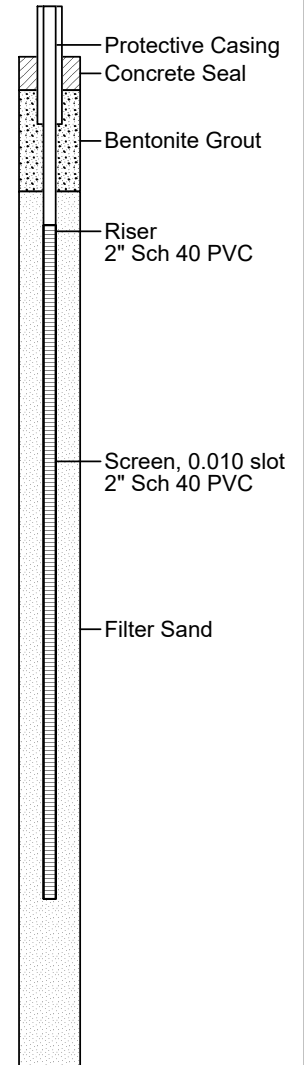
Surf. Elev. X

DESCRIPTION

% RQD

% Recovery

Well Diagram:



Roadway of Sand and Gravel, dry.

SAND and GRAVEL, Dark Brown, fine to medium, very moist.

BEDROCK, Gray/Tan DOLOMITE with Light Brown specks, wet.

Darker Tan DOLOMITE, wet.

Yellow/Brown DOLOMITE, wet.

Tan/Brown DOLOMITE, cherty with Dark Gray, wet.

End of Boring at 15 feet.

GEOLOGIC LOG OF MW-17

(Page 1 of 1)

Midwest Generation, LLC
Will County Station
Romeoville, Illinois

Project No. 12313

Date Started : 12/18/23
Date Well Set : 12/19/23
Drilling Tools : 4 1/4" HSA
Bedrock Tools : 4" Tri-cone
Drill Rig : Deitrich D-120
Driller Name/Co : J. Luna / Earth Solutions

Total Boring Depth : 13.0 feet
Well Bottom Depth : 12.5 feet
Surface Elev. : 581.96 feet above MSL
TOC Elev. : 585.43 feet above MSL
Groundwater Elev. : 580.27 feet above MSL
Riser Material : 2" Sch 40 PVC
Screen Material : 2" Sch 40 PVC, 0.010 slot
Coordinate N : 1808719.786
Coordinate E : 1056741.710
Logged By : J. Misner & K. Sperle

Depth
in
Feet

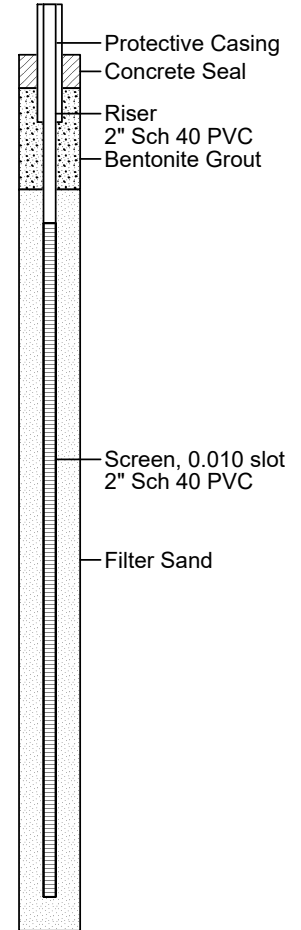
Surf. Elev. X

DESCRIPTION

% RQD

% Recovery

Well Diagram:



Roadway of Sand and Gravel, dry.

SAND and GRAVEL, Dark Brown, fine to medium, very moist.

BEDROCK, Tan/Brown DOLOMITE, cherty, wet.

White/Gray DOLOMITE with Tan specks, cherty, wet.

White DOLOMITE, wet.

End of Boring at 13 feet.



Ruettiger, Tonelli & Associates, Inc.

Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants

**MIDWEST GENERATION, LLC
JOLIET/LINCOLN STONE QUARRY
MONITORING WELL SURVEY**

	<u>NORTH</u>	<u>EAST</u>	<u>TOP OF</u> <u>LID</u>	<u>TOP OF</u> <u>CASE</u>	<u>TOP OF</u> <u>WELL</u>	<u>GROUND/</u> <u>CONCRETE</u>
MW-16	1809024.869	1056688.113	585.51	585.50	585.26	582.35
MW-17	1808719.786	1056741.710	585.72	585.71	585.43	581.96

Horizontal: Illinois State Plane Coordinate System East Zone (NAD 83)

Vertical Datum: NAVD 88

N:\Clerical\2008\0668\Monitoring Well Survey_Joliet _02-02-2024.doc

APPENDIX B
Analytical Data Packages

ANALYTICAL REPORT

PREPARED FOR

Attn: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 3/5/2024 1:57:56 PM

JOB DESCRIPTION

Will County CCR 2S/3S

JOB NUMBER

500-245763-1

Eurofins Chicago

Job Notes

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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: Will County CCR 2S/3S

Job ID: 500-245763-1

Job ID: 500-245763-1

Eurofins Chicago

Job Narrative 500-245763-1

Receipt

The samples were received on 2/6/2024 4:03 PM and 2/8/2024 9:02 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.4°C, 1.6°C and 2.4°C.

Metals

Method 6020B - Total Recoverable: The continuing calibration verification (CCV) associated with batch 753405 recovered above the upper control limit for Be. The samples associated with this CCV were below the reporting limit for the affected analyte; therefore, the data have been reported.

Method 6020B - Total Recoverable: The initial low level calibration verification (ICVL) result for batch 753405 was above the upper control limit. The affected analytes are: Sb. Sample results were below the reporting limit, and have been reported as qualified data.

Method 6020B - Total Recoverable: The continuing calibration verification (CCV) associated with batch 753633 recovered above the upper control limit for arsenic, cadmium, cobalt, nickel, selenium, thallium, and vanadium. The samples associated with this CCV were below the reporting 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

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: Will County CCR 2S/3S

Job ID: 500-245763-1

Method	Method Description	Protocol	Laboratory
6020B	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
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

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: Will County CCR 2S/3S

Job ID: 500-245763-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-245763-1	MW-11	Water	02/05/24 14:17	02/06/24 16:03
500-245763-2	MW-12	Water	02/05/24 11:35	02/06/24 16:03
500-245763-3	2S/3S Duplicate	Water	02/05/24 00:00	02/06/24 16:03
500-245763-4	MW-16	Water	02/05/24 13:26	02/06/24 16:03
500-245763-5	MW-17	Water	02/05/24 12:23	02/06/24 16:03
500-245763-6	MW-05	Water	02/07/24 09:10	02/08/24 09:02
500-245763-7	MW-06	Water	02/07/24 10:21	02/08/24 09:02
500-245763-8	MW-09	Water	02/07/24 12:58	02/08/24 09:02
500-245763-9	MW-10	Water	02/07/24 11:27	02/08/24 09:02

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-11

Lab Sample ID: 500-245763-1

Date Collected: 02/05/24 14:17

Matrix: Water

Date Received: 02/06/24 16:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.025		0.0010		mg/L		02/07/24 09:01	02/08/24 19:07	1
Boron	2.4		0.50		mg/L		02/07/24 09:01	02/14/24 13:47	10
Barium	0.18		0.0025		mg/L		02/07/24 09:01	02/08/24 19:07	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:07	1
Calcium	120		0.20		mg/L		02/07/24 09:01	02/08/24 19:07	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:07	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:07	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:07	1
Molybdenum	0.029		0.0050		mg/L		02/07/24 09:01	02/08/24 19:07	1
Lead	0.00056		0.00050		mg/L		02/07/24 09:01	02/08/24 19:07	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:07	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:07	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:07	1
Lithium	<0.10	F1	0.10		mg/L		02/07/24 09:01	02/14/24 13:47	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	730		10		mg/L			02/06/24 22:06	1
Chloride (SM 4500 Cl- E)	130		10		mg/L			02/07/24 15:32	5
Fluoride (SM 4500 F C)	0.45		0.10		mg/L			03/04/24 16:16	1
Sulfate (SM 4500 SO4 E)	78		10		mg/L			02/20/24 12:08	2

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-12

Lab Sample ID: 500-245763-2

Date Collected: 02/05/24 11:35

Matrix: Water

Date Received: 02/06/24 16:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0017		0.0010		mg/L		02/07/24 09:01	02/08/24 19:24	1
Boron	2.2		0.50		mg/L		02/07/24 09:01	02/14/24 14:07	10
Barium	0.18		0.0025		mg/L		02/07/24 09:01	02/08/24 19:24	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:24	1
Calcium	170		0.20		mg/L		02/07/24 09:01	02/08/24 19:24	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:24	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:24	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:24	1
Molybdenum	0.024		0.0050		mg/L		02/07/24 09:01	02/08/24 19:24	1
Lead	0.00060		0.00050		mg/L		02/07/24 09:01	02/08/24 19:24	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:24	1
Selenium	0.0044		0.0025		mg/L		02/07/24 09:01	02/08/24 19:24	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:24	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:07	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			02/06/24 22:09	1
Chloride (SM 4500 Cl- E)	140		10		mg/L			02/07/24 13:28	5
Fluoride (SM 4500 F C)	0.36		0.10		mg/L			03/04/24 16:21	1
Sulfate (SM 4500 SO4 E)	160		25		mg/L			02/20/24 12:09	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-245763-3

Date Collected: 02/05/24 00:00

Matrix: Water

Date Received: 02/06/24 16:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0022		0.0010		mg/L		02/07/24 09:01	02/08/24 19:28	1
Boron	0.95		0.50		mg/L		02/07/24 09:01	02/14/24 14:11	10
Barium	0.082		0.0025		mg/L		02/07/24 09:01	02/08/24 19:28	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:28	1
Calcium	120		0.20		mg/L		02/07/24 09:01	02/08/24 19:28	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:28	1
Cobalt	0.0013		0.0010		mg/L		02/07/24 09:01	02/08/24 19:28	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:28	1
Molybdenum	0.012		0.0050		mg/L		02/07/24 09:01	02/08/24 19:28	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:28	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:28	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:28	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:28	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:11	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	900		10		mg/L			02/06/24 22:11	1
Chloride (SM 4500 Cl- E)	160		10		mg/L			02/07/24 13:28	5
Fluoride (SM 4500 F C)	0.36		0.10		mg/L			03/04/24 16:25	1
Sulfate (SM 4500 SO4 E)	170		25		mg/L			02/20/24 12:05	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-16

Lab Sample ID: 500-245763-4

Date Collected: 02/05/24 13:26

Matrix: Water

Date Received: 02/06/24 16:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0022		0.0010		mg/L		02/07/24 09:01	02/08/24 19:31	1
Boron	1.0		0.50		mg/L		02/07/24 09:01	02/14/24 14:15	10
Barium	0.083		0.0025		mg/L		02/07/24 09:01	02/08/24 19:31	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:31	1
Calcium	130		0.20		mg/L		02/07/24 09:01	02/08/24 19:31	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:31	1
Cobalt	0.0014		0.0010		mg/L		02/07/24 09:01	02/08/24 19:31	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:31	1
Molybdenum	0.012		0.0050		mg/L		02/07/24 09:01	02/08/24 19:31	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:31	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:31	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:31	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:31	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:15	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	930		10		mg/L			02/06/24 22:14	1
Chloride (SM 4500 Cl- E)	160		10		mg/L			02/07/24 13:31	5
Fluoride (SM 4500 F C)	0.36		0.10		mg/L			03/04/24 16:30	1
Sulfate (SM 4500 SO4 E)	170		25		mg/L			02/20/24 12:08	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-17

Lab Sample ID: 500-245763-5

Date Collected: 02/05/24 12:23

Matrix: Water

Date Received: 02/06/24 16:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0052		0.0010		mg/L		02/07/24 09:01	02/08/24 19:42	1
Boron	3.1		0.50		mg/L		02/07/24 09:01	02/14/24 14:19	10
Barium	0.050		0.0025		mg/L		02/07/24 09:01	02/08/24 19:42	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:42	1
Calcium	65		0.20		mg/L		02/07/24 09:01	02/08/24 19:42	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:42	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:42	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:42	1
Molybdenum	0.14		0.0050		mg/L		02/07/24 09:01	02/08/24 19:42	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:42	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:42	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:42	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:42	1
Lithium	<0.10		0.10		mg/L		02/07/24 09:01	02/14/24 14:19	10

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	850		10		mg/L			02/06/24 22:16	1
Chloride (SM 4500 Cl- E)	130		10		mg/L			02/07/24 13:31	5
Fluoride (SM 4500 F C)	0.85		0.10		mg/L			03/04/24 16:34	1
Sulfate (SM 4500 SO4 E)	340		50		mg/L			02/20/24 12:33	10

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-05

Lab Sample ID: 500-245763-6

Date Collected: 02/07/24 09:10

Matrix: Water

Date Received: 02/08/24 09:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0018		0.0010		mg/L		02/09/24 08:52	02/12/24 19:00	1
Boron	4.8		0.50		mg/L		02/09/24 08:52	02/13/24 15:15	10
Barium	0.060		0.0025		mg/L		02/09/24 08:52	02/12/24 19:00	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:15	10
Calcium	260		0.20		mg/L		02/09/24 08:52	02/12/24 19:00	1
Cadmium	<0.00050	^+	0.00050		mg/L		02/09/24 08:52	02/09/24 21:23	1
Cobalt	<0.0010	^+	0.0010		mg/L		02/09/24 08:52	02/09/24 21:23	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:00	1
Molybdenum	0.046		0.0050		mg/L		02/09/24 08:52	02/12/24 19:00	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:00	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:15	10
Selenium	0.055		0.0025		mg/L		02/09/24 08:52	02/12/24 19:00	1
Thallium	<0.0020	^+	0.0020		mg/L		02/09/24 08:52	02/09/24 21:23	1
Lithium	0.017		0.010		mg/L		02/09/24 08:52	02/12/24 19:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1900		10		mg/L			02/09/24 00:47	1
Chloride (SM 4500 Cl- E)	38		2.0		mg/L			02/11/24 14:24	1
Fluoride (SM 4500 F C)	0.32		0.10		mg/L			03/04/24 16:39	1
Sulfate (SM 4500 SO4 E)	800		100		mg/L			02/20/24 12:33	20

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-06

Lab Sample ID: 500-245763-7

Date Collected: 02/07/24 10:21

Matrix: Water

Date Received: 02/08/24 09:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0017		0.0010		mg/L		02/09/24 08:52	02/12/24 19:04	1
Boron	2.5		0.50		mg/L		02/09/24 08:52	02/13/24 15:26	10
Barium	0.077		0.0025		mg/L		02/09/24 08:52	02/12/24 19:04	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:26	10
Calcium	96		0.20		mg/L		02/09/24 08:52	02/12/24 19:04	1
Cadmium	<0.00050	^+	0.00050		mg/L		02/09/24 08:52	02/09/24 21:27	1
Cobalt	<0.0010	^+	0.0010		mg/L		02/09/24 08:52	02/09/24 21:27	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:04	1
Molybdenum	0.021		0.0050		mg/L		02/09/24 08:52	02/12/24 19:04	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:04	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:26	10
Selenium	<0.0025	^+	0.0025		mg/L		02/09/24 08:52	02/09/24 21:27	1
Thallium	<0.0020	^+	0.0020		mg/L		02/09/24 08:52	02/09/24 21:27	1
Lithium	0.015		0.010		mg/L		02/09/24 08:52	02/12/24 19:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	570		10		mg/L			02/09/24 00:49	1
Chloride (SM 4500 Cl- E)	12		2.0		mg/L			02/11/24 14:24	1
Fluoride (SM 4500 F C)	0.39		0.10		mg/L			03/04/24 16:44	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			02/20/24 12:33	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-09

Lab Sample ID: 500-245763-8

Date Collected: 02/07/24 12:58

Matrix: Water

Date Received: 02/08/24 09:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0082		0.0010		mg/L		02/09/24 08:52	02/09/24 21:38	1
Boron	2.1		0.50		mg/L		02/09/24 08:52	02/13/24 15:30	10
Barium	0.035		0.0025		mg/L		02/09/24 08:52	02/12/24 19:08	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:30	10
Calcium	39		0.20		mg/L		02/09/24 08:52	02/09/24 21:38	1
Cadmium	<0.00050		0.00050		mg/L		02/09/24 08:52	02/09/24 21:38	1
Cobalt	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 21:38	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:08	1
Molybdenum	0.068		0.0050		mg/L		02/09/24 08:52	02/09/24 21:38	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:08	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:30	10
Selenium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/09/24 21:38	1
Thallium	<0.0020		0.0020		mg/L		02/09/24 08:52	02/09/24 21:38	1
Lithium	<0.010		0.010		mg/L		02/09/24 08:52	02/12/24 19:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	680		10		mg/L			02/09/24 00:52	1
Chloride (SM 4500 Cl- E)	190		10		mg/L			02/11/24 14:42	5
Fluoride (SM 4500 F C)	0.60		0.10		mg/L			03/04/24 16:58	1
Sulfate (SM 4500 SO4 E)	230		25		mg/L			02/20/24 12:05	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-10

Lab Sample ID: 500-245763-9

Date Collected: 02/07/24 11:27

Matrix: Water

Date Received: 02/08/24 09:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012		0.0010		mg/L		02/09/24 08:52	02/09/24 21:42	1
Boron	3.7		0.50		mg/L		02/09/24 08:52	02/13/24 15:34	10
Barium	0.11		0.0025		mg/L		02/09/24 08:52	02/12/24 19:11	1
Beryllium	<0.010	^1+	0.010		mg/L		02/09/24 08:52	02/13/24 15:34	10
Calcium	130		0.20		mg/L		02/09/24 08:52	02/09/24 21:42	1
Cadmium	<0.00050		0.00050		mg/L		02/09/24 08:52	02/09/24 21:42	1
Cobalt	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 21:42	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 19:11	1
Molybdenum	0.082		0.0050		mg/L		02/09/24 08:52	02/09/24 21:42	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 19:11	1
Antimony	<0.030	^1+	0.030		mg/L		02/09/24 08:52	02/13/24 15:34	10
Selenium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/09/24 21:42	1
Thallium	<0.0020		0.0020		mg/L		02/09/24 08:52	02/09/24 21:42	1
Lithium	0.016		0.010		mg/L		02/09/24 08:52	02/12/24 19:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	910		10		mg/L			02/09/24 00:54	1
Chloride (SM 4500 Cl- E)	120		10		mg/L			02/21/24 15:14	5
Fluoride (SM 4500 F C)	0.69		0.10		mg/L			03/04/24 17:03	1
Sulfate (SM 4500 SO4 E)	290		50		mg/L			02/20/24 14:02	10

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

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.
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: Will County CCR 2S/3S

Job ID: 500-245763-1

Metals

Prep Batch: 752999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total Recoverable	Water	3005A	
500-245763-2	MW-12	Total Recoverable	Water	3005A	
500-245763-3	2S/3S Duplicate	Total Recoverable	Water	3005A	
500-245763-4	MW-16	Total Recoverable	Water	3005A	
500-245763-5	MW-17	Total Recoverable	Water	3005A	
MB 500-752999/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-752999/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-245763-1 MS	MW-11	Total Recoverable	Water	3005A	
500-245763-1 MSD	MW-11	Total Recoverable	Water	3005A	
500-245763-1 DU	MW-11	Total Recoverable	Water	3005A	

Analysis Batch: 753405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total Recoverable	Water	6020B	752999
500-245763-2	MW-12	Total Recoverable	Water	6020B	752999
500-245763-3	2S/3S Duplicate	Total Recoverable	Water	6020B	752999
500-245763-4	MW-16	Total Recoverable	Water	6020B	752999
500-245763-5	MW-17	Total Recoverable	Water	6020B	752999
MB 500-752999/1-A	Method Blank	Total Recoverable	Water	6020B	752999
LCS 500-752999/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752999
500-245763-1 MS	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 MSD	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 DU	MW-11	Total Recoverable	Water	6020B	752999

Prep Batch: 753415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	3005A	
500-245763-7	MW-06	Total Recoverable	Water	3005A	
500-245763-8	MW-09	Total Recoverable	Water	3005A	
500-245763-9	MW-10	Total Recoverable	Water	3005A	
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 753633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	6020B	753415
500-245763-7	MW-06	Total Recoverable	Water	6020B	753415
500-245763-8	MW-09	Total Recoverable	Water	6020B	753415
500-245763-9	MW-10	Total Recoverable	Water	6020B	753415
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	6020B	753415
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	6020B	753415

Analysis Batch: 753801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	6020B	753415
500-245763-7	MW-06	Total Recoverable	Water	6020B	753415
500-245763-8	MW-09	Total Recoverable	Water	6020B	753415
500-245763-9	MW-10	Total Recoverable	Water	6020B	753415
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	6020B	753415
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	6020B	753415

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Metals

Analysis Batch: 753991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total Recoverable	Water	6020B	753415
500-245763-7	MW-06	Total Recoverable	Water	6020B	753415
500-245763-8	MW-09	Total Recoverable	Water	6020B	753415
500-245763-9	MW-10	Total Recoverable	Water	6020B	753415
MB 500-753415/1-A	Method Blank	Total Recoverable	Water	6020B	753415
LCS 500-753415/2-A	Lab Control Sample	Total Recoverable	Water	6020B	753415

Analysis Batch: 754170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total Recoverable	Water	6020B	752999
500-245763-2	MW-12	Total Recoverable	Water	6020B	752999
500-245763-3	2S/3S Duplicate	Total Recoverable	Water	6020B	752999
500-245763-4	MW-16	Total Recoverable	Water	6020B	752999
500-245763-5	MW-17	Total Recoverable	Water	6020B	752999
MB 500-752999/1-A	Method Blank	Total Recoverable	Water	6020B	752999
LCS 500-752999/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752999
500-245763-1 MS	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 MSD	MW-11	Total Recoverable	Water	6020B	752999
500-245763-1 DU	MW-11	Total Recoverable	Water	6020B	752999

Prep Batch: 755030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	7470A	
500-245763-2	MW-12	Total/NA	Water	7470A	
500-245763-3	2S/3S Duplicate	Total/NA	Water	7470A	
500-245763-4	MW-16	Total/NA	Water	7470A	
500-245763-5	MW-17	Total/NA	Water	7470A	
500-245763-6	MW-05	Total/NA	Water	7470A	
500-245763-7	MW-06	Total/NA	Water	7470A	
500-245763-8	MW-09	Total/NA	Water	7470A	
500-245763-9	MW-10	Total/NA	Water	7470A	
MB 500-755030/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-755030/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 755246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	7470A	755030
500-245763-2	MW-12	Total/NA	Water	7470A	755030
500-245763-3	2S/3S Duplicate	Total/NA	Water	7470A	755030
500-245763-4	MW-16	Total/NA	Water	7470A	755030
500-245763-5	MW-17	Total/NA	Water	7470A	755030
500-245763-6	MW-05	Total/NA	Water	7470A	755030
500-245763-7	MW-06	Total/NA	Water	7470A	755030
500-245763-8	MW-09	Total/NA	Water	7470A	755030
500-245763-9	MW-10	Total/NA	Water	7470A	755030
MB 500-755030/12-A	Method Blank	Total/NA	Water	7470A	755030
LCS 500-755030/13-A	Lab Control Sample	Total/NA	Water	7470A	755030

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

General Chemistry

Analysis Batch: 752912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 2540C	
500-245763-2	MW-12	Total/NA	Water	SM 2540C	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 2540C	
500-245763-4	MW-16	Total/NA	Water	SM 2540C	
500-245763-5	MW-17	Total/NA	Water	SM 2540C	
MB 500-752912/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-752912/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 753095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-245763-2	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-245763-4	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-245763-5	MW-17	Total/NA	Water	SM 4500 Cl- E	
MB 500-753095/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-753095/70	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-753095/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-753095/71	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 753339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	SM 2540C	
500-245763-7	MW-06	Total/NA	Water	SM 2540C	
500-245763-8	MW-09	Total/NA	Water	SM 2540C	
500-245763-9	MW-10	Total/NA	Water	SM 2540C	
MB 500-753339/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-753339/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 753572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-245763-7	MW-06	Total/NA	Water	SM 4500 Cl- E	
500-245763-8	MW-09	Total/NA	Water	SM 4500 Cl- E	
MB 500-753572/109	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-753572/110	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 754863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-245763-2	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-245763-4	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-245763-5	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-245763-6	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-245763-7	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-245763-8	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-245763-9	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 500-754863/121	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-754863/70	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-754863/122	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

General Chemistry (Continued)

Analysis Batch: 754863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-754863/71	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 755087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-9	MW-10	Total/NA	Water	SM 4500 Cl- E	
MB 500-755087/4	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-755087/5	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 756829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	SM 4500 F C	
500-245763-2	MW-12	Total/NA	Water	SM 4500 F C	
500-245763-3	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	
500-245763-4	MW-16	Total/NA	Water	SM 4500 F C	
500-245763-5	MW-17	Total/NA	Water	SM 4500 F C	
500-245763-6	MW-05	Total/NA	Water	SM 4500 F C	
500-245763-7	MW-06	Total/NA	Water	SM 4500 F C	
500-245763-8	MW-09	Total/NA	Water	SM 4500 F C	
500-245763-9	MW-10	Total/NA	Water	SM 4500 F C	
MB 500-756829/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-756829/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-752999/1-A
Matrix: Water
Analysis Batch: 753405

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:00	1
Barium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:00	1
Beryllium	<0.0010	^+	0.0010		mg/L		02/07/24 09:01	02/08/24 19:00	1
Calcium	<0.20		0.20		mg/L		02/07/24 09:01	02/08/24 19:00	1
Cadmium	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Cobalt	<0.0010		0.0010		mg/L		02/07/24 09:01	02/08/24 19:00	1
Chromium	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Molybdenum	<0.0050		0.0050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Lead	<0.00050		0.00050		mg/L		02/07/24 09:01	02/08/24 19:00	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/07/24 09:01	02/08/24 19:00	1
Selenium	<0.0025		0.0025		mg/L		02/07/24 09:01	02/08/24 19:00	1
Thallium	<0.0020		0.0020		mg/L		02/07/24 09:01	02/08/24 19:00	1

Lab Sample ID: MB 500-752999/1-A
Matrix: Water
Analysis Batch: 754170

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		02/07/24 09:01	02/14/24 13:43	1
Lithium	<0.010		0.010		mg/L		02/07/24 09:01	02/14/24 13:43	1

Lab Sample ID: LCS 500-752999/2-A
Matrix: Water
Analysis Batch: 753405

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	0.500	0.530		mg/L		106	80 - 120
Beryllium	0.0500	0.0580	^+	mg/L		116	80 - 120
Calcium	10.0	9.01		mg/L		90	80 - 120
Cadmium	0.0500	0.0521		mg/L		104	80 - 120
Cobalt	0.500	0.472		mg/L		94	80 - 120
Chromium	0.200	0.191		mg/L		96	80 - 120
Molybdenum	1.00	0.962		mg/L		96	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Antimony	0.500	0.521	^1+	mg/L		104	80 - 120
Selenium	0.100	0.0985		mg/L		98	80 - 120
Thallium	0.100	0.0990		mg/L		99	80 - 120

Lab Sample ID: LCS 500-752999/2-A
Matrix: Water
Analysis Batch: 754170

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.08		mg/L		108	80 - 120
Lithium	0.100	0.106		mg/L		106	80 - 120

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

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

Lab Sample ID: 500-245763-1 MS

Matrix: Water

Analysis Batch: 753405

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.025		0.100	0.126		mg/L		101	75 - 125
Barium	0.18		0.500	0.687		mg/L		101	75 - 125
Calcium	120		10.0	123	4	mg/L		41	75 - 125
Cadmium	<0.00050		0.0500	0.0513		mg/L		103	75 - 125
Cobalt	<0.0010		0.500	0.452		mg/L		90	75 - 125
Chromium	<0.0050		0.200	0.189		mg/L		94	75 - 125
Molybdenum	0.029		1.00	1.01		mg/L		98	75 - 125
Lead	0.00056		0.100	0.0988		mg/L		98	75 - 125
Antimony	<0.0030	^1+	0.500	0.521	^1+	mg/L		104	75 - 125
Selenium	<0.0025		0.100	0.0983		mg/L		98	75 - 125
Thallium	<0.0020		0.100	0.0958		mg/L		96	75 - 125

Lab Sample ID: 500-245763-1 MS

Matrix: Water

Analysis Batch: 754170

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2.4		1.00	3.63		mg/L		125	75 - 125
Lithium	<0.10	F1	0.100	0.134	F1	mg/L		134	75 - 125

Lab Sample ID: 500-245763-1 MSD

Matrix: Water

Analysis Batch: 753405

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.025		0.100	0.127		mg/L		102	75 - 125	1	20
Barium	0.18		0.500	0.690		mg/L		102	75 - 125	0	20
Calcium	120		10.0	125	4	mg/L		61	75 - 125	2	20
Cadmium	<0.00050		0.0500	0.0516		mg/L		103	75 - 125	1	20
Cobalt	<0.0010		0.500	0.460		mg/L		92	75 - 125	2	20
Chromium	<0.0050		0.200	0.189		mg/L		95	75 - 125	0	20
Molybdenum	0.029		1.00	1.03		mg/L		100	75 - 125	1	20
Lead	0.00056		0.100	0.0996		mg/L		99	75 - 125	1	20
Antimony	<0.0030	^1+	0.500	0.525	^1+	mg/L		105	75 - 125	1	20
Selenium	<0.0025		0.100	0.0991		mg/L		99	75 - 125	1	20
Thallium	<0.0020		0.100	0.0960		mg/L		96	75 - 125	0	20

Lab Sample ID: 500-245763-1 MSD

Matrix: Water

Analysis Batch: 754170

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	2.4		1.00	3.54		mg/L		115	75 - 125	3	20
Lithium	<0.10	F1	0.100	0.117		mg/L		117	75 - 125	13	20

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

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

Lab Sample ID: 500-245763-1 DU

Matrix: Water

Analysis Batch: 753405

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	0.025		0.0255		mg/L		1	20
Barium	0.18		0.184		mg/L		0.9	20
Beryllium	<0.0010	^+	<0.0010	^+	mg/L		NC	20
Calcium	120		119		mg/L		0.2	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Molybdenum	0.029		0.0286		mg/L		0.8	20
Lead	0.00056		0.000522		mg/L		7	20
Antimony	<0.0030	^1+	<0.0030	^1+	mg/L		NC	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-245763-1 DU

Matrix: Water

Analysis Batch: 754170

Client Sample ID: MW-11

Prep Type: Total Recoverable

Prep Batch: 752999

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Boron	2.4		2.56		mg/L		7	20
Lithium	<0.10	F1	<0.10		mg/L		NC	20

Lab Sample ID: MB 500-753415/1-A

Matrix: Water

Analysis Batch: 753633

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 753415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 20:08	1
Calcium	<0.20		0.20		mg/L		02/09/24 08:52	02/09/24 20:08	1
Cadmium	<0.00050		0.00050		mg/L		02/09/24 08:52	02/09/24 20:08	1
Cobalt	<0.0010		0.0010		mg/L		02/09/24 08:52	02/09/24 20:08	1
Molybdenum	<0.0050		0.0050		mg/L		02/09/24 08:52	02/09/24 20:08	1
Selenium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/09/24 20:08	1
Thallium	<0.0020		0.0020		mg/L		02/09/24 08:52	02/09/24 20:08	1

Lab Sample ID: MB 500-753415/1-A

Matrix: Water

Analysis Batch: 753801

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 753415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0025		0.0025		mg/L		02/09/24 08:52	02/12/24 16:33	1
Chromium	<0.0050		0.0050		mg/L		02/09/24 08:52	02/12/24 16:33	1
Lead	<0.00050		0.00050		mg/L		02/09/24 08:52	02/12/24 16:33	1
Lithium	<0.010		0.010		mg/L		02/09/24 08:52	02/12/24 16:33	1

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

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

Lab Sample ID: MB 500-753415/1-A
Matrix: Water
Analysis Batch: 753991

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 753415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		02/09/24 08:52	02/13/24 14:07	1
Beryllium	<0.0010	^1+	0.0010		mg/L		02/09/24 08:52	02/13/24 14:07	1
Antimony	<0.0030	^1+	0.0030		mg/L		02/09/24 08:52	02/13/24 14:07	1

Lab Sample ID: LCS 500-753415/2-A
Matrix: Water
Analysis Batch: 753633

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 753415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.114		mg/L		114	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Cadmium	0.0500	0.0602		mg/L		120	80 - 120
Cobalt	0.500	0.591		mg/L		118	80 - 120
Molybdenum	1.00	1.15		mg/L		115	80 - 120
Selenium	0.100	0.118		mg/L		118	80 - 120
Thallium	0.100	0.118		mg/L		118	80 - 120

Lab Sample ID: LCS 500-753415/2-A
Matrix: Water
Analysis Batch: 753801

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 753415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.490		mg/L		98	80 - 120
Chromium	0.200	0.191		mg/L		95	80 - 120
Lead	0.100	0.0947		mg/L		95	80 - 120
Lithium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: LCS 500-753415/2-A
Matrix: Water
Analysis Batch: 753991

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 753415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.04		mg/L		104	80 - 120
Beryllium	0.0500	0.0486	^1+	mg/L		97	80 - 120
Antimony	0.500	0.532	^1+	mg/L		106	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-755030/12-A
Matrix: Water
Analysis Batch: 755246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 755030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/24 10:00	02/22/24 07:21	1

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

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

Lab Sample ID: LCS 500-755030/13-A
Matrix: Water
Analysis Batch: 755246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 755030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00199		mg/L		99	80 - 120

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

Lab Sample ID: MB 500-752912/1
Matrix: Water
Analysis Batch: 752912

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			02/06/24 21:38	1

Lab Sample ID: LCS 500-752912/2
Matrix: Water
Analysis Batch: 752912

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	258		mg/L		103	80 - 120

Lab Sample ID: MB 500-753339/1
Matrix: Water
Analysis Batch: 753339

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			02/09/24 00:29	1

Lab Sample ID: LCS 500-753339/2
Matrix: Water
Analysis Batch: 753339

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

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-753095/16
Matrix: Water
Analysis Batch: 753095

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			02/07/24 13:03	1

Lab Sample ID: MB 500-753095/70
Matrix: Water
Analysis Batch: 753095

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			02/07/24 15:01	1

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 500-753095/17

Matrix: Water

Analysis Batch: 753095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.7		mg/L		104	85 - 115

Lab Sample ID: LCS 500-753095/71

Matrix: Water

Analysis Batch: 753095

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	21.8		mg/L		109	85 - 115

Lab Sample ID: MB 500-753572/109

Matrix: Water

Analysis Batch: 753572

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			02/11/24 14:22	1

Lab Sample ID: LCS 500-753572/110

Matrix: Water

Analysis Batch: 753572

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		110	85 - 115

Lab Sample ID: MB 500-755087/4

Matrix: Water

Analysis Batch: 755087

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			02/21/24 13:25	1

Lab Sample ID: LCS 500-755087/5

Matrix: Water

Analysis Batch: 755087

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	19.5		mg/L		98	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-756829/3

Matrix: Water

Analysis Batch: 756829

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			03/04/24 15:03	1

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-756829/4

Matrix: Water

Analysis Batch: 756829

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

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-754863/121

Matrix: Water

Analysis Batch: 754863

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			02/20/24 12:55	1

Lab Sample ID: MB 500-754863/70

Matrix: Water

Analysis Batch: 754863

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			02/20/24 11:48	1

Lab Sample ID: LCS 500-754863/122

Matrix: Water

Analysis Batch: 754863

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	23.2		mg/L		116	88 - 123

Lab Sample ID: LCS 500-754863/71

Matrix: Water

Analysis Batch: 754863

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	22.7		mg/L		113	88 - 123

eurolins | Environment Testing

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Environment Testing

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-245763-1

Login Number: 245763

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4, 1.6, 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 $<6\text{mm}$ (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: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-11

Date Collected: 02/05/24 14:17

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:07
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 13:47
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 07:55
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:06
Total/NA	Analysis	SM 4500 CI- E		5	753095	TR	EET CHI	02/07/24 15:32
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:16
Total/NA	Analysis	SM 4500 SO4 E		2	754863	TR	EET CHI	02/20/24 12:08

Client Sample ID: MW-12

Date Collected: 02/05/24 11:35

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:24
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:07
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 07:57
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:09
Total/NA	Analysis	SM 4500 CI- E		5	753095	TR	EET CHI	02/07/24 13:28
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:21
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:09

Client Sample ID: 2S/3S Duplicate

Date Collected: 02/05/24 00:00

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:28
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:11
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 07:59
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:11
Total/NA	Analysis	SM 4500 CI- E		5	753095	TR	EET CHI	02/07/24 13:28
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:25
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:05

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Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-16

Date Collected: 02/05/24 13:26

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:31
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:15
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:01
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:14
Total/NA	Analysis	SM 4500 Cl- E		5	753095	TR	EET CHI	02/07/24 13:31
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:30
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:08

Client Sample ID: MW-17

Date Collected: 02/05/24 12:23

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	753405	RN	EET CHI	02/08/24 19:42
Total Recoverable	Prep	3005A			752999	BDE	EET CHI	02/07/24 09:01 - 02/07/24 15:01 ¹
Total Recoverable	Analysis	6020B		10	754170	RN	EET CHI	02/14/24 14:19
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:03
Total/NA	Analysis	SM 2540C		1	752912	CLB	EET CHI	02/06/24 22:16
Total/NA	Analysis	SM 4500 Cl- E		5	753095	TR	EET CHI	02/07/24 13:31
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:34
Total/NA	Analysis	SM 4500 SO4 E		10	754863	TR	EET CHI	02/20/24 12:33

Client Sample ID: MW-05

Date Collected: 02/07/24 09:10

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:23
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:00
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:15
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:09
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:47
Total/NA	Analysis	SM 4500 Cl- E		1	753572	TR	EET CHI	02/11/24 14:24
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:39
Total/NA	Analysis	SM 4500 SO4 E		20	754863	TR	EET CHI	02/20/24 12:33

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Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-06

Date Collected: 02/07/24 10:21

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:27
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:04
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:26
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:12
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:49
Total/NA	Analysis	SM 4500 Cl- E		1	753572	TR	EET CHI	02/11/24 14:24
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:44
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:33

Client Sample ID: MW-09

Date Collected: 02/07/24 12:58

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:38
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:08
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:30
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:14
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:52
Total/NA	Analysis	SM 4500 Cl- E		5	753572	TR	EET CHI	02/11/24 14:42
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 16:58
Total/NA	Analysis	SM 4500 SO4 E		5	754863	TR	EET CHI	02/20/24 12:05

Client Sample ID: MW-10

Date Collected: 02/07/24 11:27

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753633	RN	EET CHI	02/09/24 21:42
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		1	753801	RN	EET CHI	02/12/24 19:11
Total Recoverable	Prep	3005A			753415	BDE	EET CHI	02/09/24 08:52 - 02/09/24 15:52 ¹
Total Recoverable	Analysis	6020B		10	753991	RN	EET CHI	02/13/24 15:34
Total/NA	Prep	7470A			755030	MJG	EET CHI	02/21/24 10:00 - 02/21/24 12:00 ¹
Total/NA	Analysis	7470A		1	755246	MJG	EET CHI	02/22/24 08:16

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S

Job ID: 500-245763-1

Client Sample ID: MW-10
Date Collected: 02/07/24 11:27
Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	753339	CLB	EET CHI	02/09/24 00:54
Total/NA	Analysis	SM 4500 Cl- E		5	755087	TR	EET CHI	02/21/24 15:14
Total/NA	Analysis	SM 4500 F C		1	756829	TR	EET CHI	03/04/24 17:03
Total/NA	Analysis	SM 4500 SO4 E		10	754863	TR	EET CHI	02/20/24 14:02

¹ 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: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 3/11/2024 1:33:44 PM

JOB DESCRIPTION

Will County CCR 2S/3S (RAD)

JOB NUMBER

500-245763-2

Eurofins Chicago

Job Notes

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Authorization



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Authorized for release by
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Case Narrative

Client: Midwest Generation EME LLC
Project: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Job ID: 500-245763-2

Eurofins Chicago

Job Narrative 500-245763-2

Receipt

The samples were received on 2/6/2024 4:03 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.4° C, 1.6° C and 2.4° C.

RAD

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: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

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: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-245763-1	MW-11	Water	02/05/24 14:17	02/06/24 16:03
500-245763-2	MW-12	Water	02/05/24 11:35	02/06/24 16:03
500-245763-3	2S/3S Duplicate	Water	02/05/24 00:00	02/06/24 16:03
500-245763-4	MW-16	Water	02/05/24 13:26	02/06/24 16:03
500-245763-5	MW-17	Water	02/05/24 12:23	02/06/24 16:03
500-245763-6	MW-05	Water	02/07/24 09:10	02/08/24 09:02
500-245763-7	MW-06	Water	02/07/24 10:21	02/08/24 09:02
500-245763-8	MW-09	Water	02/07/24 12:58	02/08/24 09:02
500-245763-9	MW-10	Water	02/07/24 11:27	02/08/24 09:02

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-11

Lab Sample ID: 500-245763-1

Date Collected: 02/05/24 14:17

Matrix: Water

Date Received: 02/06/24 16:03

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	0.407		0.165	0.169	1.00	0.189	pCi/L	02/09/24 10:00	03/04/24 15:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					02/09/24 10:00	03/04/24 15:02	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		0.624	0.634	1.00	0.867	pCi/L	02/09/24 10:02	02/27/24 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					02/09/24 10:02	02/27/24 12:04	1
Y Carrier	72.1		30 - 110					02/09/24 10:02	02/27/24 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	1.65		0.645	0.656	5.00	0.867	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-12

Lab Sample ID: 500-245763-2

Date Collected: 02/05/24 11:35

Matrix: Water

Date Received: 02/06/24 16:03

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	0.0229	U	0.0636	0.0636	1.00	0.119	pCi/L	02/09/24 10:00	03/04/24 15:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/09/24 10:00	03/04/24 15:02	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	0.525	U	0.385	0.388	1.00	0.585	pCi/L	02/09/24 10:02	02/27/24 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/09/24 10:02	02/27/24 12:04	1
Y Carrier	74.4		30 - 110					02/09/24 10:02	02/27/24 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	0.548	U	0.390	0.393	5.00	0.585	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-245763-3

Date Collected: 02/05/24 00:00

Matrix: Water

Date Received: 02/06/24 16:03

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	0.395		0.123	0.128	1.00	0.110	pCi/L	02/09/24 10:00	03/06/24 09:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					02/09/24 10:00	03/06/24 09:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.531	U	0.409	0.412	1.00	0.626	pCi/L	02/09/24 10:02	02/27/24 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					02/09/24 10:02	02/27/24 12:05	1
Y Carrier	70.3		30 - 110					02/09/24 10:02	02/27/24 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	0.926		0.427	0.431	5.00	0.626	pCi/L		03/11/24 12:33	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-16

Lab Sample ID: 500-245763-4

Date Collected: 02/05/24 13:26

Matrix: Water

Date Received: 02/06/24 16:03

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	0.342		0.122	0.126	1.00	0.120	pCi/L	02/09/24 10:00	03/04/24 17:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/09/24 10:00	03/04/24 17:36	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	0.867		0.398	0.406	1.00	0.529	pCi/L	02/09/24 10:02	02/27/24 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					02/09/24 10:02	02/27/24 12:05	1
Y Carrier	79.3		30 - 110					02/09/24 10:02	02/27/24 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	1.21		0.416	0.425	5.00	0.529	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-17

Lab Sample ID: 500-245763-5

Date Collected: 02/05/24 12:23

Matrix: Water

Date Received: 02/06/24 16:03

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.262		0.125	0.128	1.00	0.157	pCi/L	02/09/24 10:00	03/04/24 17:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					02/09/24 10:00	03/04/24 17:37	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	0.0291	U	0.287	0.287	1.00	0.536	pCi/L	02/09/24 10:02	02/27/24 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					02/09/24 10:02	02/27/24 12:05	1
Y Carrier	76.3		30 - 110					02/09/24 10:02	02/27/24 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	0.291	U	0.313	0.314	5.00	0.536	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-05

Lab Sample ID: 500-245763-6

Date Collected: 02/07/24 09:10

Matrix: Water

Date Received: 02/08/24 09:02

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	0.0226	U	0.0486	0.0486	1.00	0.0894	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/13/24 10:25	03/07/24 17:42	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	0.543	U	0.423	0.426	1.00	0.655	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	69.9		30 - 110					02/13/24 10:31	02/26/24 11:59	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	0.565	U	0.426	0.429	5.00	0.655	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-06

Lab Sample ID: 500-245763-7

Date Collected: 02/07/24 10:21

Matrix: Water

Date Received: 02/08/24 09:02

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	0.0568	U	0.0571	0.0573	1.00	0.0891	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					02/13/24 10:25	03/07/24 17:42	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	0.364	U	0.308	0.310	1.00	0.483	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	80.4		30 - 110					02/13/24 10:31	02/26/24 11:59	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	0.421	U	0.313	0.315	5.00	0.483	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-09

Lab Sample ID: 500-245763-8

Date Collected: 02/07/24 12:58

Matrix: Water

Date Received: 02/08/24 09:02

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	0.105		0.0653	0.0660	1.00	0.0805	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					02/13/24 10:25	03/07/24 17:42	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	0.483		0.318	0.322	1.00	0.468	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	84.1		30 - 110					02/13/24 10:31	02/26/24 11:59	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	0.588		0.325	0.329	5.00	0.468	pCi/L		03/08/24 16:34	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-10

Lab Sample ID: 500-245763-9

Date Collected: 02/07/24 11:27

Matrix: Water

Date Received: 02/08/24 09:02

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	0.278		0.0980	0.101	1.00	0.0824	pCi/L	02/13/24 10:25	03/07/24 17:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					02/13/24 10:25	03/07/24 17:42	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		0.442	0.457	1.00	0.546	pCi/L	02/13/24 10:31	02/26/24 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					02/13/24 10:31	02/26/24 11:59	1
Y Carrier	86.0		30 - 110					02/13/24 10:31	02/26/24 11:59	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	1.52		0.453	0.468	5.00	0.546	pCi/L		03/08/24 16:34	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Qualifiers

Rad

Qualifier	Qualifier Description
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: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Rad

Prep Batch: 647502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	PrecSep-21	
500-245763-2	MW-12	Total/NA	Water	PrecSep-21	
500-245763-3	2S/3S Duplicate	Total/NA	Water	PrecSep-21	
500-245763-4	MW-16	Total/NA	Water	PrecSep-21	
500-245763-5	MW-17	Total/NA	Water	PrecSep-21	
MB 160-647502/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-647502/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 647504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-1	MW-11	Total/NA	Water	PrecSep_0	
500-245763-2	MW-12	Total/NA	Water	PrecSep_0	
500-245763-3	2S/3S Duplicate	Total/NA	Water	PrecSep_0	
500-245763-4	MW-16	Total/NA	Water	PrecSep_0	
500-245763-5	MW-17	Total/NA	Water	PrecSep_0	
MB 160-647504/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-647504/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 647941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	PrecSep-21	
500-245763-7	MW-06	Total/NA	Water	PrecSep-21	
500-245763-8	MW-09	Total/NA	Water	PrecSep-21	
500-245763-9	MW-10	Total/NA	Water	PrecSep-21	
MB 160-647941/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-647941/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 647942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245763-6	MW-05	Total/NA	Water	PrecSep_0	
500-245763-7	MW-06	Total/NA	Water	PrecSep_0	
500-245763-8	MW-09	Total/NA	Water	PrecSep_0	
500-245763-9	MW-10	Total/NA	Water	PrecSep_0	
MB 160-647942/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-647942/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-647502/1-A

Matrix: Water

Analysis Batch: 650942

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647502

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01998	U	0.0467	0.0468	1.00	0.0887	pCi/L	02/09/24 10:00	03/04/24 13:10	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110					02/09/24 10:00	03/04/24 13:10	1

Lab Sample ID: LCS 160-647502/2-A

Matrix: Water

Analysis Batch: 650947

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 647502

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	10.79		1.13	1.00	0.128	pCi/L	95	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	98.0		30 - 110							

Lab Sample ID: MB 160-647941/1-A

Matrix: Water

Analysis Batch: 651424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647941

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02484	U	0.0473	0.0473	1.00	0.0855	pCi/L	02/13/24 10:25	03/07/24 16:13	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					02/13/24 10:25	03/07/24 16:13	1

Lab Sample ID: LCS 160-647941/2-A

Matrix: Water

Analysis Batch: 651424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 647941

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	9.806		1.03	1.00	0.137	pCi/L	87	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	98.3		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-647504/1-A

Matrix: Water

Analysis Batch: 650045

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647504

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.09967	U	0.294	0.294	1.00	0.522	pCi/L	02/09/24 10:02	02/27/24 12:03	1

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110	02/09/24 10:02	02/27/24 12:03	1
Y Carrier	83.7		30 - 110	02/09/24 10:02	02/27/24 12:03	1

Lab Sample ID: LCS 160-647504/2-A
Matrix: Water
Analysis Batch: 650045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647504

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.17	9.558		1.27	1.00	0.464	pCi/L	104	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.0		30 - 110
Y Carrier	84.1		30 - 110

Lab Sample ID: MB 160-647942/1-A
Matrix: Water
Analysis Batch: 649794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647942

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3657	U	0.302	0.304	1.00	0.469	pCi/L	02/13/24 10:31	02/26/24 11:48	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110	02/13/24 10:31	02/26/24 11:48	1
Y Carrier	84.1		30 - 110	02/13/24 10:31	02/26/24 11:48	1

Lab Sample ID: LCS 160-647942/2-A
Matrix: Water
Analysis Batch: 649794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647942

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.18	9.134		1.22	1.00	0.466	pCi/L	100	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.3		30 - 110
Y Carrier	85.6		30 - 110

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- 1
- 2
- 3
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- 5

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Environment Testing

Ver: 06/08/2021 3/11/2024

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-245763-2

Login Number: 245763

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4, 1.6, 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 $<6\text{mm}$ (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: 500-245763-2

Login Number: 245763

List Number: 2

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 02/08/24 02:33 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (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: 500-245763-2

Login Number: 245763

List Number: 3

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/12/24 08:53 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (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: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-11

Date Collected: 02/05/24 14:17

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650947	SCB	EET SL	03/04/24 15:02
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:04
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Client Sample ID: MW-12

Date Collected: 02/05/24 11:35

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650947	SCB	EET SL	03/04/24 15:02
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:04
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Client Sample ID: 2S/3S Duplicate

Date Collected: 02/05/24 00:00

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	651294	SWS	EET SL	03/06/24 09:55
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:05
Total/NA	Analysis	Ra226_Ra228		1	651940	CAH	EET SL	03/11/24 12:33

Client Sample ID: MW-16

Date Collected: 02/05/24 13:26

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650944	SCB	EET SL	03/04/24 17:36
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:05
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-17

Date Collected: 02/05/24 12:23

Date Received: 02/06/24 16:03

Lab Sample ID: 500-245763-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647502	KAC	EET SL	02/09/24 10:00
Total/NA	Analysis	903.0		1	650944	SCB	EET SL	03/04/24 17:37
Total/NA	Prep	PrecSep_0			647504	KAC	EET SL	02/09/24 10:02
Total/NA	Analysis	904.0		1	650045	CMM	EET SL	02/27/24 12:05
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Client Sample ID: MW-05

Date Collected: 02/07/24 09:10

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Client Sample ID: MW-06

Date Collected: 02/07/24 10:21

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Client Sample ID: MW-09

Date Collected: 02/07/24 12:58

Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

Client Sample ID: MW-10
Date Collected: 02/07/24 11:27
Date Received: 02/08/24 09:02

Lab Sample ID: 500-245763-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			647941	KAC	EET SL	02/13/24 10:25
Total/NA	Analysis	903.0		1	651337	FLC	EET SL	03/07/24 17:42
Total/NA	Prep	PrecSep_0			647942	KAC	EET SL	02/13/24 10:31
Total/NA	Analysis	904.0		1	649842	MLK	EET SL	02/26/24 11:59
Total/NA	Analysis	Ra226_Ra228		1	651666	FLC	EET SL	03/08/24 16:34

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: Will County CCR 2S/3S (RAD)

Job ID: 500-245763-2

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)					
500-245763-1	MW-11	88.8					
500-245763-2	MW-12	93.0					
500-245763-3	2S/3S Duplicate	88.5					
500-245763-4	MW-16	92.5					
500-245763-5	MW-17	92.3					
500-245763-6	MW-05	93.0					
500-245763-7	MW-06	105					
500-245763-8	MW-09	97.8					
500-245763-9	MW-10	87.0					
LCS 160-647502/2-A	Lab Control Sample	98.0					
LCS 160-647941/2-A	Lab Control Sample	98.3					
MB 160-647502/1-A	Method Blank	97.0					
MB 160-647941/1-A	Method Blank	97.3					
Tracer/Carrier Legend							
Ba = Ba Carrier							

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba	Y				
		(30-110)	(30-110)				
500-245763-1	MW-11	88.8	72.1				
500-245763-2	MW-12	93.0	74.4				
500-245763-3	2S/3S Duplicate	88.5	70.3				
500-245763-4	MW-16	92.5	79.3				
500-245763-5	MW-17	92.3	76.3				
500-245763-6	MW-05	93.0	69.9				
500-245763-7	MW-06	105	80.4				
500-245763-8	MW-09	97.8	84.1				
500-245763-9	MW-10	87.0	86.0				
LCS 160-647504/2-A	Lab Control Sample	98.0	84.1				
LCS 160-647942/2-A	Lab Control Sample	98.3	85.6				
MB 160-647504/1-A	Method Blank	97.0	83.7				
MB 160-647942/1-A	Method Blank	97.3	84.1				
Tracer/Carrier Legend							
Ba = Ba Carrier							
Y = Y Carrier							

ANALYTICAL REPORT

PREPARED FOR

Attn: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 5/31/2024 10:43:28 AM

JOB DESCRIPTION

Will County CCR

JOB NUMBER

500-250106-1

Eurofins Chicago

Job Notes

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Authorization



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Authorized for release by
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Case Narrative

Client: Midwest Generation EME LLC
Project: Will County CCR

Job ID: 500-250106-1

Job ID: 500-250106-1

Eurofins Chicago

Job Narrative 500-250106-1

Receipt

The samples were received on 5/7/2024 2:55 PM and 5/9/2024 8:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.7°C, 1.8°C, 1.8°C and 2.0°C.

Metals

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

General Chemistry

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: Will County CCR

Job ID: 500-250106-1

Method	Method Description	Protocol	Laboratory
6020B	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
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

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: Will County CCR

Job ID: 500-250106-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-250106-1	MW-11	Water	05/06/24 12:35	05/07/24 14:55
500-250106-2	MW-12	Water	05/06/24 10:49	05/07/24 14:55
500-250106-3	2S/3S Duplicate	Water	05/06/24 00:00	05/07/24 14:55
500-250106-4	MW-16	Water	05/06/24 13:59	05/07/24 14:55
500-250106-5	MW-17	Water	05/06/24 11:49	05/07/24 14:55
500-250106-6	MW-05	Water	05/08/24 09:41	05/09/24 08:05
500-250106-7	MW-06	Water	05/08/24 11:00	05/09/24 08:05
500-250106-8	MW-09	Water	05/08/24 15:57	05/09/24 08:05
500-250106-9	MW-10	Water	05/08/24 12:13	05/09/24 08:05

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-11

Lab Sample ID: 500-250106-1

Date Collected: 05/06/24 12:35

Matrix: Water

Date Received: 05/07/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.032		0.0010		mg/L		05/16/24 09:39	05/21/24 14:02	1
Boron	2.9		0.050		mg/L		05/16/24 09:39	05/22/24 14:18	1
Barium	0.17		0.0025		mg/L		05/16/24 09:39	05/21/24 14:02	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:02	1
Calcium	110		0.20		mg/L		05/16/24 09:39	05/22/24 14:18	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:02	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:02	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:02	1
Molybdenum	0.037		0.0050		mg/L		05/16/24 09:39	05/21/24 14:02	1
Lead	0.00056		0.00050		mg/L		05/16/24 09:39	05/21/24 14:02	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:02	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 14:02	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:02	1
Lithium	0.010		0.010		mg/L		05/16/24 09:39	05/22/24 14:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	720		10		mg/L			05/08/24 06:13	1
Chloride (SM 4500 Cl- E)	120		10		mg/L			05/13/24 15:43	5
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			05/28/24 16:23	1
Sulfate (SM 4500 SO4 E)	68		10		mg/L			05/19/24 13:34	2

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-12

Lab Sample ID: 500-250106-2

Date Collected: 05/06/24 10:49

Matrix: Water

Date Received: 05/07/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011		0.0010		mg/L		05/16/24 09:39	05/21/24 14:04	1
Boron	1.9		0.050		mg/L		05/16/24 09:39	05/22/24 14:20	1
Barium	0.13		0.0025		mg/L		05/16/24 09:39	05/21/24 14:04	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:04	1
Calcium	180		0.20		mg/L		05/16/24 09:39	05/22/24 14:20	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:04	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:04	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:04	1
Molybdenum	0.020		0.0050		mg/L		05/16/24 09:39	05/21/24 14:04	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:04	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:04	1
Selenium	0.0041		0.0025		mg/L		05/16/24 09:39	05/21/24 14:04	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:04	1
Lithium	0.013		0.010		mg/L		05/16/24 09:39	05/22/24 14:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			05/08/24 06:15	1
Chloride (SM 4500 Cl- E)	190		10		mg/L			05/13/24 15:40	5
Fluoride (SM 4500 F C)	0.42		0.10		mg/L			05/28/24 16:38	1
Sulfate (SM 4500 SO4 E)	160		25		mg/L			05/19/24 13:34	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-250106-3

Date Collected: 05/06/24 00:00

Matrix: Water

Date Received: 05/07/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011		0.0010		mg/L		05/16/24 09:39	05/21/24 14:06	1
Boron	1.9		0.050		mg/L		05/16/24 09:39	05/22/24 14:22	1
Barium	0.13		0.0025		mg/L		05/16/24 09:39	05/21/24 14:06	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:06	1
Calcium	180		0.20		mg/L		05/16/24 09:39	05/22/24 14:22	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:06	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:06	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:06	1
Molybdenum	0.020		0.0050		mg/L		05/16/24 09:39	05/21/24 14:06	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:06	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:06	1
Selenium	0.0040		0.0025		mg/L		05/16/24 09:39	05/21/24 14:06	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:06	1
Lithium	0.014		0.010		mg/L		05/16/24 09:39	05/22/24 14:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			05/08/24 06:18	1
Chloride (SM 4500 Cl- E)	190		10		mg/L			05/13/24 15:40	5
Fluoride (SM 4500 F C)	0.41		0.10		mg/L			05/28/24 16:43	1
Sulfate (SM 4500 SO4 E)	160		25		mg/L			05/20/24 17:12	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-16

Lab Sample ID: 500-250106-4

Date Collected: 05/06/24 13:59

Matrix: Water

Date Received: 05/07/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0031		0.0010		mg/L		05/16/24 09:39	05/21/24 14:08	1
Boron	0.82		0.050		mg/L		05/16/24 09:39	05/22/24 14:24	1
Barium	0.072		0.0025		mg/L		05/16/24 09:39	05/21/24 14:08	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:08	1
Calcium	130		0.20		mg/L		05/16/24 09:39	05/22/24 14:24	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:08	1
Cobalt	0.0014		0.0010		mg/L		05/16/24 09:39	05/21/24 14:08	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:08	1
Molybdenum	0.012		0.0050		mg/L		05/16/24 09:39	05/21/24 14:08	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:08	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:08	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 14:08	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:08	1
Lithium	0.014		0.010		mg/L		05/16/24 09:39	05/22/24 14:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	840		10		mg/L			05/08/24 06:20	1
Chloride (SM 4500 Cl- E)	150		10		mg/L			05/13/24 15:39	5
Fluoride (SM 4500 F C)	0.41		0.10		mg/L			05/30/24 22:46	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			05/19/24 13:34	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-17

Lab Sample ID: 500-250106-5

Date Collected: 05/06/24 11:49

Matrix: Water

Date Received: 05/07/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0054		0.0010		mg/L		05/16/24 09:39	05/21/24 14:11	1
Boron	3.1		0.25		mg/L		05/16/24 09:39	05/22/24 14:26	5
Barium	0.049		0.0025		mg/L		05/16/24 09:39	05/21/24 14:11	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:11	1
Calcium	63		1.0		mg/L		05/16/24 09:39	05/22/24 14:26	5
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:11	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:11	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:11	1
Molybdenum	0.13		0.0050		mg/L		05/16/24 09:39	05/21/24 14:11	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:11	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:11	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 14:11	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:11	1
Lithium	<0.050		0.050		mg/L		05/16/24 09:39	05/22/24 14:26	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	820		10		mg/L			05/08/24 06:23	1
Chloride (SM 4500 Cl- E)	120		10		mg/L			05/13/24 15:43	5
Fluoride (SM 4500 F C)	0.79		0.10		mg/L			05/30/24 22:51	1
Sulfate (SM 4500 SO4 E)	330		50		mg/L			05/19/24 13:45	10

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-05

Lab Sample ID: 500-250106-6

Date Collected: 05/08/24 09:41

Matrix: Water

Date Received: 05/09/24 08:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0020		0.0010		mg/L		05/16/24 09:39	05/21/24 14:13	1
Boron	5.3		0.25		mg/L		05/16/24 09:39	05/22/24 14:28	5
Barium	0.033		0.0025		mg/L		05/16/24 09:39	05/21/24 14:13	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:13	1
Calcium	83		1.0		mg/L		05/16/24 09:39	05/22/24 14:28	5
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:13	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:13	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:13	1
Molybdenum	0.079		0.0050		mg/L		05/16/24 09:39	05/21/24 14:13	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:13	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:13	1
Selenium	0.0054		0.0025		mg/L		05/16/24 09:39	05/21/24 14:13	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:13	1
Lithium	<0.050		0.050		mg/L		05/16/24 09:39	05/22/24 14:28	5

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	930		10		mg/L			05/14/24 00:57	1
Chloride (SM 4500 Cl- E)	34		2.0		mg/L			05/13/24 15:14	1
Fluoride (SM 4500 F C)	0.65		0.10		mg/L			05/29/24 01:36	1
Sulfate (SM 4500 SO4 E)	450		50		mg/L			05/19/24 13:32	10

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-06

Lab Sample ID: 500-250106-7

Date Collected: 05/08/24 11:00

Matrix: Water

Date Received: 05/09/24 08:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0013		0.0010		mg/L		05/16/24 09:39	05/21/24 14:23	1
Boron	2.3		0.050		mg/L		05/16/24 09:39	05/22/24 14:30	1
Barium	0.081		0.0025		mg/L		05/16/24 09:39	05/21/24 14:23	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:23	1
Calcium	110		0.20		mg/L		05/16/24 09:39	05/22/24 14:30	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:23	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:23	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:23	1
Molybdenum	0.021		0.0050		mg/L		05/16/24 09:39	05/21/24 14:23	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:23	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:23	1
Selenium	0.0065		0.0025		mg/L		05/16/24 09:39	05/21/24 14:23	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:23	1
Lithium	0.015		0.010		mg/L		05/16/24 09:39	05/22/24 14:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	630		10		mg/L			05/14/24 01:00	1
Chloride (SM 4500 Cl- E)	13		2.0		mg/L			05/13/24 15:15	1
Fluoride (SM 4500 F C)	0.37		0.10		mg/L			05/29/24 01:52	1
Sulfate (SM 4500 SO4 E)	180		25		mg/L			05/19/24 13:35	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-09

Lab Sample ID: 500-250106-8

Date Collected: 05/08/24 15:57

Matrix: Water

Date Received: 05/09/24 08:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0075		0.0010		mg/L		05/16/24 09:39	05/21/24 14:25	1
Boron	1.8		0.050		mg/L		05/16/24 09:39	05/22/24 14:39	1
Barium	0.031		0.0025		mg/L		05/16/24 09:39	05/21/24 14:25	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:25	1
Calcium	41		0.20		mg/L		05/16/24 09:39	05/22/24 14:39	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:25	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:25	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:25	1
Molybdenum	0.063		0.0050		mg/L		05/16/24 09:39	05/21/24 14:25	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:25	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:25	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 14:25	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:25	1
Lithium	<0.010	^+	0.010		mg/L		05/16/24 09:39	05/21/24 14:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00021		0.00020		mg/L		05/24/24 10:55	05/28/24 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	740		10		mg/L			05/14/24 01:03	1
Chloride (SM 4500 Cl- E)	180		10		mg/L			05/13/24 15:42	5
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			05/29/24 01:57	1
Sulfate (SM 4500 SO4 E)	230		25		mg/L			05/19/24 13:35	5

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-10

Lab Sample ID: 500-250106-9

Date Collected: 05/08/24 12:13

Matrix: Water

Date Received: 05/09/24 08:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012		0.0010		mg/L		05/16/24 09:39	05/21/24 14:27	1
Boron	2.7		0.050		mg/L		05/16/24 09:39	05/22/24 14:41	1
Barium	0.079		0.0025		mg/L		05/16/24 09:39	05/21/24 14:27	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:27	1
Calcium	110		0.20		mg/L		05/16/24 09:39	05/22/24 14:41	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:27	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 14:27	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 14:27	1
Molybdenum	0.11		0.0050		mg/L		05/16/24 09:39	05/21/24 14:27	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 14:27	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 14:27	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 14:27	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 14:27	1
Lithium	0.016		0.010		mg/L		05/16/24 09:39	05/22/24 14:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	860		10		mg/L			05/14/24 01:05	1
Chloride (SM 4500 Cl- E)	130		10		mg/L			05/13/24 15:41	5
Fluoride (SM 4500 F C)	0.81		0.10		mg/L			05/29/24 02:02	1
Sulfate (SM 4500 SO4 E)	290		50		mg/L			05/19/24 13:46	10

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

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: Will County CCR

Job ID: 500-250106-1

Metals

Prep Batch: 768239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total Recoverable	Water	3005A	
500-250106-2	MW-12	Total Recoverable	Water	3005A	
500-250106-3	2S/3S Duplicate	Total Recoverable	Water	3005A	
500-250106-4	MW-16	Total Recoverable	Water	3005A	
500-250106-5	MW-17	Total Recoverable	Water	3005A	
500-250106-6	MW-05	Total Recoverable	Water	3005A	
500-250106-7	MW-06	Total Recoverable	Water	3005A	
500-250106-8	MW-09	Total Recoverable	Water	3005A	
500-250106-9	MW-10	Total Recoverable	Water	3005A	
MB 500-768239/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-768239/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 769045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total Recoverable	Water	6020B	768239
500-250106-2	MW-12	Total Recoverable	Water	6020B	768239
500-250106-3	2S/3S Duplicate	Total Recoverable	Water	6020B	768239
500-250106-4	MW-16	Total Recoverable	Water	6020B	768239
500-250106-5	MW-17	Total Recoverable	Water	6020B	768239
500-250106-6	MW-05	Total Recoverable	Water	6020B	768239
500-250106-7	MW-06	Total Recoverable	Water	6020B	768239
500-250106-8	MW-09	Total Recoverable	Water	6020B	768239
500-250106-9	MW-10	Total Recoverable	Water	6020B	768239
MB 500-768239/1-A	Method Blank	Total Recoverable	Water	6020B	768239
LCS 500-768239/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768239

Analysis Batch: 769274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total Recoverable	Water	6020B	768239
500-250106-2	MW-12	Total Recoverable	Water	6020B	768239
500-250106-3	2S/3S Duplicate	Total Recoverable	Water	6020B	768239
500-250106-4	MW-16	Total Recoverable	Water	6020B	768239
500-250106-5	MW-17	Total Recoverable	Water	6020B	768239
500-250106-6	MW-05	Total Recoverable	Water	6020B	768239
500-250106-7	MW-06	Total Recoverable	Water	6020B	768239
500-250106-8	MW-09	Total Recoverable	Water	6020B	768239
500-250106-9	MW-10	Total Recoverable	Water	6020B	768239
MB 500-768239/1-A	Method Blank	Total Recoverable	Water	6020B	768239
LCS 500-768239/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768239

Analysis Batch: 769360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-768239/2-A	Lab Control Sample	Total Recoverable	Water	6020B	768239

Prep Batch: 769539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	7470A	
500-250106-2	MW-12	Total/NA	Water	7470A	
500-250106-3	2S/3S Duplicate	Total/NA	Water	7470A	
500-250106-4	MW-16	Total/NA	Water	7470A	
500-250106-5	MW-17	Total/NA	Water	7470A	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Metals (Continued)

Prep Batch: 769539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6	MW-05	Total/NA	Water	7470A	
500-250106-7	MW-06	Total/NA	Water	7470A	
500-250106-8	MW-09	Total/NA	Water	7470A	
500-250106-9	MW-10	Total/NA	Water	7470A	
MB 500-769539/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-769539/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-250106-7 MS	MW-06	Total/NA	Water	7470A	
500-250106-7 MSD	MW-06	Total/NA	Water	7470A	
500-250106-7 DU	MW-06	Total/NA	Water	7470A	

Analysis Batch: 769797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	7470A	769539
500-250106-2	MW-12	Total/NA	Water	7470A	769539
500-250106-3	2S/3S Duplicate	Total/NA	Water	7470A	769539
500-250106-4	MW-16	Total/NA	Water	7470A	769539
500-250106-5	MW-17	Total/NA	Water	7470A	769539
500-250106-6	MW-05	Total/NA	Water	7470A	769539
500-250106-7	MW-06	Total/NA	Water	7470A	769539
500-250106-8	MW-09	Total/NA	Water	7470A	769539
500-250106-9	MW-10	Total/NA	Water	7470A	769539
MB 500-769539/12-A	Method Blank	Total/NA	Water	7470A	769539
LCS 500-769539/13-A	Lab Control Sample	Total/NA	Water	7470A	769539
500-250106-7 MS	MW-06	Total/NA	Water	7470A	769539
500-250106-7 MSD	MW-06	Total/NA	Water	7470A	769539
500-250106-7 DU	MW-06	Total/NA	Water	7470A	769539

General Chemistry

Analysis Batch: 766884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	SM 2540C	
500-250106-2	MW-12	Total/NA	Water	SM 2540C	
500-250106-3	2S/3S Duplicate	Total/NA	Water	SM 2540C	
500-250106-4	MW-16	Total/NA	Water	SM 2540C	
500-250106-5	MW-17	Total/NA	Water	SM 2540C	
MB 500-766884/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-766884/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 767735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6	MW-05	Total/NA	Water	SM 2540C	
500-250106-7	MW-06	Total/NA	Water	SM 2540C	
500-250106-8	MW-09	Total/NA	Water	SM 2540C	
500-250106-9	MW-10	Total/NA	Water	SM 2540C	
MB 500-767735/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-767735/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 767769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	SM 4500 Cl- E	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

General Chemistry (Continued)

Analysis Batch: 767769 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-2	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-250106-3	2S/3S Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-250106-4	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-250106-5	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-250106-6	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-250106-7	MW-06	Total/NA	Water	SM 4500 Cl- E	
500-250106-8	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-250106-9	MW-10	Total/NA	Water	SM 4500 Cl- E	
MB 500-767769/106	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-767769/107	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 768618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-250106-2	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-250106-4	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-250106-5	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-250106-6	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-250106-7	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-250106-8	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-250106-9	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 500-768618/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-768618/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 768879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-3	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-768879/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-768879/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 769992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	SM 4500 F C	
500-250106-2	MW-12	Total/NA	Water	SM 4500 F C	
500-250106-3	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-769992/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-769992/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-769992/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-769992/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-250106-3 MS	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	
500-250106-3 MSD	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 769993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6	MW-05	Total/NA	Water	SM 4500 F C	
500-250106-7	MW-06	Total/NA	Water	SM 4500 F C	
500-250106-8	MW-09	Total/NA	Water	SM 4500 F C	
500-250106-9	MW-10	Total/NA	Water	SM 4500 F C	
MB 500-769993/53	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-769993/54	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-250106-6 MS	MW-05	Total/NA	Water	SM 4500 F C	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

General Chemistry (Continued)

Analysis Batch: 769993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6 MSD	MW-05	Total/NA	Water	SM 4500 F C	

Analysis Batch: 770352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-4	MW-16	Total/NA	Water	SM 4500 F C	
500-250106-5	MW-17	Total/NA	Water	SM 4500 F C	
MB 500-770352/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-770352/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-768239/1-A
Matrix: Water
Analysis Batch: 769045

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 768239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 13:18	1
Barium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 13:18	1
Beryllium	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 13:18	1
Cadmium	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 13:18	1
Cobalt	<0.0010		0.0010		mg/L		05/16/24 09:39	05/21/24 13:18	1
Chromium	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 13:18	1
Molybdenum	<0.0050		0.0050		mg/L		05/16/24 09:39	05/21/24 13:18	1
Lead	<0.00050		0.00050		mg/L		05/16/24 09:39	05/21/24 13:18	1
Antimony	<0.0030		0.0030		mg/L		05/16/24 09:39	05/21/24 13:18	1
Selenium	<0.0025		0.0025		mg/L		05/16/24 09:39	05/21/24 13:18	1
Thallium	<0.0020		0.0020		mg/L		05/16/24 09:39	05/21/24 13:18	1
Lithium	<0.010		0.010		mg/L		05/16/24 09:39	05/21/24 13:18	1

Lab Sample ID: MB 500-768239/1-A
Matrix: Water
Analysis Batch: 769274

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 768239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		05/16/24 09:39	05/22/24 13:34	1
Calcium	<0.20		0.20		mg/L		05/16/24 09:39	05/22/24 13:34	1

Lab Sample ID: LCS 500-768239/2-A
Matrix: Water
Analysis Batch: 769045

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 768239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0978		mg/L		98	80 - 120
Barium	0.500	0.477		mg/L		95	80 - 120
Beryllium	0.0500	0.0523		mg/L		105	80 - 120
Cadmium	0.0500	0.0482		mg/L		96	80 - 120
Cobalt	0.500	0.534		mg/L		107	80 - 120
Chromium	0.200	0.211		mg/L		106	80 - 120
Molybdenum	1.00	0.935		mg/L		94	80 - 120
Lead	0.100	0.0988		mg/L		99	80 - 120
Antimony	0.500	0.472		mg/L		94	80 - 120
Selenium	0.100	0.0921		mg/L		92	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120
Lithium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LCS 500-768239/2-A
Matrix: Water
Analysis Batch: 769274

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 768239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

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

Lab Sample ID: LCS 500-768239/2-A
Matrix: Water
Analysis Batch: 769360

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 768239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	10.0	8.11		mg/L		81	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-769539/12-A
Matrix: Water
Analysis Batch: 769797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 769539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/24/24 10:55	05/28/24 07:28	1

Lab Sample ID: LCS 500-769539/13-A
Matrix: Water
Analysis Batch: 769797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 769539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00197		mg/L		98	80 - 120

Lab Sample ID: 500-250106-7 MS
Matrix: Water
Analysis Batch: 769797

Client Sample ID: MW-06
Prep Type: Total/NA
Prep Batch: 769539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00102		mg/L		102	75 - 125

Lab Sample ID: 500-250106-7 MSD
Matrix: Water
Analysis Batch: 769797

Client Sample ID: MW-06
Prep Type: Total/NA
Prep Batch: 769539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000934		mg/L		93	75 - 125	9	20

Lab Sample ID: 500-250106-7 DU
Matrix: Water
Analysis Batch: 769797

Client Sample ID: MW-06
Prep Type: Total/NA
Prep Batch: 769539

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

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

Lab Sample ID: MB 500-766884/1
Matrix: Water
Analysis Batch: 766884

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			05/08/24 05:24	1

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

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

Lab Sample ID: LCS 500-766884/2
Matrix: Water
Analysis Batch: 766884

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	258		mg/L		103	80 - 120

Lab Sample ID: MB 500-767735/1
Matrix: Water
Analysis Batch: 767735

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			05/14/24 00:14	1

Lab Sample ID: LCS 500-767735/2
Matrix: Water
Analysis Batch: 767735

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

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-767769/106
Matrix: Water
Analysis Batch: 767769

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			05/13/24 15:13	1

Lab Sample ID: LCS 500-767769/107
Matrix: Water
Analysis Batch: 767769

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

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-769992/3
Matrix: Water
Analysis Batch: 769992

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			05/28/24 14:07	1

Lab Sample ID: MB 500-769992/31
Matrix: Water
Analysis Batch: 769992

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			05/28/24 16:27	1

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-769992/32

Matrix: Water

Analysis Batch: 769992

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	9.73		mg/L		97	90 - 119

Lab Sample ID: LCS 500-769992/4

Matrix: Water

Analysis Batch: 769992

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	9.73		mg/L		97	90 - 119

Lab Sample ID: 500-250106-3 MS

Matrix: Water

Analysis Batch: 769992

Client Sample ID: 2S/3S Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.41		5.00	5.46		mg/L		101	75 - 125

Lab Sample ID: 500-250106-3 MSD

Matrix: Water

Analysis Batch: 769992

Client Sample ID: 2S/3S Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.41		5.00	5.46		mg/L		101	75 - 125	0	20

Lab Sample ID: MB 500-769993/53

Matrix: Water

Analysis Batch: 769993

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			05/29/24 01:25	1

Lab Sample ID: LCS 500-769993/54

Matrix: Water

Analysis Batch: 769993

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	9.95		mg/L		100	90 - 119

Lab Sample ID: 500-250106-6 MS

Matrix: Water

Analysis Batch: 769993

Client Sample ID: MW-05

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.65		5.00	5.76		mg/L		102	75 - 125

Lab Sample ID: 500-250106-6 MSD

Matrix: Water

Analysis Batch: 769993

Client Sample ID: MW-05

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.65		5.00	5.84		mg/L		104	75 - 125	1	20

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-770352/31

Matrix: Water

Analysis Batch: 770352

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			05/30/24 20:53	1

Lab Sample ID: LCS 500-770352/32

Matrix: Water

Analysis Batch: 770352

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

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-768618/16

Matrix: Water

Analysis Batch: 768618

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			05/19/24 12:58	1

Lab Sample ID: LCS 500-768618/17

Matrix: Water

Analysis Batch: 768618

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.6		mg/L		108	88 - 123

Lab Sample ID: MB 500-768879/16

Matrix: Water

Analysis Batch: 768879

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			05/20/24 17:02	1

Lab Sample ID: LCS 500-768879/17

Matrix: Water

Analysis Batch: 768879

Client Sample ID: Lab Control Sample

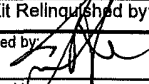
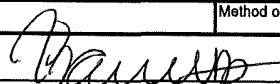
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.9		mg/L		105	88 - 123

Chain of Custody Record

[illegible]

eurofins | Environment Testing

Client Information		Sampler JAN SOH HONIESON		Lab PM Mockler, Diana J		Carrier Tracking Label: 		COC No: 500-123089-48726 1			
Client Contact: Mr Tim Stohner		Phone: 630 290 6850		E-Mail: Diana.Mockler@et.eurofinsus.com				Page: Page 1 of 1			
Company: KPRG and Associates, Inc.				PWSID:		Analysis Rec 500-250106 COC		Job #: 500-250106			
Address: 414 Plaza Drive Suite 106		Due Date Requested:						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)			
City: Westmont		TAT Requested (days):									
State, Zip: IL, 60559		Compliance Project. Δ Yes Δ No									
Phone:		PO #: 4502116506									
Email: tims@kprginc.com		WO #:									
Project Name: Will County 2S/3S Event Desc: Quarterly GW Monitoring		Project #: 50011609									
Site: Illinois		SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No) Return (N) / Not Returned (Y)	903.0, 904.0	6010C, 6020A, 7470A	2540C, 4500_F_C, SMA4500_Cl_E, SMA4500_SO4_E	Total Number of Containers	Special Instructions/Note:
CCR											
MW-05	5-8-24	09:41	G	Water	N	X	X	X			
MW-06	5-8-24	11:00	G	Water	N	X	X	X			
MW-09	5-8-24	15:57	G	Water	N	X	X	X			
MW-10	5-8-24	12:13	G	Water	N	X	X	X			
MW-11				Water							
MW-12				Water							
2S/3S Duplicate				Water							
MW-16				Water							
MW-17				Water							
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements					
Empty Kit Relinquished by:			Date	Time		Method of Shipment:					
Relinquished by: 			Date/Time: 5-9-24 08:05	Company: KPRG		Received by: 			Date/Time: 05/09/24 0805	Company: EETA	
Relinquished by:			Date/Time:	Company:		Received by:			Date/Time:	Company:	
Relinquished by:			Date/Time:	Company:		Received by:			Date/Time:	Company:	
Custody Seals Intact Δ Yes Δ No	Custody Seal No.,		Cooler Temperature(s) °C and Other Remarks. 17+18, 19+20								

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-250106-1

Login Number: 250106

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7,1.8,1.8,2.0
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 $<6\text{mm}$ (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: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-11

Date Collected: 05/06/24 12:35

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:02
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:18
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:32
Total/NA	Analysis	SM 2540C		1	766884	CLB	EET CHI	05/08/24 06:13
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:43
Total/NA	Analysis	SM 4500 F C		1	769992	PFK	EET CHI	05/28/24 16:23
Total/NA	Analysis	SM 4500 SO4 E		2	768618	TR	EET CHI	05/19/24 13:34

Client Sample ID: MW-12

Date Collected: 05/06/24 10:49

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:04
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:20
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:35
Total/NA	Analysis	SM 2540C		1	766884	CLB	EET CHI	05/08/24 06:15
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:40
Total/NA	Analysis	SM 4500 F C		1	769992	PFK	EET CHI	05/28/24 16:38
Total/NA	Analysis	SM 4500 SO4 E		5	768618	TR	EET CHI	05/19/24 13:34

Client Sample ID: 2S/3S Duplicate

Date Collected: 05/06/24 00:00

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:06
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:22
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:37
Total/NA	Analysis	SM 2540C		1	766884	CLB	EET CHI	05/08/24 06:18
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:40
Total/NA	Analysis	SM 4500 F C		1	769992	PFK	EET CHI	05/28/24 16:43
Total/NA	Analysis	SM 4500 SO4 E		5	768879	TR	EET CHI	05/20/24 17:12

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-16

Date Collected: 05/06/24 13:59

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:08
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:24
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:39
Total/NA	Analysis	SM 2540C		1	766884	CLB	EET CHI	05/08/24 06:20
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:39
Total/NA	Analysis	SM 4500 F C		1	770352	SO	EET CHI	05/30/24 22:46
Total/NA	Analysis	SM 4500 SO4 E		5	768618	TR	EET CHI	05/19/24 13:34

Client Sample ID: MW-17

Date Collected: 05/06/24 11:49

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:11
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		5	769274	RN	EET CHI	05/22/24 14:26
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:41
Total/NA	Analysis	SM 2540C		1	766884	CLB	EET CHI	05/08/24 06:23
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:43
Total/NA	Analysis	SM 4500 F C		1	770352	SO	EET CHI	05/30/24 22:51
Total/NA	Analysis	SM 4500 SO4 E		10	768618	TR	EET CHI	05/19/24 13:45

Client Sample ID: MW-05

Date Collected: 05/08/24 09:41

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:13
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		5	769274	RN	EET CHI	05/22/24 14:28
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:43
Total/NA	Analysis	SM 2540C		1	767735	CLB	EET CHI	05/14/24 00:57
Total/NA	Analysis	SM 4500 CI- E		1	767769	TR	EET CHI	05/13/24 15:14
Total/NA	Analysis	SM 4500 F C		1	769993	PFK	EET CHI	05/29/24 01:36
Total/NA	Analysis	SM 4500 SO4 E		10	768618	TR	EET CHI	05/19/24 13:32

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Client Sample ID: MW-06

Date Collected: 05/08/24 11:00

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:23
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:30
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 07:45
Total/NA	Analysis	SM 2540C		1	767735	CLB	EET CHI	05/14/24 01:00
Total/NA	Analysis	SM 4500 CI- E		1	767769	TR	EET CHI	05/13/24 15:15
Total/NA	Analysis	SM 4500 F C		1	769993	PFK	EET CHI	05/29/24 01:52
Total/NA	Analysis	SM 4500 SO4 E		5	768618	TR	EET CHI	05/19/24 13:35

Client Sample ID: MW-09

Date Collected: 05/08/24 15:57

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:25
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:39
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 08:27
Total/NA	Analysis	SM 2540C		1	767735	CLB	EET CHI	05/14/24 01:03
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:42
Total/NA	Analysis	SM 4500 F C		1	769993	PFK	EET CHI	05/29/24 01:57
Total/NA	Analysis	SM 4500 SO4 E		5	768618	TR	EET CHI	05/19/24 13:35

Client Sample ID: MW-10

Date Collected: 05/08/24 12:13

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769045	RN	EET CHI	05/21/24 14:27
Total Recoverable	Prep	3005A			768239	BDE	EET CHI	05/16/24 09:39 - 05/16/24 15:39 ¹
Total Recoverable	Analysis	6020B		1	769274	RN	EET CHI	05/22/24 14:41
Total/NA	Prep	7470A			769539	MJG	EET CHI	05/24/24 10:55 - 05/24/24 12:55 ¹
Total/NA	Analysis	7470A		1	769797	MJG	EET CHI	05/28/24 08:29
Total/NA	Analysis	SM 2540C		1	767735	CLB	EET CHI	05/14/24 01:05
Total/NA	Analysis	SM 4500 CI- E		5	767769	TR	EET CHI	05/13/24 15:41
Total/NA	Analysis	SM 4500 F C		1	769993	PFK	EET CHI	05/29/24 02:02
Total/NA	Analysis	SM 4500 SO4 E		10	768618	TR	EET CHI	05/19/24 13:46

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-250106-1

Laboratory References:

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: James Thorne
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Generated 6/7/2024 8:05:56 AM

JOB DESCRIPTION

Will County CCR (RAD)

JOB NUMBER

500-250106-2

Eurofins Chicago

Job Notes

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Authorization



Generated
6/7/2024 8:05:56 AM

Authorized for release by
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Case Narrative

Client: Midwest Generation EME LLC
Project: Will County CCR (RAD)

Job ID: 500-250106-2

Job ID: 500-250106-2

Eurofins Chicago

Job Narrative 500-250106-2

Receipt

The samples were received on 5/7/2024 2:55 PM and 5/9/2024 8:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.7°C, 1.8°C, 1.8°C and 2.0°C.

Gas Flow Proportional Counter

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: Will County CCR (RAD)

Job ID: 500-250106-2

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: Will County CCR (RAD)

Job ID: 500-250106-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-250106-1	MW-11	Water	05/06/24 12:35	05/07/24 14:55
500-250106-2	MW-12	Water	05/06/24 10:49	05/07/24 14:55
500-250106-3	2S/3S Duplicate	Water	05/06/24 00:00	05/07/24 14:55
500-250106-4	MW-16	Water	05/06/24 13:59	05/07/24 14:55
500-250106-5	MW-17	Water	05/06/24 11:49	05/07/24 14:55
500-250106-6	MW-05	Water	05/08/24 09:41	05/09/24 08:05
500-250106-7	MW-06	Water	05/08/24 11:00	05/09/24 08:05
500-250106-8	MW-09	Water	05/08/24 15:57	05/09/24 08:05
500-250106-9	MW-10	Water	05/08/24 12:13	05/09/24 08:05

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-11

Lab Sample ID: 500-250106-1

Date Collected: 05/06/24 12:35

Matrix: Water

Date Received: 05/07/24 14:55

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	0.337		0.122	0.125	1.00	0.124	pCi/L	05/09/24 09:03	06/04/24 10:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110					05/09/24 09:03	06/04/24 10:05	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	0.480	U	0.383	0.386	1.00	0.592	pCi/L	05/09/24 09:07	05/24/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110					05/09/24 09:07	05/24/24 11:43	1
Y Carrier	79.3		30 - 110					05/09/24 09:07	05/24/24 11:43	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	0.817		0.402	0.406	5.00	0.592	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-12

Lab Sample ID: 500-250106-2

Date Collected: 05/06/24 10:49

Matrix: Water

Date Received: 05/07/24 14:55

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	0.117		0.0695	0.0703	1.00	0.0861	pCi/L	05/09/24 09:03	06/04/24 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					05/09/24 09:03	06/04/24 12:15	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.522		0.325	0.328	1.00	0.467	pCi/L	05/09/24 09:07	05/24/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					05/09/24 09:07	05/24/24 11:43	1
Y Carrier	83.4		30 - 110					05/09/24 09:07	05/24/24 11:43	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	0.638		0.332	0.335	5.00	0.467	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-250106-3

Date Collected: 05/06/24 00:00

Matrix: Water

Date Received: 05/07/24 14:55

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	0.103	U	0.0740	0.0746	1.00	0.106	pCi/L	05/09/24 09:03	06/04/24 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					05/09/24 09:03	06/04/24 12:07	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	0.333	U	0.307	0.309	1.00	0.486	pCi/L	05/09/24 09:07	05/24/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					05/09/24 09:07	05/24/24 11:43	1
Y Carrier	82.2		30 - 110					05/09/24 09:07	05/24/24 11:43	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	0.436	U	0.316	0.318	5.00	0.486	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-16

Lab Sample ID: 500-250106-4

Date Collected: 05/06/24 13:59

Matrix: Water

Date Received: 05/07/24 14:55

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	0.504		0.131	0.139	1.00	0.114	pCi/L	05/09/24 09:03	06/04/24 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					05/09/24 09:03	06/04/24 12:07	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	0.224	U	0.333	0.334	1.00	0.563	pCi/L	05/09/24 09:07	05/24/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					05/09/24 09:07	05/24/24 11:43	1
Y Carrier	82.6		30 - 110					05/09/24 09:07	05/24/24 11:43	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	0.728		0.358	0.362	5.00	0.563	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-17

Lab Sample ID: 500-250106-5

Date Collected: 05/06/24 11:49

Matrix: Water

Date Received: 05/07/24 14:55

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	0.444		0.122	0.128	1.00	0.103	pCi/L	05/09/24 09:03	06/04/24 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					05/09/24 09:03	06/04/24 12:07	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	-0.191	U	0.324	0.324	1.00	0.655	pCi/L	05/09/24 09:07	05/24/24 11:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					05/09/24 09:07	05/24/24 11:43	1
Y Carrier	72.5		30 - 110					05/09/24 09:07	05/24/24 11:43	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	0.252	U	0.346	0.348	5.00	0.655	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-05

Date Collected: 05/08/24 09:41

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-6

Matrix: Water

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	0.0176	U	0.0939	0.0939	1.00	0.178	pCi/L	05/13/24 10:09	06/04/24 23:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		30 - 110					05/13/24 10:09	06/04/24 23:16	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00762	U	0.337	0.337	1.00	0.629	pCi/L	05/13/24 10:14	05/31/24 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		30 - 110					05/13/24 10:14	05/31/24 12:14	1
Y Carrier	81.1		30 - 110					05/13/24 10:14	05/31/24 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0253	U	0.350	0.350	5.00	0.629	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-06

Lab Sample ID: 500-250106-7

Date Collected: 05/08/24 11:00

Matrix: Water

Date Received: 05/09/24 08:05

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	0.216		0.108	0.110	1.00	0.131	pCi/L	05/13/24 10:09	06/04/24 23:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		30 - 110					05/13/24 10:09	06/04/24 23:16	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0642	U	0.316	0.316	1.00	0.600	pCi/L	05/13/24 10:14	05/31/24 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		30 - 110					05/13/24 10:14	05/31/24 12:14	1
Y Carrier	81.9		30 - 110					05/13/24 10:14	05/31/24 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.152	U	0.334	0.335	5.00	0.600	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-09

Lab Sample ID: 500-250106-8

Date Collected: 05/08/24 15:57

Matrix: Water

Date Received: 05/09/24 08:05

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	0.0102	U	0.101	0.101	1.00	0.211	pCi/L	05/14/24 09:06	06/05/24 14:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					05/14/24 09:06	06/05/24 14:14	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.215	U	0.371	0.372	1.00	0.634	pCi/L	05/14/24 09:11	06/04/24 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		30 - 110					05/14/24 09:11	06/04/24 12:11	1
Y Carrier	87.1		30 - 110					05/14/24 09:11	06/04/24 12:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.225	U	0.385	0.385	5.00	0.634	pCi/L		06/06/24 14:38	1

Client Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-10

Lab Sample ID: 500-250106-9

Date Collected: 05/08/24 12:13

Matrix: Water

Date Received: 05/09/24 08:05

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	0.287		0.167	0.169	1.00	0.204	pCi/L	05/14/24 09:06	06/05/24 14:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		30 - 110					05/14/24 09:06	06/05/24 14:14	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.543		0.354	0.358	1.00	0.520	pCi/L	05/14/24 09:11	06/04/24 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		30 - 110					05/14/24 09:11	06/04/24 12:11	1
Y Carrier	83.7		30 - 110					05/14/24 09:11	06/04/24 12:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.831		0.391	0.396	5.00	0.520	pCi/L		06/06/24 14:38	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Qualifiers

Rad

Qualifier	Qualifier Description
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: Will County CCR (RAD)

Job ID: 500-250106-2

Rad

Prep Batch: 660926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	PrecSep-21	
500-250106-2	MW-12	Total/NA	Water	PrecSep-21	
500-250106-3	2S/3S Duplicate	Total/NA	Water	PrecSep-21	
500-250106-4	MW-16	Total/NA	Water	PrecSep-21	
500-250106-5	MW-17	Total/NA	Water	PrecSep-21	
MB 160-660926/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-660926/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-250106-1 DU	MW-11	Total/NA	Water	PrecSep-21	

Prep Batch: 660927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-1	MW-11	Total/NA	Water	PrecSep_0	
500-250106-2	MW-12	Total/NA	Water	PrecSep_0	
500-250106-3	2S/3S Duplicate	Total/NA	Water	PrecSep_0	
500-250106-4	MW-16	Total/NA	Water	PrecSep_0	
500-250106-5	MW-17	Total/NA	Water	PrecSep_0	
MB 160-660927/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-660927/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-250106-1 DU	MW-11	Total/NA	Water	PrecSep_0	

Prep Batch: 661407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6	MW-05	Total/NA	Water	PrecSep-21	
500-250106-7	MW-06	Total/NA	Water	PrecSep-21	
MB 160-661407/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-661407/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 661408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-6	MW-05	Total/NA	Water	PrecSep_0	
500-250106-7	MW-06	Total/NA	Water	PrecSep_0	
MB 160-661408/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-661408/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 661579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-8	MW-09	Total/NA	Water	PrecSep-21	
500-250106-9	MW-10	Total/NA	Water	PrecSep-21	
MB 160-661579/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-661579/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 661580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-250106-8	MW-09	Total/NA	Water	PrecSep_0	
500-250106-9	MW-10	Total/NA	Water	PrecSep_0	
MB 160-661580/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-661580/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-660926/1-A

Matrix: Water

Analysis Batch: 664625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 660926

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.007787	U	0.0443	0.0443	1.00	0.0899	pCi/L	05/09/24 09:03	06/04/24 10:05	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					05/09/24 09:03	06/04/24 10:05	1

Lab Sample ID: LCS 160-660926/2-A

Matrix: Water

Analysis Batch: 664625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 660926

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	10.95		1.13	1.00	0.0934	pCi/L	97	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	93.3		30 - 110							

Lab Sample ID: 500-250106-1 DU

Matrix: Water

Analysis Batch: 664625

Client Sample ID: MW-11

Prep Type: Total/NA

Prep Batch: 660926

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.337		0.5105		0.133	1.00	0.0842	pCi/L	0.67	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	96.3		30 - 110							

Lab Sample ID: MB 160-661407/1-A

Matrix: Water

Analysis Batch: 664625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 661407

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02375	U	0.0739	0.0740	1.00	0.140	pCi/L	05/13/24 10:09	06/04/24 23:24	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					05/13/24 10:09	06/04/24 23:24	1

Lab Sample ID: LCS 160-661407/2-A

Matrix: Water

Analysis Batch: 664625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 661407

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	10.80		1.17	1.00	0.134	pCi/L	95	75 - 125

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QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

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

Lab Sample ID: LCS 160-661407/2-A
Matrix: Water
Analysis Batch: 664625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661407

LCS		LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.8		30 - 110

Lab Sample ID: MB 160-661579/1-A
Matrix: Water
Analysis Batch: 664836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661579

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.06966	U	0.0884	0.0886	1.00	0.228	pCi/L	05/14/24 09:06	06/05/24 14:13	1
MB		MB						Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	99.0		30 - 110					05/14/24 09:06	06/05/24 14:13	1

Lab Sample ID: LCS 160-661579/2-A
Matrix: Water
Analysis Batch: 664836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661579

Analyte	Spike Added	LCS		Total	RL	MDC	Unit	%Rec	%Rec	
		Result	Qual	Uncert. (2σ+/-)					Limits	
Radium-226	11.3	11.23		1.32	1.00	0.218	pCi/L	99	75 - 125	
LCS		LCS								
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	98.0		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-660927/1-A
Matrix: Water
Analysis Batch: 663323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660927

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4190	U	0.323	0.326	1.00	0.492	pCi/L	05/09/24 09:07	05/24/24 11:43	1
MB		MB						Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	93.3		30 - 110					05/09/24 09:07	05/24/24 11:43	1
Y Carrier	79.3		30 - 110					05/09/24 09:07	05/24/24 11:43	1

Lab Sample ID: LCS 160-660927/2-A
Matrix: Water
Analysis Batch: 663323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660927

Analyte	Spike Added	LCS		Total	RL	MDC	Unit	%Rec	%Rec	
		Result	Qual	Uncert. (2σ+/-)					Limits	
Radium-228	8.91	10.59		1.40	1.00	0.497	pCi/L	119	75 - 125	

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

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

Lab Sample ID: LCS 160-660927/2-A
Matrix: Water
Analysis Batch: 663323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660927

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.3		30 - 110
Y Carrier	80.4		30 - 110

Lab Sample ID: 500-250106-1 DU
Matrix: Water
Analysis Batch: 663180

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 660927

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
Radium-228	0.480	U	0.9288		0.412	1.00	0.533	pCi/L	0.56	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	96.3		30 - 110
Y Carrier	80.0		30 - 110

Lab Sample ID: MB 160-661408/1-A
Matrix: Water
Analysis Batch: 664147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661408

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4504	U	0.376	0.379	1.00	0.587	pCi/L	05/13/24 10:14	05/31/24 12:17	1

	MB	MB						Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	92.8		30 - 110					05/13/24 10:14	05/31/24 12:17	1
Y Carrier	81.5		30 - 110					05/13/24 10:14	05/31/24 12:17	1

Lab Sample ID: LCS 160-661408/2-A
Matrix: Water
Analysis Batch: 664147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661408

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	Limits
Radium-228	8.89	10.14		1.40	1.00	0.585	pCi/L	114	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.8		30 - 110
Y Carrier	81.5		30 - 110

Lab Sample ID: MB 160-661580/1-A
Matrix: Water
Analysis Batch: 664625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661580

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.02770	U	0.269	0.269	1.00	0.494	pCi/L	05/14/24 09:11	06/04/24 12:10	1

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

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

Lab Sample ID: MB 160-661580/1-A
Matrix: Water
Analysis Batch: 664625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661580

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	99.0		30 - 110
Y Carrier	88.6		30 - 110

Prepared	Analyzed	Dil Fac
05/14/24 09:11	06/04/24 12:10	1
05/14/24 09:11	06/04/24 12:10	1

Lab Sample ID: LCS 160-661580/2-A
Matrix: Water
Analysis Batch: 664625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661580

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.88	9.856		1.31	1.00	0.503	pCi/L	111	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.0		30 - 110
Y Carrier	87.1		30 - 110

eurofins | Environment Testing

Ver 06/08/2021 6/7/2024

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

eurofins | Environment Testing

Client Information		Sampler JAN SOH HONIESON		Lab PM Mockler, Diana J		Carrier Tracking Method: 		COC No: 500-123089-48726 1		
Client Contact: Mr Tim Stohner		Phone: 630 290 6850		E-Mail: Diana.Mockler@et.eurofinsus.com				Page: Page 1 of 1		
Company: KPRG and Associates, Inc.				PWSID:		Analysis Rec 500-250106 COC		Job #: 500-250106		
Address: 414 Plaza Drive Suite 106		Due Date Requested:						Preservation Codes:		
City: Westmont		TAT Requested (days):						A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)		
State, Zip: IL, 60559		Compliance Project. Δ Yes Δ No								
Phone:		PO #: 4502116506						Other:		
Email: tims@kprginc.com		WO #:								
Project Name: Will County 2S/3S Event Desc: Quarterly GW Monitoring		Project #: 50011609								
Site: Illinois		SSOW#:								
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No) Return (N) / Not Returned (Y)	903.0, 904.0	6010C, 6020A, 7470A	2540C, 4500_F_C, SMA4500_Cl_E, SMA4500_SO4_E	Total Number of Containers	Special Instructions/Note:
CCR										
MW-05	5-8-24	09:41	G	Water	N	X	X	X	5	
MW-06	5-8-24	11:00	G	Water	N	X	X	X	5	
MW-09	5-8-24	15:57	G	Water	N	X	X	X	5	
MW-10	5-8-24	12:13	G	Water	N	X	X	X	5	
MW-11				Water						
MW-12				Water						
2S/3S Duplicate				Water						
MW-16				Water						
MW-17				Water						
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements					
Empty Kit Relinquished by:			Date	Time	Method of Shipment:					
Relinquished by:			Date/Time: 5-9-24 08:05	Company: KPRG	Received by:			Date/Time: 05/09/24 0805	Company: EETA	
Relinquished by:			Date/Time:	Company:	Received by:			Date/Time:	Company:	
Relinquished by:			Date/Time:	Company:	Received by:			Date/Time:	Company:	
Custody Seals Intact Δ Yes Δ No	Custody Seal No.,		Cooler Temperature(s) °C and Other Remarks. 1.7+18, 1.9+20							



Phone: 708-534-5200 Fax: 708-534-5211

2417 Bond Street

University Park, IL 60484

Phone: 708-534-5200 Fax:

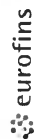
Client Information (Sub Contract Lab)				Lab PM: Mockler, Diana J		Carrier Tracking No(s) 500-187962.1																																																																			
Client Contact: Shipping/Receiving				E-Mail: Diana Mockler@et.eurofinsus.com		Page: Page 1 of 1																																																																			
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note): NELAP - Illinois		Job #: 500-250106-2																																																																			
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: 6/5/2024 TAT Requested (days):		Preservation Codes:																																																																			
Project Name: Will County CCR Site: NRG Midwest Generation Will County				Project #: 50011609 SSOW#		Other:																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Seawater, Wastewater, etc.)</th> <th>Field Filtered Sample (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> <th>Special Instructions/Note:</th> </tr> <tr> <td>MW-11 (500-250106-1)</td> <td>5/6/24</td> <td>12:35 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.</td> </tr> <tr> <td>MW-12 (500-250106-2)</td> <td>5/6/24</td> <td>10:49 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.</td> </tr> <tr> <td>2S/3S Duplicate (500-250106-3)</td> <td>5/6/24</td> <td>Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.</td> </tr> <tr> <td>MW-16 (500-250106-4)</td> <td>5/6/24</td> <td>13:59 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.</td> </tr> <tr> <td>MW-17 (500-250106-5)</td> <td>5/6/24</td> <td>11:49 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.</td> </tr> </table>				Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Wastewater, etc.)	Field Filtered Sample (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:	MW-11 (500-250106-1)	5/6/24	12:35 Central		Water		X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	MW-12 (500-250106-2)	5/6/24	10:49 Central		Water		X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	2S/3S Duplicate (500-250106-3)	5/6/24	Central		Water		X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	MW-16 (500-250106-4)	5/6/24	13:59 Central		Water		X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	MW-17 (500-250106-5)	5/6/24	11:49 Central		Water		X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	Analysis Requested		Special Instructions/Note:	
				Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Wastewater, etc.)	Field Filtered Sample (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:																																																											
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2S/3S Duplicate (500-250106-3)	5/6/24	Central		Water		X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.																																																															
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MW-17 (500-250106-5)	5/6/24	11:49 Central		Water		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/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.				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:																																																																					
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2				Time: Date: Method of Shipment																																																																					
Empty Kit Relinquished by: Relinquished by: <i>Phin</i> Relinquished by: Relinquished by:				Received by: <i>Sina Worthington</i> Received by: Received by:																																																																					
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.:				COOLING TEMPERATURE(S) °C AND OTHER REMARKS:																																																																					

2417 Bond Street

University Park, IL 60484

Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-250106-2

Login Number: 250106

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7,1.8,1.8,2.0
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 $<6\text{mm}$ (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: 500-250106-2

Login Number: 250106

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 05/08/24 12:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (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: 500-250106-2

Login Number: 250106

List Number: 3

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 05/10/24 02:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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 $<6\text{mm}$ (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: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-11

Date Collected: 05/06/24 12:35

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			660926	MLT	EET SL	05/09/24 09:03
Total/NA	Analysis	903.0		1	664625	SCB	EET SL	06/04/24 10:05
Total/NA	Prep	PrecSep_0			660927	MLT	EET SL	05/09/24 09:07
Total/NA	Analysis	904.0		1	663323	SCB	EET SL	05/24/24 11:43
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: MW-12

Date Collected: 05/06/24 10:49

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			660926	MLT	EET SL	05/09/24 09:03
Total/NA	Analysis	903.0		1	664625	SCB	EET SL	06/04/24 12:15
Total/NA	Prep	PrecSep_0			660927	MLT	EET SL	05/09/24 09:07
Total/NA	Analysis	904.0		1	663180	SCB	EET SL	05/24/24 11:43
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: 2S/3S Duplicate

Date Collected: 05/06/24 00:00

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			660926	MLT	EET SL	05/09/24 09:03
Total/NA	Analysis	903.0		1	664627	SCB	EET SL	06/04/24 12:07
Total/NA	Prep	PrecSep_0			660927	MLT	EET SL	05/09/24 09:07
Total/NA	Analysis	904.0		1	663180	SCB	EET SL	05/24/24 11:43
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: MW-16

Date Collected: 05/06/24 13:59

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			660926	MLT	EET SL	05/09/24 09:03
Total/NA	Analysis	903.0		1	664627	SCB	EET SL	06/04/24 12:07
Total/NA	Prep	PrecSep_0			660927	MLT	EET SL	05/09/24 09:07
Total/NA	Analysis	904.0		1	663180	SCB	EET SL	05/24/24 11:43
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-17

Date Collected: 05/06/24 11:49

Date Received: 05/07/24 14:55

Lab Sample ID: 500-250106-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			660926	MLT	EET SL	05/09/24 09:03
Total/NA	Analysis	903.0		1	664627	SCB	EET SL	06/04/24 12:07
Total/NA	Prep	PrecSep_0			660927	MLT	EET SL	05/09/24 09:07
Total/NA	Analysis	904.0		1	663180	SCB	EET SL	05/24/24 11:43
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: MW-05

Date Collected: 05/08/24 09:41

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			661407	KAK	EET SL	05/13/24 10:09
Total/NA	Analysis	903.0		1	664517	SCB	EET SL	06/04/24 23:16
Total/NA	Prep	PrecSep_0			661408	KAK	EET SL	05/13/24 10:14
Total/NA	Analysis	904.0		1	664149	SCB	EET SL	05/31/24 12:14
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: MW-06

Date Collected: 05/08/24 11:00

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			661407	KAK	EET SL	05/13/24 10:09
Total/NA	Analysis	903.0		1	664517	SCB	EET SL	06/04/24 23:16
Total/NA	Prep	PrecSep_0			661408	KAK	EET SL	05/13/24 10:14
Total/NA	Analysis	904.0		1	664149	SCB	EET SL	05/31/24 12:14
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Client Sample ID: MW-09

Date Collected: 05/08/24 15:57

Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			661579	MLT	EET SL	05/14/24 09:06
Total/NA	Analysis	903.0		1	664836	SCB	EET SL	06/05/24 14:14
Total/NA	Prep	PrecSep_0			661580	MLT	EET SL	05/14/24 09:11
Total/NA	Analysis	904.0		1	664625	SCB	EET SL	06/04/24 12:11
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-250106-2

Client Sample ID: MW-10
Date Collected: 05/08/24 12:13
Date Received: 05/09/24 08:05

Lab Sample ID: 500-250106-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			661579	MLT	EET SL	05/14/24 09:06
Total/NA	Analysis	903.0		1	664836	SCB	EET SL	06/05/24 14:14
Total/NA	Prep	PrecSep_0			661580	MLT	EET SL	05/14/24 09:11
Total/NA	Analysis	904.0		1	664625	SCB	EET SL	06/04/24 12:11
Total/NA	Analysis	Ra226_Ra228		1	664952	FLC	EET SL	06/06/24 14:38

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: Will County CCR (RAD)

Job ID: 500-250106-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba					
Lab Sample ID	Client Sample ID	(30-110)					
500-250106-1	MW-11	84.1					
500-250106-1 DU	MW-11	96.3					
500-250106-2	MW-12	93.3					
500-250106-3	2S/3S Duplicate	94.3					
500-250106-4	MW-16	92.5					
500-250106-5	MW-17	94.3					
500-250106-6	MW-05	88.6					
500-250106-7	MW-06	99.5					
500-250106-8	MW-09	88.3					
500-250106-9	MW-10	90.3					
LCS 160-660926/2-A	Lab Control Sample	93.3					
LCS 160-661407/2-A	Lab Control Sample	91.8					
LCS 160-661579/2-A	Lab Control Sample	98.0					
MB 160-660926/1-A	Method Blank	93.3					
MB 160-661407/1-A	Method Blank	92.8					
MB 160-661579/1-A	Method Blank	99.0					
Tracer/Carrier Legend							
Ba = Ba Carrier							

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba	Y				
Lab Sample ID	Client Sample ID	(30-110)	(30-110)				
500-250106-1	MW-11	84.1	79.3				
500-250106-1 DU	MW-11	96.3	80.0				
500-250106-2	MW-12	93.3	83.4				
500-250106-3	2S/3S Duplicate	94.3	82.2				
500-250106-4	MW-16	92.5	82.6				
500-250106-5	MW-17	94.3	72.5				
500-250106-6	MW-05	88.6	81.1				
500-250106-7	MW-06	99.5	81.9				
500-250106-8	MW-09	88.3	87.1				
500-250106-9	MW-10	90.3	83.7				
LCS 160-660927/2-A	Lab Control Sample	93.3	80.4				
LCS 160-661408/2-A	Lab Control Sample	91.8	81.5				
LCS 160-661580/2-A	Lab Control Sample	98.0	87.1				
MB 160-660927/1-A	Method Blank	93.3	79.3				
MB 160-661408/1-A	Method Blank	92.8	81.5				
MB 160-661580/1-A	Method Blank	99.0	88.6				
Tracer/Carrier Legend							
Ba = Ba Carrier							
Y = Y Carrier							